Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 03:17 PM UTC

PDB ID	:	4V9D / pdb_00004v9d
Title	:	Structures of the bacterial ribosome in classical and hybrid states of tRNA binding
Authors	:	Dunkle, J.A.; Wang, L.; Feldman, M.B.; Pulk, A.; Chen, V.B.; Kapral, G.J.; Noeske, J.; Richardson, J.S.; Blanchard, S.C.; Cate, J.H.D.
Deposited on	:	2012-07-31
Resolution	:	3.00 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*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

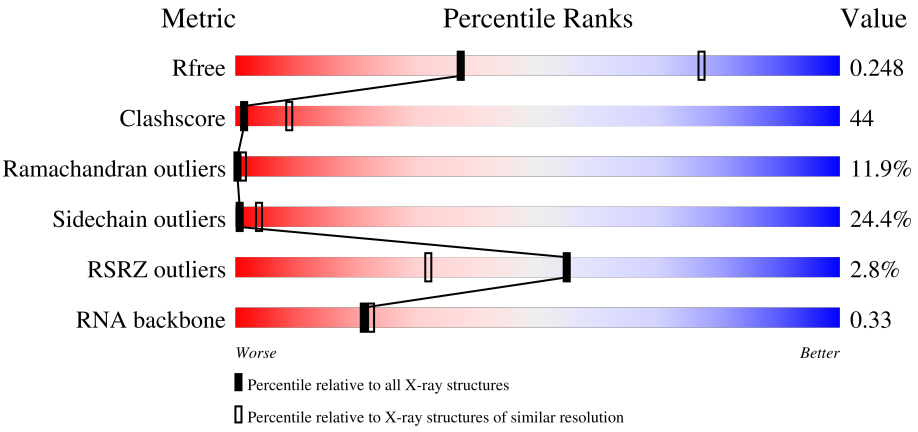
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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}	180053	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)
RNA backbone	3983	1109 (3.20-2.80)

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 of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	1539	17% 58% 25%
1	BA	1539	15% 60% 25%
2	AB	218	7% 8% 43% 39% 10%
2	BB	218	5% 12% 52% 27% 8%

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Mol	Chain	Length	Quality of chain
3	AC	206	2% 20% 52% 22% 6%
3	BC	206	18% 50% 29%
4	AD	205	4% 18% 47% 30%
4	BD	205	3% 16% 50% 30%
5	AE	150	2% 16% 47% 32% 5%
5	BE	150	19% 42% 34% 5%
6	AF	100	3% 15% 51% 28% 6%
6	BF	100	2% 9% 52% 33% 6%
7	AG	151	7% 25% 46% 26%
7	BG	151	6% 13% 55% 28%
8	AH	129	2% 16% 62% 17% 5%
8	BH	129	2% 28% 43% 27%
9	AI	127	2% 13% 57% 28%
9	BI	127	7% 13% 53% 28% 6%
10	AJ	98	5% 15% 43% 35% 7%
10	BJ	98	8% 19% 39% 37% 5%
11	AK	117	3% 25% 45% 28%
11	BK	117	2% 24% 48% 23% 5%
12	AL	123	6% 32% 56% 9%
12	BL	123	6% 28% 41% 24% 7%
13	AM	114	3% 17% 56% 23%
13	BM	114	6% 14% 52% 28% 6%
14	AN	100	4% 11% 52% 28% 5%
14	BN	100	9% 11% 48% 32% 5%
15	AO	88	27% 53% 16%

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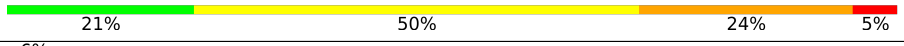
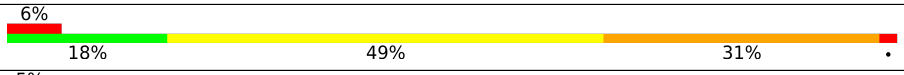
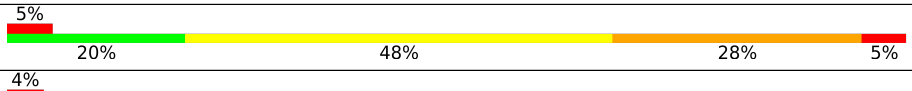
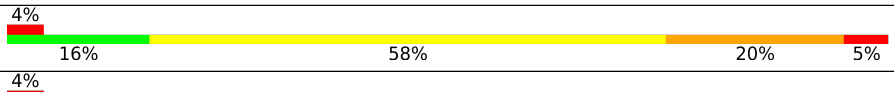
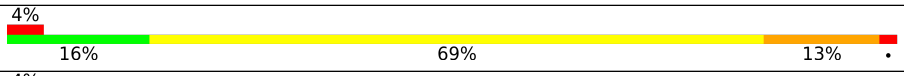
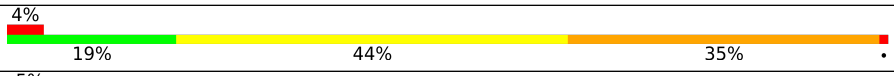
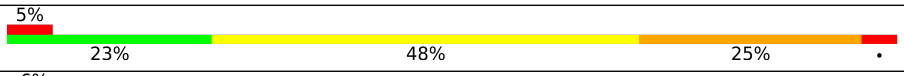
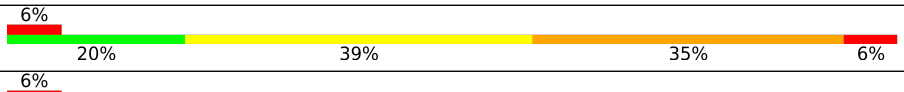
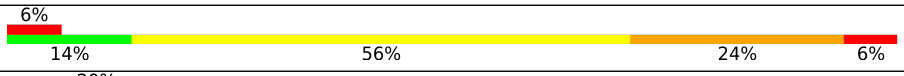
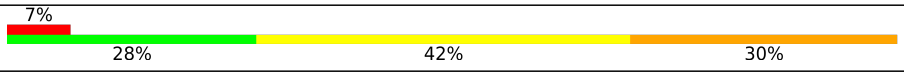
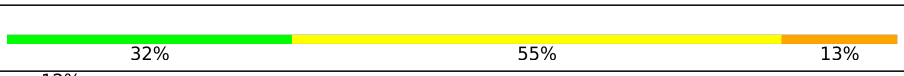
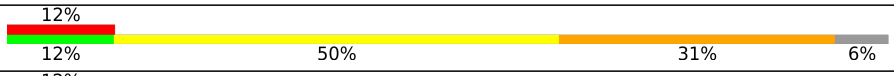
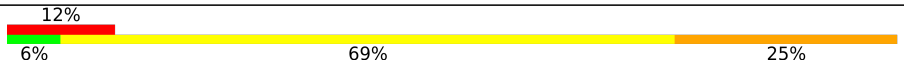
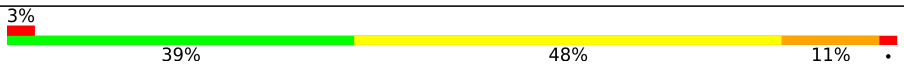
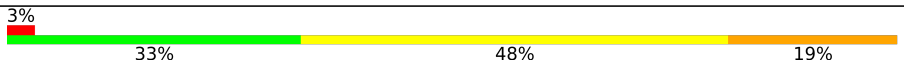
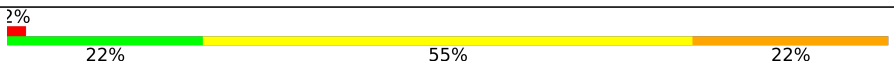
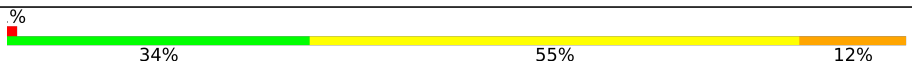
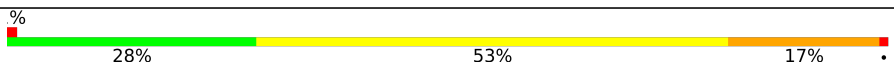
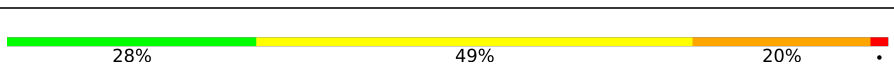
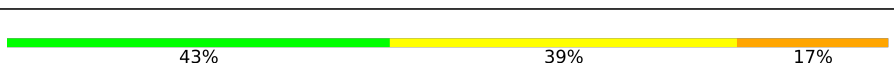
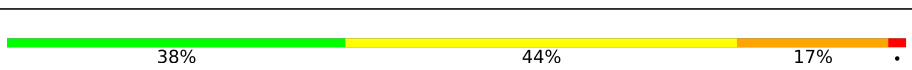
Mol	Chain	Length	Quality of chain
15	BO	88	
16	AP	82	
16	BP	82	
17	AQ	80	
17	BQ	80	
18	AR	55	
18	BR	55	
19	AS	79	
19	BS	79	
20	AT	85	
20	BT	85	
21	AU	51	
21	BU	51	
22	AV	76	
22	BV	76	
23	AX	16	
23	BX	16	
24	AY	183	
25	CA	2903	
25	DA	2903	
26	CB	119	
27	CC	271	
27	DC	271	
28	CD	209	
28	DD	209	

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Mol	Chain	Length	Quality of chain
29	CE	201	34% 52% 13%
29	DE	201	27% 48% 21%
30	CF	177	2% 18% 55% 24%
30	DF	177	4% 19% 51% 27%
31	CG	176	28% 51% 20%
31	DG	176	23% 52% 23%
32	CH	149	5% 21% 50% 27%
32	DH	149	3% 19% 52% 26%
33	CI	141	43% 16% 47% 32% 6%
33	DI	141	50% 15% 51% 33%
34	CJ	142	2% 49% 37% 13%
34	DJ	142	2% 32% 50% 15%
35	CK	122	38% 44% 16%
35	DK	122	40% 39% 18%
36	CL	143	27% 47% 20% 6%
36	DL	143	27% 50% 17% 6%
37	CM	136	35% 42% 21%
37	DM	136	24% 51% 21%
38	CN	120	29% 52% 16%
38	DN	120	23% 55% 20%
39	CO	116	28% 49% 19%
39	DO	116	2% 21% 53% 24%
40	CP	114	30% 54% 14%
40	DP	114	24% 52% 20%
41	CQ	117	39% 51% 9%

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Mol	Chain	Length	Quality of chain
41	DQ	117	31% 56% 14%
42	CR	103	40% 40% 17%
42	DR	103	25% 51% 20%
43	CS	110	45% 43% 9%
43	DS	110	35% 44% 20%
44	CT	93	30% 47% 20%
44	DT	93	14% 49% 29% 8%
45	CU	102	31% 43% 22%
45	DU	102	8% 22% 56% 21%
46	CV	94	45% 43% 13%
46	DV	94	34% 51% 14%
47	CW	76	45% 42% 12%
48	CX	77	34% 53% 12%
48	DX	77	27% 53% 18%
49	CY	63	22% 40% 30% 8%
49	DY	63	5% 13% 48% 37%
50	CZ	58	36% 52% 12%
50	DZ	58	36% 43% 19%
51	C0	56	45% 39% 16%
51	D0	56	25% 57% 14%
52	C1	50	28% 54% 14%
52	D1	50	30% 54% 14%
53	C2	46	35% 52% 13%
53	D2	46	52% 39% 7%
54	C3	64	36% 53% 9%

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Mol	Chain	Length	Quality of chain
54	D3	64	33% 56% 11%
55	C4	38	3% 39% 47% 8% 5%
55	D4	38	3% 24% 63% 13%
56	DB	118	2% 17% 58% 25%
57	DW	75	% 48% 40% 11%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	MG	CA	3062	-	-	-	X

2 Entry composition (i)

There are 60 unique types of molecules in this entry. The entry contains 292354 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	1538	Total	C	N	O	P	0	0	0
			32995	14716	6050	10691	1538			
1	BA	1539	Total	C	N	O	P	0	0	0
			33015	14725	6052	10699	1539			

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	218	Total	C	N	O	S	0	0	0
			1705	1081	305	312	7			
2	BB	218	Total	C	N	O	S	0	0	0
			1705	1081	305	312	7			

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	206	Total	C	N	O	S	0	0	0
			1625	1028	305	289	3			
3	BC	206	Total	C	N	O	S	0	0	0
			1625	1028	305	289	3			

- Molecule 4 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			
4	BD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	150	Total	C	N	O	S	0	0	0
			1106	687	211	202	6			
5	BE	150	Total	C	N	O	S	0	0	0
			1106	687	211	202	6			

- Molecule 6 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	100	Total	C	N	O	S	0	0	0
			818	515	148	149	6			
6	BF	100	Total	C	N	O	S	0	0	0
			818	515	148	149	6			

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	151	Total	C	N	O	S	0	0	0
			1182	735	227	216	4			
7	BG	151	Total	C	N	O	S	0	0	0
			1182	735	227	216	4			

- Molecule 8 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			
8	BH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			
9	BI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			

- Molecule 10 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	98	Total	C	N	O	S	0	0	0
			787	493	150	143	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	BJ	98	Total	C	N	O	S	0	0	0
			787	493	150	143	1			

- Molecule 11 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			
11	BK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

- Molecule 12 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			
12	BL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	114	Total	C	N	O	S	0	0	0
			884	546	178	157	3			
13	BM	114	Total	C	N	O	S	0	0	0
			884	546	178	157	3			

- Molecule 14 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			
14	BN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			

- 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
			714	439	144	130	1			
15	BO	88	Total	C	N	O	S	0	0	0
			714	439	144	130	1			

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			
16	BP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	80	Total	C	N	O	S	0	0	0
			649	411	121	114	3			
17	BQ	80	Total	C	N	O	S	0	0	0
			649	411	121	114	3			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	55	Total	C	N	O	0	0	0
			456	288	86	82			
18	BR	55	Total	C	N	O	0	0	0
			456	288	86	82			

- 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	0
			638	408	120	108	2			
19	BS	79	Total	C	N	O	S	0	0	0
			638	408	120	108	2			

- Molecule 20 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			
20	BT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			

- Molecule 21 is a protein called 30S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AU	51	Total	C	N	O	S	0	0	0
			426	265	86	74	1			
21	BU	51	Total	C	N	O	S	0	0	0
			426	265	86	74	1			

- Molecule 22 is a RNA chain called phenylalanine specific transfer RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
22	BV	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			

- Molecule 23 is a RNA chain called messenger RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	15	Total	C	N	O	P	0	0	0
			324	145	61	103	15			
23	BX	16	Total	C	N	O	P	0	0	0
			346	155	66	109	16			

- Molecule 24 is a protein called ribosome recycling factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	183	Total	C	N	O	S	0	0	0
			1419	871	260	283	5			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AY	2	GLY	-	expression tag	UNP P0A805

- Molecule 25 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	CA	2897	Total	C	N	O	P	0	0	0
			62195	27745	11446	20107	2897			
25	DA	2896	Total	C	N	O	P	0	0	0
			62173	27735	11441	20101	2896			

- Molecule 26 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	CB	119	Total	C	N	O	P	0	0	0
			2548	1135	466	829	118			

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	CC	271	Total	C	N	O	S	0	0	0
			2083	1288	423	365	7			
27	DC	271	Total	C	N	O	S	0	0	0
			2083	1288	423	365	7			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	CD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			
28	DD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	CE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			
29	DE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	CF	177	Total	C	N	O	S	0	0	0
			1411	899	249	257	6			
30	DF	177	Total	C	N	O	S	0	0	0
			1411	899	249	257	6			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	CG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			
31	DG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	CH	149	Total	C	N	O	S	0	0	0
			1110	699	197	213	1			
32	DH	149	Total	C	N	O	S	0	0	0
			1110	699	197	213	1			

- Molecule 33 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	CI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			
33	DI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	CJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			
34	DJ	142	Total	C	N	O	S	0	0	0
			1129	714	212	199	4			

- Molecule 35 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	CK	122	Total	C	N	O	S	0	0	0
			939	587	180	166	6			
35	DK	122	Total	C	N	O	S	0	0	0
			939	587	180	166	6			

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	CL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			
36	DL	143	Total	C	N	O	S	0	0	0
			1045	649	206	189	1			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	CM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			
37	DM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	CN	120	Total	C	N	O	S	0	0	0
			961	593	196	167	5			
38	DN	120	Total	C	N	O	S	0	0	0
			961	593	196	167	5			

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	CO	116	Total	C	N	O	0	0	0
			892	552	178	162			
39	DO	116	Total	C	N	O	0	0	0
			892	552	178	162			

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	CP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			
40	DP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	CQ	117	Total	C	N	O	0	0	0
			947	604	192	151			
41	DQ	117	Total	C	N	O	0	0	0
			947	604	192	151			

- Molecule 42 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	CR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	DR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	CS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			
43	DS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	CT	93	Total	C	N	O	S	0	0	0
			739	466	139	132	2			
44	DT	93	Total	C	N	O	S	0	0	0
			739	466	139	132	2			

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	CU	102	Total	C	N	O	0	0	0
			780	492	146	142			
45	DU	102	Total	C	N	O	0	0	0
			780	492	146	142			

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	CV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			
46	DV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	CW	76	Total	C	N	O	S	0	0	0
			575	356	117	101	1			

- Molecule 48 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	CX	77	Total	C	N	O	S	0	0	0
			625	388	129	106	2			
48	DX	77	Total	C	N	O	S	0	0	0
			625	388	129	106	2			

- Molecule 49 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	CY	63	Total	C	N	O	S	0	0	0
			509	313	99	95	2			
49	DY	63	Total	C	N	O	S	0	0	0
			509	313	99	95	2			

- Molecule 50 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	CZ	58	Total	C	N	O	S	0	0	0
			449	281	87	79	2			
50	DZ	58	Total	C	N	O	S	0	0	0
			449	281	87	79	2			

- Molecule 51 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	C0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			
51	D0	56	Total	C	N	O	S	0	0	0
			444	269	94	80	1			

- Molecule 52 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	C1	50	Total	C	N	O	0	0	0
			410	263	75	72			
52	D1	50	Total	C	N	O	0	0	0
			410	263	75	72			

- Molecule 53 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	C2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	D2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

- Molecule 54 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	C3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			
54	D3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			

- Molecule 55 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	C4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			
55	D4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			

- Molecule 56 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	DB	118	Total	C	N	O	P	0	0	0
			2529	1126	464	821	118			

- Molecule 57 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	DW	75	Total	C	N	O	S	0	0	0
			564	350	113	100	1			

- Molecule 58 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	AA	72	Total	Mg	0	0
			72	72		
58	BA	56	Total	Mg	0	0
			56	56		
58	CA	194	Total	Mg	0	0
			194	194		
58	CB	4	Total	Mg	0	0
			4	4		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	CQ	1	Total Mg 1 1	0	0
58	DA	166	Total Mg 166 166	0	0
58	DB	3	Total Mg 3 3	0	0
58	DL	1	Total Mg 1 1	0	0
58	DQ	1	Total Mg 1 1	0	0

- Molecule 59 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	C4	1	Total Zn 1 1	0	0
59	D4	1	Total Zn 1 1	0	0

- Molecule 60 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	AA	197	Total O 197 197	0	0
60	AN	4	Total O 4 4	0	0
60	AT	1	Total O 1 1	0	0
60	AU	1	Total O 1 1	0	0
60	BA	190	Total O 190 190	0	0
60	BL	1	Total O 1 1	0	0
60	BN	5	Total O 5 5	0	0
60	BT	1	Total O 1 1	0	0
60	BU	1	Total O 1 1	0	0
60	CA	625	Total O 625 625	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	CB	13	Total O 13 13	0	0
60	CC	8	Total O 8 8	0	0
60	CD	2	Total O 2 2	0	0
60	CE	2	Total O 2 2	0	0
60	CF	1	Total O 1 1	0	0
60	CJ	1	Total O 1 1	0	0
60	CL	6	Total O 6 6	0	0
60	CN	4	Total O 4 4	0	0
60	CS	1	Total O 1 1	0	0
60	CV	1	Total O 1 1	0	0
60	C2	1	Total O 1 1	0	0
60	C3	1	Total O 1 1	0	0
60	C4	2	Total O 2 2	0	0
60	DA	622	Total O 622 622	0	0
60	DB	14	Total O 14 14	0	0
60	DC	4	Total O 4 4	0	0
60	DD	5	Total O 5 5	0	0
60	DE	2	Total O 2 2	0	0
60	DJ	1	Total O 1 1	0	0
60	DL	4	Total O 4 4	0	0
60	DN	1	Total O 1 1	0	0

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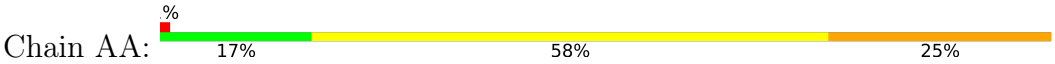
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	DR	1	Total O 1 1	0	0
60	D2	1	Total O 1 1	0	0
60	D3	2	Total O 2 2	0	0
60	D4	1	Total O 1 1	0	0

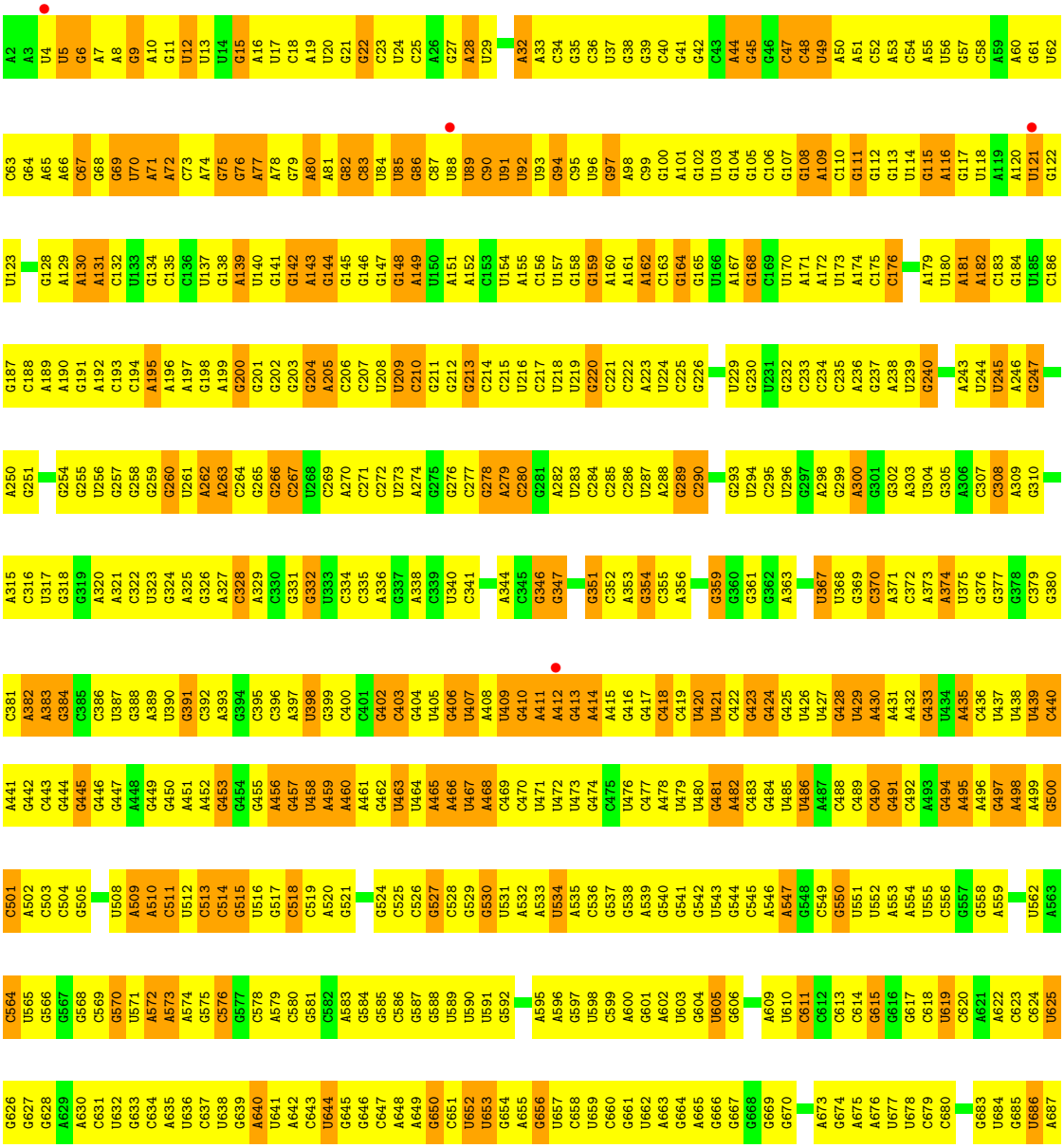
3 Residue-property plots (i)

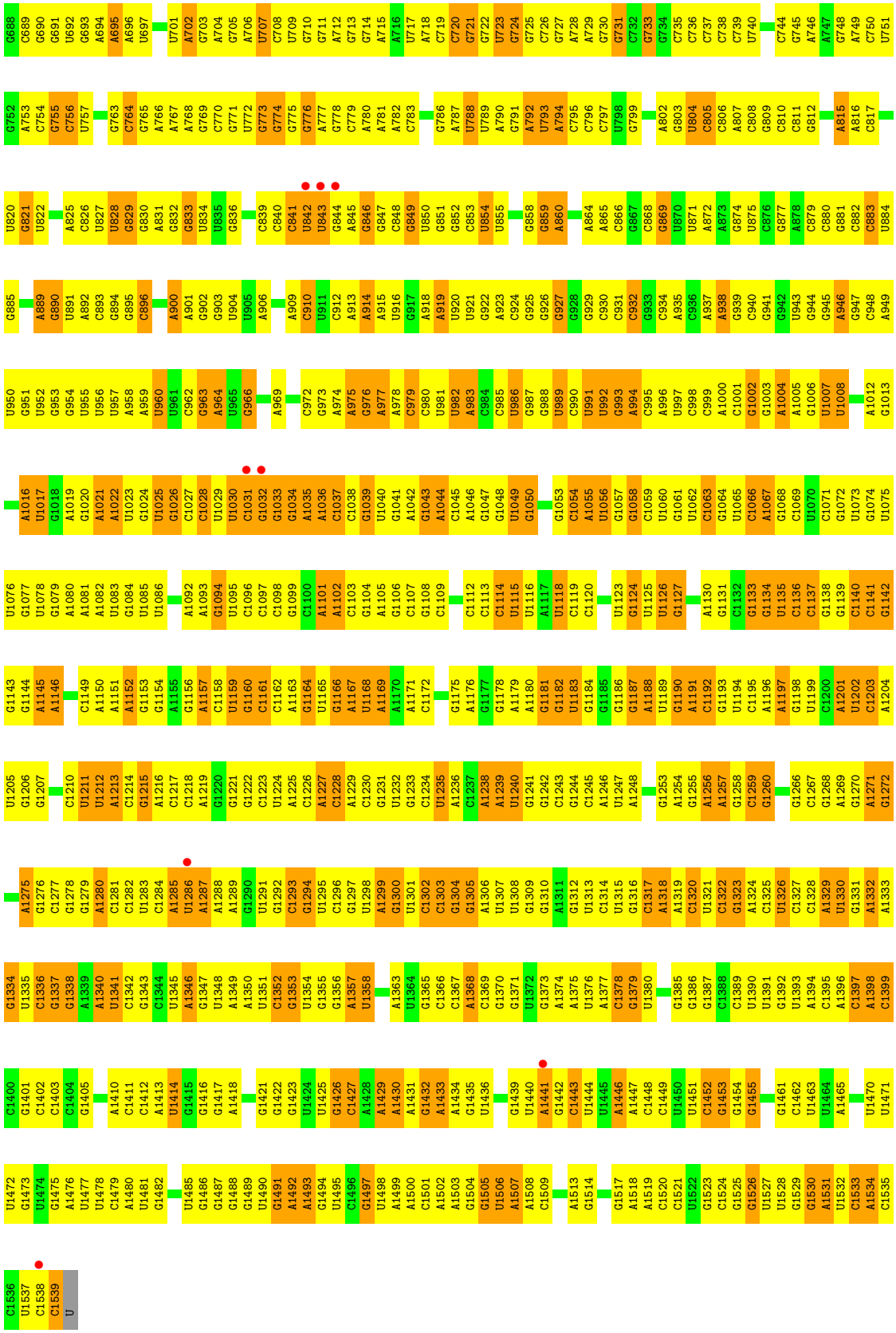
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: 16S rRNA

Chain AA:

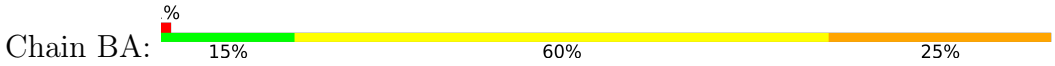


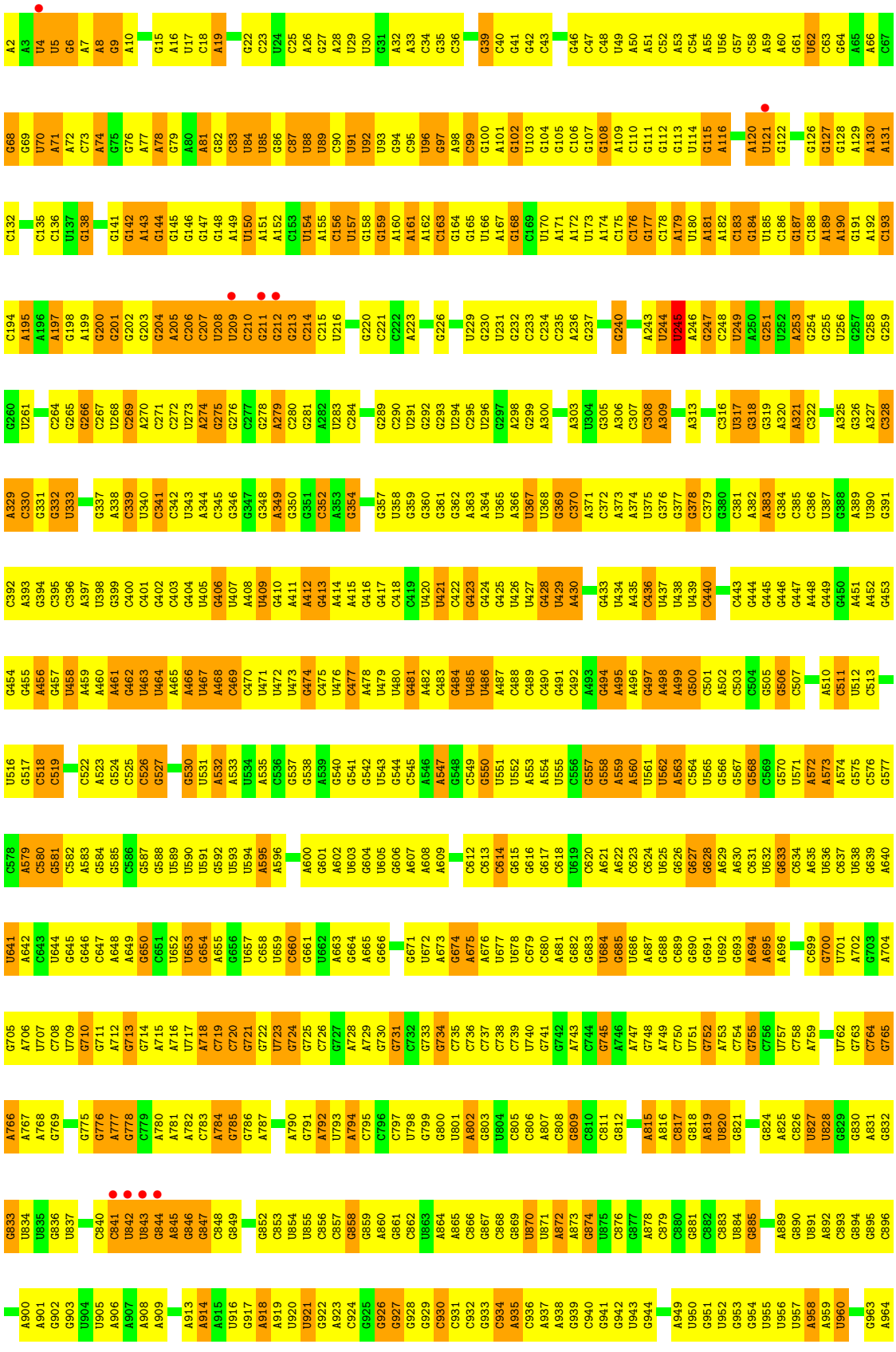


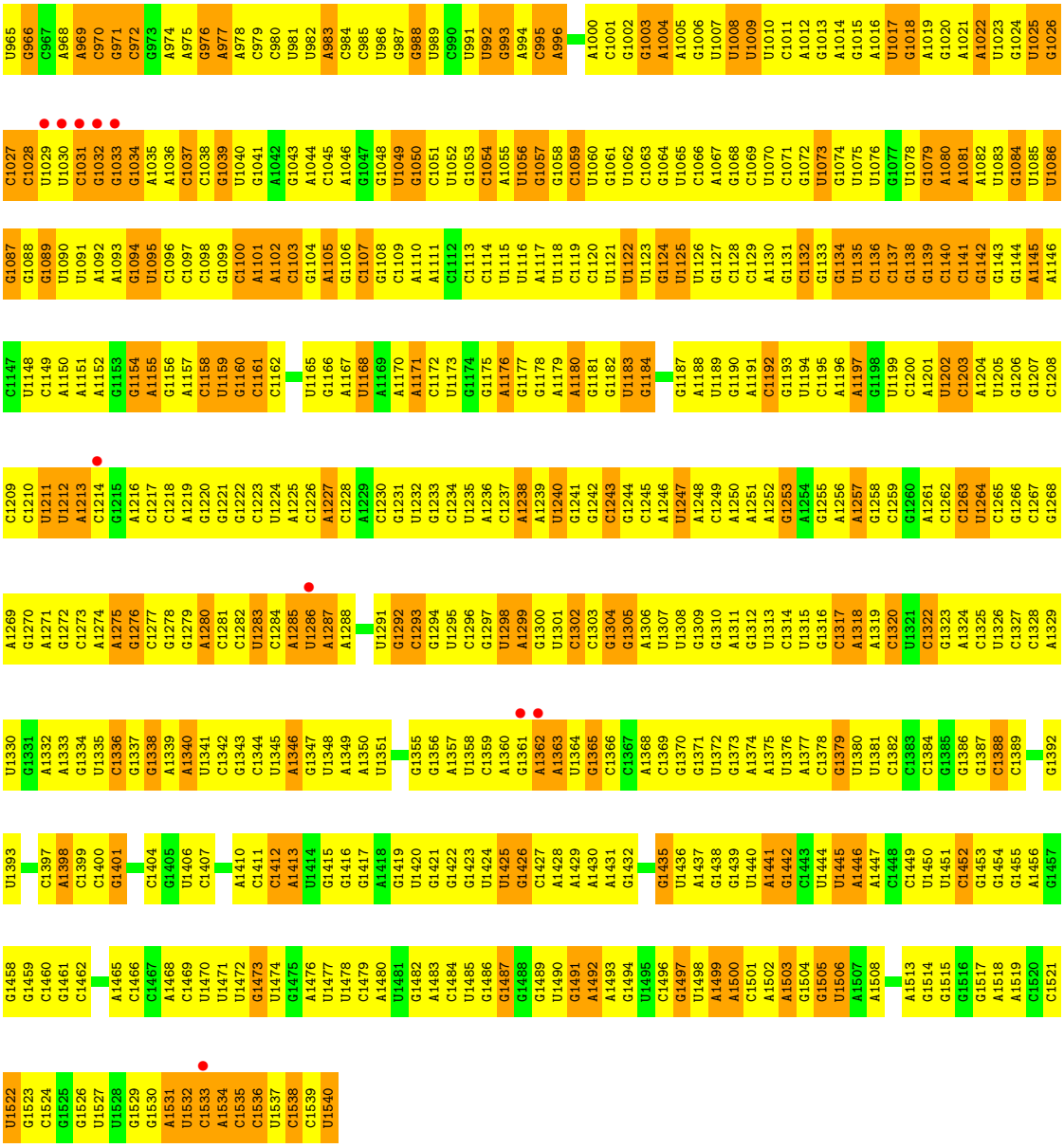


• Molecule 1: 16S rRNA

Chain BA:

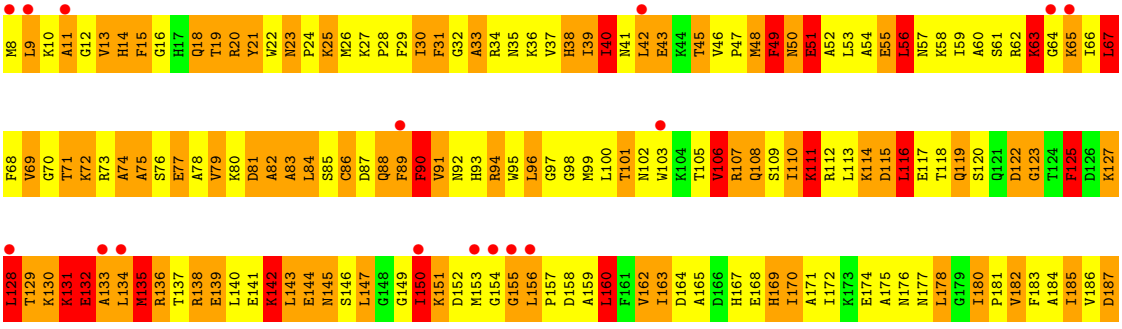






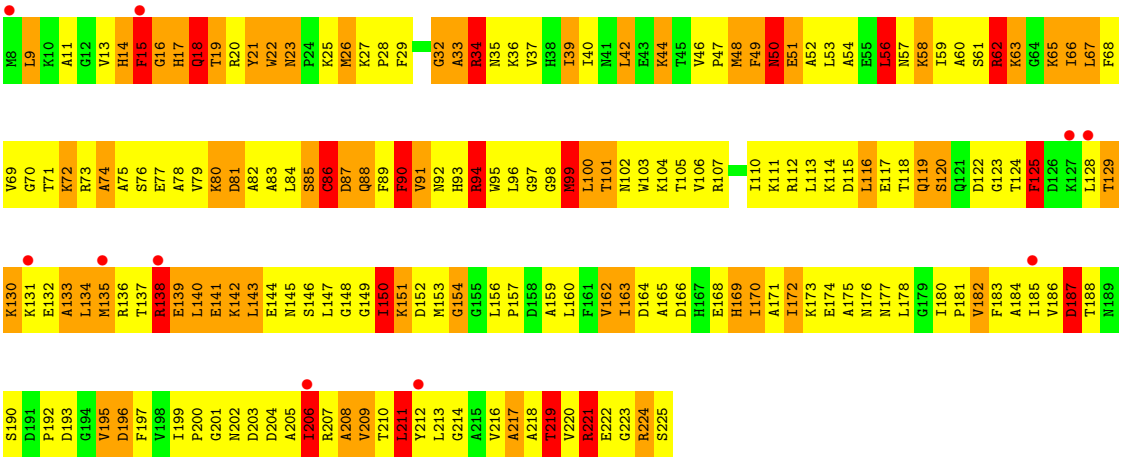
• Molecule 2: 30S ribosomal protein S2

Chain AB:



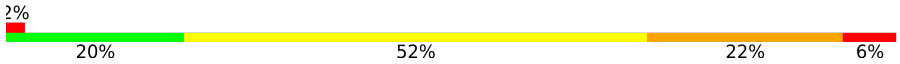
• Molecule 2: 30S ribosomal protein S2

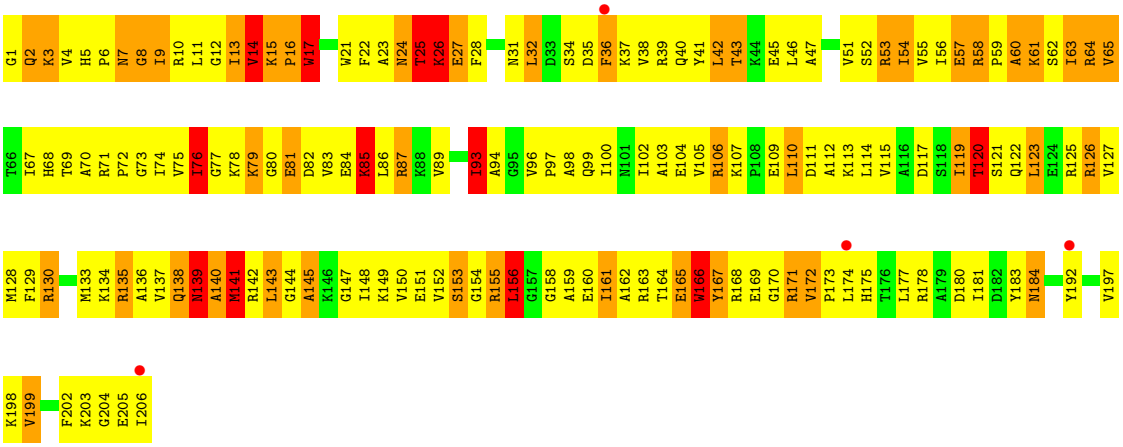
Chain BB:



• Molecule 3: 30S ribosomal protein S3

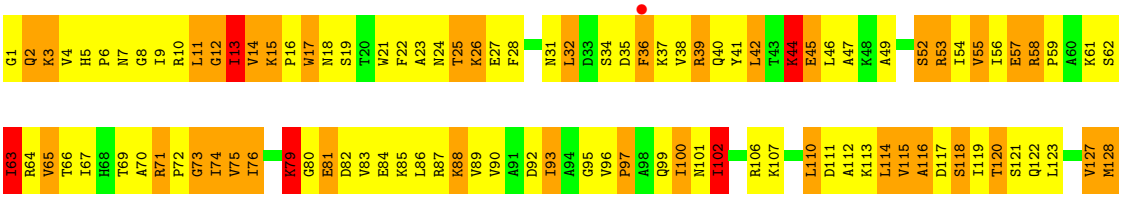
Chain AC:

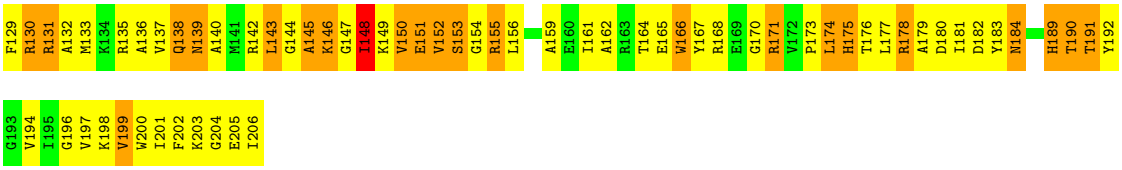




• Molecule 3: 30S ribosomal protein S3

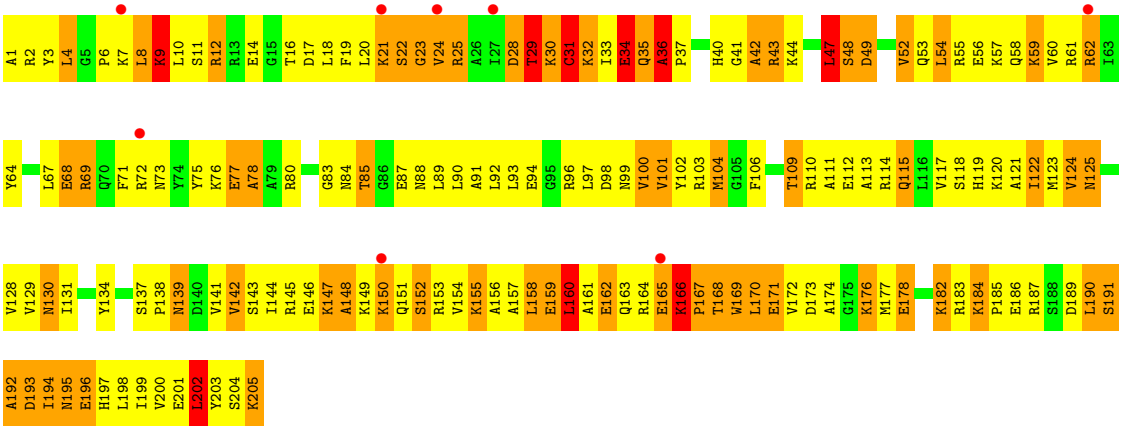
Chain BC:





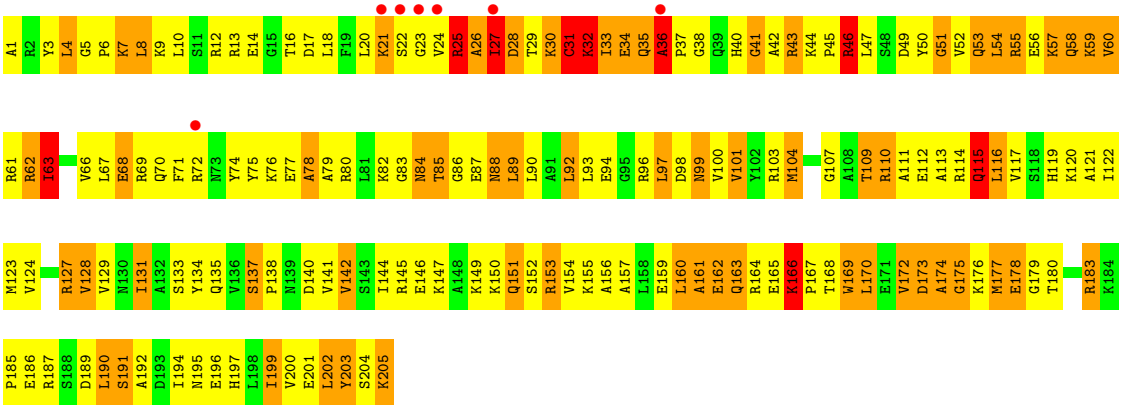
• Molecule 4: 30S ribosomal protein S4

Chain AD:



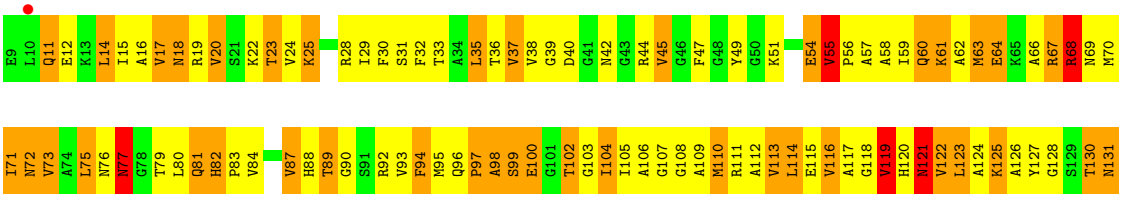
• Molecule 4: 30S ribosomal protein S4

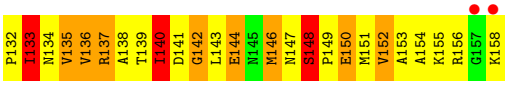
Chain BD:



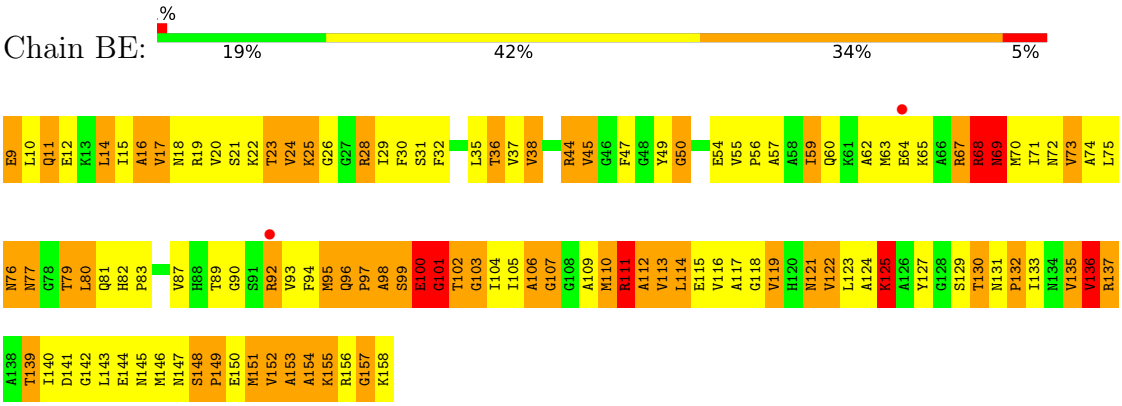
• Molecule 5: 30S ribosomal protein S5

Chain AE:

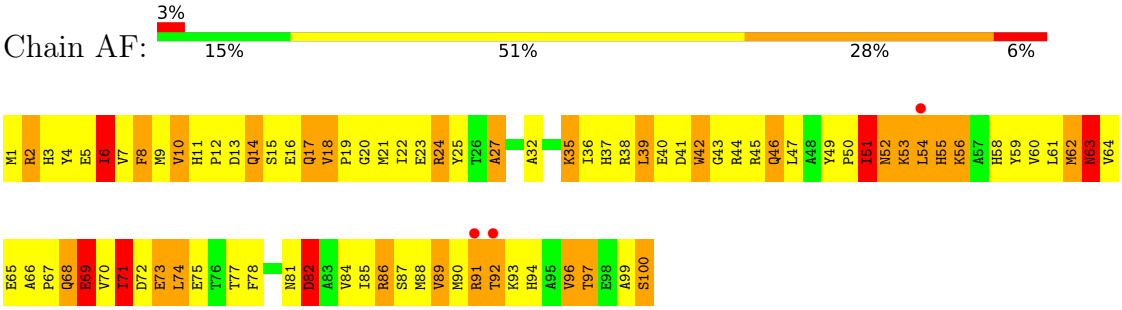




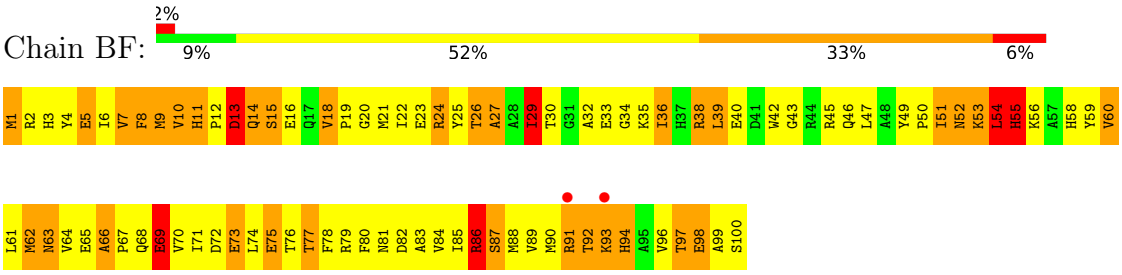
• Molecule 5: 30S ribosomal protein S5



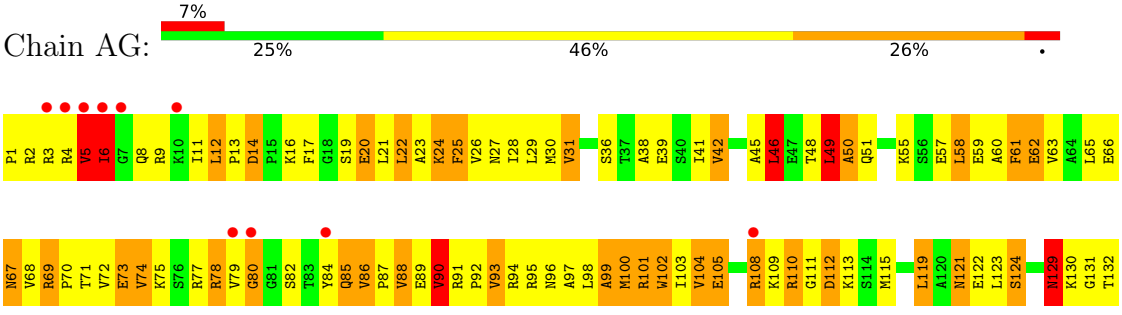
• Molecule 6: 30S ribosomal protein S6

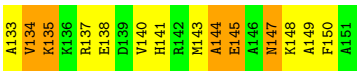


• Molecule 6: 30S ribosomal protein S6

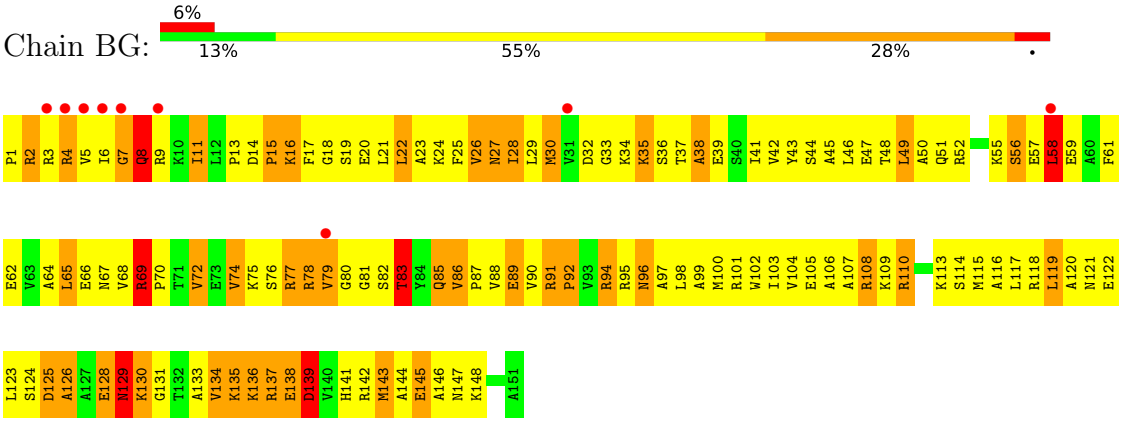


• Molecule 7: 30S ribosomal protein S7

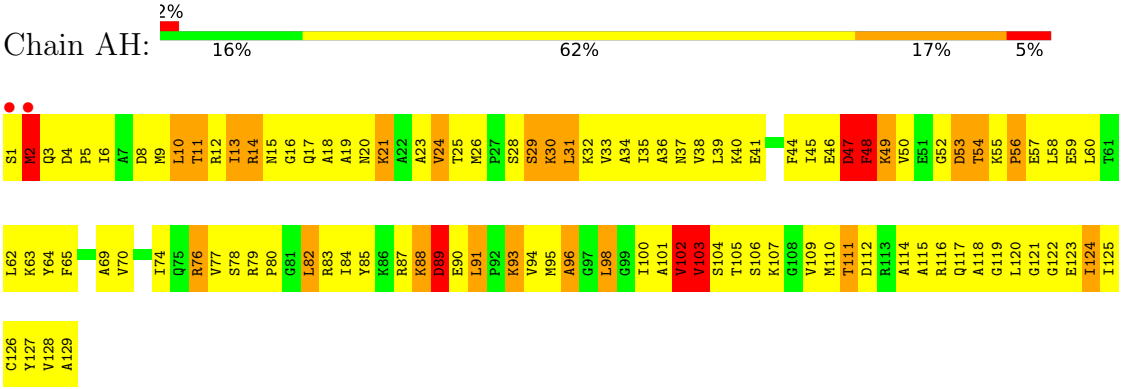




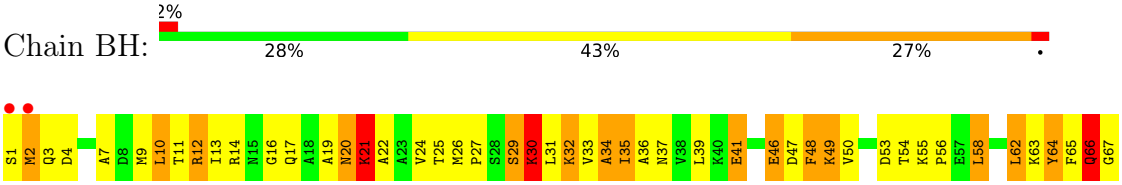
• Molecule 7: 30S ribosomal protein S7

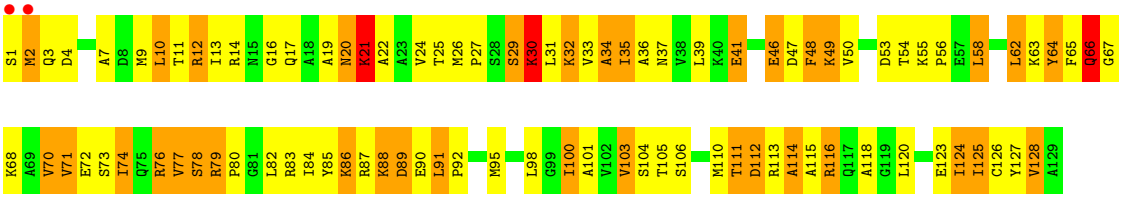


• Molecule 8: 30S ribosomal protein S8

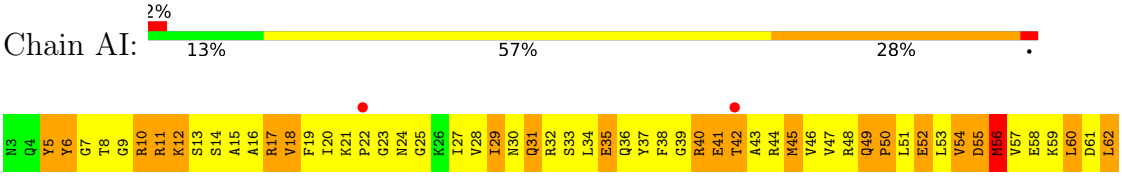


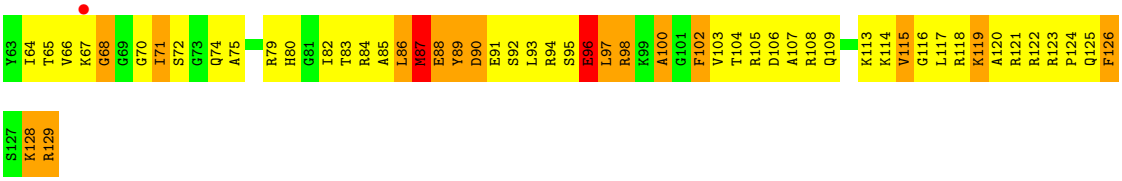
• Molecule 8: 30S ribosomal protein S8



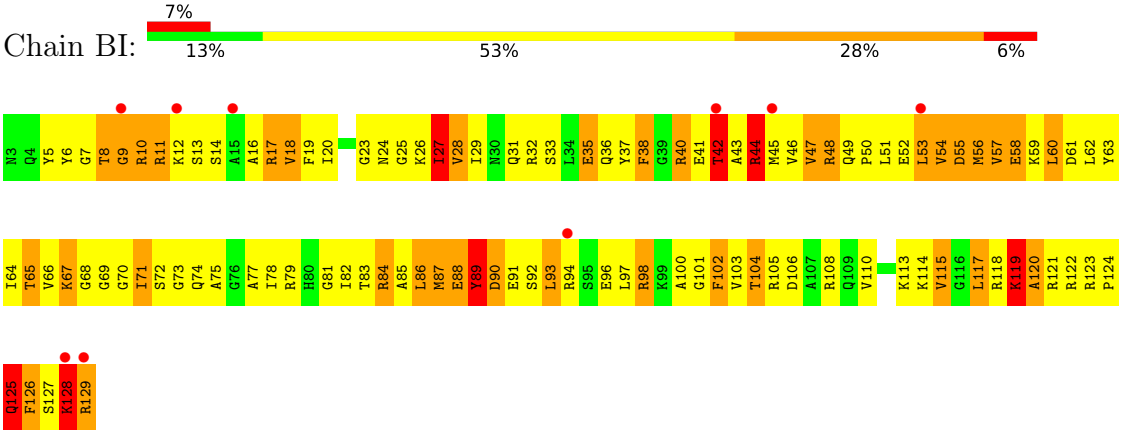


• Molecule 9: 30S ribosomal protein S9

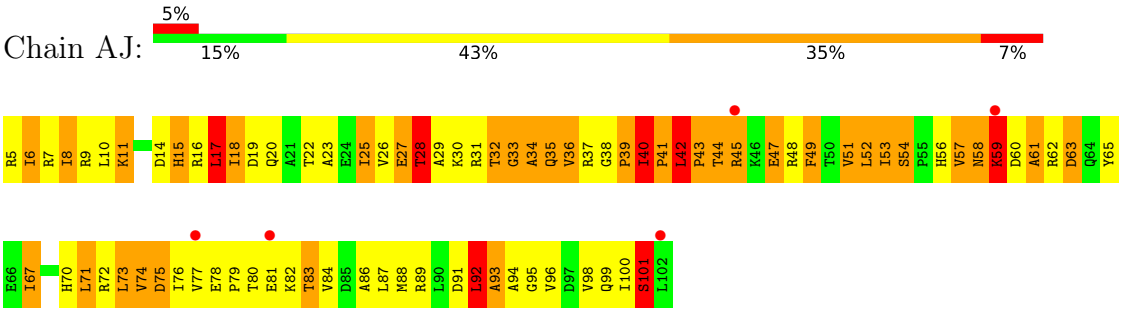




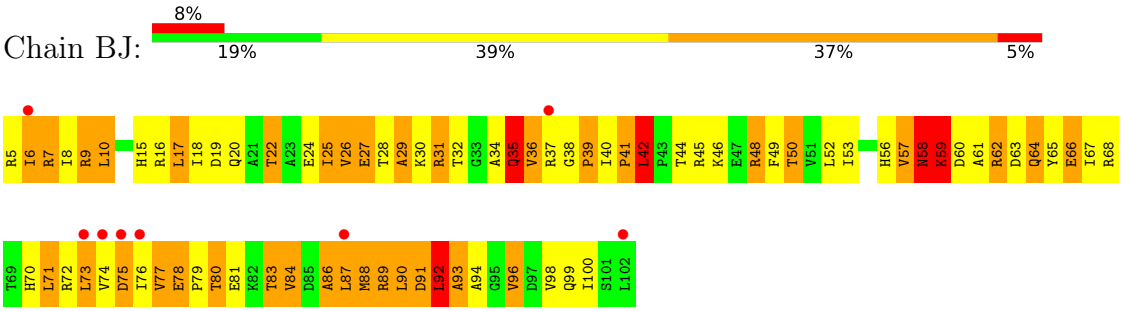
• Molecule 9: 30S ribosomal protein S9



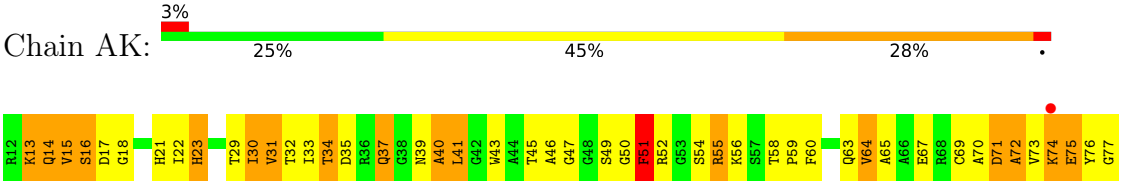
• Molecule 10: 30S ribosomal protein S10



• Molecule 10: 30S ribosomal protein S10

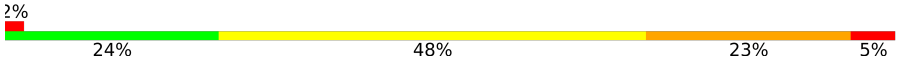


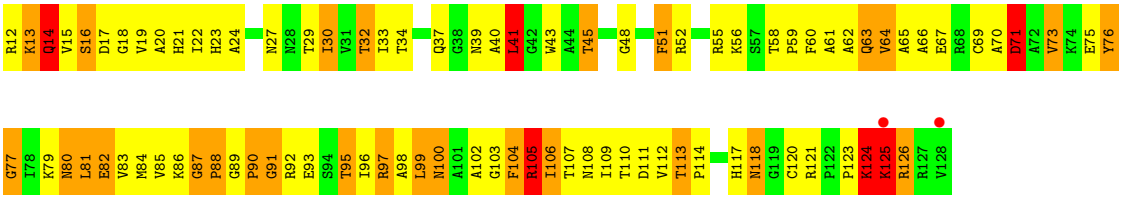
• Molecule 11: 30S ribosomal protein S11



• Molecule 11: 30S ribosomal protein S11

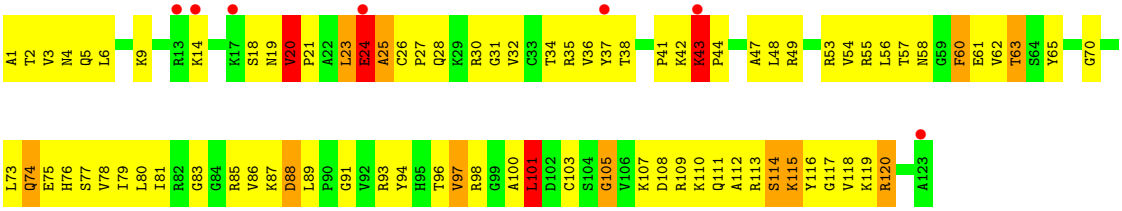
Chain BK:





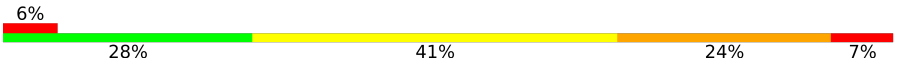
• Molecule 12: 30S ribosomal protein S12

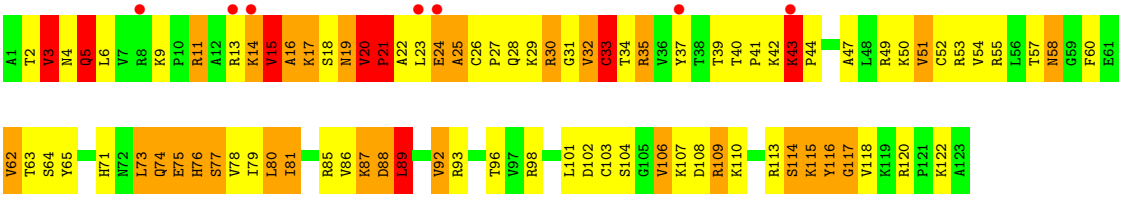
Chain AL:



• Molecule 12: 30S ribosomal protein S12

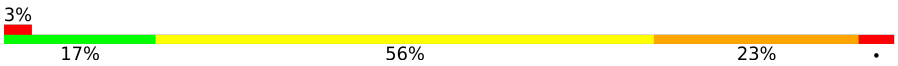
Chain BL:

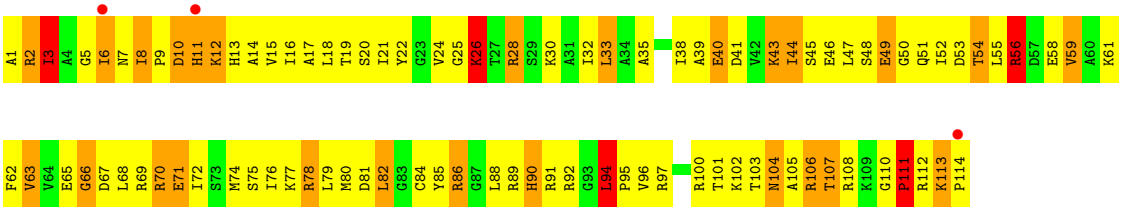




• Molecule 13: 30S ribosomal protein S13

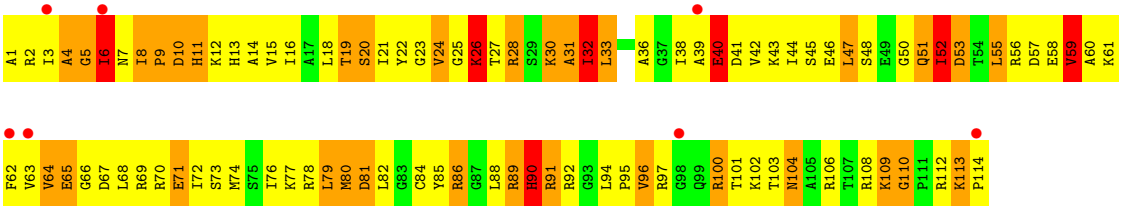
Chain AM:



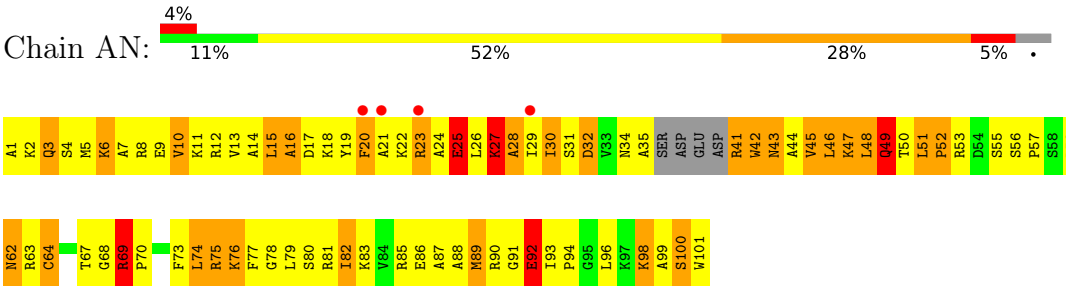


• Molecule 13: 30S ribosomal protein S13

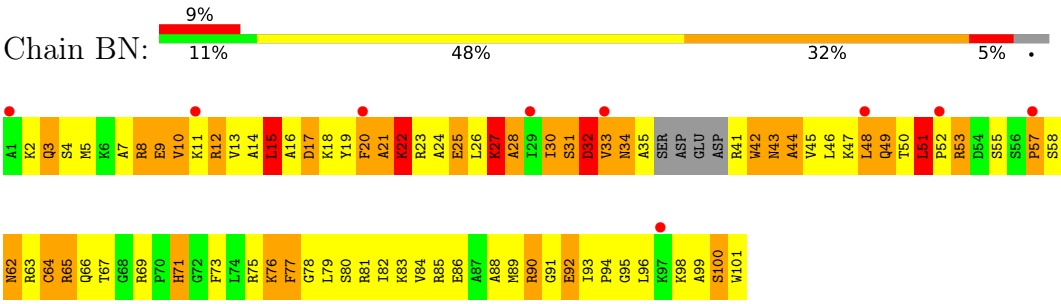
Chain BM:



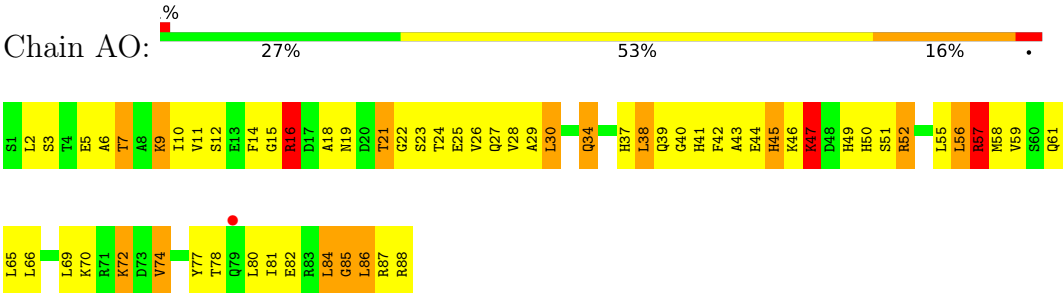
• Molecule 14: 30S ribosomal protein S14



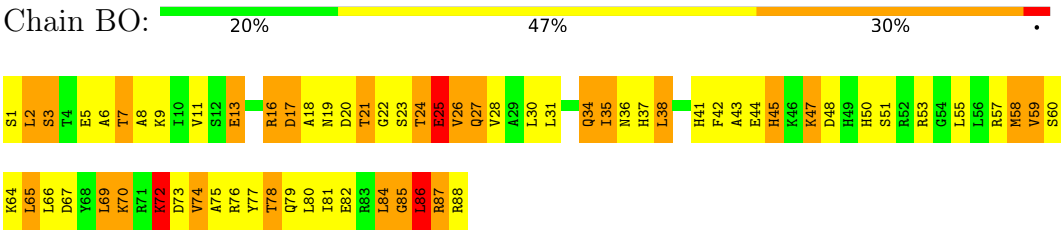
• Molecule 14: 30S ribosomal protein S14



• Molecule 15: 30S ribosomal protein S15

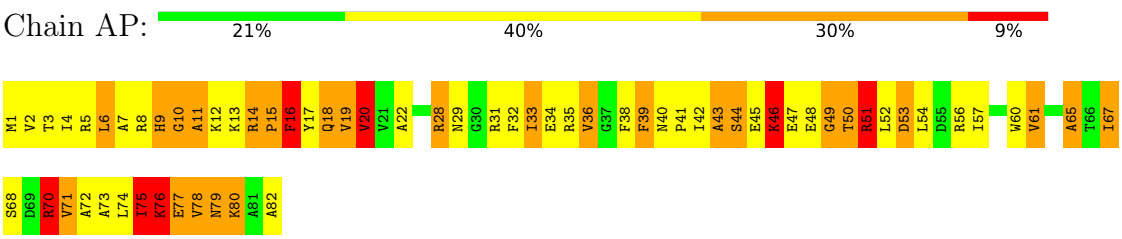


• Molecule 15: 30S ribosomal protein S15



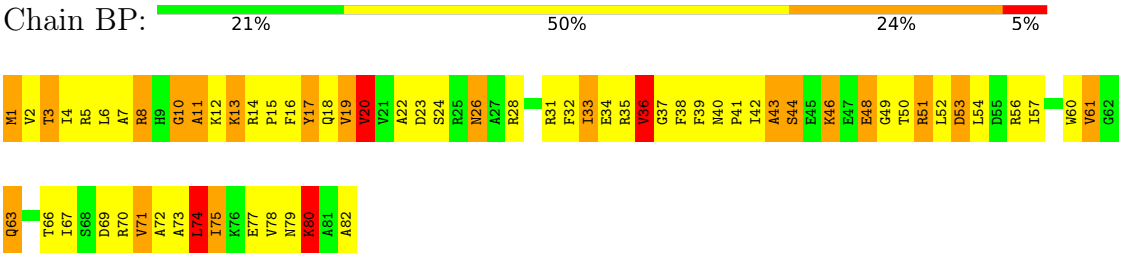
• Molecule 16: 30S ribosomal protein S16

Chain AP:



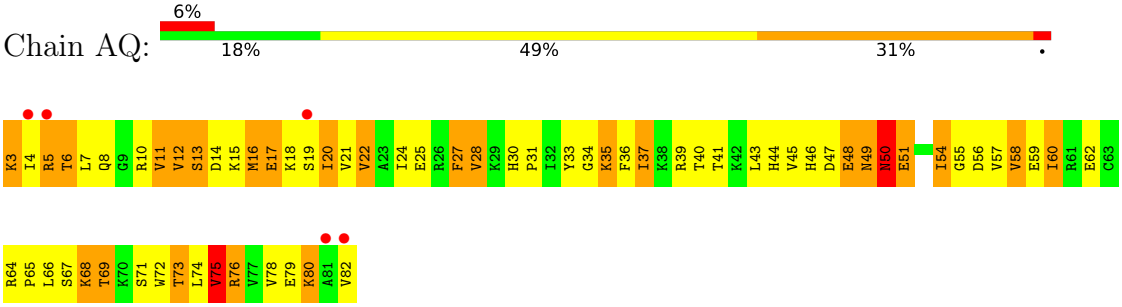
• Molecule 16: 30S ribosomal protein S16

Chain BP:



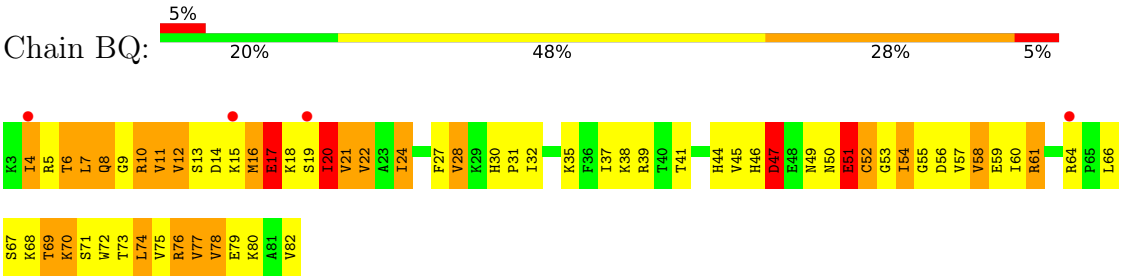
• Molecule 17: 30S ribosomal protein S17

Chain AQ:



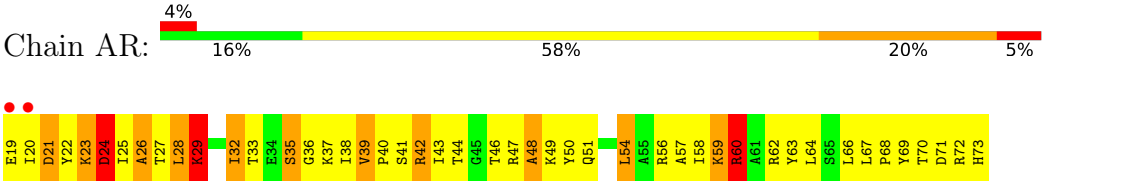
• Molecule 17: 30S ribosomal protein S17

Chain BQ:



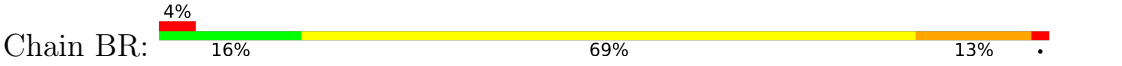
• Molecule 18: 30S ribosomal protein S18

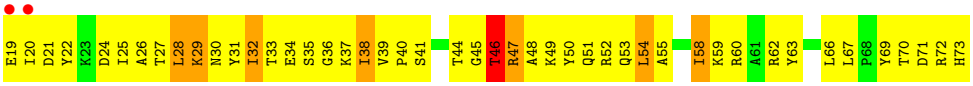
Chain AR:



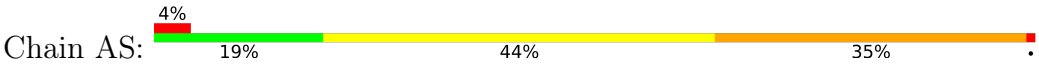
• Molecule 18: 30S ribosomal protein S18

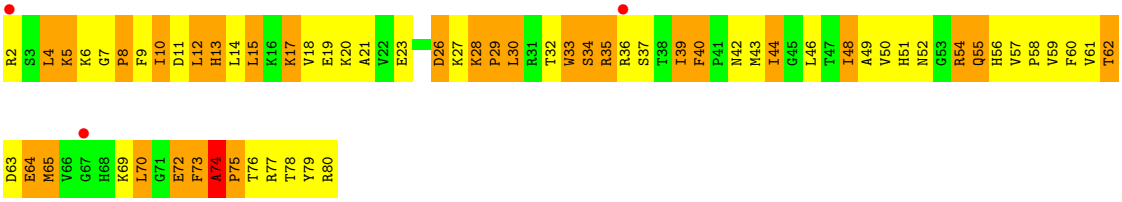
Chain BR:



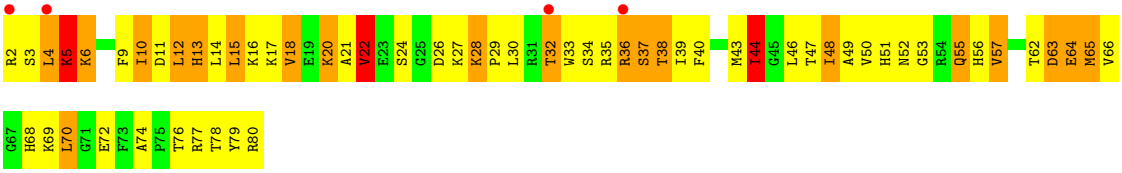


• Molecule 19: 30S ribosomal protein S19

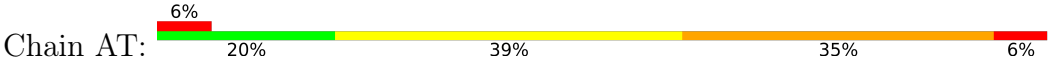


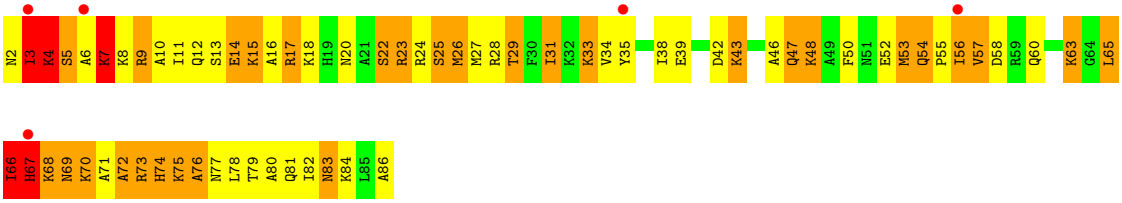


• Molecule 19: 30S ribosomal protein S19

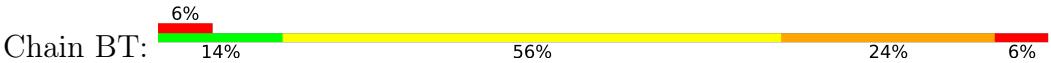


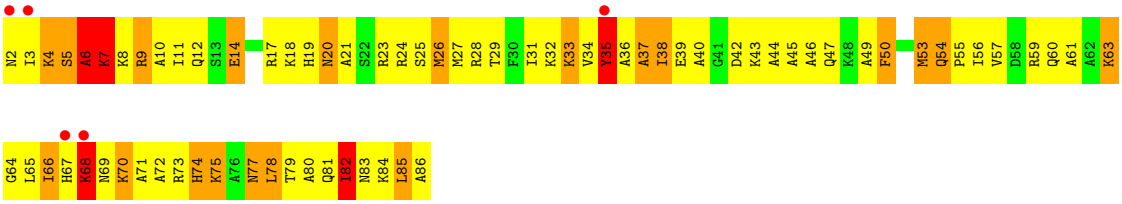
• Molecule 20: 30S ribosomal protein S20



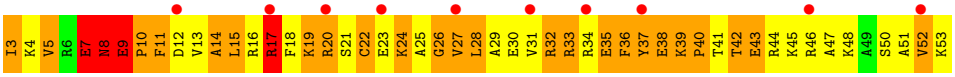


• Molecule 20: 30S ribosomal protein S20

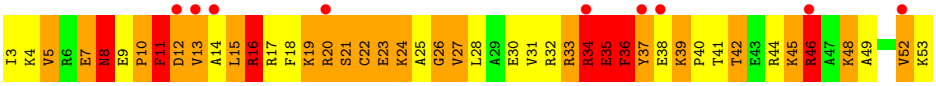




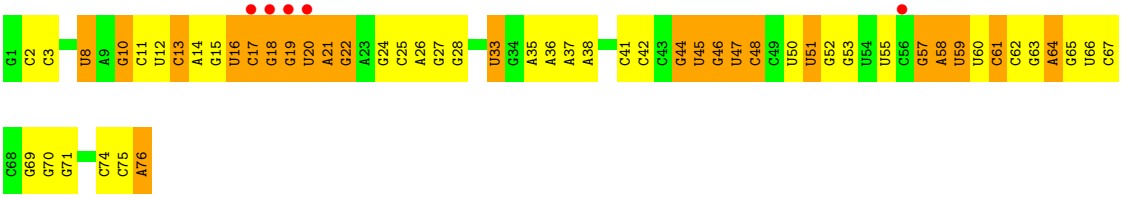
• Molecule 21: 30S ribosomal protein S21



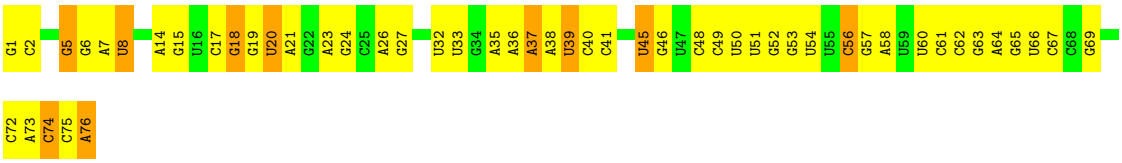
• Molecule 21: 30S ribosomal protein S21



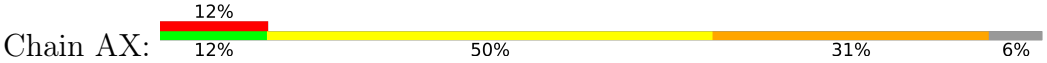
• Molecule 22: phenylalanine specific transfer RNA

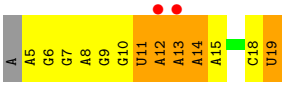


• Molecule 22: phenylalanine specific transfer RNA

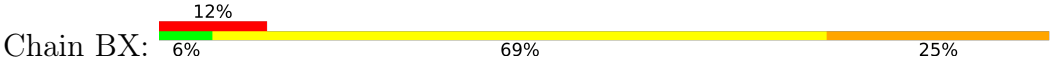


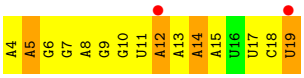
• Molecule 23: messenger RNA



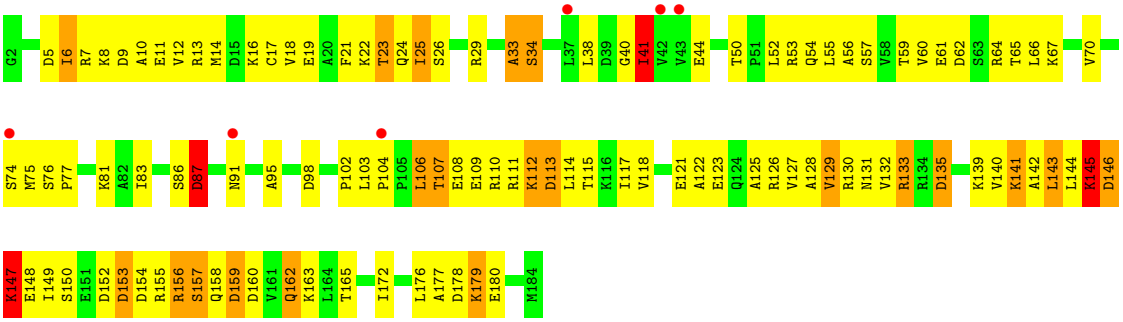


• Molecule 23: messenger RNA



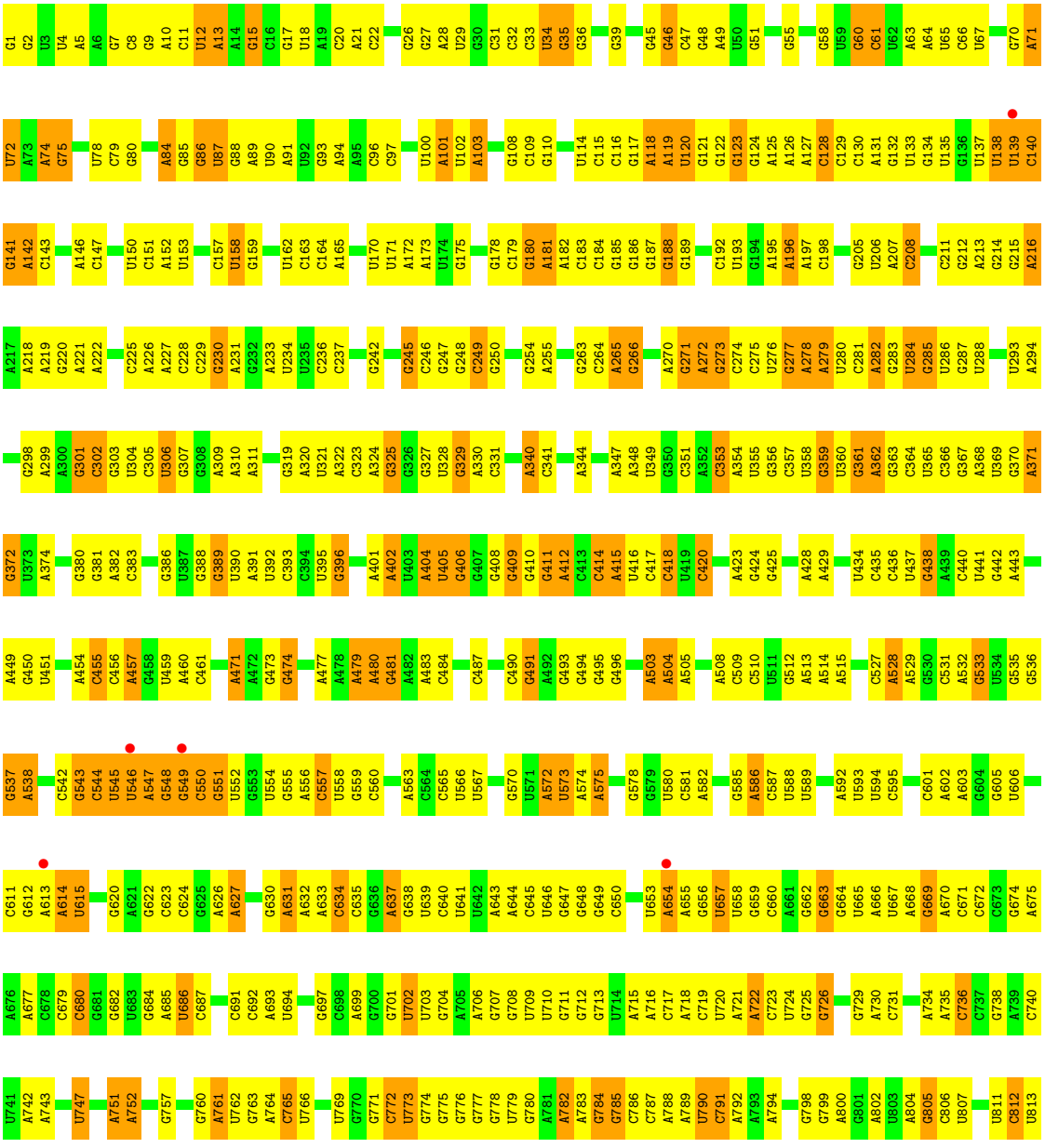


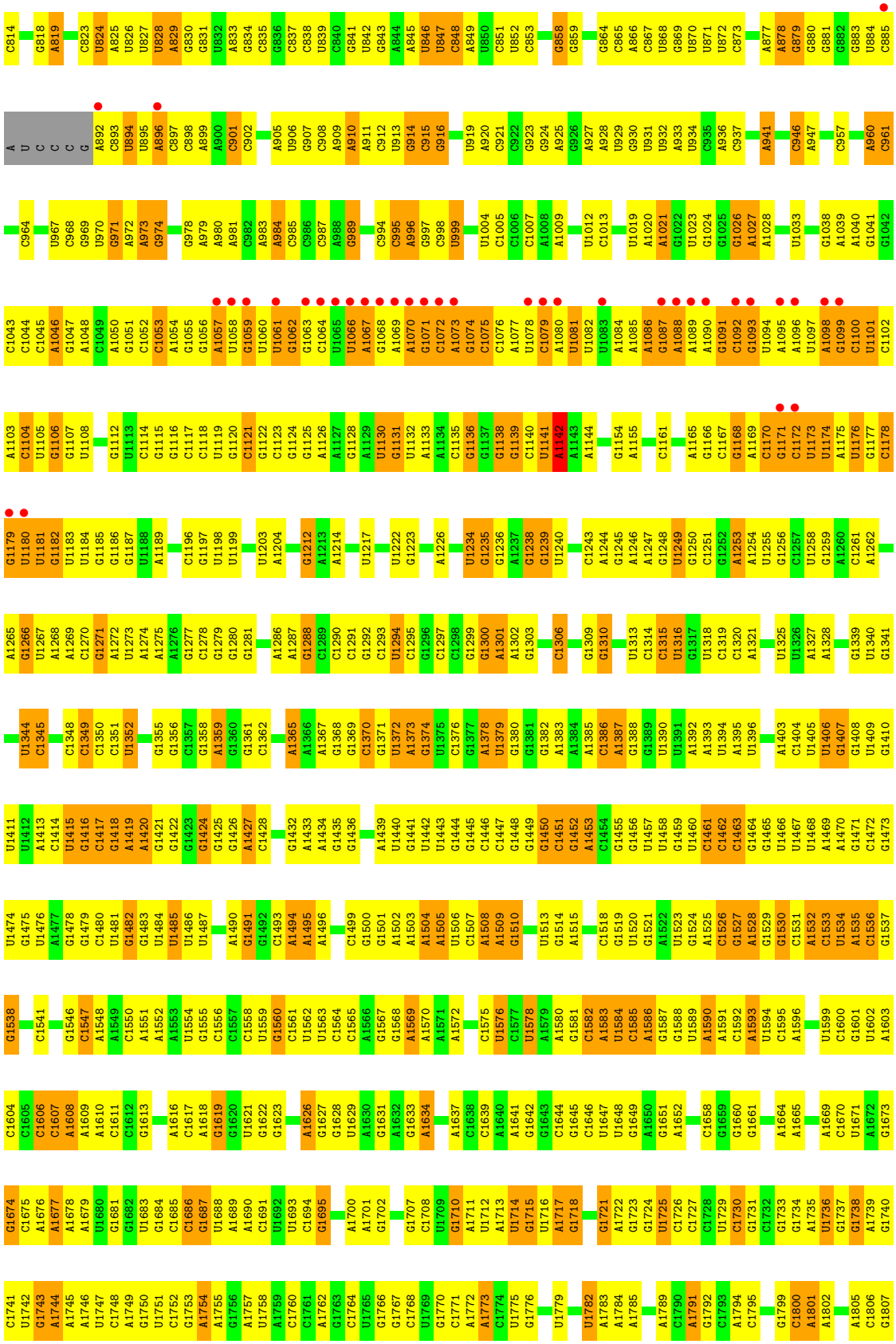
• Molecule 24: ribosome recycling factor

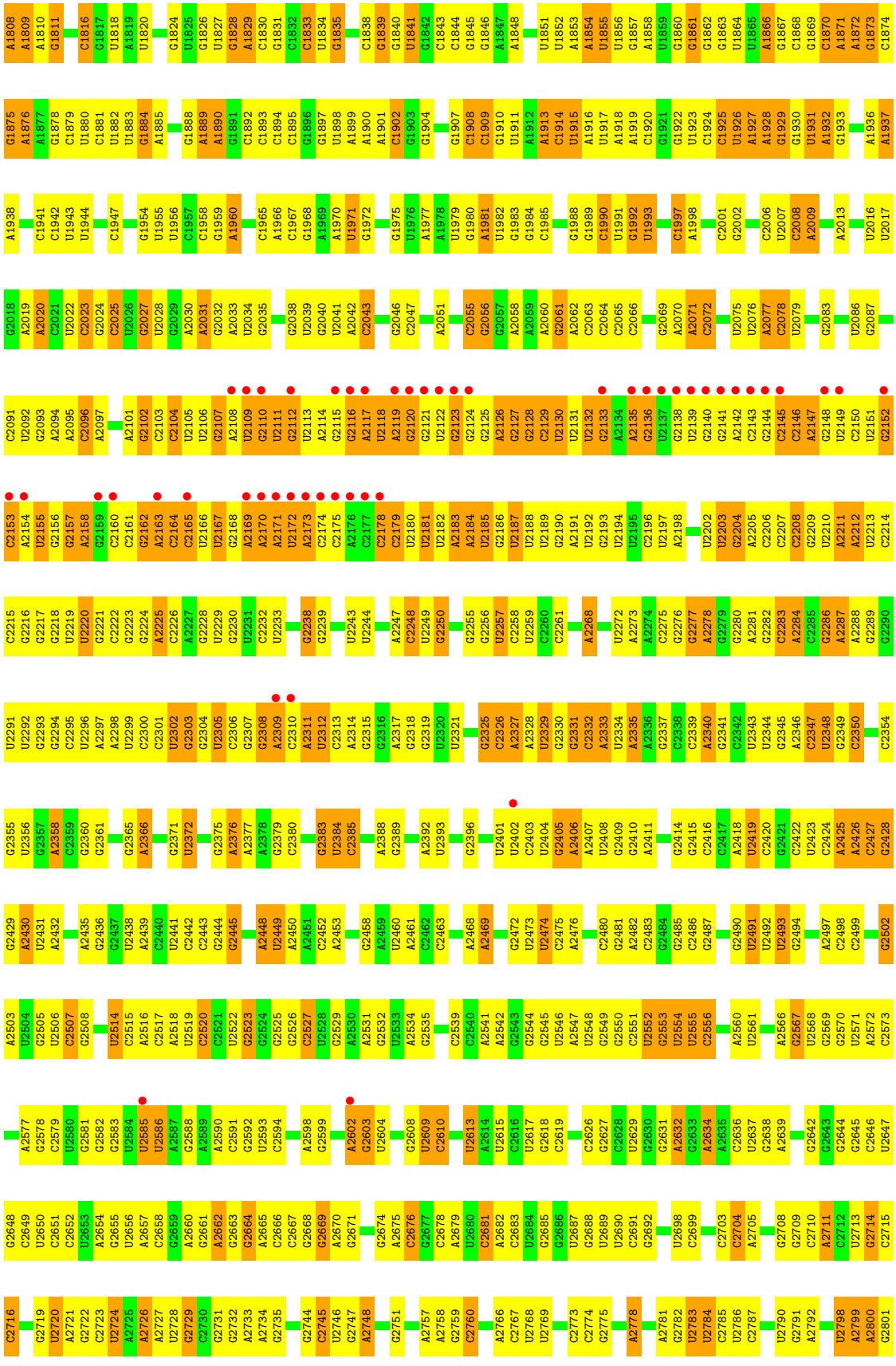


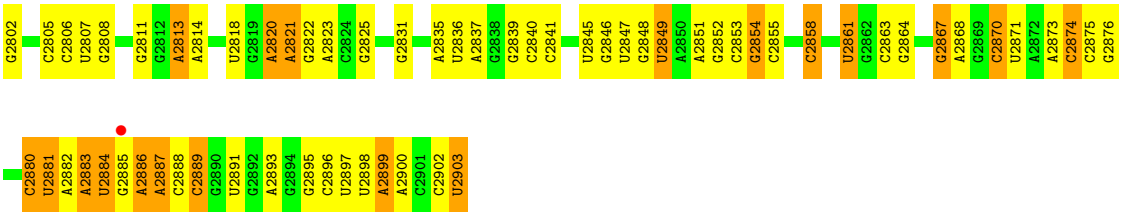
• Molecule 25: 23S rRNA

Chain CA:



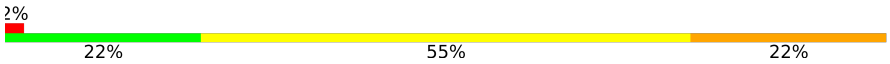


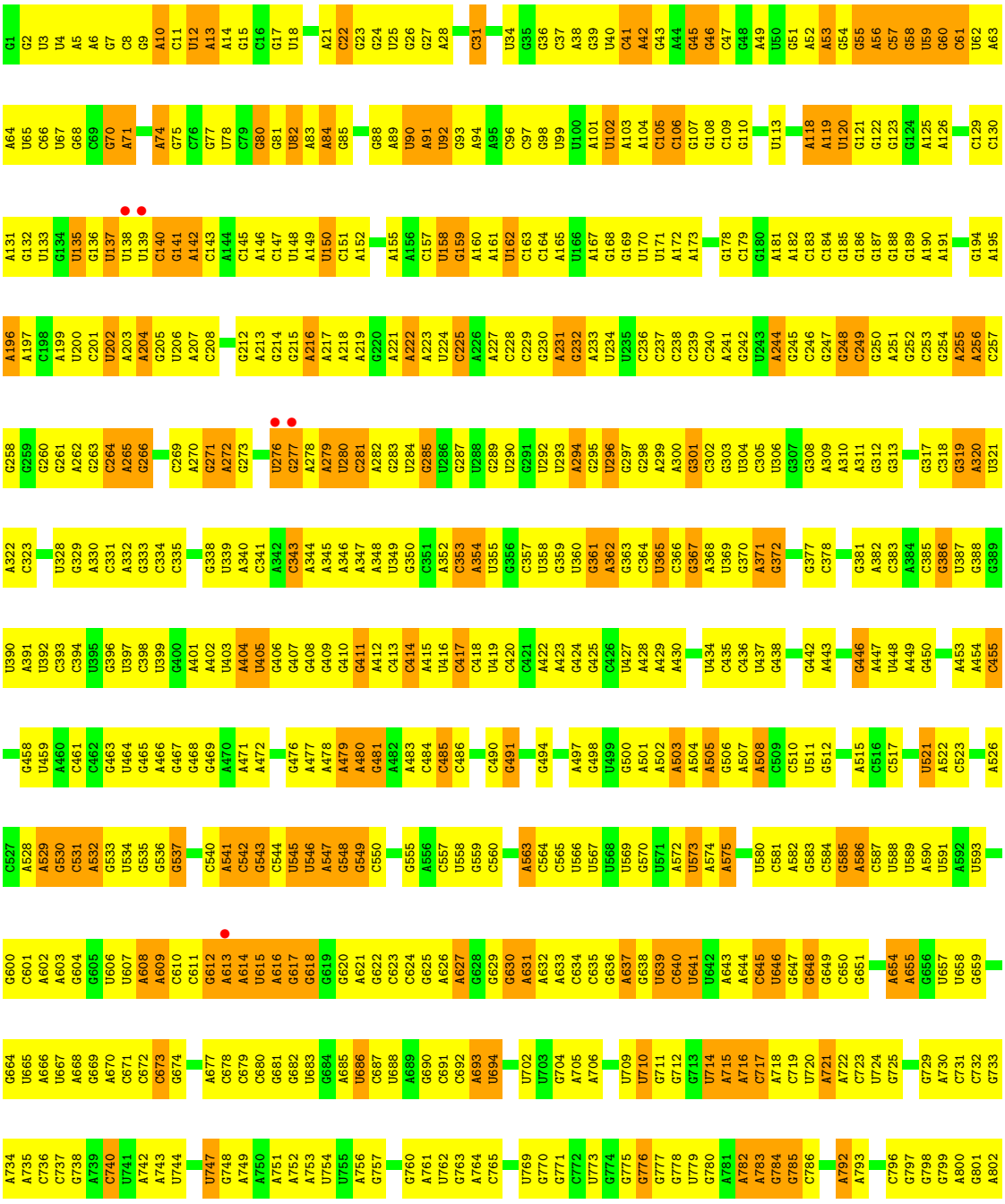


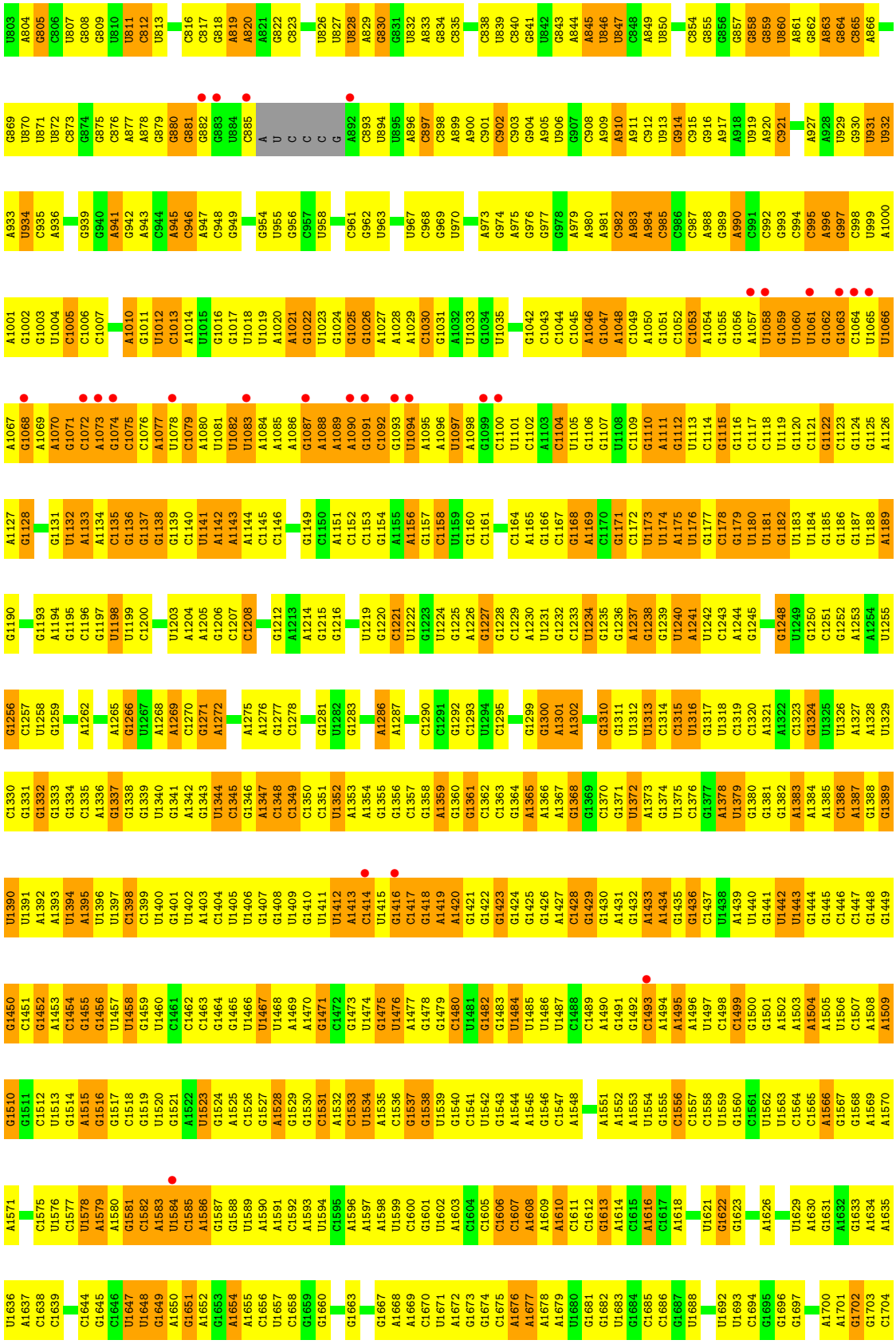


• Molecule 25: 23S rRNA

Chain DA:



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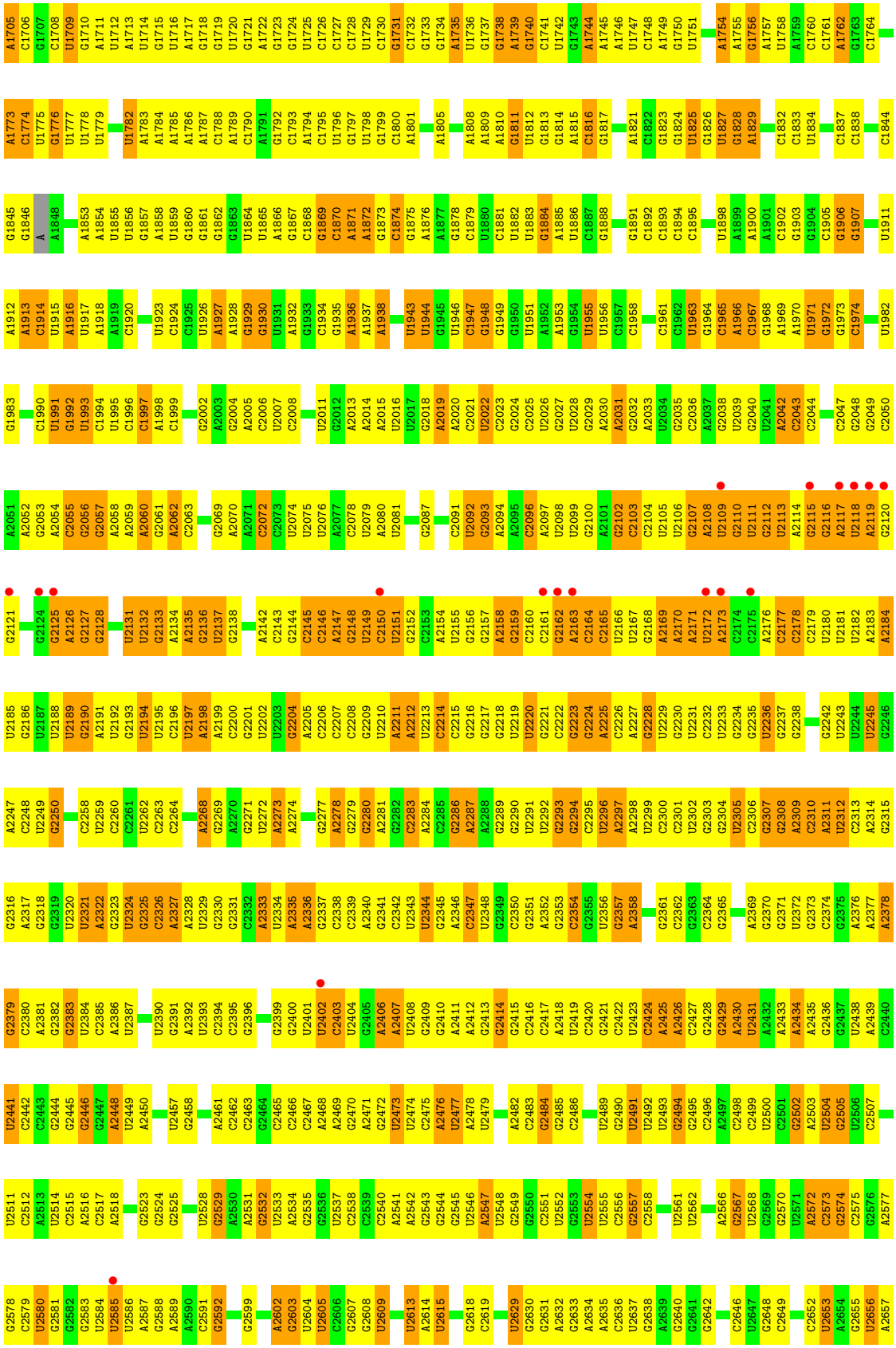
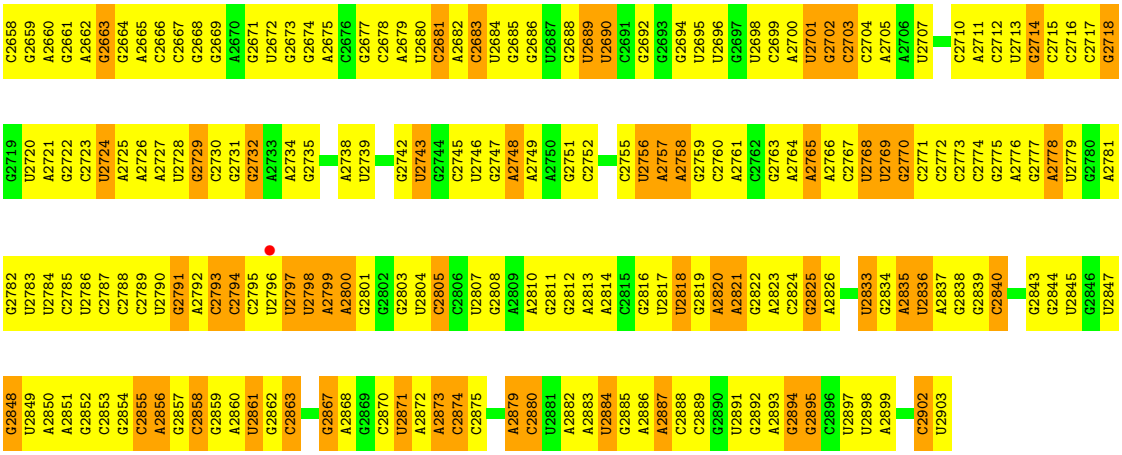
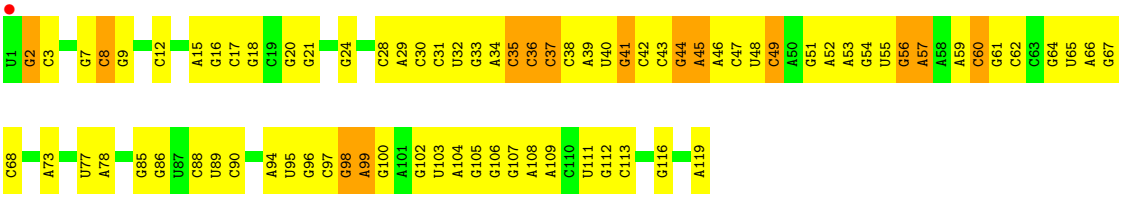




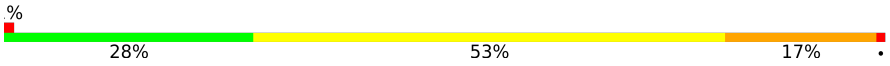
• Molecule 26: 5S rRNA

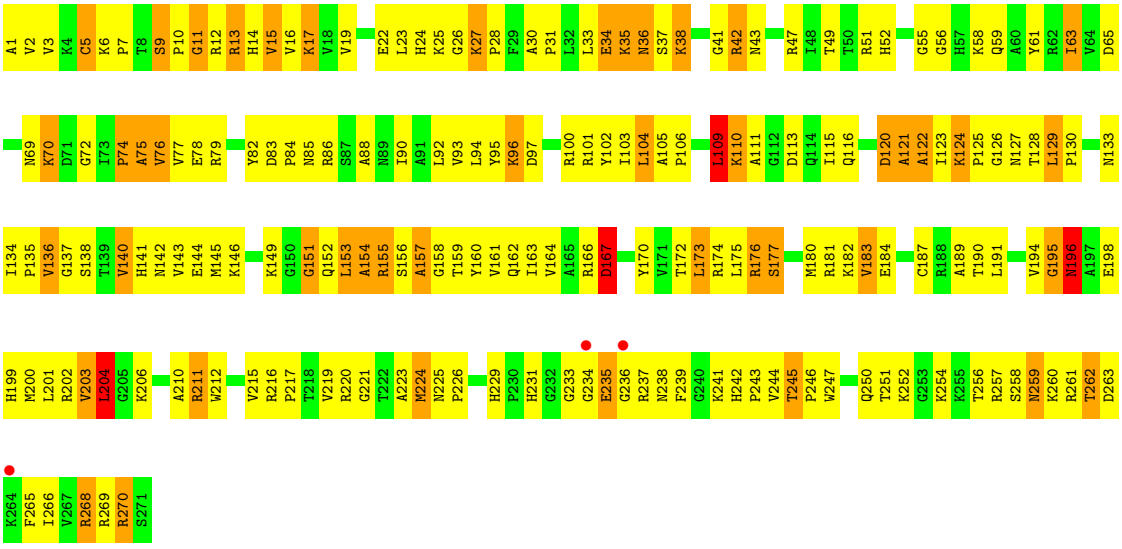
Chain CB:



• Molecule 27: 50S ribosomal protein L2

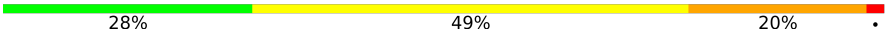
Chain CC:

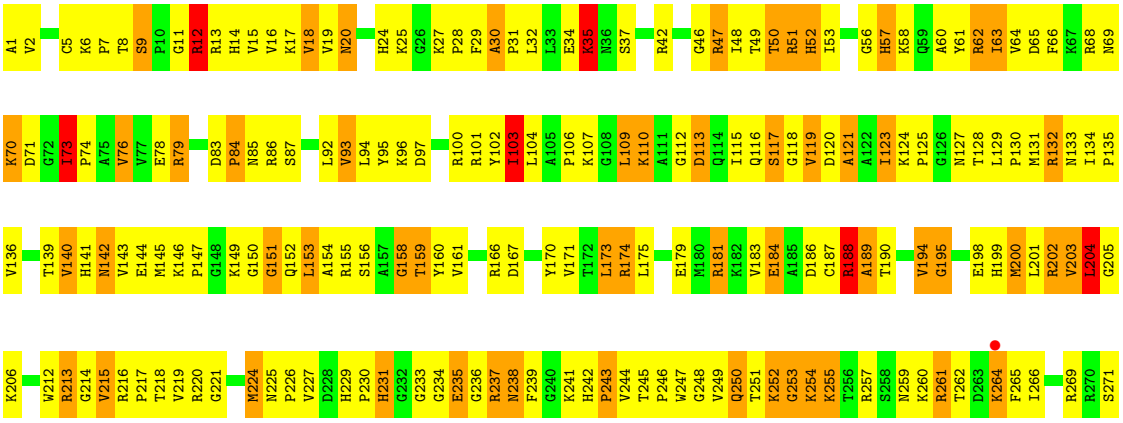




• Molecule 27: 50S ribosomal protein L2

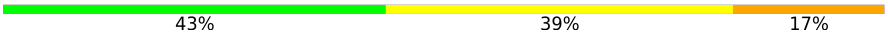
Chain DC:

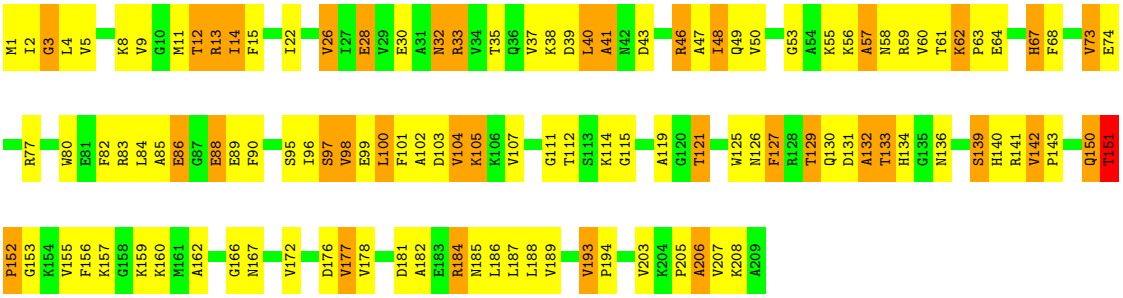




• Molecule 28: 50S ribosomal protein L3

Chain CD:



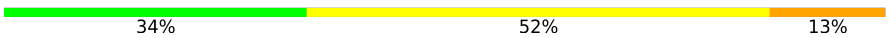


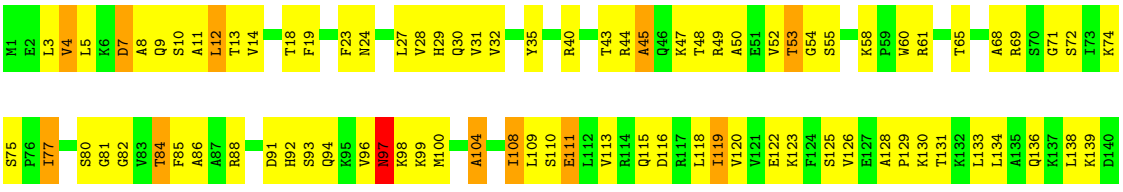
• Molecule 28: 50S ribosomal protein L3

Chain DD:

• Molecule 29: 50S ribosomal protein L4

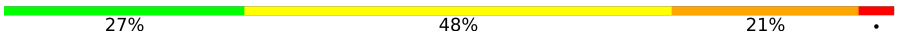
Chain CE:

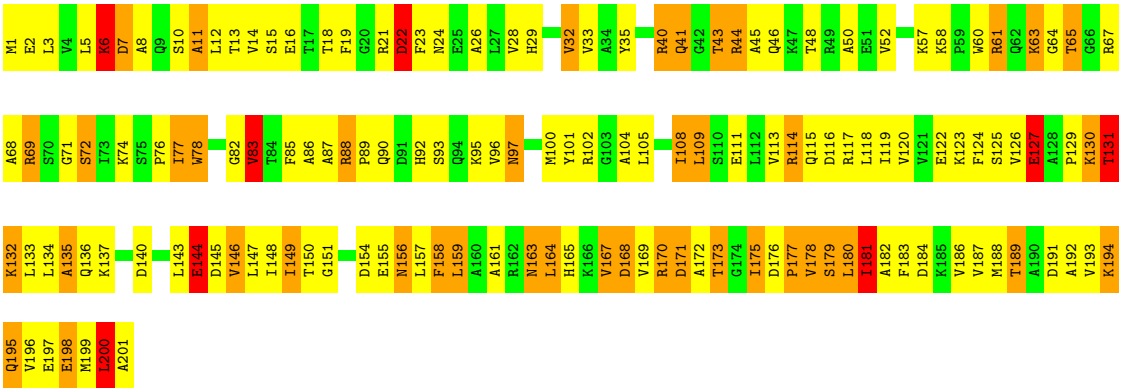




• Molecule 29: 50S ribosomal protein L4

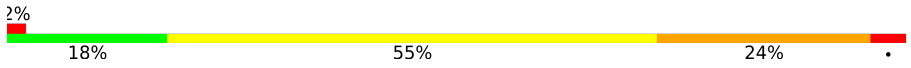
Chain DE:

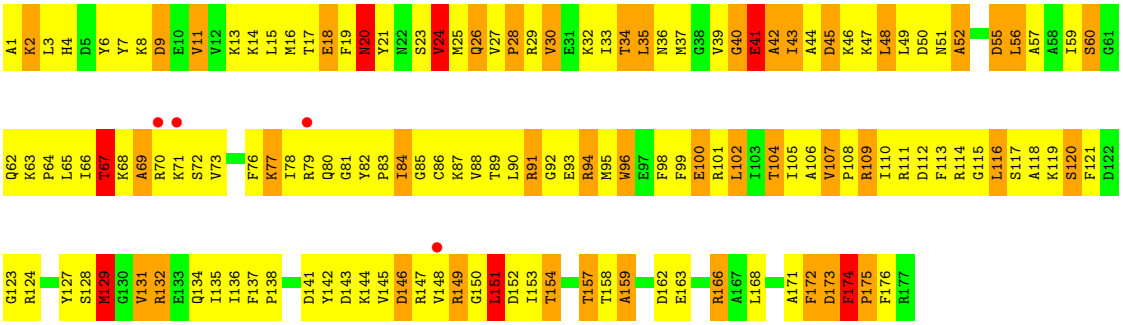




• Molecule 30: 50S ribosomal protein L5

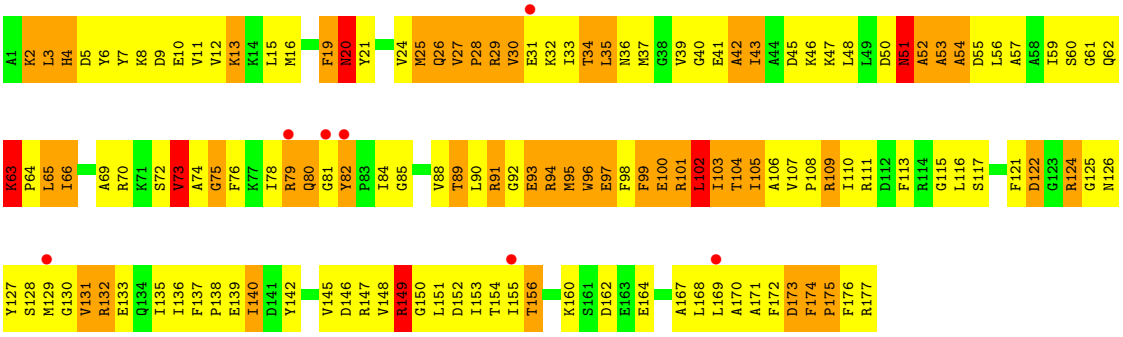
Chain CF:





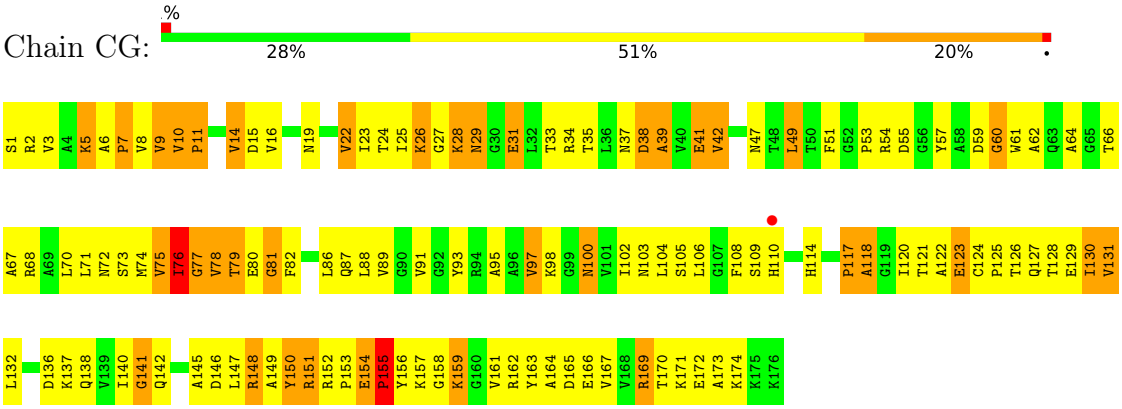
• Molecule 30: 50S ribosomal protein L5

Chain DF:



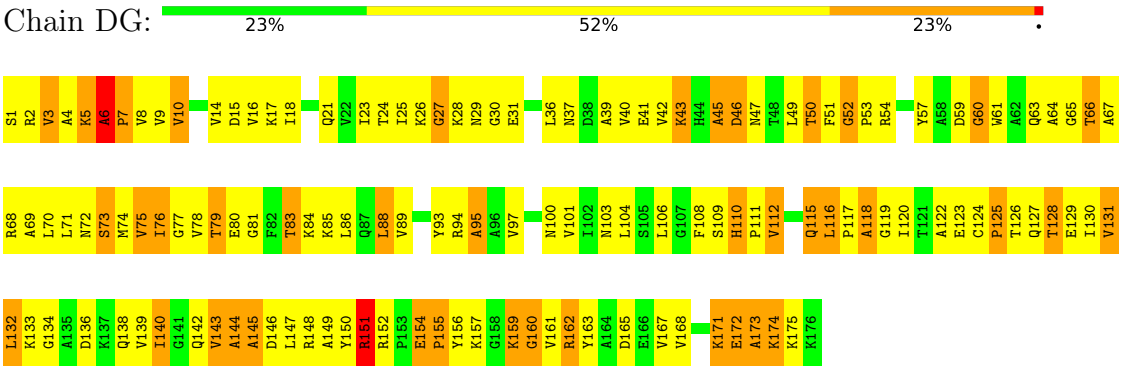
• Molecule 31: 50S ribosomal protein L6

Chain CG:



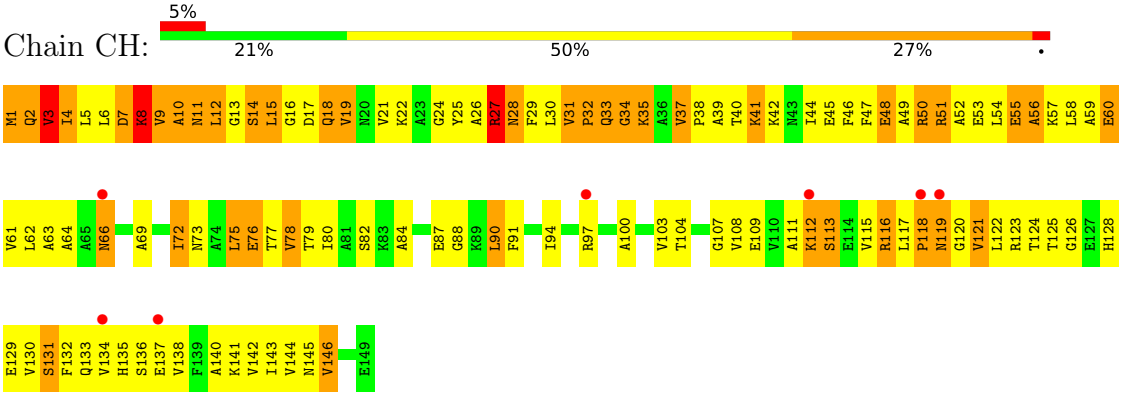
• Molecule 31: 50S ribosomal protein L6

Chain DG:



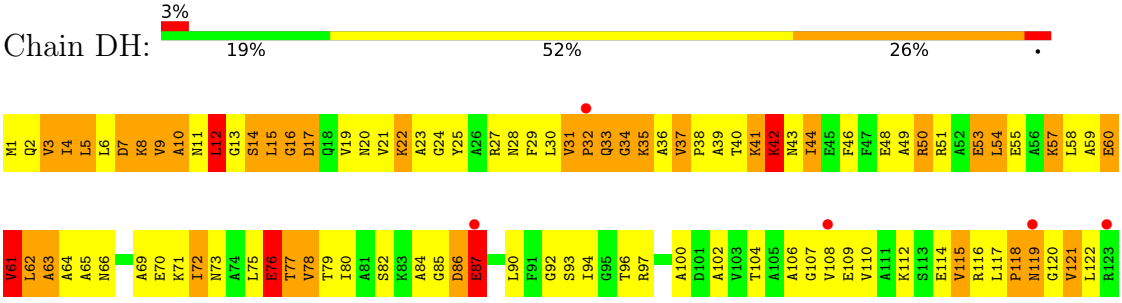
• Molecule 32: 50S ribosomal protein L9

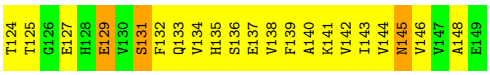
Chain CH:



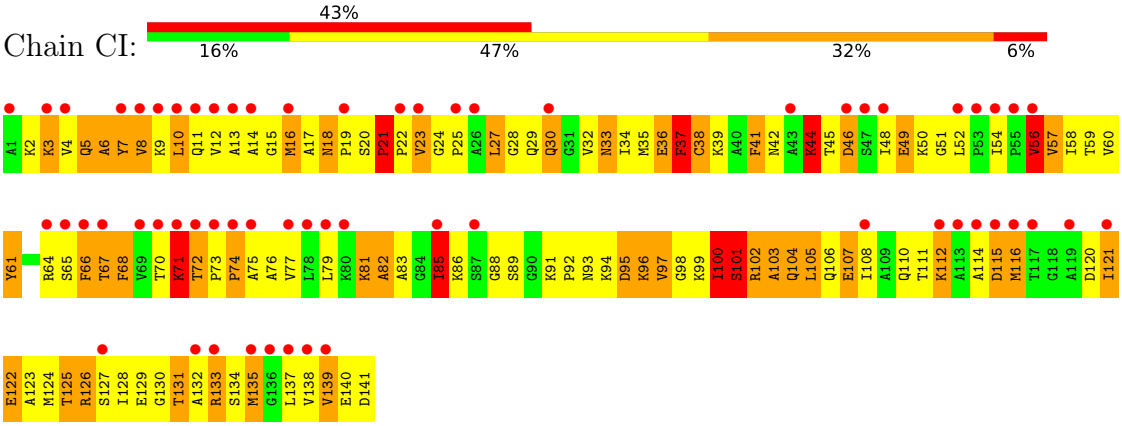
• Molecule 32: 50S ribosomal protein L9

Chain DH:

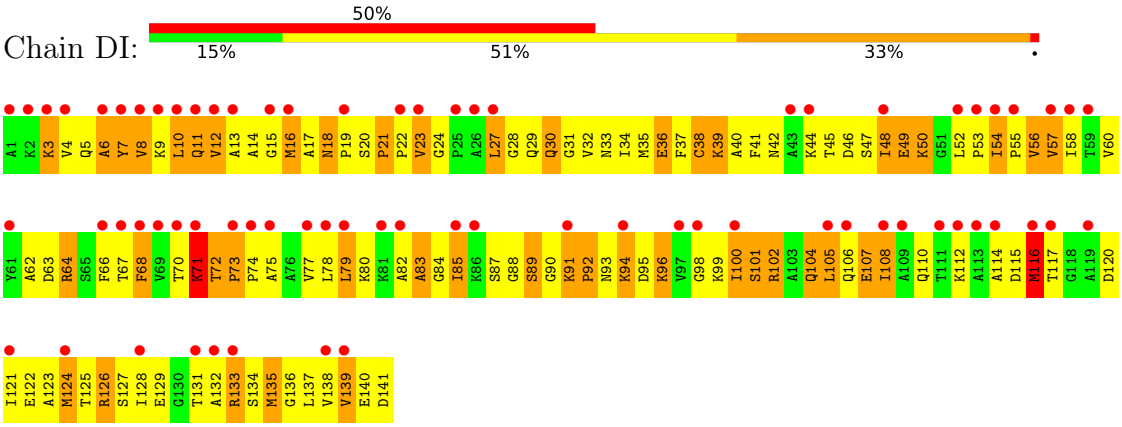




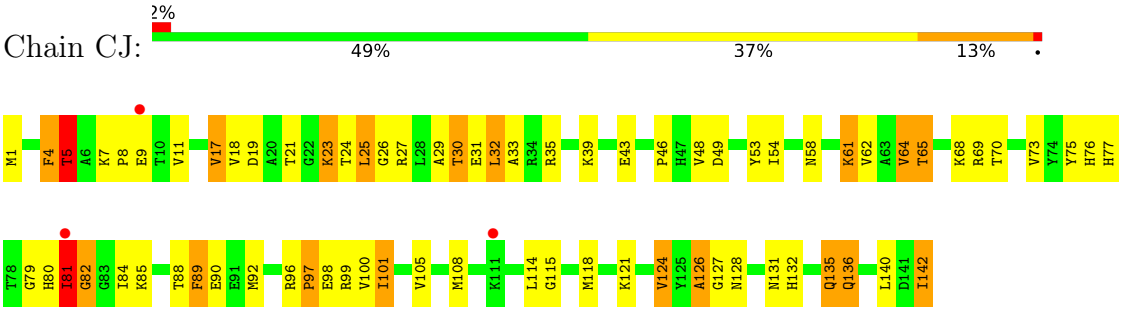
• Molecule 33: 50S ribosomal protein L11



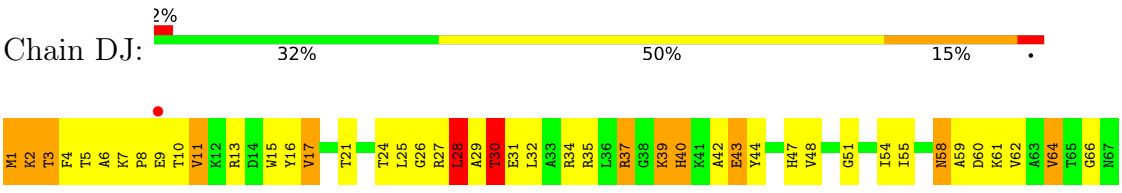
• Molecule 33: 50S ribosomal protein L11

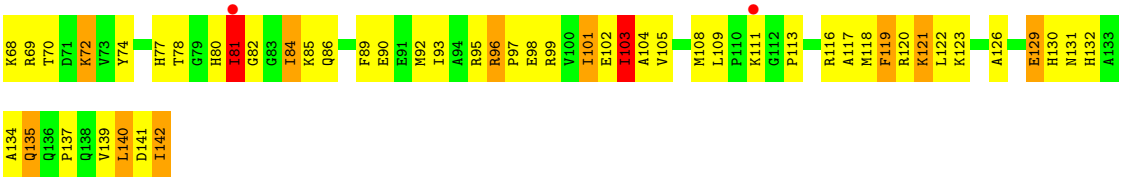


• Molecule 34: 50S ribosomal protein L13

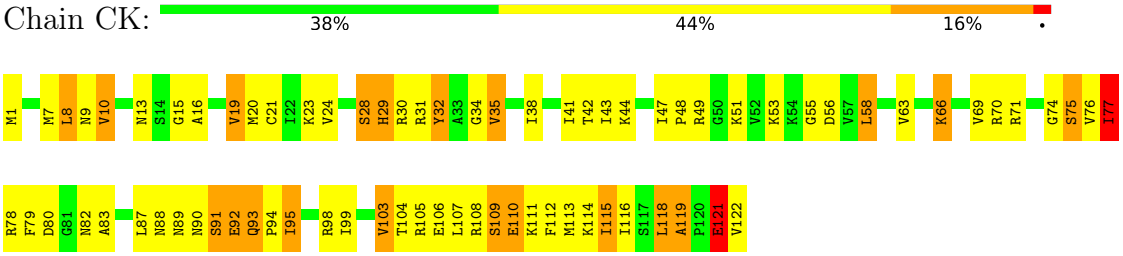


• Molecule 34: 50S ribosomal protein L13

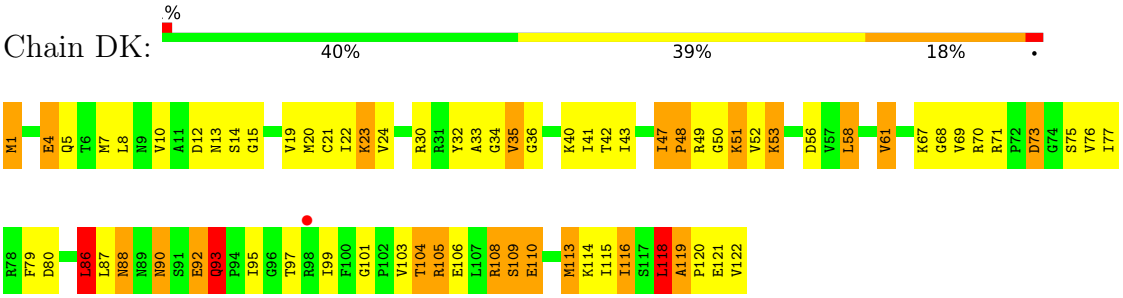




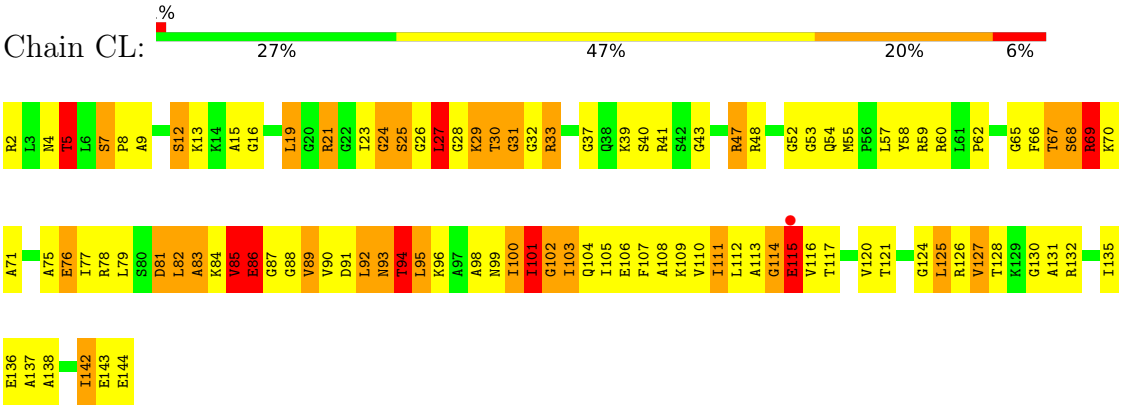
• Molecule 35: 50S ribosomal protein L14



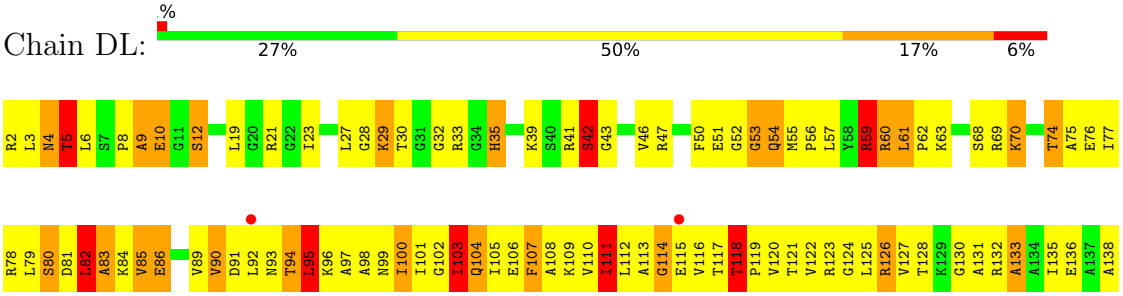
• Molecule 35: 50S ribosomal protein L14

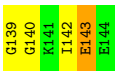


• Molecule 36: 50S ribosomal protein L15



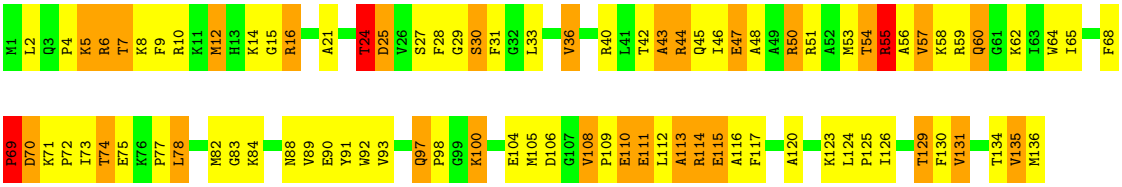
• Molecule 36: 50S ribosomal protein L15





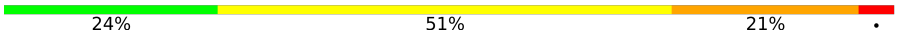
• Molecule 37: 50S ribosomal protein L16

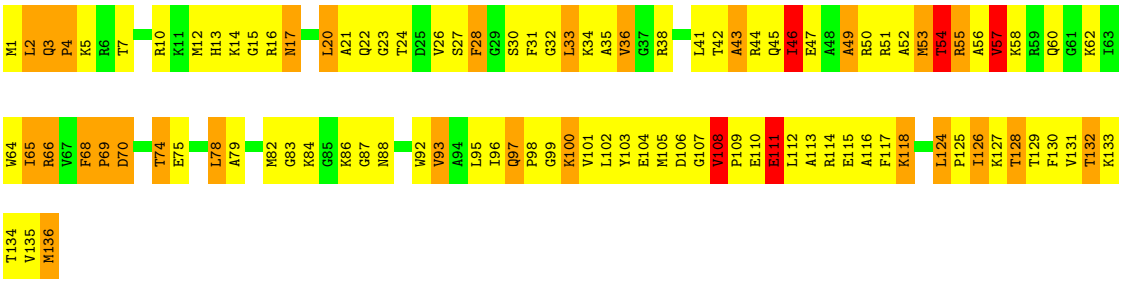
Chain CM:



• Molecule 37: 50S ribosomal protein L16

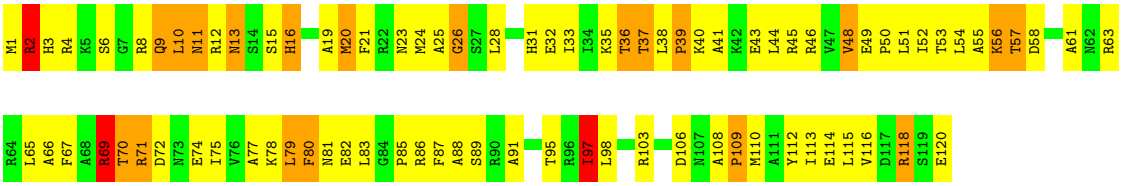
Chain DM:





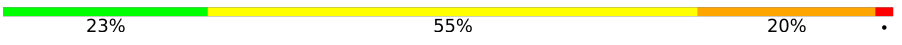
• Molecule 38: 50S ribosomal protein L17

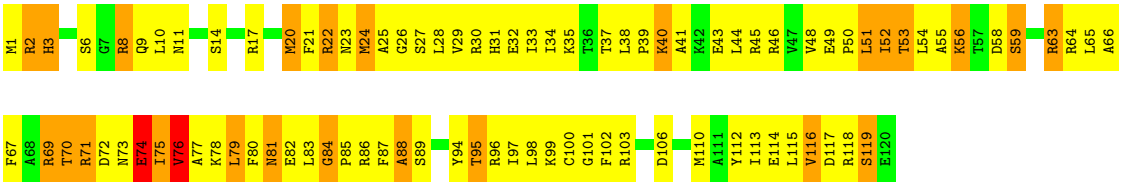
Chain CN:



• Molecule 38: 50S ribosomal protein L17

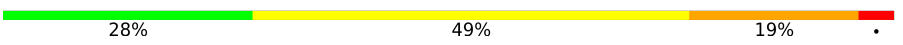
Chain DN:





• Molecule 39: 50S ribosomal protein L18

Chain CO:

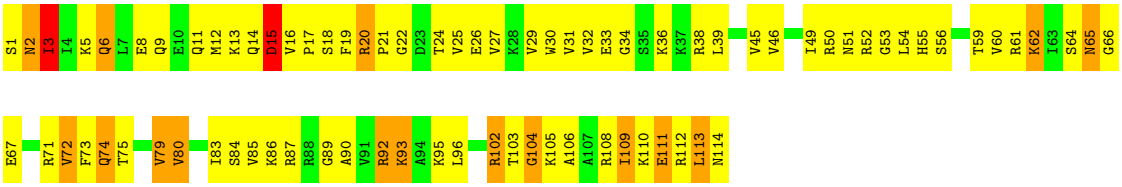


• Molecule 39: 50S ribosomal protein L18

Chain DO: 2% 21% 53% 24%

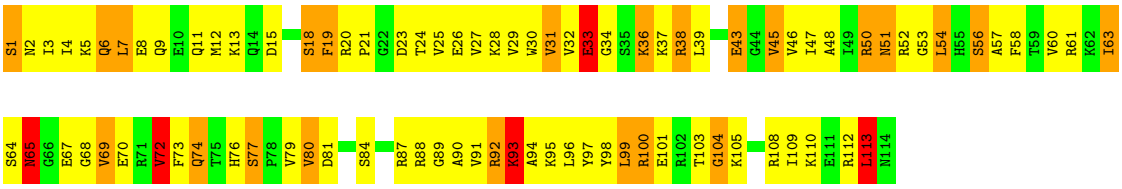
• Molecule 40: 50S ribosomal protein L19

Chain CP: 30% 54% 14%



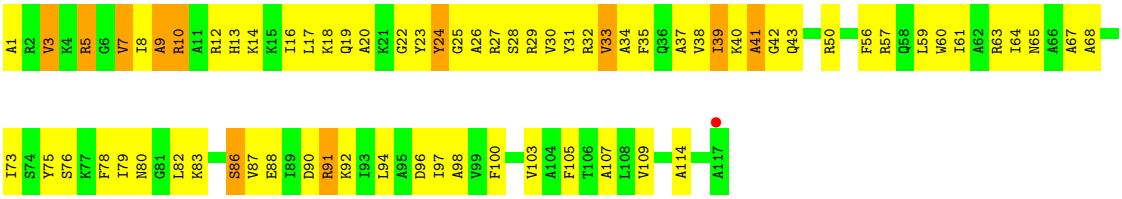
• Molecule 40: 50S ribosomal protein L19

Chain DP: 24% 52% 20%



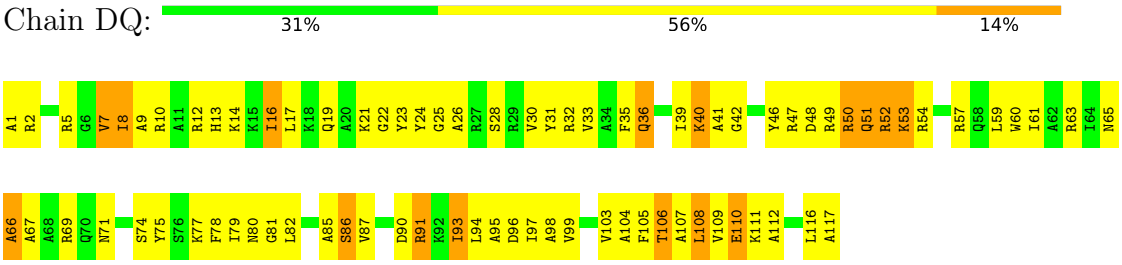
• Molecule 41: 50S ribosomal protein L20

Chain CQ: 39% 51% 9%



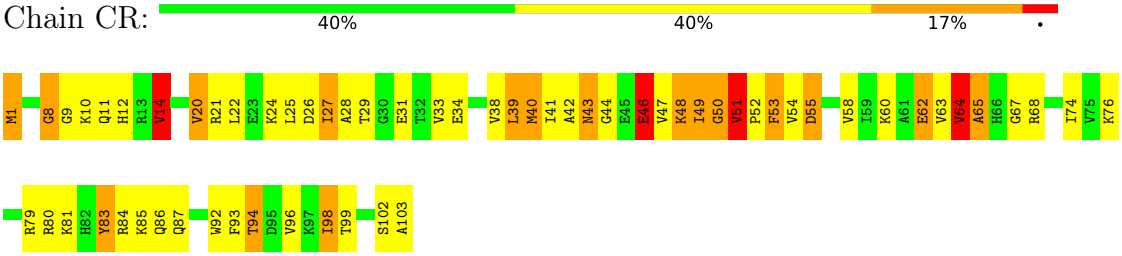
• Molecule 41: 50S ribosomal protein L20

Chain DQ:



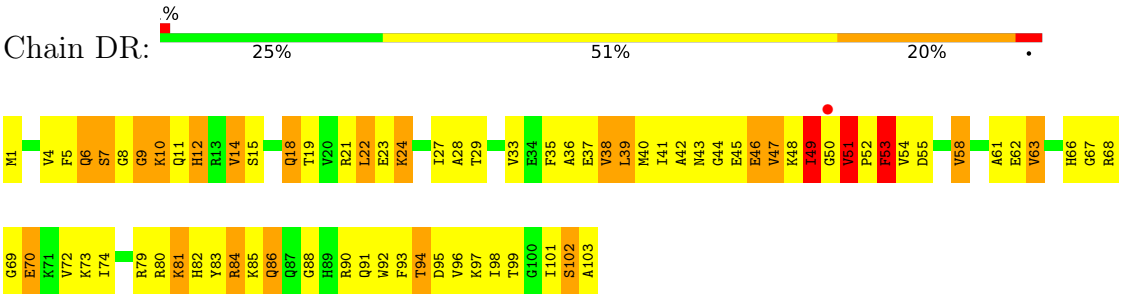
• Molecule 42: 50S ribosomal protein L21

Chain CR:



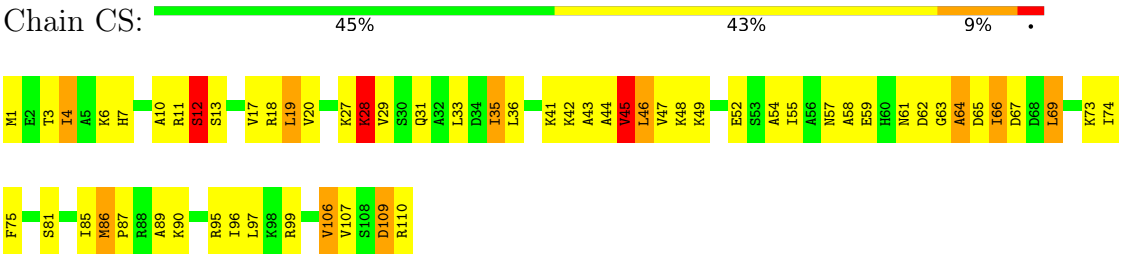
• Molecule 42: 50S ribosomal protein L21

Chain DR:



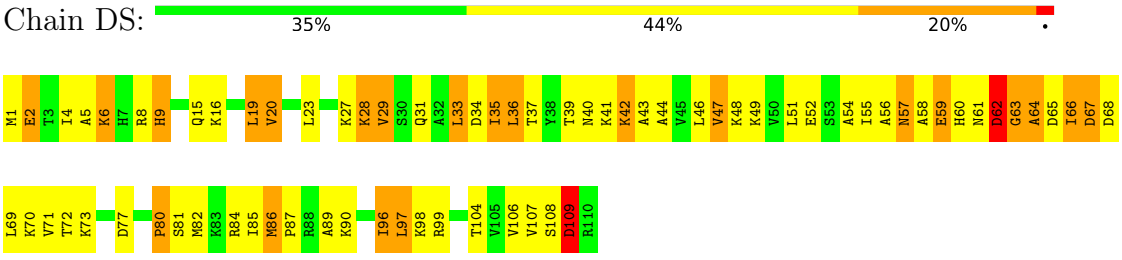
• Molecule 43: 50S ribosomal protein L22

Chain CS:



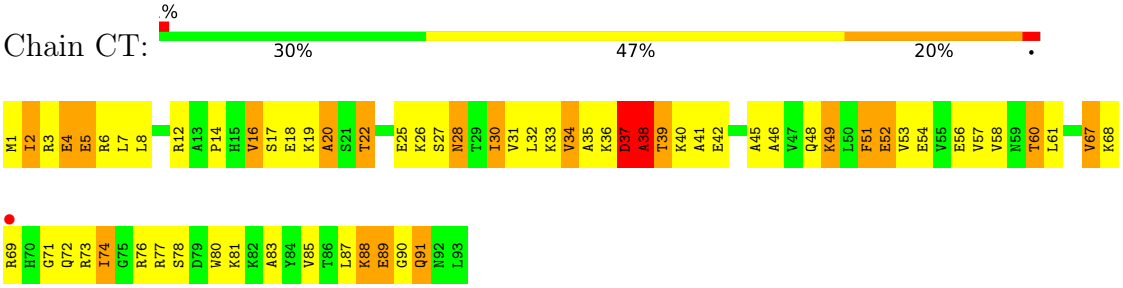
• Molecule 43: 50S ribosomal protein L22

Chain DS:



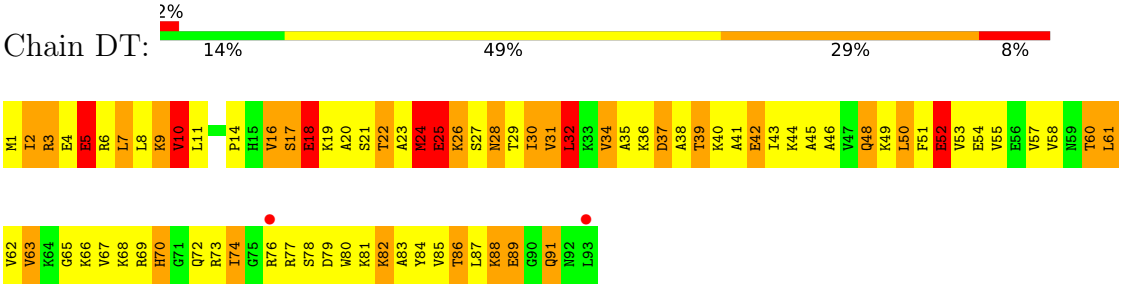
• Molecule 44: 50S ribosomal protein L23

Chain CT:



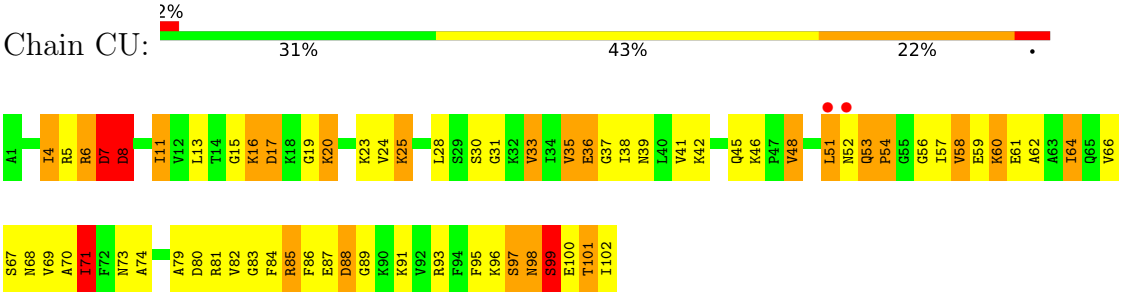
• Molecule 44: 50S ribosomal protein L23

Chain DT:



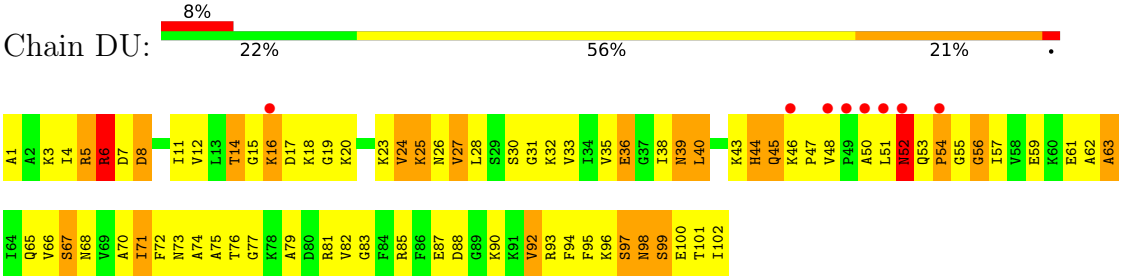
• Molecule 45: 50S ribosomal protein L24

Chain CU:



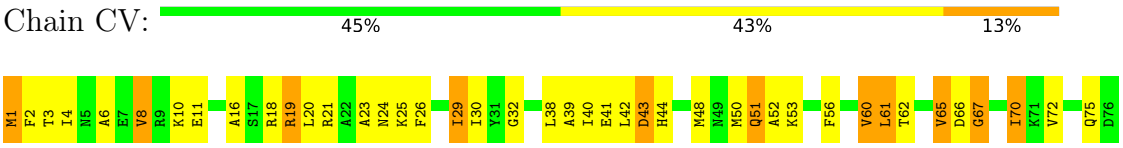
• Molecule 45: 50S ribosomal protein L24

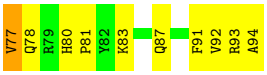
Chain DU:



• Molecule 46: 50S ribosomal protein L25

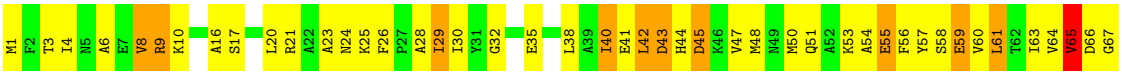
Chain CV:

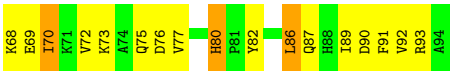




• Molecule 46: 50S ribosomal protein L25

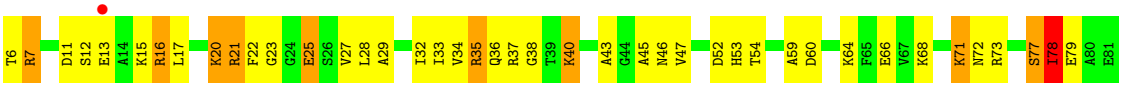
Chain DV:





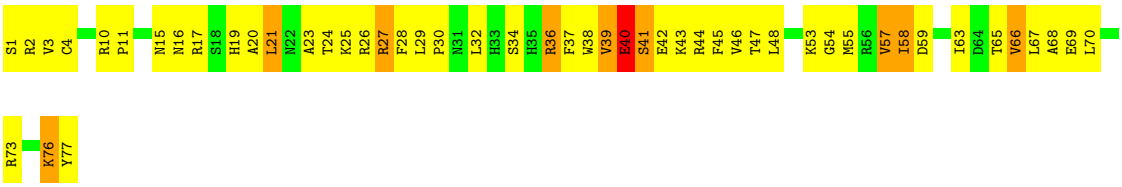
• Molecule 47: 50S ribosomal protein L27

Chain CW:



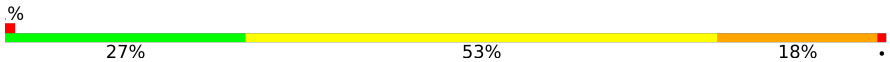
• Molecule 48: 50S ribosomal protein L28

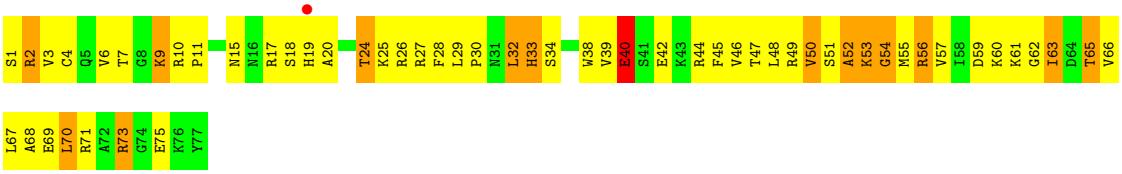
Chain CX:



• Molecule 48: 50S ribosomal protein L28

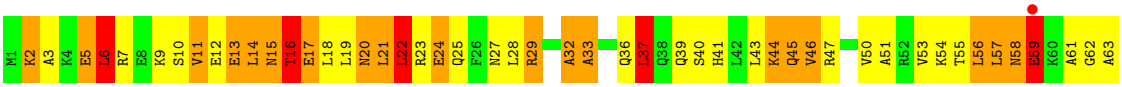
Chain DX:





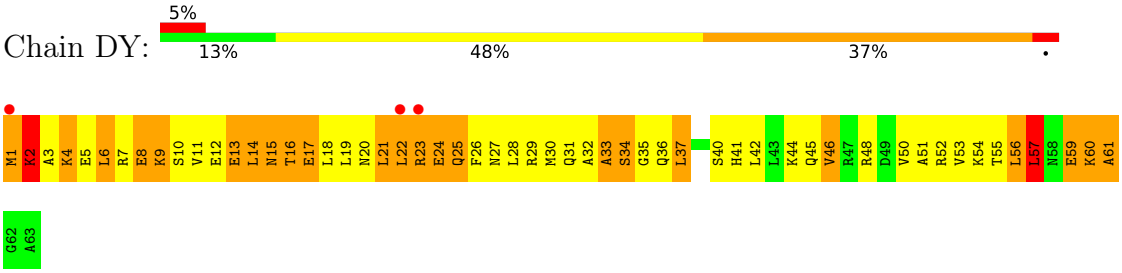
• Molecule 49: 50S ribosomal protein L29

Chain CY:



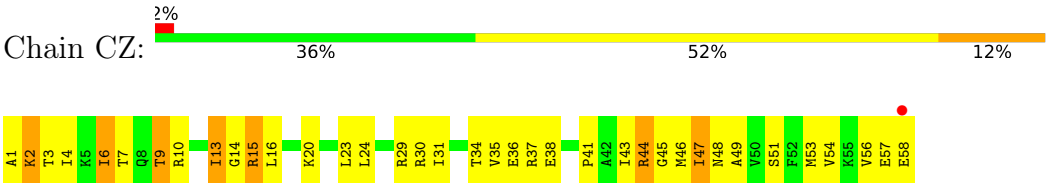
• Molecule 49: 50S ribosomal protein L29

Chain DY:



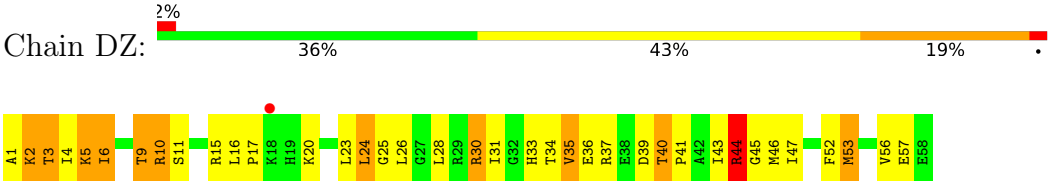
• Molecule 50: 50S ribosomal protein L30

Chain CZ:



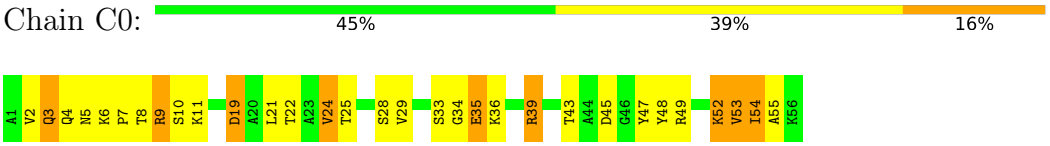
• Molecule 50: 50S ribosomal protein L30

Chain DZ:



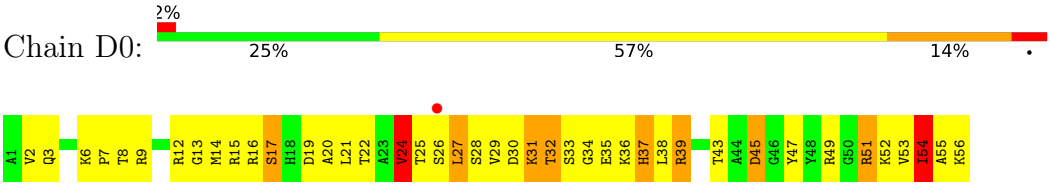
• Molecule 51: 50S ribosomal protein L32

Chain C0:



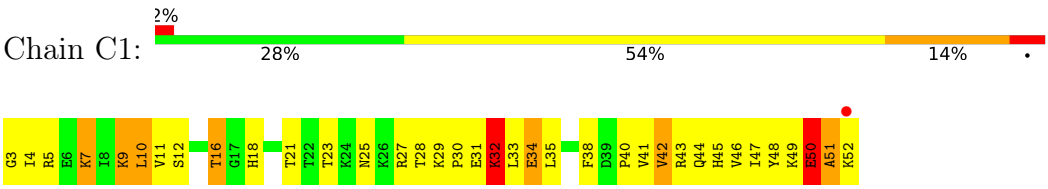
• Molecule 51: 50S ribosomal protein L32

Chain D0:



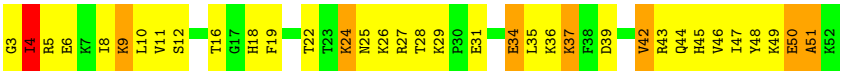
• Molecule 52: 50S ribosomal protein L33

Chain C1:



• Molecule 52: 50S ribosomal protein L33

Chain D1:

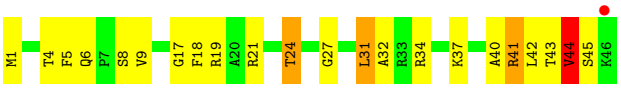


• Molecule 53: 50S ribosomal protein L34

Chain C2:

• Molecule 53: 50S ribosomal protein L34

Chain D2:

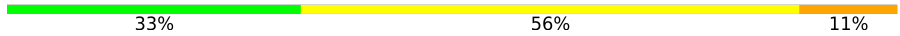


• Molecule 54: 50S ribosomal protein L35

Chain C3:

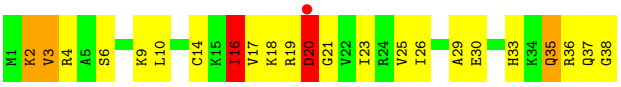
• Molecule 54: 50S ribosomal protein L35

Chain D3:



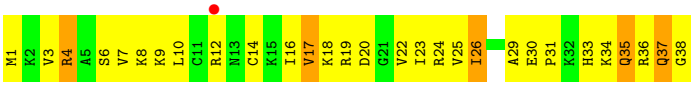
• Molecule 55: 50S ribosomal protein L36

Chain C4:



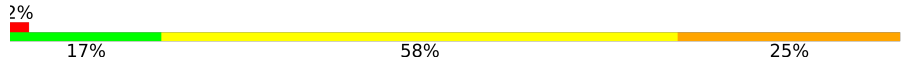
• Molecule 55: 50S ribosomal protein L36

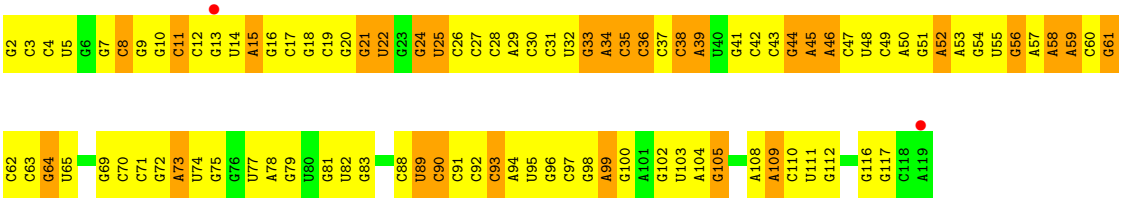
Chain D4:



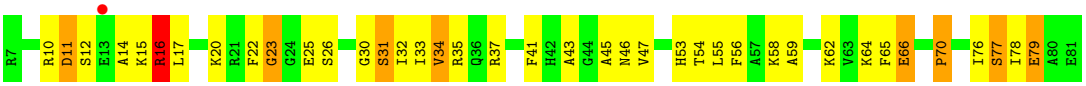
• Molecule 56: 5S rRNA

Chain DB:





• Molecule 57: 50S ribosomal protein L27



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	211.67Å 438.07Å 613.42Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 3.00 40.00 – 3.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (40.00-3.00) 83.4 (40.00-3.00)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.58 (at 3.01Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.202 , 0.260 0.194 , 0.248	Depositor DCC
R_{free} test set	19022 reflections (0.97%)	wwPDB-VP
Wilson B-factor (Å^2)	44.7	Xtriage
Anisotropy	0.180	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 19.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.46$, $< L^2 > = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	292354	wwPDB-VP
Average B, all atoms (Å^2)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.44% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0/36944	0.50	0/57632
1	BA	0.49	0/36966	0.51	1/57666 (0.0%)
2	AB	0.76	0/1736	1.12	10/2338 (0.4%)
2	BB	0.67	0/1736	0.99	3/2338 (0.1%)
3	AC	0.71	0/1652	1.01	4/2225 (0.2%)
3	BC	0.62	0/1652	1.02	7/2225 (0.3%)
4	AD	0.70	0/1665	1.07	10/2227 (0.4%)
4	BD	0.80	0/1665	1.09	8/2227 (0.4%)
5	AE	0.80	1/1119 (0.1%)	1.20	8/1504 (0.5%)
5	BE	0.79	0/1119	1.25	11/1504 (0.7%)
6	AF	0.81	0/836	1.15	5/1128 (0.4%)
6	BF	0.68	0/836	1.05	3/1128 (0.3%)
7	AG	0.64	0/1196	1.04	7/1602 (0.4%)
7	BG	0.62	0/1196	0.97	2/1602 (0.1%)
8	AH	0.74	0/989	1.14	9/1326 (0.7%)
8	BH	0.72	0/989	1.11	5/1326 (0.4%)
9	AI	0.60	0/1034	1.01	5/1375 (0.4%)
9	BI	0.60	0/1034	1.05	5/1375 (0.4%)
10	AJ	0.75	0/797	1.05	4/1077 (0.4%)
10	BJ	0.70	0/797	1.02	1/1077 (0.1%)
11	AK	0.90	0/893	1.14	1/1205 (0.1%)
11	BK	0.78	0/893	1.14	6/1205 (0.5%)
12	AL	0.77	0/969	1.09	5/1300 (0.4%)
12	BL	0.91	0/969	1.35	13/1300 (1.0%)
13	AM	0.68	0/893	1.08	3/1193 (0.3%)
13	BM	0.64	0/893	1.01	2/1193 (0.2%)
14	AN	0.66	0/785	1.11	6/1043 (0.6%)
14	BN	0.61	0/785	0.91	3/1043 (0.3%)
15	AO	0.73	0/722	1.04	3/964 (0.3%)
15	BO	0.66	0/722	1.04	3/964 (0.3%)
16	AP	0.70	0/659	1.16	5/884 (0.6%)
16	BP	0.83	1/659 (0.2%)	1.09	3/884 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AQ	0.65	0/658	1.03	3/881 (0.3%)
17	BQ	0.74	0/658	1.03	2/881 (0.2%)
18	AR	0.75	0/463	1.03	3/621 (0.5%)
18	BR	0.70	0/463	1.02	2/621 (0.3%)
19	AS	0.60	0/653	1.15	10/877 (1.1%)
19	BS	0.71	0/653	1.03	2/877 (0.2%)
20	AT	0.69	0/671	0.97	3/888 (0.3%)
20	BT	0.74	0/671	1.02	2/888 (0.2%)
21	AU	1.04	0/431	1.27	6/570 (1.1%)
21	BU	0.92	1/431 (0.2%)	1.15	1/570 (0.2%)
22	AV	0.43	0/1813	0.49	0/2823
22	BV	0.41	0/1813	0.51	0/2823
23	AX	0.49	0/363	0.52	0/564
23	BX	0.40	0/388	0.45	0/603
24	AY	0.86	0/1430	1.11	5/1924 (0.3%)
25	CA	0.88	1/69659 (0.0%)	0.60	1/108672 (0.0%)
25	DA	0.60	0/69633	0.55	0/108629
26	CB	0.73	0/2847	0.60	0/4440
27	CC	1.04	0/2122	1.20	6/2852 (0.2%)
27	DC	0.85	0/2122	1.20	17/2852 (0.6%)
28	CD	1.28	2/1586 (0.1%)	1.35	12/2134 (0.6%)
28	DD	0.92	1/1586 (0.1%)	1.20	12/2134 (0.6%)
29	CE	1.18	0/1571	1.19	5/2113 (0.2%)
29	DE	0.87	1/1571 (0.1%)	1.12	6/2113 (0.3%)
30	CF	0.81	0/1435	1.11	8/1926 (0.4%)
30	DF	0.59	0/1435	1.04	8/1926 (0.4%)
31	CG	0.94	0/1343	1.28	11/1816 (0.6%)
31	DG	0.64	0/1343	1.06	8/1816 (0.4%)
32	CH	0.86	0/1121	1.03	3/1515 (0.2%)
32	DH	0.84	1/1121 (0.1%)	1.08	2/1515 (0.1%)
33	CI	1.05	1/1046 (0.1%)	1.16	10/1410 (0.7%)
33	DI	0.97	1/1046 (0.1%)	1.15	9/1410 (0.6%)
34	CJ	1.36	4/1152 (0.3%)	1.15	4/1551 (0.3%)
34	DJ	0.97	0/1152	1.16	4/1551 (0.3%)
35	CK	1.17	1/948 (0.1%)	1.24	8/1268 (0.6%)
35	DK	0.89	0/948	1.19	6/1268 (0.5%)
36	CL	1.27	2/1054 (0.2%)	1.38	11/1403 (0.8%)
36	DL	0.81	0/1054	1.21	7/1403 (0.5%)
37	CM	1.27	4/1093 (0.4%)	1.31	8/1460 (0.5%)
37	DM	0.84	0/1093	1.18	11/1460 (0.8%)
38	CN	1.26	0/974	1.24	9/1301 (0.7%)
38	DN	0.90	0/974	1.15	7/1301 (0.5%)
39	CO	0.99	1/902 (0.1%)	1.19	6/1209 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
39	DO	0.62	0/902	1.03	3/1209 (0.2%)
40	CP	1.10	1/929 (0.1%)	1.20	5/1242 (0.4%)
40	DP	0.85	0/929	1.18	10/1242 (0.8%)
41	CQ	1.46	3/960 (0.3%)	1.29	5/1278 (0.4%)
41	DQ	1.01	0/960	1.13	2/1278 (0.2%)
42	CR	1.26	1/829 (0.1%)	1.39	7/1107 (0.6%)
42	DR	0.96	0/829	1.24	5/1107 (0.5%)
43	CS	1.46	3/864 (0.3%)	1.29	6/1156 (0.5%)
43	DS	0.94	0/864	1.17	2/1156 (0.2%)
44	CT	1.02	2/745 (0.3%)	1.20	7/994 (0.7%)
44	DT	0.68	0/745	0.99	3/994 (0.3%)
45	CU	1.19	3/788 (0.4%)	1.22	3/1051 (0.3%)
45	DU	0.81	1/788 (0.1%)	1.10	1/1051 (0.1%)
46	CV	1.02	0/766	1.16	4/1025 (0.4%)
46	DV	0.62	0/766	1.02	0/1025
47	CW	1.37	3/582 (0.5%)	1.21	1/769 (0.1%)
48	CX	1.03	1/635 (0.2%)	1.13	4/848 (0.5%)
48	DX	0.74	0/635	1.05	2/848 (0.2%)
49	CY	0.98	0/510	1.39	8/677 (1.2%)
49	DY	0.66	0/510	1.00	2/677 (0.3%)
50	CZ	1.38	2/453 (0.4%)	1.34	3/605 (0.5%)
50	DZ	0.82	0/453	1.13	0/605
51	C0	1.23	0/450	1.32	4/599 (0.7%)
51	D0	0.94	0/450	1.24	3/599 (0.5%)
52	C1	0.90	0/417	1.02	0/554
52	D1	0.61	0/417	0.93	1/554 (0.2%)
53	C2	1.38	0/380	1.39	5/498 (1.0%)
53	D2	0.90	0/380	1.06	0/498
54	C3	1.20	1/513 (0.2%)	1.11	1/676 (0.1%)
54	D3	0.75	0/513	1.07	2/676 (0.3%)
55	C4	1.13	0/303	1.24	1/397 (0.3%)
55	D4	0.85	0/303	1.08	1/397 (0.3%)
56	DB	0.43	0/2828	0.49	0/4410
57	DW	0.76	0/571	1.00	2/755 (0.3%)
All	All	0.74	44/315257 (0.0%)	0.75	502/471496 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
4	AD	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
4	BD	0	1
5	AE	0	1
5	BE	0	2
6	BF	0	1
9	AI	0	1
11	AK	0	1
11	BK	0	2
12	BL	0	2
13	AM	0	1
14	AN	0	1
20	BT	0	1
21	AU	0	2
21	BU	0	1
27	CC	0	1
27	DC	0	1
28	CD	0	2
28	DD	0	1
32	DH	0	2
33	CI	0	1
34	DJ	0	1
39	DO	0	1
42	CR	0	1
45	CU	0	1
50	CZ	0	1
All	All	0	31

All (44) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	BU	31	VAL	CA-CB	7.08	1.62	1.54
41	CQ	103	VAL	CA-CB	-7.04	1.46	1.54
35	CK	10	VAL	CA-CB	-6.56	1.46	1.54
44	CT	16	VAL	CA-CB	-6.50	1.46	1.54
28	DD	60	VAL	CA-CB	6.12	1.61	1.54
50	CZ	49	ALA	CA-CB	-6.06	1.43	1.53
33	CI	21	PRO	CA-C	6.05	1.57	1.52
34	CJ	136	GLN	C-O	-6.04	1.20	1.23
50	CZ	13	ILE	CA-CB	-5.93	1.46	1.54
47	CW	33	ILE	CA-CB	-5.90	1.46	1.54
45	CU	4	ILE	CA-CB	-5.83	1.47	1.54
54	C3	9	ALA	CA-CB	-5.76	1.44	1.53
32	DH	61	VAL	CA-C	5.70	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	CX	66	VAL	CA-CB	-5.68	1.48	1.54
44	CT	67	VAL	CA-CB	-5.66	1.46	1.55
45	CU	71	ILE	CA-CB	-5.64	1.48	1.54
37	CM	120	ALA	CA-C	-5.63	1.45	1.52
41	CQ	114	ALA	CA-CB	-5.58	1.44	1.53
45	DU	48	VAL	CA-CB	5.57	1.59	1.54
37	CM	131	VAL	CA-CB	-5.56	1.46	1.54
33	DI	139	VAL	CA-CB	5.53	1.59	1.53
34	CJ	54	ILE	CA-CB	-5.51	1.47	1.54
25	CA	1142	A	N9-C4	-5.47	1.26	1.37
43	CS	45	VAL	CA-CB	-5.46	1.47	1.54
42	CR	14	VAL	CA-CB	-5.40	1.50	1.55
45	CU	58	VAL	CA-CB	5.38	1.61	1.53
28	CD	142	VAL	CA-CB	-5.34	1.47	1.54
34	CJ	53	TYR	CA-C	-5.26	1.46	1.52
41	CQ	9	ALA	CA-CB	-5.26	1.46	1.53
36	CL	57	LEU	C-O	-5.23	1.18	1.24
36	CL	69	ARG	CA-C	-5.19	1.45	1.52
43	CS	86	MET	C-O	-5.18	1.20	1.25
29	DE	83	VAL	CA-CB	-5.17	1.47	1.54
39	CO	99	TYR	CA-C	-5.17	1.46	1.53
16	BP	71	VAL	CA-CB	5.16	1.60	1.54
28	CD	127	PHE	CA-C	-5.11	1.46	1.53
43	CS	106	VAL	CA-C	-5.11	1.46	1.52
34	CJ	101	ILE	CA-C	-5.07	1.46	1.52
40	CP	79	VAL	CA-CB	-5.05	1.48	1.54
47	CW	21	ARG	CA-C	-5.04	1.47	1.52
5	AE	35	LEU	CA-C	-5.02	1.47	1.53
37	CM	73	ILE	CA-CB	-5.01	1.48	1.54
47	CW	78	ILE	CA-C	-5.01	1.46	1.52
37	CM	65	ILE	CA-CB	-5.00	1.48	1.54

All (502) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	CD	151	THR	CA-C-N	15.82	139.62	119.84
28	CD	151	THR	C-N-CA	15.82	139.62	119.84
42	CR	51	VAL	CA-C-N	-12.33	104.43	119.84
42	CR	51	VAL	C-N-CA	-12.33	104.43	119.84
49	CY	16	THR	N-CA-C	-12.13	98.06	111.28
42	DR	9	GLY	N-CA-C	-11.34	98.59	115.72
28	CD	142	VAL	CA-C-N	11.07	130.67	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	CD	142	VAL	C-N-CA	11.07	130.67	119.82
36	DL	95	LEU	N-CA-C	-10.98	98.07	112.68
49	CY	6	LEU	N-CA-C	-10.95	99.02	112.38
5	BE	148	SER	N-CA-C	10.14	122.04	109.57
12	BL	20	VAL	CA-C-N	10.07	132.43	119.84
12	BL	20	VAL	C-N-CA	10.07	132.43	119.84
35	CK	118	LEU	N-CA-C	-9.96	96.15	110.59
49	CY	56	LEU	N-CA-C	-9.83	96.38	110.24
37	CM	68	PHE	CA-C-N	9.80	132.10	119.84
37	CM	68	PHE	C-N-CA	9.80	132.10	119.84
24	AY	104	PRO	CA-C-N	-9.77	110.83	120.21
24	AY	104	PRO	C-N-CA	-9.77	110.83	120.21
31	CG	110	HIS	CA-C-N	-9.29	110.84	120.03
31	CG	110	HIS	C-N-CA	-9.29	110.84	120.03
43	CS	28	LYS	N-CA-C	-9.12	98.88	110.19
17	AQ	75	VAL	N-CA-C	-9.00	104.51	111.62
8	AH	48	PHE	N-CA-C	8.91	116.09	108.78
4	AD	184	LYS	CA-C-N	8.84	130.88	119.84
4	AD	184	LYS	C-N-CA	8.84	130.88	119.84
36	CL	83	ALA	N-CA-C	-8.83	99.37	111.56
16	BP	14	ARG	CA-C-N	8.69	128.56	120.21
16	BP	14	ARG	C-N-CA	8.69	128.56	120.21
33	DI	56	VAL	N-CA-C	8.69	120.09	107.75
29	DE	41	GLN	N-CA-C	-8.66	97.67	110.48
49	DY	59	GLU	N-CA-C	-8.57	101.94	111.28
43	DS	20	VAL	CB-CA-C	-8.56	100.40	112.22
50	CZ	15	ARG	N-CA-C	8.56	123.15	110.48
5	AE	148	SER	CA-C-N	8.49	130.45	119.84
5	AE	148	SER	C-N-CA	8.49	130.45	119.84
33	CI	72	THR	CA-C-N	8.43	129.06	120.38
33	CI	72	THR	C-N-CA	8.43	129.06	120.38
16	AP	14	ARG	CA-C-N	8.39	130.33	119.84
16	AP	14	ARG	C-N-CA	8.39	130.33	119.84
31	CG	6	ALA	CA-C-N	8.35	130.27	119.84
31	CG	6	ALA	C-N-CA	8.35	130.27	119.84
5	BE	111	ARG	N-CA-C	-8.31	102.18	111.07
42	DR	51	VAL	CA-C-N	-8.30	111.47	119.85
42	DR	51	VAL	C-N-CA	-8.30	111.47	119.85
14	BN	51	LEU	CA-C-N	8.27	130.17	119.84
14	BN	51	LEU	C-N-CA	8.27	130.17	119.84
30	CF	166	ARG	N-CA-C	-8.23	102.00	110.97
54	D3	57	VAL	CB-CA-C	-8.21	101.36	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AU	8	ASN	N-CA-C	8.15	123.04	112.12
28	DD	151	THR	N-CA-C	-8.15	98.19	110.01
39	CO	34	HIS	N-CA-C	8.11	120.70	109.18
5	BE	152	VAL	N-CA-C	-8.02	102.26	111.00
7	AG	6	ILE	N-CA-C	7.97	118.55	108.82
36	CL	85	VAL	N-CA-C	-7.95	105.57	113.20
40	CP	3	ILE	N-CA-C	-7.88	103.17	110.82
6	BF	11	HIS	CA-C-N	7.87	129.68	119.84
6	BF	11	HIS	C-N-CA	7.87	129.68	119.84
28	CD	151	THR	C-N-CD	-7.85	92.82	125.00
41	CQ	41	ALA	N-CA-C	-7.85	102.80	112.38
34	CJ	101	ILE	CB-CA-C	-7.82	101.80	112.04
42	CR	46	GLU	N-CA-C	7.82	121.21	108.55
33	DI	72	THR	N-CA-C	7.82	115.03	108.07
37	CM	120	ALA	N-CA-C	-7.81	103.35	113.12
49	CY	11	VAL	N-CA-C	-7.80	105.58	111.90
31	CG	76	ILE	N-CA-C	-7.79	101.13	112.04
36	DL	83	ALA	N-CA-C	-7.75	102.80	111.71
27	DC	213	ARG	N-CA-C	-7.72	104.29	112.93
12	BL	24	GLU	N-CA-C	-7.65	104.43	113.38
11	BK	102	ALA	N-CA-C	-7.61	103.97	112.57
15	AO	74	VAL	CB-CA-C	-7.59	102.09	112.04
53	C2	6	GLN	CA-C-N	-7.58	112.88	120.31
53	C2	6	GLN	C-N-CA	-7.58	112.88	120.31
9	AI	96	GLU	N-CA-C	-7.53	104.61	113.88
27	CC	41	GLY	N-CA-C	-7.53	104.66	115.27
10	BJ	91	ASP	N-CA-C	7.53	119.27	111.14
18	BR	67	LEU	CA-C-N	-7.49	110.48	119.84
18	BR	67	LEU	C-N-CA	-7.49	110.48	119.84
11	BK	65	ALA	N-CA-C	-7.45	103.30	112.38
11	BK	125	LYS	N-CA-C	7.44	121.49	110.48
43	CS	54	ALA	N-CA-C	-7.42	103.20	111.28
24	AY	146	ASP	N-CA-C	-7.41	101.47	111.54
13	AM	2	ARG	N-CA-C	7.39	120.42	111.40
5	BE	136	VAL	N-CA-C	-7.38	99.10	108.84
31	DG	6	ALA	CA-C-N	7.37	129.05	119.84
31	DG	6	ALA	C-N-CA	7.37	129.05	119.84
6	AF	97	THR	N-CA-C	7.37	120.06	108.79
33	DI	72	THR	CA-C-N	7.34	127.94	120.38
33	DI	72	THR	C-N-CA	7.34	127.94	120.38
44	CT	16	VAL	N-CA-C	7.31	118.41	108.17
21	AU	29	ALA	N-CA-C	-7.29	103.32	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	BD	36	ALA	CA-C-N	-7.29	110.73	119.84
4	BD	36	ALA	C-N-CA	-7.29	110.73	119.84
27	DC	84	PRO	N-CA-C	-7.28	107.11	114.68
2	AB	135	MET	N-CA-C	-7.28	103.49	112.88
2	AB	90	PHE	N-CA-C	7.27	119.11	108.86
38	DN	74	GLU	N-CA-C	-7.26	104.95	113.88
2	AB	49	PHE	N-CA-C	-7.18	104.50	113.55
46	CV	26	PHE	N-CA-C	7.16	114.45	108.07
33	DI	91	LYS	CA-C-N	7.13	128.75	119.84
33	DI	91	LYS	C-N-CA	7.13	128.75	119.84
8	BH	89	ASP	N-CA-C	-7.11	104.59	113.20
40	CP	2	ASN	N-CA-C	-7.10	104.89	113.97
32	DH	5	LEU	N-CA-C	7.08	119.24	109.18
29	DE	35	TYR	N-CA-C	-7.08	103.65	111.36
40	DP	72	VAL	N-CA-C	-7.06	98.29	108.53
5	BE	68	ARG	N-CA-C	-7.04	101.21	110.43
51	C0	6	LYS	CA-C-N	7.04	128.63	119.84
51	C0	6	LYS	C-N-CA	7.04	128.63	119.84
35	CK	95	ILE	CB-CA-C	-7.02	102.53	112.22
29	DE	181	ILE	CB-CA-C	-6.97	102.89	112.02
32	CH	4	ILE	CB-CA-C	-6.96	101.88	111.49
33	CI	49	GLU	N-CA-C	6.96	118.96	108.46
51	D0	24	VAL	N-CA-C	6.95	116.95	110.42
42	CR	9	GLY	N-CA-C	-6.92	103.00	114.76
7	AG	24	LYS	N-CA-C	-6.91	102.96	111.33
13	AM	8	ILE	CA-C-N	6.90	128.30	120.85
13	AM	8	ILE	C-N-CA	6.90	128.30	120.85
43	CS	49	LYS	N-CA-C	-6.89	103.87	112.90
18	AR	66	LEU	N-CA-C	-6.83	104.42	112.89
28	CD	127	PHE	N-CA-C	-6.82	101.73	110.19
15	BO	7	THR	N-CA-C	-6.81	103.79	111.07
6	AF	75	GLU	N-CA-C	-6.80	103.93	111.82
53	C2	27	GLY	N-CA-C	-6.75	104.32	112.49
18	AR	39	VAL	N-CA-C	6.74	115.24	107.89
38	CN	61	ALA	N-CA-C	-6.74	103.86	111.07
49	CY	58	ASN	N-CA-C	-6.74	106.94	114.62
30	CF	84	ILE	N-CA-C	6.71	119.67	112.96
49	CY	45	GLN	N-CA-C	-6.71	101.64	110.43
29	DE	65	THR	N-CA-C	-6.69	100.38	110.28
31	DG	162	ARG	N-CA-C	6.69	118.56	108.46
36	CL	103	ILE	N-CA-C	6.67	117.36	110.36
33	CI	56	VAL	N-CA-C	6.66	115.83	107.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	DF	174	PHE	CA-C-N	6.66	128.17	119.84
30	DF	174	PHE	C-N-CA	6.66	128.17	119.84
31	CG	75	VAL	N-CA-C	-6.63	107.04	113.53
29	CE	146	VAL	CB-CA-C	-6.60	99.30	111.18
46	CV	26	PHE	CA-C-N	-6.60	113.47	120.66
46	CV	26	PHE	C-N-CA	-6.60	113.47	120.66
30	DF	63	LYS	CA-C-N	-6.59	113.88	120.21
30	DF	63	LYS	C-N-CA	-6.59	113.88	120.21
21	AU	20	ARG	N-CA-C	-6.59	105.98	112.97
40	CP	20	ARG	N-CA-C	6.57	114.13	108.22
15	AO	84	LEU	N-CA-C	-6.55	104.76	112.89
31	DG	52	GLY	CA-C-N	6.54	128.01	119.84
31	DG	52	GLY	C-N-CA	6.54	128.01	119.84
5	AE	110	MET	N-CA-C	-6.53	105.88	114.31
36	DL	70	LYS	N-CA-C	-6.50	103.47	111.40
9	BI	27	ILE	N-CA-C	6.49	117.38	107.77
33	CI	85	ILE	N-CA-C	6.49	117.95	109.58
6	AF	71	ILE	N-CA-C	-6.49	103.48	110.23
2	AB	138	ARG	N-CA-C	-6.48	103.48	111.33
20	AT	7	LYS	N-CA-C	-6.47	104.27	111.71
55	C4	16	ILE	CB-CA-C	-6.47	103.12	111.53
19	AS	65	MET	N-CA-C	-6.45	103.94	112.72
41	CQ	7	VAL	N-CA-C	-6.43	105.56	111.67
39	CO	102	ARG	N-CA-C	-6.43	104.32	111.71
45	CU	35	VAL	N-CA-C	6.42	117.49	107.28
49	DY	56	LEU	N-CA-C	-6.42	100.78	110.28
35	DK	86	LEU	N-CA-C	-6.41	102.52	110.41
41	CQ	19	GLN	N-CA-C	-6.38	105.46	113.18
37	DM	57	VAL	N-CA-C	-6.35	103.15	112.04
28	DD	151	THR	C-N-CD	-6.34	98.99	125.00
12	BL	89	LEU	N-CA-C	-6.34	101.66	109.65
28	DD	171	THR	CB-CA-C	-6.34	103.40	111.70
14	AN	69	ARG	CA-C-N	6.34	126.46	119.87
14	AN	69	ARG	C-N-CA	6.34	126.46	119.87
27	DC	30	ALA	CA-C-N	-6.33	111.92	119.84
27	DC	30	ALA	C-N-CA	-6.33	111.92	119.84
37	DM	5	LYS	N-CA-C	-6.33	105.52	113.18
41	DQ	36	GLN	N-CA-C	-6.32	104.47	111.36
41	DQ	51	GLN	N-CA-C	6.32	118.25	111.36
42	CR	99	THR	N-CA-C	6.26	118.12	109.54
51	D0	32	THR	N-CA-C	6.26	117.77	111.07
5	AE	140	ILE	N-CA-C	-6.24	104.25	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	CX	19	HIS	N-CA-C	-6.24	104.48	111.28
40	DP	15	ASP	CA-C-N	-6.24	118.10	122.59
40	DP	15	ASP	C-N-CA	-6.24	118.10	122.59
3	BC	58	ARG	CA-C-N	6.24	127.64	119.84
3	BC	58	ARG	C-N-CA	6.24	127.64	119.84
9	BI	87	MET	N-CA-C	-6.24	105.63	113.18
12	BL	43	LYS	CA-C-N	-6.22	113.35	119.64
12	BL	43	LYS	C-N-CA	-6.22	113.35	119.64
21	AU	17	ARG	N-CA-C	-6.22	106.06	113.21
5	BE	147	ASN	N-CA-C	6.22	119.38	109.24
21	BU	46	ARG	N-CA-C	-6.21	105.65	113.72
14	AN	92	GLU	N-CA-C	6.21	124.02	110.80
27	CC	126	GLY	N-CA-C	-6.20	105.96	114.64
30	CF	174	PHE	CA-C-N	6.18	127.57	119.84
30	CF	174	PHE	C-N-CA	6.18	127.57	119.84
28	DD	195	GLY	N-CA-C	6.18	120.82	112.17
2	AB	194	GLY	N-CA-C	-6.17	107.55	114.40
2	AB	107	ARG	N-CA-C	-6.17	103.87	111.33
43	CS	86	MET	CA-C-N	-6.16	113.60	119.89
43	CS	86	MET	C-N-CA	-6.16	113.60	119.89
5	BE	143	LEU	N-CA-C	-6.16	103.87	112.12
35	DK	51	LYS	N-CA-C	-6.16	105.35	112.92
8	AH	89	ASP	N-CA-C	-6.15	105.03	112.54
14	AN	56	SER	CA-C-N	6.15	125.88	119.05
14	AN	56	SER	C-N-CA	6.15	125.88	119.05
19	AS	40	PHE	CA-C-N	6.15	127.53	119.84
19	AS	40	PHE	C-N-CA	6.15	127.53	119.84
31	CG	97	VAL	N-CA-C	6.15	122.14	109.34
40	DP	2	ASN	N-CA-C	-6.15	104.87	112.38
19	AS	7	GLY	CA-C-N	6.15	127.53	119.84
19	AS	7	GLY	C-N-CA	6.15	127.53	119.84
35	CK	24	VAL	N-CA-C	-6.15	99.41	109.12
11	BK	41	LEU	N-CA-C	-6.14	106.10	113.97
19	AS	33	TRP	N-CA-C	-6.13	103.49	111.71
55	D4	4	ARG	N-CA-C	-6.13	101.13	109.95
39	CO	78	VAL	CB-CA-C	-6.12	104.16	111.81
35	DK	93	GLN	CA-C-N	6.12	127.49	119.84
35	DK	93	GLN	C-N-CA	6.12	127.49	119.84
4	BD	60	VAL	CB-CA-C	-6.12	103.87	111.70
9	AI	102	PHE	N-CA-C	-6.08	105.35	112.89
31	CG	97	VAL	CB-CA-C	-6.04	101.38	111.29
41	CQ	103	VAL	CB-CA-C	-6.04	104.11	112.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	DC	203	VAL	CB-CA-C	-6.04	104.30	110.88
4	AD	102	TYR	N-CA-C	-6.03	104.78	111.36
2	BB	130	LYS	N-CA-C	-6.03	106.08	113.50
27	DC	9	SER	CA-C-N	-6.03	114.06	120.03
27	DC	9	SER	C-N-CA	-6.03	114.06	120.03
44	CT	4	GLU	N-CA-C	-6.03	104.83	111.82
17	BQ	67	SER	N-CA-C	6.02	116.51	108.38
36	CL	98	ALA	N-CA-C	-6.02	105.70	113.16
42	DR	36	ALA	N-CA-C	-6.01	105.77	113.23
34	DJ	28	LEU	N-CA-C	-5.98	104.33	111.69
2	BB	90	PHE	N-CA-C	5.98	117.49	108.46
12	BL	104	SER	N-CA-C	-5.98	102.47	110.55
44	DT	32	LEU	N-CA-C	5.97	118.23	108.55
42	CR	33	VAL	CB-CA-C	-5.97	103.25	111.49
28	DD	193	VAL	CA-C-N	5.97	127.30	119.84
28	DD	193	VAL	C-N-CA	5.97	127.30	119.84
7	BG	91	ARG	CA-C-N	5.97	127.30	119.84
7	BG	91	ARG	C-N-CA	5.97	127.30	119.84
2	BB	44	LYS	N-CA-C	-5.95	107.25	114.75
25	CA	752	A	C4-N9-C1'	5.95	144.15	126.30
17	BQ	20	ILE	N-CA-C	5.95	116.74	108.89
28	DD	29	VAL	N-CA-C	5.94	115.29	106.85
57	DW	70	PRO	N-CA-C	-5.94	106.43	113.86
5	BE	16	ALA	N-CA-C	5.93	117.42	108.46
48	DX	19	HIS	N-CA-C	-5.92	104.83	111.28
27	CC	245	THR	CA-C-N	-5.91	113.56	120.12
27	CC	245	THR	C-N-CA	-5.91	113.56	120.12
9	BI	89	TYR	N-CA-C	-5.89	106.01	112.72
40	DP	77	SER	CA-C-N	5.88	127.19	119.84
40	DP	77	SER	C-N-CA	5.88	127.19	119.84
27	DC	73	ILE	N-CA-C	5.87	113.68	108.63
33	DI	62	ALA	N-CA-C	-5.87	106.75	112.97
14	AN	25	GLU	N-CA-C	-5.86	105.73	114.64
8	BH	91	LEU	CA-C-N	5.85	126.04	120.31
8	BH	91	LEU	C-N-CA	5.85	126.04	120.31
29	CE	88	ARG	N-CA-C	-5.84	103.30	110.31
39	CO	18	LEU	N-CA-C	-5.84	105.05	111.82
7	AG	12	LEU	CA-C-N	5.83	127.12	119.84
7	AG	12	LEU	C-N-CA	5.83	127.12	119.84
5	BE	147	ASN	CA-C-N	5.83	129.16	120.83
5	BE	147	ASN	C-N-CA	5.83	129.16	120.83
30	CF	67	THR	N-CA-C	5.82	118.14	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	DU	31	GLY	N-CA-C	-5.81	107.16	115.64
34	DJ	109	LEU	CA-C-N	-5.81	112.58	119.84
34	DJ	109	LEU	C-N-CA	-5.81	112.58	119.84
15	AO	47	LYS	N-CA-C	-5.81	104.75	112.94
8	AH	11	THR	N-CA-C	-5.80	104.59	111.03
17	AQ	28	VAL	N-CA-C	5.79	116.00	108.35
31	DG	160	GLY	N-CA-C	5.79	117.45	111.95
11	BK	87	GLY	CA-C-N	5.79	127.08	119.84
11	BK	87	GLY	C-N-CA	5.79	127.08	119.84
42	DR	5	PHE	N-CA-C	5.79	117.81	108.32
24	AY	145	LYS	N-CA-C	-5.78	102.87	110.33
8	AH	103	VAL	N-CA-C	5.78	116.19	107.75
44	CT	16	VAL	CB-CA-C	-5.78	102.22	110.83
34	CJ	5	THR	CB-CA-C	-5.78	97.65	109.38
3	BC	194	VAL	N-CA-C	5.77	116.51	108.89
44	CT	39	THR	CB-CA-C	-5.76	99.31	109.62
32	CH	88	GLY	N-CA-C	5.76	123.19	115.59
10	AJ	18	ILE	N-CA-C	-5.75	105.12	110.53
9	BI	55	ASP	N-CA-C	5.75	118.61	109.81
12	BL	37	TYR	N-CA-C	5.75	118.77	109.86
27	DC	48	ILE	CB-CA-C	-5.74	102.74	111.69
37	DM	68	PHE	CA-C-N	5.74	127.01	119.84
37	DM	68	PHE	C-N-CA	5.74	127.01	119.84
14	BN	44	ALA	N-CA-C	-5.73	106.62	113.21
35	CK	77	ILE	N-CA-C	-5.72	101.49	109.45
31	DG	9	VAL	N-CA-C	5.71	115.56	106.88
33	CI	122	GLU	N-CA-C	-5.70	106.95	114.31
35	DK	113	MET	N-CA-C	-5.70	104.45	111.40
5	AE	11	GLN	N-CA-C	5.69	122.92	110.80
49	CY	59	GLU	N-CA-C	-5.68	105.08	111.28
28	DD	50	VAL	CB-CA-C	-5.68	103.97	111.70
38	CN	56	LYS	N-CA-C	-5.67	106.32	113.18
41	CQ	34	ALA	N-CA-C	-5.67	105.25	111.82
6	BF	66	ALA	N-CA-C	5.67	114.66	108.14
43	CS	17	VAL	CB-CA-C	-5.66	104.41	112.22
44	CT	22	THR	N-CA-C	-5.65	105.02	111.07
12	BL	115	LYS	N-CA-C	-5.64	101.03	109.15
3	AC	184	ASN	N-CA-C	5.63	116.82	108.60
12	AL	105	GLY	N-CA-C	-5.62	105.34	112.54
3	AC	156	LEU	N-CA-C	-5.62	101.73	110.10
31	CG	141	GLY	N-CA-C	-5.61	105.99	112.50
33	CI	3	LYS	N-CA-C	5.61	115.65	108.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	BL	89	LEU	CA-C-N	-5.61	114.19	120.14
12	BL	89	LEU	C-N-CA	-5.61	114.19	120.14
36	CL	25	SER	N-CA-C	5.61	119.38	112.54
38	DN	75	ILE	CB-CA-C	-5.61	104.48	112.22
27	DC	12	ARG	N-CA-C	-5.60	98.87	110.80
37	DM	97	GLN	CA-C-N	-5.60	114.19	119.85
37	DM	97	GLN	C-N-CA	-5.60	114.19	119.85
27	DC	6	LYS	CA-C-N	5.60	126.84	119.84
27	DC	6	LYS	C-N-CA	5.60	126.84	119.84
11	AK	41	LEU	N-CA-C	-5.60	106.50	113.55
20	AT	67	HIS	N-CA-C	5.60	118.59	110.42
3	AC	141	MET	N-CA-C	-5.59	105.27	111.36
6	AF	96	VAL	N-CA-C	5.59	117.10	108.44
19	AS	72	GLU	N-CA-C	-5.58	106.55	113.19
4	AD	147	LYS	N-CA-C	-5.58	102.76	110.35
35	CK	121	GLU	N-CA-C	5.57	118.95	108.65
4	AD	21	LYS	N-CA-C	-5.56	106.26	113.16
46	CV	32	GLY	N-CA-C	-5.56	106.07	112.29
51	C0	24	VAL	N-CA-C	5.56	120.18	112.35
31	CG	39	ALA	N-CA-C	-5.55	106.46	113.18
43	DS	42	LYS	N-CA-C	-5.55	105.23	111.28
7	AG	90	VAL	N-CA-C	5.55	116.05	107.78
16	AP	20	VAL	N-CA-C	5.55	116.36	108.42
27	CC	109	LEU	N-CA-C	5.55	118.22	109.96
38	CN	69	ARG	N-CA-C	-5.54	101.09	109.85
53	C2	35	ARG	N-CA-C	-5.54	104.88	111.69
37	DM	108	VAL	CA-C-N	5.54	126.76	119.84
37	DM	108	VAL	C-N-CA	5.54	126.76	119.84
20	AT	63	LYS	N-CA-C	-5.53	105.33	111.36
53	C2	45	SER	N-CA-C	5.53	117.20	108.96
37	DM	101	VAL	N-CA-C	-5.53	101.69	109.21
44	CT	38	ALA	N-CA-C	5.52	122.56	110.80
34	DJ	135	GLN	N-CA-C	-5.52	106.55	113.28
45	CU	8	ASP	N-CA-C	-5.51	99.07	110.80
48	CX	66	VAL	CB-CA-C	-5.49	104.78	111.87
45	CU	88	ASP	N-CA-C	-5.49	99.79	109.02
7	AG	46	LEU	N-CA-C	-5.49	104.82	112.45
19	AS	17	LYS	N-CA-C	-5.49	106.52	113.43
12	AL	101	LEU	CB-CA-C	-5.48	110.23	116.54
30	DF	73	VAL	N-CA-C	5.47	116.16	108.17
17	AQ	66	LEU	N-CA-C	-5.46	108.40	114.62
4	AD	29	THR	N-CA-C	-5.45	99.19	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	BD	92	LEU	N-CA-C	-5.45	105.42	111.36
38	CN	26	GLY	N-CA-C	-5.45	106.18	112.50
34	CJ	115	GLY	N-CA-C	-5.44	106.20	112.73
4	BD	200	VAL	CB-CA-C	-5.44	104.74	111.70
34	CJ	126	ALA	N-CA-C	-5.44	106.60	113.18
1	BA	245	U	C2-N1-C1'	-5.43	101.40	117.70
3	BC	153	SER	N-CA-C	5.43	116.89	107.93
19	BS	28	LYS	CA-C-N	5.43	125.42	119.89
19	BS	28	LYS	C-N-CA	5.43	125.42	119.89
29	DE	117	ARG	N-CA-C	-5.43	107.02	113.97
7	AG	20	GLU	N-CA-C	-5.42	104.77	111.33
33	CI	131	THR	N-CA-C	-5.42	105.77	112.38
38	DN	56	LYS	N-CA-C	-5.41	104.62	111.11
8	BH	78	SER	N-CA-C	-5.41	101.85	109.96
24	AY	6	ILE	N-CA-C	5.40	116.13	110.62
30	CF	96	TRP	N-CA-C	-5.40	104.81	111.40
36	DL	59	ARG	N-CA-C	-5.40	106.61	114.12
35	CK	115	ILE	N-CA-C	5.39	116.12	110.62
33	DI	49	GLU	N-CA-C	5.39	117.16	108.32
5	AE	122	VAL	CB-CA-C	-5.39	103.20	111.71
12	AL	97	VAL	CB-CA-C	-5.38	106.09	111.80
16	AP	61	VAL	N-CA-C	-5.37	104.50	110.62
10	AJ	40	ILE	CA-C-N	5.37	126.55	119.84
10	AJ	40	ILE	C-N-CA	5.37	126.55	119.84
38	CN	19	ALA	N-CA-C	-5.37	106.57	113.01
12	AL	60	PHE	N-CA-C	-5.37	101.42	109.95
28	DD	121	THR	N-CA-C	-5.36	105.48	112.23
8	AH	91	LEU	CA-C-N	5.36	127.26	120.51
8	AH	91	LEU	C-N-CA	5.36	127.26	120.51
36	CL	43	GLY	N-CA-C	-5.36	107.72	115.27
28	DD	151	THR	CA-C-N	5.36	126.54	119.84
28	DD	151	THR	C-N-CA	5.36	126.54	119.84
35	DK	118	LEU	N-CA-C	-5.36	102.82	110.59
31	DG	2	ARG	N-CA-C	-5.36	105.38	112.34
35	CK	32	TYR	N-CA-C	5.35	117.82	109.52
40	DP	43	GLU	N-CA-C	-5.35	102.61	110.52
2	AB	11	ALA	N-CA-C	5.35	116.85	109.15
57	DW	20	LYS	N-CA-C	-5.34	107.31	113.88
12	AL	115	LYS	N-CA-C	-5.34	102.57	110.48
16	BP	20	VAL	N-CA-C	5.34	116.05	108.42
21	AU	52	VAL	N-CA-C	-5.33	106.50	111.45
29	CE	104	ALA	N-CA-C	-5.33	104.52	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	AF	32	ALA	N-CA-C	-5.33	106.80	113.72
28	CD	9	VAL	N-CA-C	-5.32	107.59	111.90
2	AB	23	ASN	CA-C-N	5.30	125.36	119.32
2	AB	23	ASN	C-N-CA	5.30	125.36	119.32
30	DF	139	GLU	N-CA-C	-5.29	105.56	112.23
37	DM	65	ILE	CB-CA-C	-5.29	105.89	111.23
27	DC	202	ARG	N-CA-C	-5.29	103.05	110.50
5	AE	89	THR	CB-CA-C	-5.29	110.04	117.23
40	DP	99	LEU	N-CA-C	-5.28	107.21	113.97
4	AD	36	ALA	CA-C-N	-5.28	114.17	119.56
4	AD	36	ALA	C-N-CA	-5.28	114.17	119.56
4	AD	76	LYS	N-CA-C	-5.28	105.94	112.38
19	AS	74	ALA	CA-C-N	5.28	126.44	119.84
19	AS	74	ALA	C-N-CA	5.28	126.44	119.84
38	DN	76	VAL	N-CA-C	-5.28	105.24	110.62
35	CK	89	ASN	N-CA-C	5.27	117.02	111.28
39	CO	99	TYR	N-CA-CB	5.26	117.68	110.57
54	D3	62	PRO	N-CA-C	-5.26	107.17	114.27
36	CL	7	SER	CA-C-N	5.26	126.41	119.84
36	CL	7	SER	C-N-CA	5.26	126.41	119.84
38	DN	84	GLY	CA-C-N	5.26	126.19	120.83
38	DN	84	GLY	C-N-CA	5.26	126.19	120.83
20	BT	23	ARG	N-CA-C	-5.25	105.20	111.03
9	AI	97	LEU	N-CA-C	-5.25	104.98	111.33
4	AD	49	ASP	N-CA-C	-5.24	105.68	111.71
20	BT	7	LYS	N-CA-C	-5.24	104.99	111.33
36	DL	120	VAL	N-CA-C	5.24	116.21	108.45
8	AH	102	VAL	CB-CA-C	-5.24	102.70	111.29
40	DP	45	VAL	CB-CA-C	-5.24	103.88	111.68
51	D0	20	ALA	N-CA-C	5.24	118.23	110.48
3	BC	184	ASN	N-CA-C	5.23	116.93	109.14
5	AE	97	PRO	N-CA-C	-5.23	106.27	113.53
15	BO	43	ALA	N-CA-C	-5.22	105.23	111.03
33	CI	103	ALA	N-CA-C	-5.22	104.65	111.02
44	CT	51	PHE	N-CA-C	-5.22	106.31	113.30
37	CM	97	GLN	CA-C-N	-5.21	113.32	119.84
37	CM	97	GLN	C-N-CA	-5.21	113.32	119.84
4	BD	76	LYS	N-CA-C	-5.21	105.60	111.28
12	BL	5	GLN	N-CA-C	-5.21	104.66	111.02
38	CN	79	LEU	N-CA-C	-5.21	99.70	110.80
30	DF	27	VAL	N-CA-C	5.21	113.86	109.02
13	BM	52	ILE	CB-CA-C	-5.20	106.48	111.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	CD	22	ILE	CB-CA-C	-5.20	105.14	110.71
33	DI	94	LYS	N-CA-C	-5.20	105.01	112.13
39	DO	112	GLU	N-CA-C	-5.20	106.89	113.18
28	CD	73	VAL	N-CA-C	-5.19	101.17	109.17
29	CE	93	SER	N-CA-C	-5.19	103.55	110.55
5	BE	36	THR	N-CA-C	5.18	117.27	109.23
36	CL	101	ILE	CB-CA-C	-5.18	102.79	111.29
18	AR	21	ASP	N-CA-C	5.18	117.12	108.99
51	C0	19	ASP	N-CA-C	-5.18	106.96	113.28
10	AJ	51	VAL	CB-CA-C	-5.18	102.61	110.95
32	CH	27	ARG	N-CA-C	-5.18	101.98	109.59
9	AI	100	ALA	N-CA-C	-5.17	106.65	113.17
30	CF	45	ASP	N-CA-C	5.17	117.09	107.99
39	DO	31	THR	N-CA-C	-5.17	102.19	110.10
9	BI	86	LEU	N-CA-C	-5.17	106.73	112.57
30	DF	61	GLY	N-CA-C	-5.17	108.55	115.32
52	D1	4	ILE	N-CA-C	5.15	120.06	109.34
37	CM	30	SER	N-CA-C	-5.15	107.06	113.55
32	DH	108	VAL	CB-CA-C	-5.14	105.74	111.35
29	CE	181	ILE	CB-CA-C	-5.14	106.37	111.30
36	CL	52	GLY	N-CA-C	-5.13	101.08	112.17
40	CP	85	VAL	N-CA-C	5.13	114.14	106.85
8	AH	55	LYS	CA-C-N	5.13	126.25	119.84
8	AH	55	LYS	C-N-CA	5.13	126.25	119.84
27	DC	103	ILE	CB-CA-C	-5.12	101.64	110.30
48	CX	40	GLU	N-CA-C	-5.12	104.78	111.02
36	DL	61	LEU	CA-C-N	5.12	125.36	119.83
36	DL	61	LEU	C-N-CA	5.12	125.36	119.83
28	CD	14	ILE	N-CA-C	-5.11	100.85	108.46
33	CI	72	THR	N-CA-C	5.10	118.04	110.39
48	CX	66	VAL	N-CA-C	5.10	115.22	110.42
29	DE	175	ILE	N-CA-C	5.10	115.68	109.30
3	BC	40	GLN	N-CA-C	-5.09	105.42	110.97
27	DC	245	THR	CA-C-N	-5.09	113.47	119.84
27	DC	245	THR	C-N-CA	-5.09	113.47	119.84
28	CD	150	GLN	N-CA-C	-5.09	104.81	111.02
44	DT	10	VAL	N-CA-C	5.09	119.93	109.34
2	AB	10	LYS	N-CA-C	-5.09	106.91	114.64
13	BM	41	ASP	N-CA-C	5.09	117.56	111.71
50	CZ	6	ILE	N-CA-C	5.08	114.89	107.37
28	DD	52	THR	N-CA-C	5.08	114.54	107.73
42	CR	98	ILE	CB-CA-C	-5.07	104.62	110.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	CY	15	ASN	N-CA-C	5.07	119.46	113.12
21	AU	9	GLU	N-CA-C	5.07	121.02	109.81
31	CG	70	LEU	N-CA-C	-5.07	105.67	111.14
39	CO	58	ILE	CB-CA-C	-5.07	105.28	111.92
39	DO	54	VAL	N-CA-C	-5.06	107.54	112.29
37	CM	131	VAL	N-CA-C	5.06	115.98	108.65
38	CN	97	ILE	CB-CA-C	-5.05	103.58	110.96
48	DX	40	GLU	N-CA-C	-5.05	105.22	111.33
38	CN	9	GLN	N-CA-C	-5.05	107.80	114.31
28	CD	3	GLY	N-CA-C	-5.05	103.86	112.64
27	CC	5	CYS	N-CA-C	5.04	117.95	110.48
15	BO	13	GLU	N-CA-C	-5.04	107.78	114.04
16	AP	70	ARG	N-CA-C	-5.04	105.91	111.71
40	CP	85	VAL	CB-CA-C	-5.04	104.98	111.53
47	CW	33	ILE	CB-CA-C	-5.04	105.60	111.94
9	AI	18	VAL	N-CA-C	5.03	114.72	106.72
27	DC	132	ARG	N-CA-C	-5.03	105.92	111.71
40	DP	100	ARG	N-CA-C	-5.03	107.20	113.19
8	BH	67	GLY	N-CA-C	-5.03	107.55	113.99
36	CL	9	ALA	N-CA-C	-5.03	103.41	110.50
12	BL	25	ALA	N-CA-C	-5.03	100.09	110.80
38	CN	16	HIS	N-CA-C	-5.03	105.71	111.14
38	DN	67	PHE	N-CA-C	-5.03	107.00	113.23
37	DM	49	ALA	N-CA-C	-5.03	106.32	112.90
44	DT	25	GLU	N-CA-C	5.02	116.75	111.28
3	AC	155	ARG	N-CA-C	-5.02	106.74	112.86
3	BC	39	ARG	N-CA-C	-5.01	107.01	113.23
4	BD	43	ARG	N-CA-C	5.01	118.24	110.17
37	CM	24	THR	N-CA-C	5.01	119.44	113.23
54	C3	58	ILE	CB-CA-C	-5.01	105.38	112.14
4	BD	63	ILE	CB-CA-C	-5.00	105.32	112.22
30	CF	172	PHE	N-CA-C	-5.00	107.46	113.21
50	CZ	44	ARG	N-CA-C	-5.00	105.93	112.23

There are no chirality outliers.

All (31) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	AD	47	LEU	Peptide
5	AE	100	GLU	Peptide
9	AI	5	TYR	Peptide
11	AK	125	LYS	Peptide

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Mol	Chain	Res	Type	Group
13	AM	111	PRO	Peptide
14	AN	25	GLU	Peptide
21	AU	38	GLU	Peptide
21	AU	7	GLU	Peptide
4	BD	25	ARG	Peptide
5	BE	101	GLY	Peptide
5	BE	103	GLY	Peptide
6	BF	54	LEU	Peptide
11	BK	124	LYS	Peptide
11	BK	125	LYS	Peptide
12	BL	22	ALA	Peptide
12	BL	33	CYS	Peptide
20	BT	6	ALA	Peptide
21	BU	34	ARG	Peptide
27	CC	231	HIS	Peptide
28	CD	132	ALA	Peptide
28	CD	151	THR	Peptide
33	CI	37	PHE	Peptide
42	CR	8	GLY	Peptide
45	CU	52	ASN	Peptide
50	CZ	14	GLY	Peptide
27	DC	195	GLY	Peptide
28	DD	151	THR	Peptide
32	DH	4	ILE	Peptide
32	DH	63	ALA	Peptide
34	DJ	129	GLU	Peptide
39	DO	94	ARG	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32995	0	16607	2054	0
1	BA	33015	0	16617	2195	0
2	AB	1705	0	1732	393	0
2	BB	1705	0	1732	331	0
3	AC	1625	0	1699	247	0
3	BC	1625	0	1699	245	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	AD	1643	0	1710	317	0
4	BD	1643	0	1710	249	0
5	AE	1106	0	1148	222	0
5	BE	1106	0	1148	219	0
6	AF	818	0	808	124	0
6	BF	818	0	808	161	0
7	AG	1182	0	1240	130	0
7	BG	1182	0	1240	177	0
8	AH	979	0	1034	167	0
8	BH	979	0	1034	130	0
9	AI	1022	0	1070	198	0
9	BI	1022	0	1070	195	0
10	AJ	787	0	828	186	0
10	BJ	787	0	828	149	0
11	AK	877	0	887	165	0
11	BK	877	0	887	140	0
12	AL	955	0	1019	96	0
12	BL	955	0	1019	122	0
13	AM	884	0	944	170	0
13	BM	884	0	944	156	0
14	AN	774	0	827	140	0
14	BN	774	0	827	144	0
15	AO	714	0	737	72	0
15	BO	714	0	737	97	0
16	AP	649	0	666	111	0
16	BP	649	0	666	91	0
17	AQ	649	0	691	122	0
17	BQ	649	0	691	106	0
18	AR	456	0	478	48	0
18	BR	456	0	478	60	0
19	AS	638	0	665	95	0
19	BS	638	0	665	102	0
20	AT	665	0	714	96	0
20	BT	665	0	714	134	0
21	AU	426	0	449	147	0
21	BU	426	0	449	128	0
22	AV	1623	0	821	88	0
22	BV	1623	0	821	47	0
23	AX	324	0	162	20	0
23	BX	346	0	173	24	0
24	AY	1419	0	1467	105	0
25	CA	62195	0	31271	2439	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	DA	62173	0	31270	3407	0
26	CB	2548	0	1292	100	0
27	CC	2083	0	2157	232	0
27	DC	2083	0	2157	220	0
28	CD	1565	0	1616	135	0
28	DD	1565	0	1616	121	0
29	CE	1552	0	1619	148	0
29	DE	1552	0	1619	173	0
30	CF	1411	0	1447	216	0
30	DF	1411	0	1447	209	0
31	CG	1323	0	1374	151	0
31	DG	1323	0	1374	184	0
32	CH	1110	0	1148	150	0
32	DH	1110	0	1148	215	0
33	CI	1032	0	1088	253	0
33	DI	1032	0	1088	187	0
34	CJ	1129	0	1162	66	0
34	DJ	1129	0	1162	104	0
35	CK	939	0	1012	79	0
35	DK	939	0	1012	83	0
36	CL	1045	0	1117	138	0
36	DL	1045	0	1117	171	0
37	CM	1074	0	1157	105	0
37	DM	1074	0	1157	134	0
38	CN	961	0	1000	99	0
38	DN	961	0	1000	134	0
39	CO	892	0	923	90	0
39	DO	892	0	923	144	0
40	CP	917	0	965	97	0
40	DP	917	0	965	108	0
41	CQ	947	0	1022	68	0
41	DQ	947	0	1022	91	0
42	CR	816	0	839	90	0
42	DR	816	0	839	109	0
43	CS	857	0	922	47	0
43	DS	857	0	922	85	0
44	CT	739	0	807	76	0
44	DT	739	0	807	119	0
45	CU	780	0	834	68	0
45	DU	780	0	834	113	0
46	CV	753	0	780	64	0
46	DV	753	0	780	75	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	CW	575	0	589	30	0
48	CX	625	0	655	44	0
48	DX	625	0	655	62	0
49	CY	509	0	543	91	0
49	DY	509	0	543	113	0
50	CZ	449	0	491	28	0
50	DZ	449	0	491	50	0
51	C0	444	0	461	36	0
51	D0	444	0	461	48	0
52	C1	410	0	440	38	0
52	D1	410	0	440	48	0
53	C2	377	0	418	30	0
53	D2	377	0	418	20	0
54	C3	504	0	574	44	0
54	D3	504	0	574	44	0
55	C4	302	0	340	21	0
55	D4	302	0	340	34	0
56	DB	2529	0	1281	161	0
57	DW	564	0	576	36	0
58	AA	72	0	0	0	0
58	BA	56	0	0	0	0
58	CA	194	0	0	0	0
58	CB	4	0	0	0	0
58	CQ	1	0	0	0	0
58	DA	166	0	0	0	0
58	DB	3	0	0	0	0
58	DL	1	0	0	0	0
58	DQ	1	0	0	0	0
59	C4	1	0	0	0	0
59	D4	1	0	0	0	0
60	AA	197	0	0	10	0
60	AN	4	0	0	0	0
60	AT	1	0	0	0	0
60	AU	1	0	0	0	0
60	BA	190	0	0	12	0
60	BL	1	0	0	0	0
60	BN	5	0	0	1	0
60	BT	1	0	0	0	0
60	BU	1	0	0	0	0
60	C2	1	0	0	0	0
60	C3	1	0	0	0	0
60	C4	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	CA	625	0	0	62	0
60	CB	13	0	0	0	0
60	CC	8	0	0	0	0
60	CD	2	0	0	0	0
60	CE	2	0	0	0	0
60	CF	1	0	0	0	0
60	CJ	1	0	0	0	0
60	CL	6	0	0	2	0
60	CN	4	0	0	0	0
60	CS	1	0	0	0	0
60	CV	1	0	0	0	0
60	D2	1	0	0	0	0
60	D3	2	0	0	0	0
60	D4	1	0	0	0	0
60	DA	622	0	0	70	0
60	DB	14	0	0	0	0
60	DC	4	0	0	0	0
60	DD	5	0	0	2	0
60	DE	2	0	0	0	0
60	DJ	1	0	0	0	0
60	DL	4	0	0	1	0
60	DN	1	0	0	0	0
60	DR	1	0	0	0	0
All	All	292354	0	195461	21524	0

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 44.

All (21524) 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)
32:DH:93:SER:OG	32:DH:121:VAL:HG12	1.46	1.15
1:BA:1053:G:H4'	1:BA:1054:C:H5'	1.29	1.11
32:DH:93:SER:OG	32:DH:121:VAL:CG1	2.03	1.06
25:DA:1153:C:OP2	60:DA:3363:HOH:O	1.78	1.01
12:BL:33:CYS:HA	12:BL:54:VAL:HA	1.44	0.99
1:BA:1362:A:OP1	1:BA:1362:A:H4'	1.61	0.98
17:AQ:14:ASP:C	17:AQ:16:MET:SD	2.46	0.98
1:BA:1234:C:HO2'	1:BA:1364:U:H6	1.00	0.98
25:CA:2127:G:H4'	25:CA:2128:G:OP1	1.63	0.98
33:DI:38:CYS:HA	33:DI:41:PHE:HB3	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1060:U:H4'	25:DA:1061:U:H5'	1.41	0.98
25:CA:416:U:C5	25:CA:417:C:C5	2.52	0.97
25:DA:731:C:OP2	60:DA:3697:HOH:O	1.81	0.97
1:BA:1053:G:C4'	1:BA:1054:C:H5'	1.94	0.96
25:CA:761:A:OP1	60:CA:3700:HOH:O	1.84	0.95
25:CA:2127:G:H2'	25:CA:2128:G:C8	2.00	0.95
25:CA:2553:G:H5"	25:CA:2554:U:OP2	1.65	0.95
4:BD:25:ARG:HG3	4:BD:26:ALA:N	1.80	0.95
42:CR:42:ALA:HA	42:CR:46:GLU:HB2	1.45	0.95
25:CA:1779:U:H5	25:CA:1784:A:N7	1.63	0.94
32:CH:31:VAL:HB	32:CH:32:PRO:HD2	1.45	0.94
25:CA:783:A:OP2	60:CA:3314:HOH:O	1.84	0.94
25:CA:999:U:OP2	60:CA:3360:HOH:O	1.82	0.94
1:AA:1142:G:C2	1:AA:1143:G:H1'	2.03	0.94
25:DA:1314:C:OP1	60:DA:3770:HOH:O	1.84	0.94
21:AU:19:LYS:HA	21:AU:19:LYS:CE	1.98	0.94
33:CI:21:PRO:HB2	33:CI:22:PRO:HD3	1.49	0.94
1:AA:1313:U:OP2	19:AS:5:LYS:HB3	1.68	0.93
2:AB:49:PHE:HA	2:AB:52:ALA:HB3	1.49	0.93
1:AA:255:G:O6	1:AA:266:G:O6	1.85	0.93
25:CA:1131:G:OP1	34:CJ:82:GLY:HA2	1.68	0.93
25:DA:219:A:N7	60:DA:3223:HOH:O	2.01	0.93
1:BA:1273:C:H2'	1:BA:1274:A:O4'	1.69	0.93
1:BA:1275:A:C2'	1:BA:1276:G:H5'	1.98	0.92
37:CM:57:VAL:O	37:CM:60:GLN:HG3	1.65	0.92
1:AA:1124:G:H3'	1:AA:1145:A:N6	1.83	0.92
2:AB:207:ARG:C	2:AB:211:LEU:HD13	1.94	0.92
17:AQ:7:LEU:HD22	17:AQ:72:TRP:CZ3	2.04	0.92
1:BA:1062:U:H2'	1:BA:1063:C:C6	2.04	0.92
1:BA:1151:A:C2	1:BA:1152:A:C5	2.57	0.92
25:DA:1746:A:H2'	25:DA:1747:U:C6	2.04	0.92
42:DR:39:LEU:HA	42:DR:49:ILE:HG21	1.50	0.92
25:DA:161:A:H3'	25:DA:162:U:H5"	1.50	0.92
1:AA:598:U:H4'	8:AH:85:TYR:CD1	2.05	0.92
25:CA:933:A:H5'	25:CA:934:U:OP2	1.70	0.92
1:AA:1074:G:O2'	2:AB:101:THR:HG21	1.70	0.92
25:CA:2473:U:C5	25:CA:2474:U:C5	2.57	0.92
13:BM:53:ASP:HA	13:BM:56:ARG:HB3	1.50	0.92
25:DA:2335:A:N7	25:DA:2337:G:C5	2.38	0.91
29:DE:108:ILE:HD11	29:DE:180:LEU:HB3	1.49	0.91
25:CA:981:A:OP1	60:CA:3598:HOH:O	1.85	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1179:G:C5	25:CA:1180:U:H1'	2.04	0.91
32:DH:31:VAL:HB	32:DH:32:PRO:HD2	1.53	0.91
4:AD:150:LYS:HA	4:AD:177:MET:HE1	1.52	0.91
25:CA:2346:A:H3'	25:CA:2347:C:C5'	1.99	0.91
31:CG:8:VAL:CG1	31:CG:49:LEU:HB2	1.99	0.91
2:AB:82:ALA:HA	2:AB:85:SER:OG	1.68	0.91
1:BA:484:G:H4'	1:BA:485:U:O5'	1.68	0.91
4:AD:169:TRP:NE1	4:AD:185:PRO:HG3	1.86	0.91
12:BL:24:GLU:O	12:BL:25:ALA:C	2.14	0.91
37:DM:53:MET:HE1	37:DM:103:TYR:CG	2.06	0.91
38:DN:103:ARG:HB2	38:DN:110:MET:HE3	1.51	0.90
25:DA:958:U:H2'	56:DB:89:U:C6	2.04	0.90
25:CA:1287:A:H5'	38:CN:103:ARG:HD2	1.50	0.90
2:BB:209:VAL:O	2:BB:213:LEU:HB2	1.72	0.90
32:DH:59:ALA:O	32:DH:62:LEU:HD12	1.70	0.90
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.69	0.90
52:D1:12:SER:HB2	52:D1:48:TYR:CE1	2.06	0.90
25:CA:1085:A:H2'	25:CA:1086:A:C2	2.07	0.89
25:DA:1993:U:H4'	28:DD:133:THR:HG21	1.52	0.89
1:AA:1123:U:H4'	10:AJ:39:PRO:HD2	1.54	0.89
34:CJ:80:HIS:HB3	34:CJ:81:ILE:HG22	1.54	0.89
35:DK:76:VAL:HG12	40:DP:72:VAL:CG2	2.03	0.89
1:AA:1539:C:H5"	21:AU:17:ARG:HG3	1.55	0.89
25:DA:860:U:C1'	25:DA:2268:A:H5'	2.02	0.89
25:DA:1315:C:OP2	60:DA:3770:HOH:O	1.91	0.89
1:AA:1538:C:C2'	1:AA:1539:C:H5'	2.03	0.88
16:BP:72:ALA:HA	16:BP:75:ILE:HD12	1.55	0.88
25:DA:1494:A:C2	25:DA:1495:A:C4	2.62	0.88
1:BA:1522:U:O2'	1:BA:1523:G:H5'	1.74	0.88
3:BC:149:LYS:HG3	3:BC:200:TRP:CE3	2.09	0.88
32:DH:94:ILE:HB	32:DH:122:LEU:HB2	1.56	0.88
1:BA:518:C:H2'	1:BA:530:G:C8	2.08	0.88
1:BA:1001:C:H2'	1:BA:1002:G:C8	2.08	0.88
25:CA:999:U:P	60:CA:3360:HOH:O	2.29	0.88
25:DA:2286:G:H4'	25:DA:2287:A:O5'	1.72	0.88
17:BQ:13:SER:HB3	17:BQ:21:VAL:CG1	2.02	0.88
42:CR:49:ILE:HG22	42:CR:53:PHE:N	1.87	0.88
5:BE:148:SER:HB2	5:BE:151:MET:CG	2.04	0.87
25:CA:404:A:H1'	25:CA:405:U:OP2	1.74	0.87
40:CP:92:ARG:O	40:CP:93:LYS:HB2	1.71	0.87
43:CS:43:ALA:O	43:CS:47:VAL:HG12	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:131:A:H2'	1:BA:132:C:C6	2.10	0.87
25:DA:988:A:O5'	50:DZ:11:SER:HB2	1.73	0.87
1:BA:1277:C:O2'	1:BA:1279:G:H1'	1.74	0.87
25:DA:1590:A:H2'	25:DA:1591:A:C8	2.09	0.87
25:CA:790:U:O2'	25:CA:791:C:OP2	1.93	0.87
3:BC:129:PHE:CE2	3:BC:130:ARG:HD3	2.10	0.87
25:CA:1187:G:H5"	42:CR:83:TYR:CE2	2.10	0.87
34:DJ:31:GLU:HG3	34:DJ:142:ILE:HD11	1.56	0.87
11:AK:51:PHE:CB	11:AK:55:ARG:HB3	2.03	0.86
25:CA:721:A:H2'	25:CA:722:A:C8	2.09	0.86
11:AK:69:CYS:O	11:AK:72:ALA:HB3	1.73	0.86
33:CI:107:GLU:HA	33:CI:110:GLN:HB3	1.58	0.86
33:DI:16:MET:SD	33:DI:19:PRO:HB3	2.15	0.86
8:AH:74:ILE:CD1	8:AH:128:VAL:HG22	2.04	0.86
37:CM:111:GLU:CD	37:CM:111:GLU:C	2.43	0.86
1:BA:1166:G:C6	1:BA:1168:U:H5"	2.10	0.86
25:CA:2711:A:P	60:CA:3551:HOH:O	2.33	0.86
25:DA:2491:U:H5"	25:DA:2570:G:H5"	1.57	0.86
4:AD:36:ALA:HA	4:AD:41:GLY:HA3	1.57	0.86
15:AO:27:GLN:O	15:AO:30:LEU:HD12	1.76	0.86
36:DL:91:ASP:HB3	36:DL:94:THR:HB	1.56	0.86
38:DN:77:ALA:O	38:DN:79:LEU:O	1.93	0.86
16:BP:61:VAL:CG2	16:BP:67:ILE:HD11	2.06	0.86
25:CA:2498:C:OP2	60:CA:3692:HOH:O	1.94	0.86
32:DH:62:LEU:HD13	32:DH:63:ALA:N	1.88	0.86
25:CA:1730:C:OP1	25:CA:1730:C:H4'	1.75	0.85
2:AB:105:THR:O	2:AB:106:VAL:HB	1.75	0.85
1:BA:1062:U:H2'	1:BA:1063:C:C5	2.10	0.85
25:DA:265:A:H4'	25:DA:266:G:OP1	1.75	0.85
32:CH:117:LEU:HD21	32:CH:121:VAL:HA	1.58	0.85
25:DA:2223:G:H2'	25:DA:2224:G:H5'	1.56	0.85
34:CJ:81:ILE:HG12	34:CJ:82:GLY:N	1.91	0.85
25:DA:2352:A:H2'	25:DA:2353:G:O4'	1.77	0.85
1:AA:142:G:C4	1:AA:143:A:C8	2.63	0.85
1:BA:1221:G:H4'	19:BS:76:THR:CG2	2.06	0.85
25:CA:278:A:C2	25:CA:362:A:C8	2.63	0.85
25:CA:1854:A:H2'	25:CA:1855:U:H5'	1.57	0.85
25:DA:2783:U:H2'	25:DA:2784:U:C6	2.12	0.85
4:BD:190:LEU:O	4:BD:191:SER:HB3	1.74	0.85
1:AA:1181:G:O2'	1:AA:1182:G:C8	2.29	0.85
11:AK:16:SER:HA	11:AK:78:ILE:HA	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:8:A:C6	4:BD:205:LYS:HB3	2.12	0.85
42:DR:46:GLU:CD	42:DR:46:GLU:C	2.44	0.85
11:AK:80:ASN:HB3	11:AK:105:ARG:HB3	1.58	0.85
25:CA:1060:U:C4'	25:CA:1062:G:H5'	2.07	0.85
25:DA:2335:A:OP1	39:DO:13:ARG:HD2	1.77	0.85
1:BA:1275:A:H2'	1:BA:1276:G:H5'	1.58	0.84
25:CA:2786:U:O2'	25:CA:2787:C:H5'	1.76	0.84
25:DA:214:G:H1'	25:DA:217:A:H5'	1.59	0.84
25:DA:2407:A:C4	25:DA:2408:U:C5	2.65	0.84
1:BA:308:C:H2'	1:BA:309:A:H8	1.41	0.84
25:DA:2164:C:H2'	25:DA:2165:C:C6	2.11	0.84
13:AM:19:THR:HA	13:AM:24:VAL:HG23	1.59	0.84
25:CA:1073:A:H3'	25:CA:1074:G:C5'	2.07	0.84
25:DA:947:A:O2'	25:DA:984:A:H2	1.61	0.84
25:DA:1468:U:O2	25:DA:1525:A:C2	2.30	0.84
1:AA:554:A:H5'	12:AL:25:ALA:HB1	1.58	0.84
25:CA:2307:G:N2	25:CA:2311:A:H2'	1.93	0.84
42:DR:68:ARG:HD3	42:DR:92:TRP:CE2	2.13	0.84
1:AA:554:A:H5'	12:AL:25:ALA:CB	2.07	0.84
4:AD:169:TRP:CE2	4:AD:185:PRO:HG3	2.11	0.84
1:AA:657:U:O2	15:AO:21:THR:HG23	1.78	0.84
25:DA:528:A:H8	25:DA:528:A:H3'	1.43	0.84
10:AJ:29:ALA:HA	10:AJ:32:THR:HG22	1.58	0.84
8:AH:52:GLY:HA3	8:AH:56:PRO:HA	1.57	0.84
37:DM:21:ALA:HB1	37:DM:100:LYS:HG2	1.57	0.84
43:DS:84:ARG:HB2	43:DS:96:ILE:CG1	2.08	0.84
21:AU:13:VAL:HG13	21:AU:15:LEU:CD2	2.08	0.84
42:CR:39:LEU:HA	42:CR:49:ILE:CG2	2.06	0.84
52:C1:18:HIS:CD2	52:C1:40:PRO:HD2	2.13	0.84
9:BI:49:GLN:HA	9:BI:52:GLU:CD	2.02	0.84
25:CA:2757:A:N1	31:CG:66:THR:HG21	1.92	0.84
32:CH:27:ARG:O	32:CH:28:ASN:HB2	1.76	0.84
36:DL:85:VAL:O	36:DL:86:GLU:HB3	1.78	0.84
25:CA:2602:A:H4'	25:CA:2603:G:OP2	1.78	0.83
32:CH:61:VAL:O	32:CH:64:ALA:HB3	1.77	0.83
25:DA:1435:G:C2'	25:DA:1436:G:H5'	2.08	0.83
1:AA:1031:C:H4'	1:AA:1032:G:H5"	1.58	0.83
25:DA:2711:A:OP2	60:DA:3554:HOH:O	1.96	0.83
3:AC:52:SER:O	3:AC:53:ARG:HB2	1.76	0.83
1:BA:1040:U:H2'	1:BA:1041:G:C8	2.12	0.83
25:DA:1458:U:H4'	25:DA:1459:G:O5'	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:33:ARG:HG2	39:DO:34:HIS:CD2	2.12	0.83
25:CA:1167:C:H2'	25:CA:1168:G:H5"	1.60	0.83
25:DA:1605:C:H2'	25:DA:1606:C:H5'	1.58	0.83
1:AA:459:A:H2'	1:AA:460:A:C1'	2.08	0.83
25:DA:1069:A:N1	25:DA:1073:A:N7	2.26	0.83
25:CA:372:G:O2'	48:CX:53:LYS:HE2	1.78	0.83
25:DA:1602:U:O4	60:DA:3719:HOH:O	1.97	0.83
1:AA:459:A:H2'	1:AA:460:A:O4'	1.78	0.83
11:AK:22:ILE:HD11	11:AK:85:VAL:HG13	1.58	0.83
30:CF:24:VAL:O	30:CF:27:VAL:HG12	1.78	0.83
1:BA:765:G:H5"	1:BA:766:A:OP1	1.79	0.83
1:BA:1124:G:C2	1:BA:1127:G:N2	2.46	0.83
32:DH:31:VAL:O	32:DH:32:PRO:C	2.21	0.83
42:DR:39:LEU:HA	42:DR:49:ILE:CG2	2.08	0.83
25:CA:2211:A:H1'	25:CA:2212:A:OP1	1.79	0.83
5:BE:68:ARG:O	5:BE:69:ASN:HB2	1.78	0.82
42:CR:49:ILE:HB	42:CR:52:PRO:HA	1.60	0.82
1:AA:624:C:H4'	16:AP:11:ALA:HB2	1.59	0.82
12:AL:23:LEU:O	12:AL:25:ALA:N	2.12	0.82
25:DA:1124:G:H1'	55:D4:38:GLY:OXT	1.80	0.82
3:AC:139:ASN:HA	3:AC:142:ARG:CB	2.10	0.82
28:DD:104:VAL:O	28:DD:105:LYS:CB	2.26	0.82
37:DM:136:MET:HE1	46:DV:57:TYR:CD2	2.15	0.82
51:C0:54:ILE:HG22	51:C0:55:ALA:N	1.91	0.82
25:DA:1943:U:H4'	25:DA:1944:U:OP1	1.79	0.82
25:DA:2127:G:H4'	25:DA:2128:G:OP1	1.79	0.82
36:DL:119:PRO:HB3	36:DL:139:GLY:HA3	1.59	0.82
1:AA:410:G:C5'	1:AA:411:A:OP1	2.28	0.82
5:BE:14:LEU:CB	5:BE:36:THR:HG22	2.09	0.82
33:CI:79:LEU:HD13	33:CI:135:MET:SD	2.19	0.82
39:DO:51:ALA:HB3	39:DO:78:VAL:HG22	1.61	0.82
1:AA:1083:U:H5	1:AA:1084:G:C5	1.98	0.82
13:AM:21:ILE:HB	13:AM:24:VAL:CG2	2.08	0.82
21:AU:36:PHE:HA	21:AU:39:LYS:CE	2.10	0.82
5:BE:100:GLU:O	5:BE:102:THR:N	2.13	0.82
25:CA:2392:A:C2	36:CL:55:MET:HE3	2.15	0.82
25:DA:319:G:C2'	25:DA:320:A:O5'	2.28	0.82
1:BA:86:G:H1'	1:BA:87:C:O4'	1.80	0.82
41:CQ:23:TYR:O	41:CQ:24:TYR:CB	2.28	0.82
25:DA:2792:A:C2	25:DA:2793:C:C5	2.66	0.82
1:BA:1261:A:C2	1:BA:1262:C:C5	2.68	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1013:C:OP2	60:DA:3608:HOH:O	1.98	0.82
25:DA:2879:A:H4'	25:DA:2880:C:OP1	1.77	0.82
1:AA:511:C:C2	1:AA:512:U:C5	2.68	0.81
1:BA:188:C:H2'	1:BA:188:C:O2	1.80	0.81
1:BA:783:C:H2'	1:BA:784:A:H5'	1.62	0.81
30:CF:118:ALA:HB1	30:CF:166:ARG:HD2	1.60	0.81
25:DA:1779:U:C5	25:DA:1784:A:N7	2.48	0.81
1:AA:1397:C:O2'	1:AA:1398:A:OP1	1.96	0.81
5:AE:136:VAL:O	5:AE:137:ARG:CB	2.27	0.81
1:BA:1108:G:H5"	3:BC:175:HIS:CD2	2.15	0.81
25:CA:1838:C:C2	25:CA:1898:U:C5	2.68	0.81
41:CQ:78:PHE:CZ	41:CQ:82:LEU:HD11	2.15	0.81
22:AV:52:G:C2	22:AV:53:G:C8	2.68	0.81
25:CA:804:A:H5"	25:CA:805:G:OP1	1.80	0.81
25:CA:2551:C:OP1	60:CA:3434:HOH:O	1.97	0.81
25:DA:1551:A:H2'	25:DA:1552:A:H5'	1.61	0.81
25:DA:2585:U:O2'	25:DA:2586:U:H5'	1.80	0.81
42:DR:49:ILE:HD12	42:DR:52:PRO:HA	1.62	0.81
55:D4:17:VAL:HB	55:D4:26:ILE:HD11	1.62	0.81
33:CI:75:ALA:HB1	33:CI:128:ILE:CG2	2.11	0.81
25:DA:528:A:H3'	25:DA:528:A:C8	2.16	0.81
1:AA:79:G:H1	1:AA:90:C:H42	1.28	0.81
1:BA:71:A:C2	1:BA:100:G:C8	2.67	0.81
3:BC:22:PHE:CD2	3:BC:23:ALA:N	2.49	0.81
25:CA:1277:G:H5'	38:CN:20:MET:HE2	1.60	0.81
28:CD:181:ASP:OD2	28:CD:184:ARG:HD3	1.80	0.81
25:CA:1462:C:H2'	25:CA:1463:C:H5'	1.63	0.81
25:DA:1539:U:O2	25:DA:1540:G:C8	2.34	0.81
25:DA:2326:C:H1'	25:DA:2327:A:OP1	1.80	0.81
25:DA:2666:C:C5	25:DA:2667:C:C5	2.68	0.81
25:CA:2007:U:C2'	25:CA:2008:C:H5'	2.10	0.81
33:DI:124:MET:HA	33:DI:127:SER:HB3	1.61	0.81
14:AN:41:ARG:HB2	14:AN:42:TRP:CZ3	2.16	0.81
1:BA:1053:G:N7	1:BA:1199:U:H3'	1.93	0.81
32:DH:9:VAL:HG22	32:DH:35:LYS:HE2	1.63	0.81
1:BA:965:U:O2'	1:BA:966:G:OP2	1.97	0.81
10:BJ:57:VAL:O	10:BJ:58:ASN:HB2	1.80	0.81
25:DA:319:G:H2'	25:DA:320:A:O5'	1.81	0.81
25:DA:2143:C:H2'	25:DA:2144:G:O4'	1.79	0.81
1:BA:1348:U:H4'	9:BI:121:ARG:HG3	1.63	0.81
25:DA:1333:G:C2	25:DA:1334:G:C8	2.69	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1866:A:C2	25:DA:1876:A:C5	2.68	0.81
11:BK:51:PHE:CZ	11:BK:61:ALA:HA	2.16	0.80
17:BQ:45:VAL:HG21	17:BQ:60:ILE:HD11	1.63	0.80
25:CA:1603:A:OP1	60:CA:3414:HOH:O	1.99	0.80
1:BA:1239:A:H4'	1:BA:1240:U:OP1	1.81	0.80
5:BE:148:SER:HB2	5:BE:151:MET:HG3	1.62	0.80
25:CA:1993:U:H4'	28:CD:133:THR:HG21	1.63	0.80
25:CA:2346:A:H3'	25:CA:2347:C:H5'	1.64	0.80
25:DA:685:A:H4'	25:DA:686:U:O5'	1.79	0.80
1:AA:181:A:N6	1:AA:195:A:C8	2.49	0.80
5:BE:101:GLY:O	5:BE:103:GLY:N	2.14	0.80
25:CA:1269:A:OP2	60:CA:3382:HOH:O	1.99	0.80
37:CM:16:ARG:HH11	37:CM:16:ARG:HG2	1.46	0.80
1:AA:204:G:H3'	1:AA:205:A:C5'	2.10	0.80
11:BK:14:GLN:HA	11:BK:76:TYR:HA	1.63	0.80
27:CC:164:VAL:HG22	27:CC:172:THR:O	1.81	0.80
2:AB:212:TYR:O	2:AB:216:VAL:HG23	1.80	0.80
8:AH:58:LEU:HD13	8:AH:59:GLU:N	1.97	0.80
1:BA:532:A:N6	1:BA:1206:G:O2'	2.15	0.80
5:BE:95:MET:CE	5:BE:114:LEU:HD21	2.11	0.80
31:DG:53:PRO:HG3	31:DG:61:TRP:CE2	2.15	0.80
1:AA:277:C:H2'	1:AA:278:G:O5'	1.82	0.80
21:AU:9:GLU:CD	21:AU:10:PRO:HD3	2.06	0.80
32:CH:125:THR:HA	32:CH:146:VAL:HB	1.63	0.80
3:AC:26:LYS:HD2	3:AC:26:LYS:H	1.47	0.80
1:BA:738:C:H2'	1:BA:739:C:H6	1.47	0.80
1:BA:1225:A:H2'	1:BA:1226:C:C5	2.17	0.80
20:BT:35:TYR:CE1	20:BT:39:GLU:HB2	2.17	0.80
31:CG:37:ASN:O	31:CG:38:ASP:CB	2.30	0.80
25:DA:1401:G:C5	25:DA:1402:U:C5	2.70	0.80
25:DA:2340:A:H2'	25:DA:2341:G:C8	2.17	0.80
2:AB:162:VAL:HG11	2:AB:182:VAL:HG13	1.63	0.80
3:AC:76:ILE:HA	3:AC:83:VAL:HG23	1.64	0.80
13:AM:28:ARG:CZ	13:AM:62:PHE:HB2	2.12	0.80
25:DA:1131:G:OP1	34:DJ:82:GLY:HA2	1.82	0.80
27:DC:242:HIS:O	27:DC:244:VAL:HG13	1.82	0.80
32:DH:53:GLU:O	32:DH:57:LYS:HB3	1.82	0.80
1:AA:17:U:H2'	1:AA:18:C:C6	2.17	0.80
1:AA:513:C:C2'	1:AA:514:C:O5'	2.30	0.80
2:AB:98:GLY:O	2:AB:102:ASN:HB2	1.81	0.80
2:AB:146:SER:O	2:AB:147:LEU:HG	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:71:ARG:HB3	3:BC:74:ILE:HG22	1.64	0.80
25:CA:2427:C:H5"	25:CA:2428:G:OP1	1.82	0.80
25:DA:1444:G:H2'	25:DA:1445:G:C8	2.17	0.80
25:DA:2262:U:O2'	25:DA:2263:C:H5'	1.82	0.80
1:BA:1181:G:O2'	1:BA:1182:G:N7	2.15	0.79
42:DR:51:VAL:HB	42:DR:52:PRO:HD2	1.64	0.79
1:AA:481:G:H5"	1:AA:481:G:C8	2.17	0.79
1:AA:573:A:OP2	60:AA:1737:HOH:O	2.00	0.79
1:AA:587:G:H4'	8:AH:3:GLN:HA	1.65	0.79
2:AB:46:VAL:HB	2:AB:47:PRO:HD3	1.64	0.79
1:BA:154:U:C2	1:BA:168:G:N2	2.50	0.79
37:CM:16:ARG:HH11	37:CM:16:ARG:CG	1.95	0.79
25:DA:2022:U:OP1	60:DA:3668:HOH:O	2.00	0.79
31:DG:112:VAL:HG11	31:DG:150:TYR:CE2	2.17	0.79
32:DH:117:LEU:HD21	32:DH:121:VAL:HA	1.62	0.79
1:AA:91:U:H2'	1:AA:92:U:O4'	1.82	0.79
10:AJ:10:LEU:HB2	10:AJ:72:ARG:HB2	1.63	0.79
1:BA:1540:U:O3'	21:BU:17:ARG:CZ	2.31	0.79
4:BD:160:LEU:HD22	4:BD:161:ALA:N	1.97	0.79
26:CB:57:A:H4'	30:CF:26:GLN:NE2	1.96	0.79
49:DY:26:PHE:CE2	49:DY:30:MET:HG2	2.17	0.79
1:AA:206:C:H2'	1:AA:207:C:O4'	1.80	0.79
2:AB:50:ASN:O	2:AB:51:GLU:HB2	1.80	0.79
2:AB:216:VAL:O	2:AB:219:THR:HG23	1.82	0.79
5:AE:89:THR:HG22	5:AE:90:GLY:N	1.96	0.79
1:BA:869:G:O6	60:BA:1819:HOH:O	1.99	0.79
12:BL:33:CYS:HB3	12:BL:54:VAL:HG22	1.63	0.79
25:CA:1410:G:N7	60:CA:3628:HOH:O	2.14	0.79
25:DA:2783:U:H2'	25:DA:2784:U:H6	1.47	0.79
1:BA:841:C:H3'	1:BA:843:U:H5"	1.64	0.79
33:CI:15:GLY:HA2	33:CI:50:LYS:HB3	1.64	0.79
25:DA:984:A:H5"	25:DA:985:C:OP2	1.82	0.79
36:DL:81:ASP:HA	36:DL:84:LYS:HG3	1.63	0.79
22:AV:18:G:H2'	22:AV:58:A:C2	2.18	0.79
25:CA:2305:U:N3	30:CF:150:GLY:HA3	1.98	0.79
25:CA:2800:A:H3'	25:CA:2801:G:C5'	2.13	0.79
33:CI:96:LYS:HG3	33:CI:138:VAL:HG22	1.65	0.79
25:DA:1587:G:C5	25:DA:1588:G:N7	2.50	0.79
25:DA:1799:G:OP1	27:DC:257:ARG:HD2	1.81	0.79
1:AA:143:A:N3	1:AA:143:A:H2'	1.97	0.79
1:AA:1425:U:O2'	1:AA:1426:G:H5'	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:169:TRP:HB3	4:AD:183:ARG:NH1	1.97	0.79
20:AT:24:ARG:O	20:AT:28:ARG:HG3	1.82	0.79
5:BE:103:GLY:HA3	5:BE:121:ASN:HA	1.63	0.79
25:CA:323:C:H2'	29:CE:163:ASN:ND2	1.97	0.79
25:CA:960:A:H5"	25:CA:961:C:OP2	1.82	0.79
25:CA:1179:G:N7	25:CA:1180:U:C1'	2.45	0.79
29:CE:189:THR:HG22	29:CE:192:ALA:H	1.46	0.79
25:DA:1084:A:H2'	25:DA:1085:A:C8	2.18	0.79
32:DH:59:ALA:O	32:DH:62:LEU:CD1	2.30	0.79
37:DM:108:VAL:HG12	37:DM:109:PRO:HD2	1.65	0.79
43:DS:20:VAL:HG21	43:DS:43:ALA:CB	2.13	0.79
1:AA:1538:C:H2'	1:AA:1539:C:H5'	1.63	0.79
2:AB:65:LYS:N	2:AB:65:LYS:HD3	1.96	0.79
2:AB:103:TRP:CZ3	2:AB:157:PRO:HD3	2.17	0.79
4:AD:16:THR:HG22	4:AD:17:ASP:N	1.97	0.79
4:BD:79:ALA:HA	4:BD:85:THR:OG1	1.82	0.79
25:DA:1342:A:OP2	60:DA:3719:HOH:O	2.00	0.79
1:AA:1285:A:H4'	1:AA:1286:U:N3	1.97	0.79
1:AA:1330:U:H2'	1:AA:1331:G:H5'	1.62	0.79
2:AB:63:LYS:HE2	2:AB:63:LYS:HA	1.64	0.79
21:AU:35:GLU:O	21:AU:36:PHE:HB2	1.83	0.79
1:BA:463:U:H5'	1:BA:464:U:OP2	1.82	0.79
2:BB:98:GLY:HA2	2:BB:101:THR:HG23	1.63	0.79
56:DB:33:G:O2'	56:DB:34:A:O5'	2.00	0.79
32:DH:40:THR:O	32:DH:42:LYS:N	2.15	0.79
42:DR:68:ARG:HD3	42:DR:92:TRP:CZ2	2.18	0.79
1:AA:4:U:OP1	1:AA:5:U:O4	2.01	0.79
4:AD:31:CYS:O	4:AD:32:LYS:HB2	1.83	0.79
5:AE:102:THR:HG22	5:AE:103:GLY:N	1.97	0.79
1:BA:922:G:H4'	5:BE:24:VAL:HA	1.65	0.79
1:BA:1181:G:O2'	1:BA:1182:G:C8	2.35	0.79
25:CA:2152:G:C5	25:CA:2153:C:C5	2.70	0.79
27:DC:65:ASP:OD2	27:DC:101:ARG:HD3	1.83	0.79
35:DK:118:LEU:O	35:DK:119:ALA:CB	2.31	0.79
2:AB:150:ILE:HG23	2:AB:151:LYS:H	1.47	0.78
25:CA:1179:G:N7	25:CA:1180:U:H1'	1.99	0.78
32:CH:116:ARG:HD2	32:CH:133:GLN:HG2	1.64	0.78
31:DG:29:ASN:HB3	31:DG:78:VAL:HA	1.65	0.78
1:AA:1159:U:O2	1:AA:1182:G:C2	2.35	0.78
10:AJ:51:VAL:O	10:AJ:62:ARG:HA	1.84	0.78
25:CA:752:A:N6	25:CA:2609:U:H3	1.80	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1854:A:C2'	25:CA:1855:U:H5'	2.11	0.78
25:DA:2162:G:H4'	25:DA:2163:A:OP1	1.83	0.78
25:DA:2793:C:H2'	25:DA:2794:C:C6	2.18	0.78
36:DL:79:LEU:H	36:DL:113:ALA:HB3	1.47	0.78
16:BP:18:GLN:HG3	16:BP:35:ARG:HD2	1.66	0.78
35:CK:118:LEU:O	35:CK:119:ALA:HB3	1.81	0.78
11:AK:51:PHE:HB3	11:AK:55:ARG:HB3	1.65	0.78
11:AK:75:GLU:N	11:AK:75:GLU:CD	2.41	0.78
2:BB:98:GLY:O	2:BB:100:LEU:N	2.17	0.78
12:BL:109:ARG:NH2	12:BL:116:TYR:CE2	2.51	0.78
25:CA:1084:A:H3'	25:CA:1085:A:C8	2.18	0.78
25:CA:1203:U:O4	25:CA:1204:A:C6	2.36	0.78
40:CP:14:GLN:O	40:CP:15:ASP:HB3	1.82	0.78
25:DA:1720:U:H2'	25:DA:1721:G:O4'	1.82	0.78
25:DA:2135:A:C2	25:DA:2136:G:H1'	2.18	0.78
1:AA:376:G:N3	1:AA:389:A:C2	2.52	0.78
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.48	0.78
4:AD:61:ARG:HG2	4:AD:71:PHE:CD2	2.18	0.78
1:BA:1302:C:C5	13:BM:16:ILE:HD13	2.18	0.78
2:BB:112:ARG:CZ	2:BB:116:LEU:HD11	2.13	0.78
25:CA:2498:C:P	60:CA:3692:HOH:O	2.40	0.78
42:CR:86:GLN:HG3	42:CR:87:GLN:N	1.97	0.78
25:DA:761:A:OP1	60:DA:3697:HOH:O	2.00	0.78
25:DA:1277:G:H5'	38:DN:20:MET:CE	2.12	0.78
31:DG:42:VAL:HG23	31:DG:50:THR:O	1.83	0.78
38:CN:49:GLU:OE2	38:CN:95:THR:HG22	1.83	0.78
25:DA:2531:A:H4'	31:DG:156:TYR:CE1	2.18	0.78
50:DZ:23:LEU:HD11	50:DZ:53:MET:HE1	1.66	0.78
2:AB:34:ARG:HA	2:AB:34:ARG:NE	1.98	0.78
10:BJ:6:ILE:HD12	10:BJ:76:ILE:HB	1.66	0.78
25:CA:790:U:O2'	25:CA:791:C:P	2.42	0.78
25:CA:1779:U:C5	25:CA:1784:A:N7	2.51	0.78
25:DA:1070:A:H2'	25:DA:1097:U:OP1	1.84	0.78
5:AE:114:LEU:HG	5:AE:119:VAL:HG21	1.64	0.78
1:BA:738:C:H2'	1:BA:739:C:C6	2.19	0.78
9:BI:29:ILE:HA	9:BI:64:ILE:O	1.82	0.78
25:DA:2125:G:H5'	25:DA:2126:A:OP2	1.84	0.78
27:DC:140:VAL:HG12	27:DC:190:THR:O	1.84	0.78
24:AY:76:SER:HB3	24:AY:77:PRO:HD3	1.65	0.78
1:BA:501:C:H1'	1:BA:549:C:H1'	1.66	0.78
25:CA:219:A:N7	60:CA:3224:HOH:O	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1567:G:C8	27:CC:82:TYR:CE1	2.72	0.78
25:DA:1097:U:C5	25:DA:1098:A:H1'	2.19	0.78
33:DI:68:PHE:N	33:DI:68:PHE:HD1	1.82	0.78
2:AB:81:ASP:O	2:AB:84:LEU:N	2.17	0.78
9:AI:29:ILE:HD11	9:AI:37:TYR:CG	2.19	0.78
25:CA:587:C:OP2	36:CL:21:ARG:NH1	2.17	0.78
25:CA:946:C:OP2	60:CA:3348:HOH:O	2.01	0.78
25:CA:1474:U:C4	25:CA:1475:G:N2	2.52	0.78
25:DA:1866:A:N1	25:DA:1876:A:C8	2.52	0.78
8:BH:77:VAL:HG11	8:BH:124:ILE:HD11	1.65	0.77
25:CA:1417:C:H2'	25:CA:1418:G:O4'	1.84	0.77
25:CA:2790:U:H5'	25:CA:2893:A:N7	1.99	0.77
32:CH:82:SER:HB2	32:CH:94:ILE:HD11	1.66	0.77
41:DQ:35:PHE:CZ	41:DQ:39:ILE:HD11	2.20	0.77
1:AA:1271:A:H5'	1:AA:1314:C:H5'	1.66	0.77
1:AA:1493:A:H8	1:AA:1493:A:OP2	1.67	0.77
6:BF:47:LEU:HB2	6:BF:55:HIS:HA	1.66	0.77
40:CP:92:ARG:O	40:CP:93:LYS:CB	2.30	0.77
25:DA:228:C:H4'	25:DA:229:C:H5"	1.65	0.77
25:DA:277:G:H1'	25:DA:361:G:O6	1.84	0.77
45:DU:11:ILE:HG21	45:DU:79:ALA:HB2	1.64	0.77
1:AA:1060:U:H4'	10:AJ:53:ILE:HG22	1.64	0.77
8:AH:1:SER:C	8:AH:3:GLN:N	2.39	0.77
11:AK:30:ILE:HB	11:AK:45:THR:HG22	1.65	0.77
16:AP:75:ILE:O	16:AP:78:VAL:HG12	1.83	0.77
17:AQ:47:ASP:OD1	17:AQ:50:ASN:HA	1.84	0.77
1:BA:1006:G:H2'	1:BA:1007:U:C6	2.19	0.77
5:BE:152:VAL:HG23	5:BE:156:ARG:CB	2.13	0.77
11:BK:126:ARG:H	21:BU:33:ARG:NH2	1.81	0.77
42:CR:46:GLU:OE1	42:CR:46:GLU:O	2.01	0.77
25:DA:585:G:N7	41:DQ:5:ARG:NH1	2.32	0.77
25:DA:1450:G:C6	25:DA:1451:C:N4	2.52	0.77
25:DA:1588:G:C6	25:DA:1589:U:O4	2.37	0.77
25:DA:2822:G:O6	38:DN:2:ARG:HG2	1.84	0.77
27:DC:140:VAL:CG1	27:DC:190:THR:O	2.32	0.77
28:DD:172:VAL:CG2	28:DD:194:PRO:HD3	2.14	0.77
40:DP:45:VAL:O	40:DP:60:VAL:HA	1.83	0.77
48:DX:53:LYS:O	48:DX:56:ARG:HB2	1.84	0.77
4:AD:36:ALA:HA	4:AD:41:GLY:CA	2.13	0.77
25:CA:1869:G:H3'	25:CA:1870:C:H5'	1.65	0.77
25:CA:2142:A:H2'	25:CA:2143:C:C6	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2152:G:C6	25:CA:2153:C:C4	2.73	0.77
27:CC:42:ARG:HH11	27:CC:42:ARG:CG	1.97	0.77
1:AA:1412:C:C2	1:AA:1489:G:N2	2.53	0.77
2:AB:22:TRP:CZ3	2:AB:24:PRO:HA	2.19	0.77
1:BA:1073:U:H2'	1:BA:1073:U:O2	1.81	0.77
2:BB:89:PHE:HB3	2:BB:149:GLY:O	1.83	0.77
2:BB:162:VAL:HG23	2:BB:184:ALA:HB2	1.67	0.77
5:BE:136:VAL:O	5:BE:137:ARG:HB2	1.83	0.77
25:CA:1074:G:H2'	25:CA:1075:C:H5'	1.65	0.77
52:C1:16:THR:HG21	52:C1:41:VAL:HB	1.64	0.77
42:DR:49:ILE:CD1	42:DR:52:PRO:HA	2.15	0.77
3:AC:21:TRP:CB	3:AC:58:ARG:HG2	2.15	0.77
1:BA:978:A:P	1:BA:1362:A:N6	2.58	0.77
1:BA:1129:C:O2'	1:BA:1139:G:N7	2.18	0.77
25:CA:1604:C:OP1	60:CA:3408:HOH:O	2.03	0.77
25:CA:2007:U:H2'	25:CA:2008:C:H5'	1.65	0.77
53:C2:43:THR:O	53:C2:44:VAL:HB	1.83	0.77
25:DA:1179:G:C5	25:DA:1180:U:H1'	2.19	0.77
25:DA:1711:A:O2'	25:DA:1712:U:H5'	1.84	0.77
32:DH:72:ILE:HG22	32:DH:73:ASN:N	1.99	0.77
36:DL:30:THR:O	36:DL:33:ARG:HG2	1.83	0.77
1:AA:71:A:H3'	1:AA:71:A:OP2	1.85	0.77
8:AH:74:ILE:HD12	8:AH:127:TYR:O	1.85	0.77
2:BB:162:VAL:O	2:BB:184:ALA:HA	1.84	0.77
25:CA:359:G:C6	25:CA:360:U:C5	2.73	0.77
25:CA:2283:C:H5"	25:CA:2389:G:O2'	1.83	0.77
36:CL:110:VAL:O	36:CL:111:ILE:O	2.02	0.77
25:DA:2230:G:H2'	25:DA:2231:U:H6	1.50	0.77
30:DF:41:GLU:HB2	30:DF:48:LEU:CD2	2.15	0.77
13:AM:44:ILE:HG13	13:AM:47:LEU:HD13	1.67	0.77
16:AP:19:VAL:CG2	16:AP:36:VAL:O	2.33	0.77
1:BA:1244:G:C2	1:BA:1294:G:C2	2.73	0.77
27:CC:216:ARG:HB3	27:CC:217:PRO:CD	2.15	0.77
50:CZ:1:ALA:HB1	50:CZ:2:LYS:HE3	1.66	0.77
9:AI:56:MET:SD	9:AI:57:VAL:N	2.57	0.77
1:BA:332:G:H2'	1:BA:333:U:H5'	1.67	0.77
1:BA:934:C:C5	1:BA:1344:C:C6	2.73	0.77
3:BC:41:TYR:CZ	3:BC:45:GLU:HG2	2.19	0.77
3:BC:149:LYS:HB3	3:BC:168:ARG:HG2	1.66	0.77
17:BQ:15:LYS:C	17:BQ:16:MET:SD	2.68	0.77
25:CA:278:A:H2	25:CA:362:A:C8	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CU:6:ARG:O	45:CU:7:ASP:O	2.03	0.77
27:DC:16:VAL:N	27:DC:203:VAL:HG22	1.99	0.77
1:AA:205:A:OP1	1:AA:205:A:H4'	1.84	0.77
1:AA:1439:G:C5	1:AA:1440:U:C5	2.73	0.77
1:AA:1490:U:C2'	1:AA:1491:G:H5'	2.15	0.77
12:AL:24:GLU:O	12:AL:25:ALA:C	2.28	0.77
22:AV:59:U:C5	22:AV:60:U:C4	2.73	0.77
25:CA:1922:G:C5	25:CA:1923:U:C5	2.72	0.77
27:CC:35:LYS:O	27:CC:36:ASN:CB	2.31	0.77
27:CC:234:GLY:O	27:CC:235:GLU:HB2	1.85	0.77
10:AJ:80:THR:HB	10:AJ:83:THR:HB	1.66	0.76
17:AQ:15:LYS:N	17:AQ:16:MET:SD	2.58	0.76
1:BA:308:C:H2'	1:BA:309:A:C8	2.20	0.76
1:BA:385:C:C5	1:BA:386:C:C5	2.73	0.76
1:BA:982:U:H4'	1:BA:983:A:H5'	1.67	0.76
1:BA:1492:A:N3	25:DA:1913:A:N6	2.33	0.76
3:BC:17:TRP:CZ2	14:BN:95:GLY:HA2	2.20	0.76
12:BL:89:LEU:HB2	12:BL:92:VAL:HG21	1.66	0.76
25:DA:1084:A:C6	25:DA:1085:A:C6	2.73	0.76
21:AU:36:PHE:HA	21:AU:39:LYS:HE3	1.65	0.76
5:BE:154:ALA:HB3	5:BE:155:LYS:HE3	1.66	0.76
25:CA:197:A:N6	25:CA:2430:A:H2'	2.00	0.76
25:CA:2151:U:H2'	25:CA:2152:G:C8	2.20	0.76
25:DA:1906:G:H2'	25:DA:1907:G:H5"	1.67	0.76
25:DA:2112:G:H2'	25:DA:2112:G:N3	1.98	0.76
37:DM:136:MET:HE1	46:DV:57:TYR:CE2	2.20	0.76
2:AB:56:LEU:HD22	2:AB:56:LEU:C	2.10	0.76
3:BC:171:ARG:O	3:BC:173:PRO:HD3	1.84	0.76
6:BF:39:LEU:HD12	6:BF:40:GLU:N	2.00	0.76
25:CA:1059:G:OP2	25:CA:1060:U:O2'	2.02	0.76
25:DA:722:A:H2'	25:DA:723:C:O4'	1.85	0.76
43:DS:59:GLU:HG3	43:DS:66:ILE:HD11	1.65	0.76
2:AB:215:ALA:O	2:AB:219:THR:HG22	1.86	0.76
16:AP:19:VAL:HG13	16:AP:38:PHE:HA	1.64	0.76
25:CA:195:A:N7	60:CA:3767:HOH:O	2.18	0.76
25:CA:1869:G:C3'	25:CA:1870:C:H5'	2.15	0.76
25:CA:2103:C:C2'	25:CA:2104:C:H5'	2.16	0.76
49:CY:56:LEU:O	49:CY:57:LEU:CB	2.32	0.76
25:DA:1045:C:C3'	25:DA:1046:A:H5'	2.16	0.76
25:DA:2346:A:H3'	25:DA:2347:C:H5'	1.66	0.76
28:DD:181:ASP:HB3	28:DD:186:LEU:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:49:PHE:HA	2:AB:212:TYR:OH	1.85	0.76
3:AC:71:ARG:O	3:AC:74:ILE:HG22	1.86	0.76
1:BA:1333:A:H2'	1:BA:1334:G:O4'	1.86	0.76
3:BC:110:LEU:HD13	3:BC:145:ALA:HB2	1.68	0.76
25:CA:1494:A:C2'	25:CA:1495:A:O5'	2.34	0.76
25:DA:1063:G:O2'	33:DI:88:GLY:HA3	1.84	0.76
25:DA:1746:A:H2'	25:DA:1747:U:H6	1.47	0.76
38:DN:55:ALA:HA	38:DN:80:PHE:CE1	2.21	0.76
43:DS:73:LYS:HB2	43:DS:106:VAL:HB	1.67	0.76
1:AA:209:U:C5'	1:AA:210:C:OP2	2.34	0.76
3:AC:24:ASN:O	3:AC:26:LYS:HG2	1.86	0.76
5:AE:23:THR:HA	5:AE:28:ARG:HA	1.66	0.76
8:AH:100:ILE:HD11	8:AH:128:VAL:CG2	2.16	0.76
9:BI:56:MET:HB3	9:BI:60:LEU:HD23	1.67	0.76
25:CA:1528:A:H5"	25:CA:1529:G:OP2	1.85	0.76
32:CH:59:ALA:O	32:CH:62:LEU:HG	1.86	0.76
25:DA:1045:C:H1'	25:DA:1047:G:C6	2.20	0.76
25:DA:1777:U:O2'	25:DA:1778:U:H5'	1.86	0.76
29:DE:149:ILE:HG23	29:DE:188:MET:HG2	1.67	0.76
1:AA:1032:G:C2	1:AA:1033:G:H1'	2.20	0.76
1:BA:374:A:H5"	1:BA:452:A:C2	2.20	0.76
25:CA:761:A:P	60:CA:3700:HOH:O	2.42	0.76
25:CA:1736:U:H2'	25:CA:1737:G:O4'	1.85	0.76
29:DE:148:ILE:HD13	29:DE:187:VAL:HG12	1.68	0.76
22:AV:21:A:N6	22:AV:46:G:C4	2.54	0.76
25:CA:1462:C:C2'	25:CA:1463:C:H5'	2.15	0.76
32:CH:79:THR:HA	32:CH:145:ASN:HB2	1.68	0.76
25:DA:1556:C:O2'	25:DA:1557:C:H5'	1.84	0.76
25:DA:1827:U:H5'	25:DA:1971:U:H5'	1.67	0.76
32:DH:116:ARG:HG3	32:DH:133:GLN:HG3	1.68	0.76
1:AA:1348:U:C5	1:AA:1373:G:N2	2.53	0.76
4:AD:190:LEU:O	4:AD:191:SER:HB2	1.86	0.76
16:AP:68:SER:HB2	16:AP:71:VAL:HB	1.67	0.76
1:BA:261:U:OP2	20:BT:70:LYS:HD2	1.86	0.76
1:BA:1538:C:H2'	1:BA:1539:C:C6	2.21	0.76
19:BS:14:LEU:HA	19:BS:17:LYS:HD2	1.66	0.76
25:CA:999:U:OP2	60:CA:3358:HOH:O	2.03	0.76
25:CA:1046:A:OP2	25:CA:1046:A:H4'	1.86	0.76
25:CA:2277:G:H2'	25:CA:2278:A:O5'	1.85	0.76
46:CV:80:HIS:CE1	46:CV:81:PRO:HD2	2.20	0.76
25:DA:1725:U:H2'	25:DA:1726:C:O4'	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DD:140:HIS:CD2	60:DD:303:HOH:O	2.37	0.76
32:DH:2:GLN:O	32:DH:3:VAL:O	2.04	0.76
1:AA:620:C:H1'	4:AD:131:ILE:CD1	2.16	0.76
1:AA:1032:G:H5'	1:AA:1033:G:OP2	1.85	0.76
10:AJ:44:THR:HG22	10:AJ:70:HIS:HA	1.67	0.76
1:BA:381:C:H2'	1:BA:382:A:O4'	1.86	0.76
37:CM:15:GLY:O	37:CM:16:ARG:HD2	1.85	0.76
25:DA:1788:C:O2'	25:DA:1789:A:H5'	1.86	0.76
25:DA:2340:A:H2'	25:DA:2341:G:H8	1.50	0.76
51:D0:54:ILE:HG22	51:D0:55:ALA:N	2.00	0.76
10:AJ:27:GLU:HA	10:AJ:30:LYS:HE2	1.68	0.75
13:AM:21:ILE:HB	13:AM:24:VAL:HG21	1.66	0.75
15:AO:66:LEU:HD13	15:AO:87:ARG:NH2	2.01	0.75
1:BA:1412:C:H2'	1:BA:1413:A:C8	2.21	0.75
9:BI:89:TYR:C	9:BI:93:LEU:HD11	2.09	0.75
21:BU:9:GLU:CG	21:BU:10:PRO:HD3	2.15	0.75
25:CA:2681:C:OP2	28:CD:114:LYS:HE3	1.85	0.75
33:CI:124:MET:HA	33:CI:127:SER:HB3	1.68	0.75
1:AA:204:G:H2'	1:AA:205:A:O4'	1.87	0.75
9:AI:113:LYS:HG2	9:AI:119:LYS:HA	1.68	0.75
11:AK:91:GLY:O	11:AK:95:THR:HG22	1.86	0.75
1:BA:595:A:C2	1:BA:641:U:N3	2.54	0.75
2:BB:67:LEU:HD22	2:BB:69:VAL:CG2	2.16	0.75
20:BT:42:ASP:CB	20:BT:45:ALA:HB3	2.16	0.75
25:CA:2071:A:H2'	25:CA:2072:C:C6	2.21	0.75
25:DA:860:U:H1'	25:DA:2268:A:H5'	1.68	0.75
25:DA:1779:U:H5	25:DA:1784:A:N7	1.84	0.75
32:DH:24:GLY:O	32:DH:28:ASN:HB2	1.87	0.75
34:DJ:5:THR:HG22	34:DJ:6:ALA:O	1.86	0.75
38:DN:85:PRO:HA	38:DN:88:ALA:HB2	1.68	0.75
10:AJ:27:GLU:HA	10:AJ:30:LYS:CE	2.17	0.75
5:BE:136:VAL:O	5:BE:137:ARG:CB	2.34	0.75
25:CA:1509:A:O2'	25:CA:1510:G:OP2	2.03	0.75
45:CU:11:ILE:HG21	45:CU:79:ALA:HB2	1.68	0.75
25:DA:45:G:H5"	25:DA:46:G:H5'	1.67	0.75
1:BA:1313:U:OP2	19:BS:5:LYS:HA	1.86	0.75
2:BB:116:LEU:HB3	2:BB:140:LEU:HD11	1.68	0.75
25:CA:547:A:N7	25:CA:548:G:H1'	2.01	0.75
37:CM:36:VAL:HG23	37:CM:129:THR:HG22	1.68	0.75
25:DA:1122:G:H2'	25:DA:1122:G:N3	2.02	0.75
56:DB:62:C:H2'	56:DB:63:C:H6	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:57:LYS:HG3	32:DH:58:LEU:HD23	1.67	0.75
1:AA:131:A:H2'	1:AA:132:C:C6	2.20	0.75
21:AU:40:PRO:HA	21:AU:44:ARG:NH1	2.01	0.75
12:BL:106:VAL:HG21	12:BL:116:TYR:HB3	1.69	0.75
14:BN:64:CYS:HB2	14:BN:80:SER:OG	1.87	0.75
2:BB:51:GLU:HG2	2:BB:197:PHE:CE1	2.21	0.75
2:BB:52:ALA:O	2:BB:56:LEU:HB2	1.85	0.75
21:BU:10:PRO:C	21:BU:11:PHE:CG	2.60	0.75
25:CA:1053:C:N3	25:CA:1054:A:C8	2.54	0.75
25:CA:1585:C:H2'	25:CA:1586:A:O5'	1.87	0.75
25:CA:1585:C:O2'	25:CA:1586:A:H5'	1.85	0.75
25:CA:2800:A:H3'	25:CA:2801:G:H5'	1.69	0.75
27:CC:72:GLY:HA2	27:CC:116:GLN:NE2	2.01	0.75
30:CF:42:ALA:HB1	30:CF:45:ASP:O	1.86	0.75
40:CP:102:ARG:HH11	40:CP:102:ARG:CG	1.98	0.75
25:DA:346:A:C5	25:DA:347:A:C8	2.74	0.75
25:DA:419:U:H2'	25:DA:420:C:C6	2.22	0.75
27:DC:158:GLY:HA2	27:DC:194:VAL:O	1.86	0.75
31:DG:3:VAL:HG12	31:DG:68:ARG:HG2	1.68	0.75
1:AA:1539:C:OP1	21:AU:17:ARG:CZ	2.35	0.75
2:BB:80:LYS:HG2	2:BB:84:LEU:HD23	1.67	0.75
25:CA:1071:G:H1'	25:CA:1089:A:C8	2.21	0.75
25:DA:2585:U:O2'	25:DA:2586:U:C5'	2.35	0.75
1:AA:170:U:O2'	1:AA:171:A:H5'	1.86	0.75
1:AA:428:G:O4'	1:AA:430:A:C8	2.40	0.75
3:AC:96:VAL:HB	3:AC:97:PRO:CD	2.16	0.75
9:AI:48:ARG:C	9:AI:48:ARG:HD3	2.11	0.75
16:AP:39:PHE:C	16:AP:39:PHE:CD1	2.64	0.75
25:CA:1455:G:OP2	60:CA:3418:HOH:O	2.04	0.75
38:CN:2:ARG:HD3	38:CN:2:ARG:O	1.87	0.75
44:CT:2:ILE:N	44:CT:3:ARG:HB2	2.00	0.75
25:DA:120:U:H3'	25:DA:120:U:OP2	1.86	0.75
25:DA:1866:A:C2	25:DA:1876:A:C8	2.75	0.75
32:DH:5:LEU:C	32:DH:6:LEU:HD12	2.12	0.75
44:DT:30:ILE:HD11	44:DT:32:LEU:CD2	2.17	0.75
3:AC:41:TYR:CE2	3:AC:45:GLU:HG3	2.22	0.75
5:AE:81:GLN:N	5:AE:146:MET:CE	2.50	0.75
11:AK:41:LEU:HB3	11:AK:76:TYR:CE2	2.21	0.75
15:AO:72:LYS:HE2	15:AO:72:LYS:HA	1.66	0.75
19:AS:14:LEU:HD13	19:AS:32:THR:HG21	1.68	0.75
24:AY:155:ARG:NH1	25:CA:2602:A:C2	2.55	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1314:C:H2'	1:BA:1315:U:C6	2.22	0.75
25:CA:2553:G:C5'	25:CA:2554:U:OP2	2.33	0.75
42:CR:24:LYS:HA	42:CR:94:THR:HG23	1.68	0.75
25:DA:1105:U:O2	25:DA:1106:G:C8	2.40	0.75
25:DA:1372:U:O2'	25:DA:1373:A:H5'	1.86	0.75
56:DB:116:G:H4'	39:DO:54:VAL:O	1.86	0.75
1:AA:462:G:H3'	1:AA:463:U:H6	1.51	0.74
5:AE:44:ARG:HG2	5:AE:72:ASN:HB3	1.69	0.74
1:BA:1182:G:H4'	1:BA:1183:U:C5'	2.16	0.74
13:BM:84:CYS:HA	19:BS:72:GLU:O	1.87	0.74
25:CA:1530:G:O6	25:CA:1541:C:N3	2.20	0.74
25:CA:2075:U:H2'	25:CA:2077:A:OP2	1.87	0.74
38:CN:24:MET:HG2	38:CN:44:LEU:HD22	1.69	0.74
25:DA:1141:U:H4'	25:DA:1142:A:O4'	1.86	0.74
2:AB:60:ALA:HA	2:AB:64:GLY:CA	2.17	0.74
11:BK:70:ALA:O	11:BK:73:VAL:HG22	1.86	0.74
14:BN:15:LEU:HB3	14:BN:55:SER:HA	1.69	0.74
37:CM:15:GLY:C	37:CM:16:ARG:HD3	2.10	0.74
25:DA:1242:U:H2'	25:DA:1243:C:C6	2.22	0.74
25:DA:1786:A:H1'	25:DA:1938:A:N6	2.03	0.74
25:DA:2114:A:H5'	25:DA:2115:G:OP2	1.87	0.74
1:AA:109:A:H2'	1:AA:326:G:N2	2.01	0.74
1:BA:203:G:N2	1:BA:215:C:C2	2.55	0.74
1:BA:1326:U:H2'	1:BA:1327:C:C6	2.23	0.74
1:BA:1386:G:C2	1:BA:1387:G:C8	2.75	0.74
2:BB:63:LYS:HD3	2:BB:63:LYS:C	2.13	0.74
2:BB:67:LEU:HB3	2:BB:160:LEU:CD1	2.16	0.74
25:DA:96:C:H4'	49:DY:41:HIS:CE1	2.22	0.74
1:AA:447:G:N2	1:AA:486:U:C5	2.55	0.74
4:AD:190:LEU:O	4:AD:191:SER:CB	2.34	0.74
10:AJ:10:LEU:HD23	10:AJ:96:VAL:HG11	1.68	0.74
10:AJ:57:VAL:O	10:AJ:58:ASN:HB2	1.86	0.74
1:BA:100:G:N7	1:BA:101:A:N7	2.36	0.74
1:BA:686:U:C2	1:BA:687:A:N7	2.56	0.74
32:CH:112:LYS:HA	32:CH:115:VAL:HG23	1.69	0.74
34:CJ:30:THR:HG22	34:CJ:31:GLU:N	2.00	0.74
44:CT:88:LYS:O	44:CT:89:GLU:HG2	1.88	0.74
25:DA:60:G:C8	25:DA:62:U:C6	2.74	0.74
25:DA:1178:C:H2'	25:DA:1179:G:C8	2.22	0.74
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.23	0.74
17:AQ:59:GLU:HB3	17:AQ:75:VAL:HG23	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:684:U:C2'	1:BA:685:G:H5'	2.17	0.74
3:BC:71:ARG:HB3	3:BC:74:ILE:CG2	2.17	0.74
4:BD:36:ALA:H	4:BD:37:PRO:HD3	1.52	0.74
6:BF:5:GLU:C	6:BF:6:ILE:HD12	2.12	0.74
37:CM:51:ARG:O	37:CM:55:ARG:HB2	1.85	0.74
25:DA:1385:A:H1'	25:DA:1386:C:C6	2.23	0.74
6:AF:18:VAL:HB	6:AF:19:PRO:CD	2.18	0.74
21:AU:19:LYS:HA	21:AU:19:LYS:NZ	2.01	0.74
25:DA:632:A:H2'	25:DA:633:A:C8	2.22	0.74
56:DB:116:G:H5'	39:DO:55:GLU:HG3	1.70	0.74
1:AA:711:G:O2'	1:AA:712:A:H5'	1.86	0.74
1:BA:66:A:H4'	1:BA:173:U:C5	2.22	0.74
1:BA:1345:U:C4	1:BA:1377:A:C2	2.75	0.74
15:BO:3:SER:HB2	15:BO:6:ALA:HB3	1.70	0.74
25:CA:1929:G:C5'	25:CA:1929:G:N3	2.51	0.74
25:DA:2323:G:H2'	25:DA:2324:U:O4'	1.86	0.74
35:DK:118:LEU:O	35:DK:119:ALA:HB3	1.88	0.74
40:DP:32:VAL:HG12	40:DP:32:VAL:O	1.87	0.74
1:AA:1108:G:H2'	1:AA:1108:G:N3	2.02	0.74
1:AA:1138:G:H5"	1:AA:1138:G:N3	2.03	0.74
8:AH:1:SER:O	8:AH:3:GLN:N	2.21	0.74
16:AP:77:GLU:C	16:AP:79:ASN:H	1.96	0.74
18:AR:42:ARG:HG2	18:AR:43:ILE:HD13	1.70	0.74
22:AV:65:G:N2	22:AV:66:U:C2	2.56	0.74
1:BA:783:C:C2'	1:BA:784:A:H5'	2.18	0.74
1:BA:859:G:H2'	1:BA:860:A:C8	2.22	0.74
21:BU:25:ALA:HB3	23:BX:8:A:C5'	2.17	0.74
25:CA:1494:A:H2'	25:CA:1495:A:O5'	1.86	0.74
27:CC:110:LYS:HE2	27:CC:113:ASP:OD1	1.87	0.74
29:CE:18:THR:HG22	29:CE:19:PHE:CD2	2.23	0.74
25:DA:309:A:H5'	45:DU:16:LYS:HG2	1.69	0.74
1:AA:536:C:OP1	60:AA:1887:HOH:O	2.06	0.74
1:AA:1502:A:N7	1:AA:1504:G:C2	2.56	0.74
9:AI:10:ARG:HB2	9:AI:14:SER:O	1.88	0.74
3:BC:54:ILE:CD1	3:BC:56:ILE:HD13	2.18	0.74
9:BI:19:PHE:HB2	9:BI:63:TYR:HB3	1.68	0.74
14:BN:15:LEU:HD22	14:BN:55:SER:HB3	1.70	0.74
23:BX:13:A:O2'	23:BX:14:A:OP2	2.06	0.74
25:CA:78:U:OP2	49:CY:2:LYS:HD3	1.87	0.74
25:CA:139:U:C4	44:CT:2:ILE:HD13	2.22	0.74
25:CA:1070:A:C2	25:CA:1097:U:H4'	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1179:G:OP2	25:CA:1180:U:H5”	1.88	0.74
26:CB:33:G:O2’	26:CB:34:A:H5’	1.88	0.74
28:CD:151:THR:HG22	28:CD:152:PRO:HD2	1.70	0.74
25:DA:931:U:H4’	25:DA:932:U:OP2	1.88	0.74
56:DB:77:U:H2’	56:DB:78:A:H5’	1.68	0.74
35:DK:7:MET:C	35:DK:8:LEU:HD12	2.13	0.74
36:DL:106:GLU:C	36:DL:107:PHE:CD2	2.66	0.74
1:AA:496:A:C2	1:AA:497:G:C5	2.76	0.74
1:AA:946:A:C2	1:AA:1236:A:C2	2.76	0.74
4:AD:16:THR:CG2	4:AD:17:ASP:N	2.50	0.74
5:AE:81:GLN:H	5:AE:146:MET:CE	2.01	0.74
19:AS:50:VAL:HG22	19:AS:70:LEU:CD1	2.18	0.74
1:BA:673:A:H2’	1:BA:674:G:C8	2.23	0.74
1:BA:929:G:H2’	1:BA:930:C:O5’	1.88	0.74
1:BA:1298:U:O2	1:BA:1298:U:H2’	1.88	0.74
4:BD:135:GLN:HA	4:BD:135:GLN:OE1	1.88	0.74
27:CC:242:HIS:O	27:CC:243:PRO:C	2.30	0.74
31:CG:23:ILE:O	31:CG:33:THR:HA	1.87	0.74
33:CI:20:SER:HA	33:CI:24:GLY:CA	2.18	0.74
34:CJ:17:VAL:HG12	34:CJ:17:VAL:O	1.86	0.74
42:CR:49:ILE:HB	42:CR:52:PRO:CA	2.17	0.74
25:DA:14:A:OP2	60:DA:3555:HOH:O	2.04	0.74
25:DA:929:U:H4’	50:DZ:37:ARG:NH2	2.03	0.74
25:DA:1385:A:N3	25:DA:1386:C:C5	2.55	0.74
25:DA:2755:C:O2’	25:DA:2756:U:H2’	1.88	0.74
30:DF:35:LEU:HD12	30:DF:153:ILE:HD12	1.69	0.74
33:DI:68:PHE:N	33:DI:68:PHE:CD1	2.55	0.74
49:DY:9:LYS:O	49:DY:12:GLU:HB2	1.88	0.74
10:AJ:65:TYR:HB3	14:AN:96:LEU:HD11	1.69	0.73
14:BN:43:ASN:O	14:BN:43:ASN:CG	2.30	0.73
20:BT:35:TYR:CD2	20:BT:36:ALA:N	2.56	0.73
32:CH:76:GLU:O	32:CH:76:GLU:HG2	1.86	0.73
25:DA:65:U:H2’	25:DA:66:C:H6	1.53	0.73
25:DA:1269:A:OP2	60:DA:3386:HOH:O	2.06	0.73
27:DC:14:HIS:O	27:DC:203:VAL:HG21	1.87	0.73
28:DD:129:THR:HG22	28:DD:130:GLN:O	1.87	0.73
30:DF:41:GLU:HB2	30:DF:48:LEU:HD23	1.70	0.73
32:DH:66:ASN:O	32:DH:69:ALA:HB3	1.88	0.73
9:AI:95:SER:HA	9:AI:98:ARG:HB2	1.69	0.73
25:CA:1082:U:OP1	33:CI:123:ALA:HB1	1.87	0.73
27:CC:268:ARG:HH11	27:CC:268:ARG:HG2	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:18:ASN:HB2	33:CI:37:PHE:HB3	1.70	0.73
25:DA:1063:G:H2'	25:DA:1064:C:O4'	1.87	0.73
25:DA:2131:U:H5'	25:DA:2132:U:H5"	1.70	0.73
28:DD:90:PHE:CE2	28:DD:96:ILE:HD11	2.23	0.73
39:DO:26:LEU:HD13	39:DO:39:VAL:CG2	2.18	0.73
4:AD:150:LYS:CA	4:AD:177:MET:HE1	2.18	0.73
1:BA:716:A:N3	11:BK:118:ASN:O	2.20	0.73
1:BA:844:G:OP2	1:BA:844:G:C8	2.41	0.73
25:CA:662:G:C2'	25:CA:663:G:H5'	2.18	0.73
25:CA:2055:C:N3	60:CA:3533:HOH:O	2.20	0.73
25:CA:2127:G:N1	25:CA:2161:C:C2	2.56	0.73
36:CL:27:LEU:H	36:CL:27:LEU:HD23	1.51	0.73
25:DA:512:G:N7	60:DA:3778:HOH:O	2.21	0.73
25:DA:1021:A:H5"	25:DA:1022:G:OP2	1.88	0.73
25:DA:1195:G:O2'	25:DA:1196:C:H5'	1.88	0.73
25:DA:2652:C:C2'	25:DA:2653:U:H5'	2.17	0.73
31:DG:154:GLU:HG2	31:DG:155:PRO:HD2	1.70	0.73
14:AN:31:SER:O	14:AN:32:ASP:HB2	1.88	0.73
21:AU:13:VAL:HG13	21:AU:15:LEU:HD21	1.69	0.73
25:CA:416:U:C6	25:CA:417:C:C5	2.76	0.73
25:CA:1073:A:OP1	25:CA:1073:A:C8	2.40	0.73
25:DA:51:G:H4'	25:DA:52:A:H5'	1.70	0.73
25:DA:616:A:H2'	25:DA:617:G:O5'	1.89	0.73
25:DA:2747:G:O2'	31:DG:66:THR:HG22	1.89	0.73
25:DA:2852:G:H2'	25:DA:2853:C:O4'	1.87	0.73
43:DS:84:ARG:HB2	43:DS:96:ILE:HG12	1.69	0.73
45:DU:27:VAL:HA	45:DU:33:VAL:HG12	1.70	0.73
1:AA:1502:A:C8	1:AA:1504:G:C4	2.76	0.73
21:AU:25:ALA:CB	23:AX:9:G:H5"	2.17	0.73
1:BA:674:G:H4'	18:BR:69:TYR:CD1	2.23	0.73
25:DA:692:C:C2'	25:DA:693:A:O5'	2.36	0.73
25:DA:2346:A:H3'	25:DA:2347:C:C5'	2.18	0.73
28:DD:121:THR:HB	28:DD:127:PHE:CD1	2.24	0.73
1:AA:1452:C:H4'	1:AA:1453:G:H5"	1.70	0.73
2:AB:193:ASP:OD1	2:AB:193:ASP:C	2.32	0.73
5:BE:44:ARG:HA	5:BE:71:ILE:O	1.88	0.73
25:CA:1062:G:OP1	25:CA:1070:A:H4'	1.89	0.73
25:CA:2275:C:O2	37:CM:84:LYS:HD3	1.88	0.73
25:CA:2469:A:H4'	37:CM:55:ARG:HH12	1.51	0.73
28:CD:1:MET:SD	28:CD:100:LEU:HD11	2.29	0.73
29:CE:118:LEU:HD12	29:CE:119:ILE:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CK:113:MET:O	35:CK:114:LYS:C	2.30	0.73
42:CR:25:LEU:H	42:CR:94:THR:CG2	2.01	0.73
44:CT:58:VAL:HG22	44:CT:85:VAL:HG22	1.71	0.73
25:DA:1025:G:H4'	25:DA:1026:G:OP2	1.89	0.73
25:DA:1385:A:N3	25:DA:1386:C:C6	2.57	0.73
25:DA:2760:C:O2'	25:DA:2761:A:H5'	1.88	0.73
42:DR:24:LYS:HA	42:DR:94:THR:OG1	1.88	0.73
10:AJ:5:ARG:HG2	10:AJ:79:PRO:HB3	1.69	0.73
12:AL:20:VAL:HG23	12:AL:94:TYR:CE1	2.23	0.73
24:AY:41:ILE:HD11	24:AY:83:ILE:HA	1.71	0.73
25:CA:1519:G:C5	25:CA:1520:U:C5	2.77	0.73
25:CA:2297:A:N1	25:CA:2321:U:C5	2.57	0.73
25:CA:2711:A:OP1	60:CA:3551:HOH:O	2.05	0.73
41:CQ:40:LYS:HA	41:CQ:43:GLN:HG3	1.70	0.73
25:DA:691:C:O2'	25:DA:692:C:H5'	1.89	0.73
1:AA:114:U:H2'	1:AA:115:G:C8	2.23	0.73
1:AA:913:A:H4'	1:AA:914:A:OP1	1.89	0.73
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.89	0.73
1:AA:1366:C:O2'	1:AA:1367:C:H5'	1.89	0.73
2:AB:20:ARG:O	2:AB:22:TRP:N	2.21	0.73
2:AB:45:THR:HG23	2:AB:200:PRO:HB2	1.69	0.73
5:AE:152:VAL:HG11	8:AH:98:LEU:HD13	1.68	0.73
1:BA:330:C:O2	1:BA:330:C:H2'	1.87	0.73
55:C4:18:LYS:HG3	55:C4:23:ILE:HD13	1.68	0.73
25:DA:1187:G:OP1	42:DR:85:LYS:HE3	1.89	0.73
30:DF:28:PRO:HB2	30:DF:168:LEU:HD22	1.68	0.73
3:AC:180:ASP:OD2	3:AC:203:LYS:HB2	1.89	0.73
1:BA:61:G:H2'	1:BA:62:U:O4'	1.88	0.73
5:BE:14:LEU:HA	5:BE:36:THR:HG22	1.70	0.73
25:DA:2272:U:H5"	25:DA:2273:A:OP1	1.87	0.73
27:DC:62:ARG:HG2	27:DC:62:ARG:HH21	1.54	0.73
49:DY:18:LEU:HD21	49:DY:22:LEU:HD22	1.70	0.73
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.24	0.73
9:AI:46:VAL:HG21	9:AI:75:ALA:HB1	1.71	0.73
11:AK:51:PHE:HZ	11:AK:64:VAL:HG11	1.54	0.73
1:BA:1000:A:C2	1:BA:1041:G:C2	2.76	0.73
25:CA:614:A:O2'	25:CA:615:U:OP2	2.07	0.73
27:CC:16:VAL:HB	27:CC:203:VAL:HG22	1.71	0.73
25:DA:1469:A:H2'	25:DA:1470:A:C8	2.23	0.73
25:DA:2579:C:C2'	25:DA:2580:U:H5'	2.19	0.73
50:DZ:4:ILE:HD11	50:DZ:56:VAL:HG21	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:142:G:H3'	1:AA:143:A:H8	1.53	0.72
1:AA:208:U:C5	1:AA:210:C:C4	2.77	0.72
1:BA:1122:U:N3	1:BA:1123:U:C5	2.57	0.72
3:BC:101:ASN:C	3:BC:102:ILE:HG13	2.14	0.72
11:BK:24:ALA:HA	11:BK:29:THR:HG22	1.71	0.72
27:CC:226:PRO:HD3	27:CC:233:GLY:HA3	1.69	0.72
33:CI:33:ASN:HB2	33:CI:36:GLU:HG3	1.68	0.72
32:DH:7:ASP:HB2	32:DH:35:LYS:HE3	1.71	0.72
1:AA:239:U:H5"	1:AA:240:G:OP2	1.88	0.72
1:AA:1043:G:H2'	1:AA:1044:A:H5"	1.69	0.72
4:AD:57:LYS:HB3	4:AD:199:ILE:HB	1.70	0.72
4:AD:176:LYS:N	4:AD:176:LYS:HD3	2.04	0.72
8:AH:9:MET:HE1	8:AH:32:LYS:HA	1.70	0.72
1:BA:1048:G:H5"	14:BN:2:LYS:HG3	1.70	0.72
2:BB:131:LYS:O	2:BB:135:MET:HB2	1.88	0.72
12:BL:115:LYS:O	12:BL:116:TYR:CD2	2.42	0.72
25:CA:1092:C:H2'	25:CA:1093:G:O4'	1.89	0.72
25:CA:2820:A:H4'	38:CN:3:HIS:CD2	2.25	0.72
36:CL:111:ILE:HD12	36:CL:111:ILE:N	2.03	0.72
52:C1:16:THR:HG22	52:C1:41:VAL:HG11	1.72	0.72
25:DA:547:A:H3'	25:DA:548:G:H5'	1.70	0.72
25:DA:2172:U:H4'	25:DA:2173:A:H5'	1.71	0.72
25:DA:2407:A:N3	25:DA:2408:U:C6	2.56	0.72
56:DB:33:G:C2'	56:DB:34:A:O5'	2.36	0.72
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.20	0.72
1:BA:68:G:C5	1:BA:69:G:H1'	2.24	0.72
1:BA:114:U:O2'	1:BA:115:G:H5'	1.89	0.72
1:BA:1048:G:H4'	14:BN:2:LYS:CE	2.19	0.72
2:BB:209:VAL:O	2:BB:213:LEU:CB	2.36	0.72
7:BG:39:GLU:HB2	7:BG:43:TYR:CE2	2.24	0.72
21:BU:10:PRO:O	21:BU:11:PHE:CG	2.43	0.72
25:CA:4:U:O2'	25:CA:5:A:H5'	1.90	0.72
25:CA:2230:G:H5"	48:CX:29:LEU:HD12	1.70	0.72
49:CY:14:LEU:C	49:CY:17:GLU:HB3	2.14	0.72
25:DA:1881:C:H2'	25:DA:1882:U:O4'	1.89	0.72
2:AB:84:LEU:HG	2:AB:85:SER:N	2.01	0.72
11:AK:22:ILE:HG12	11:AK:85:VAL:HG22	1.72	0.72
13:AM:71:GLU:O	13:AM:74:MET:HB3	1.90	0.72
1:BA:1151:A:C2	1:BA:1152:A:N7	2.56	0.72
2:BB:67:LEU:O	2:BB:160:LEU:HD12	1.88	0.72
12:BL:115:LYS:O	12:BL:116:TYR:CG	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1329:U:O2'	25:DA:1330:C:H5'	1.90	0.72
27:DC:229:HIS:O	27:DC:231:HIS:O	2.06	0.72
44:DT:14:PRO:HD2	49:DY:33:ALA:HB1	1.71	0.72
21:AU:25:ALA:HA	21:AU:28:LEU:HB3	1.71	0.72
1:BA:109:A:H2'	1:BA:326:G:N2	2.04	0.72
1:BA:463:U:H2'	1:BA:463:U:O2	1.88	0.72
25:CA:271:G:H4'	25:CA:272:A:OP1	1.89	0.72
25:CA:981:A:C5'	60:CA:3598:HOH:O	2.36	0.72
25:CA:1073:A:H3'	25:CA:1074:G:H5"	1.69	0.72
28:CD:98:VAL:HG22	28:CD:98:VAL:O	1.89	0.72
25:DA:480:A:H5"	45:DU:43:LYS:HD2	1.72	0.72
48:DX:32:LEU:O	48:DX:33:HIS:CG	2.42	0.72
1:AA:277:C:C2'	1:AA:278:G:O5'	2.38	0.72
1:AA:844:G:C5	1:AA:846:G:O2'	2.43	0.72
2:AB:65:LYS:HB2	2:AB:158:ASP:OD2	1.88	0.72
1:BA:980:C:OP2	60:BA:1862:HOH:O	2.06	0.72
6:BF:18:VAL:HB	6:BF:19:PRO:HD3	1.72	0.72
25:CA:479:A:N3	25:CA:481:G:H5"	2.04	0.72
25:CA:1104:C:C2	25:CA:1105:U:C5	2.78	0.72
31:CG:25:ILE:O	31:CG:78:VAL:HG11	1.89	0.72
46:CV:6:ALA:HB1	46:CV:40:ILE:HG23	1.70	0.72
25:DA:1195:G:C2'	25:DA:1196:C:H5'	2.19	0.72
25:DA:2498:C:P	60:DA:3689:HOH:O	2.47	0.72
39:DO:26:LEU:HD13	39:DO:39:VAL:HG22	1.71	0.72
1:AA:63:C:H2'	1:AA:64:G:H5'	1.72	0.72
1:AA:138:G:C2'	1:AA:139:A:H5'	2.18	0.72
1:AA:279:A:H4'	1:AA:280:C:O5'	1.90	0.72
17:AQ:67:SER:O	17:AQ:68:LYS:C	2.33	0.72
1:BA:147:G:N2	1:BA:176:C:C2	2.58	0.72
1:BA:1361:G:N1	1:BA:1362:A:N7	2.37	0.72
11:BK:124:LYS:C	11:BK:124:LYS:HE3	2.14	0.72
25:CA:528:A:H2	25:CA:2043:C:C5'	2.03	0.72
25:CA:1085:A:C6	25:CA:1086:A:N6	2.57	0.72
25:CA:1309:G:OP1	53:C2:9:VAL:HG23	1.89	0.72
25:CA:1925:C:H4'	25:CA:1926:U:C5	2.25	0.72
37:CM:111:GLU:C	37:CM:111:GLU:OE1	2.33	0.72
27:DC:106:PRO:HB3	27:DC:141:HIS:CE1	2.24	0.72
32:DH:69:ALA:HB2	32:DH:138:VAL:CG1	2.20	0.72
1:AA:649:A:H2'	1:AA:650:G:O4'	1.90	0.72
1:AA:1168:U:O2	1:AA:1168:U:H2'	1.88	0.72
2:AB:70:GLY:HA2	2:AB:163:ILE:HG22	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:62:VAL:HG22	12:AL:63:THR:H	1.54	0.72
1:BA:1288:A:N1	1:BA:1371:G:H1'	2.04	0.72
3:BC:76:ILE:HA	3:BC:83:VAL:HG23	1.70	0.72
6:BF:4:TYR:O	6:BF:63:ASN:HA	1.89	0.72
13:BM:113:LYS:HB2	13:BM:114:PRO:HD3	1.70	0.72
25:CA:1179:G:H3'	25:CA:1180:U:H4'	1.69	0.72
25:CA:2648:G:H2'	25:CA:2649:C:C6	2.24	0.72
25:CA:2845:U:H5"	40:CP:51:ASN:O	1.89	0.72
30:CF:48:LEU:HD12	30:CF:51:ASN:ND2	2.05	0.72
31:CG:172:GLU:OE1	31:CG:172:GLU:HA	1.88	0.72
33:CI:6:ALA:HB2	33:CI:60:VAL:HB	1.71	0.72
48:CX:40:GLU:HG3	48:CX:41:SER:N	2.04	0.72
25:DA:118:A:C8	25:DA:119:A:C8	2.78	0.72
25:DA:1385:A:C4	25:DA:1386:C:C5	2.78	0.72
56:DB:44:G:N2	56:DB:48:U:C2	2.58	0.72
34:DJ:47:HIS:ND1	34:DJ:48:VAL:HG23	2.05	0.72
35:DK:20:MET:CE	35:DK:22:ILE:HG22	2.20	0.72
36:DL:109:LYS:HG2	36:DL:126:ARG:HB3	1.72	0.72
1:AA:613:C:O2'	1:AA:614:C:H5'	1.90	0.72
11:AK:22:ILE:HG13	11:AK:85:VAL:HA	1.72	0.72
1:BA:1361:G:C2	1:BA:1362:A:N7	2.58	0.72
5:BE:150:GLU:HG3	5:BE:151:MET:SD	2.29	0.72
9:BI:28:VAL:O	9:BI:64:ILE:HG13	1.89	0.72
25:CA:2748:A:H1'	31:CG:66:THR:HG22	1.69	0.72
25:DA:161:A:C3'	25:DA:162:U:H5"	2.18	0.72
25:DA:1091:G:N3	25:DA:1092:C:C5	2.58	0.72
25:DA:1562:U:C2	25:DA:1563:U:C6	2.77	0.72
30:DF:7:TYR:HA	30:DF:11:VAL:HB	1.72	0.72
36:DL:4:ASN:C	36:DL:5:THR:HG22	2.15	0.72
40:DP:57:ALA:HB1	40:DP:73:PHE:O	1.90	0.72
43:DS:20:VAL:HG21	43:DS:43:ALA:HB3	1.71	0.72
54:D3:14:LYS:HD3	54:D3:22:LYS:HE2	1.72	0.72
1:AA:513:C:H2'	1:AA:514:C:H6	1.54	0.72
3:AC:21:TRP:HB3	3:AC:58:ARG:HG2	1.72	0.72
9:AI:62:LEU:N	9:AI:62:LEU:HD22	2.05	0.72
20:AT:28:ARG:HA	20:AT:31:ILE:HD12	1.72	0.72
1:BA:1491:G:H2'	1:BA:1492:A:C8	2.23	0.72
2:BB:181:PRO:HA	2:BB:196:ASP:OD1	1.90	0.72
3:BC:166:TRP:HE3	3:BC:166:TRP:C	1.97	0.72
6:BF:9:MET:HG3	6:BF:86:ARG:HB2	1.71	0.72
7:BG:26:VAL:HG12	7:BG:42:VAL:HG21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CN:103:ARG:HD3	38:CN:110:MET:HE2	1.70	0.72
48:CX:65:THR:O	48:CX:68:ALA:HB3	1.89	0.72
25:DA:346:A:C4	25:DA:347:A:C8	2.77	0.72
25:DA:616:A:H2'	25:DA:617:G:C5'	2.20	0.72
25:DA:1454:C:C6	38:DN:63:ARG:HG2	2.25	0.72
56:DB:45:A:C2	56:DB:46:A:C4	2.78	0.72
32:DH:31:VAL:CB	32:DH:32:PRO:HD2	2.20	0.72
40:DP:20:ARG:HB3	40:DP:21:PRO:HD2	1.71	0.72
1:AA:590:U:O2'	1:AA:591:U:H5'	1.90	0.71
1:AA:997:U:H2'	1:AA:998:C:H5'	1.72	0.71
1:AA:1031:C:O2'	1:AA:1032:G:OP2	2.08	0.71
1:AA:1303:C:H2'	1:AA:1304:G:O5'	1.90	0.71
2:AB:163:ILE:HG23	2:AB:164:ASP:H	1.55	0.71
4:AD:28:ASP:C	4:AD:29:THR:O	2.31	0.71
9:AI:24:ASN:HB3	9:AI:58:GLU:CD	2.15	0.71
11:AK:15:VAL:HG12	11:AK:76:TYR:HB3	1.71	0.71
12:AL:24:GLU:O	12:AL:26:CYS:N	2.23	0.71
20:AT:27:MET:HG2	20:AT:31:ILE:HD11	1.71	0.71
21:AU:13:VAL:O	21:AU:15:LEU:HG	1.89	0.71
3:BC:76:ILE:HA	3:BC:83:VAL:CG2	2.20	0.71
5:BE:148:SER:O	5:BE:152:VAL:N	2.23	0.71
25:CA:1063:G:C2	33:CI:135:MET:HA	2.25	0.71
42:CR:49:ILE:HB	42:CR:52:PRO:C	2.15	0.71
25:DA:348:A:H2'	25:DA:349:U:O4'	1.90	0.71
25:DA:804:A:H5"	25:DA:805:G:OP1	1.89	0.71
25:DA:2223:G:C2'	25:DA:2224:G:H5'	2.19	0.71
27:DC:251:THR:HG22	27:DC:252:LYS:N	2.04	0.71
29:DE:126:VAL:CG2	29:DE:133:LEU:HB3	2.20	0.71
1:AA:622:A:C8	1:AA:623:C:C6	2.78	0.71
1:AA:684:U:H1'	11:AK:39:ASN:O	1.90	0.71
1:AA:978:A:C5	1:AA:1319:A:C2	2.77	0.71
1:AA:1216:A:C6	1:AA:1217:C:N4	2.58	0.71
10:BJ:48:ARG:HH11	10:BJ:48:ARG:CG	2.02	0.71
12:BL:64:SER:HB2	12:BL:81:ILE:HD11	1.71	0.71
18:BR:41:SER:HB3	18:BR:51:GLN:HE21	1.51	0.71
42:CR:25:LEU:H	42:CR:94:THR:HG21	1.55	0.71
25:DA:60:G:N3	25:DA:74:A:C2	2.58	0.71
25:DA:2199:A:C4	25:DA:2225:A:C2	2.78	0.71
32:DH:50:ARG:CZ	32:DH:50:ARG:HA	2.20	0.71
32:DH:86:ASP:O	32:DH:87:GLU:HB2	1.89	0.71
36:DL:81:ASP:O	36:DL:82:LEU:HB3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1216:A:C4	1:AA:1217:C:C5	2.78	0.71
4:AD:58:GLN:O	4:AD:62:ARG:HG2	1.90	0.71
1:BA:171:A:O2'	1:BA:172:A:H5'	1.90	0.71
1:BA:243:A:C2	1:BA:246:A:C8	2.78	0.71
1:BA:1534:A:C5'	1:BA:1535:C:OP1	2.38	0.71
2:BB:20:ARG:O	2:BB:22:TRP:N	2.22	0.71
13:BM:28:ARG:CZ	13:BM:62:PHE:HB2	2.21	0.71
20:BT:66:ILE:HD11	20:BT:70:LYS:HD3	1.72	0.71
25:CA:998:C:P	60:CA:3361:HOH:O	2.48	0.71
26:CB:33:G:C2'	26:CB:34:A:H5'	2.19	0.71
42:CR:49:ILE:CG2	42:CR:53:PHE:N	2.53	0.71
25:DA:443:A:C8	29:DE:40:ARG:HD3	2.24	0.71
25:DA:2701:U:H5"	25:DA:2702:G:H5"	1.71	0.71
49:DY:56:LEU:O	49:DY:57:LEU:CB	2.38	0.71
1:AA:889:A:H4'	1:AA:890:G:OP1	1.91	0.71
2:AB:22:TRP:CH2	2:AB:24:PRO:HA	2.25	0.71
6:AF:53:LYS:O	6:AF:54:LEU:HB3	1.90	0.71
1:BA:978:A:OP2	1:BA:1362:A:N6	2.22	0.71
1:BA:1032:G:H1'	25:CA:2138:G:OP1	1.90	0.71
1:BA:1452:C:H4'	1:BA:1453:G:O5'	1.90	0.71
19:BS:10:ILE:HG13	19:BS:11:ASP:N	2.04	0.71
25:CA:58:G:OP1	44:CT:78:SER:HB3	1.90	0.71
25:CA:893:C:H2'	25:CA:894:U:O4'	1.89	0.71
33:CI:96:LYS:HB3	33:CI:138:VAL:CG2	2.20	0.71
33:CI:105:LEU:HA	33:CI:108:ILE:HB	1.70	0.71
35:CK:118:LEU:O	35:CK:119:ALA:CB	2.38	0.71
47:CW:37:ARG:HH11	47:CW:37:ARG:HG3	1.56	0.71
25:DA:729:G:H4'	25:DA:763:G:H5'	1.72	0.71
56:DB:89:U:OP2	56:DB:89:U:H4'	1.88	0.71
31:DG:8:VAL:HG23	31:DG:68:ARG:HD2	1.71	0.71
42:DR:49:ILE:CG1	42:DR:49:ILE:O	2.37	0.71
45:DU:98:ASN:O	45:DU:100:GLU:N	2.23	0.71
1:AA:245:U:H3	1:AA:283:U:H3	1.37	0.71
1:AA:380:G:N2	1:AA:384:G:C6	2.59	0.71
1:AA:950:U:H3'	13:AM:100:ARG:HH22	1.55	0.71
11:AK:41:LEU:HD22	11:AK:76:TYR:CE2	2.26	0.71
1:BA:1138:G:C2	1:BA:1140:C:C5	2.79	0.71
1:BA:1269:A:N7	1:BA:1270:G:H1'	2.06	0.71
12:BL:20:VAL:N	12:BL:21:PRO:CD	2.53	0.71
12:BL:28:GLN:HB2	12:BL:81:ILE:O	1.90	0.71
13:BM:28:ARG:NH1	13:BM:62:PHE:HB2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BS:62:THR:HB	19:BS:65:MET:HG3	1.72	0.71
25:CA:45:G:H4'	25:CA:46:G:H5'	1.72	0.71
25:CA:1846:G:N2	25:CA:1895:C:C2	2.58	0.71
25:CA:2886:A:C5	25:CA:2887:A:C8	2.78	0.71
43:CS:59:GLU:HA	43:CS:64:ALA:HA	1.70	0.71
25:DA:88:G:O2'	25:DA:89:A:H5'	1.90	0.71
25:DA:2286:G:OP1	52:D1:29:LYS:HE3	1.90	0.71
37:DM:27:SER:O	37:DM:28:PHE:CG	2.43	0.71
4:AD:167:PRO:HG2	4:AD:170:LEU:HD11	1.71	0.71
13:AM:14:ALA:O	13:AM:18:LEU:HD23	1.90	0.71
17:AQ:44:HIS:HB2	17:AQ:69:THR:O	1.91	0.71
24:AY:9:ASP:HB3	24:AY:13:ARG:NH2	2.05	0.71
5:BE:82:HIS:ND1	8:BH:95:MET:HE3	2.06	0.71
25:CA:997:G:OP1	41:CQ:91:ARG:HG2	1.91	0.71
25:CA:1161:C:H1'	42:CR:8:GLY:O	1.91	0.71
25:CA:1908:C:H5"	25:CA:1909:C:OP2	1.90	0.71
25:CA:2506:U:H2'	25:CA:2507:C:H5'	1.72	0.71
27:CC:34:GLU:O	27:CC:35:LYS:O	2.08	0.71
31:CG:24:THR:O	31:CG:25:ILE:HD13	1.90	0.71
35:CK:34:GLY:O	35:CK:35:VAL:C	2.33	0.71
45:CU:15:GLY:O	45:CU:17:ASP:N	2.23	0.71
25:DA:535:G:O2'	25:DA:536:G:H5'	1.90	0.71
25:DA:826:U:O2'	36:DL:53:GLY:HA3	1.90	0.71
25:DA:1670:C:C5	25:DA:1671:U:C4	2.79	0.71
27:DC:73:ILE:HD12	27:DC:73:ILE:N	2.05	0.71
39:DO:34:HIS:HA	39:DO:53:THR:OG1	1.90	0.71
1:BA:827:U:C4	1:BA:870:U:C2	2.79	0.71
11:BK:126:ARG:N	21:BU:33:ARG:NH2	2.38	0.71
20:BT:69:ASN:O	20:BT:70:LYS:C	2.34	0.71
25:CA:321:U:OP2	29:CE:130:LYS:HD3	1.90	0.71
25:CA:675:A:OP1	29:CE:58:LYS:HE2	1.90	0.71
25:CA:2128:G:H2'	25:CA:2129:C:O4'	1.91	0.71
43:CS:45:VAL:O	43:CS:46:LEU:C	2.33	0.71
25:DA:1096:A:H2'	25:DA:1097:U:C4'	2.20	0.71
25:DA:2749:A:H5"	31:DG:1:SER:HB2	1.73	0.71
25:DA:2884:U:O4'	25:DA:2884:U:O2	1.99	0.71
45:DU:85:ARG:HG2	45:DU:94:PHE:CD2	2.25	0.71
50:DZ:40:THR:HG23	50:DZ:43:ILE:HG12	1.72	0.71
1:AA:414:A:H2'	1:AA:415:A:C8	2.26	0.71
1:AA:950:U:C5	13:AM:100:ARG:NH1	2.58	0.71
1:AA:1118:U:H5'	9:AI:105:ARG:HG3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1330:U:C2'	1:AA:1331:G:H5'	2.20	0.71
1:AA:1476:A:H2'	1:AA:1477:U:O4'	1.91	0.71
25:CA:2172:U:H4'	25:CA:2173:A:H5'	1.70	0.71
28:CD:4:LEU:HD21	28:CD:100:LEU:HD23	1.73	0.71
39:CO:4:LYS:HG3	39:CO:5:SER:N	2.03	0.71
49:CY:46:VAL:O	49:CY:50:VAL:HG23	1.90	0.71
25:DA:977:G:N7	60:DA:3592:HOH:O	2.22	0.71
27:DC:20:ASN:OD1	27:DC:20:ASN:C	2.33	0.71
42:DR:49:ILE:CG1	42:DR:52:PRO:HA	2.21	0.71
45:DU:40:LEU:HD23	45:DU:40:LEU:N	2.06	0.71
45:DU:98:ASN:OD1	45:DU:98:ASN:C	2.34	0.71
1:AA:205:A:H2'	1:AA:205:A:N3	2.05	0.71
1:AA:409:U:OP1	4:AD:23:GLY:HA3	1.91	0.71
1:AA:659:U:O2	1:AA:660:C:C6	2.44	0.71
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.72	0.71
24:AY:145:LYS:H	24:AY:145:LYS:CE	2.04	0.71
1:BA:978:A:H4'	1:BA:1322:C:C5	2.26	0.71
25:CA:31:C:O2'	25:CA:1238:G:H5'	1.91	0.71
25:CA:1086:A:O2'	25:CA:1087:G:N7	2.24	0.71
25:CA:2582:G:OP2	60:CA:3715:HOH:O	2.09	0.71
44:CT:1:MET:C	44:CT:3:ARG:HB2	2.16	0.71
25:DA:317:G:C5	25:DA:318:C:C5	2.79	0.71
25:DA:346:A:C5	25:DA:347:A:N7	2.59	0.71
33:DI:44:LYS:HA	33:DI:47:SER:HB3	1.73	0.71
2:AB:110:ILE:HD11	2:AB:147:LEU:HD22	1.71	0.71
1:BA:757:U:O2'	1:BA:879:C:H1'	1.90	0.71
20:BT:61:ALA:HA	20:BT:67:HIS:H	1.56	0.71
25:CA:416:U:C5	25:CA:417:C:C4	2.79	0.71
25:CA:842:U:O4	60:CA:3590:HOH:O	2.08	0.71
25:CA:1372:U:H2'	25:CA:1373:A:O5'	1.91	0.71
25:CA:2305:U:O2'	30:CF:132:ARG:NE	2.24	0.71
27:CC:104:LEU:N	27:CC:104:LEU:CD1	2.53	0.71
25:DA:1096:A:H2'	25:DA:1097:U:C5'	2.21	0.71
25:DA:2011:U:OP1	43:DS:42:LYS:HE2	1.90	0.71
25:DA:2467:C:N4	25:DA:2468:A:C6	2.59	0.71
32:DH:53:GLU:O	32:DH:57:LYS:CB	2.39	0.71
32:DH:76:GLU:HG2	32:DH:143:ILE:HD13	1.73	0.71
42:DR:49:ILE:HB	42:DR:53:PHE:N	2.06	0.71
1:AA:8:A:C5	4:AD:205:LYS:HB3	2.25	0.70
1:AA:542:G:C2	1:AA:543:U:C5	2.79	0.70
1:AA:1043:G:C2'	1:AA:1044:A:H5"	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:ARG:CG	4:AD:71:PHE:CD2	2.74	0.70
5:AE:33:THR:HG22	5:AE:51:LYS:HB3	1.73	0.70
2:BB:22:TRP:CG	2:BB:22:TRP:O	2.43	0.70
8:BH:54:THR:C	8:BH:56:PRO:HD3	2.16	0.70
25:CA:544:C:H2'	25:CA:545:U:O4'	1.91	0.70
25:CA:1171:G:C2	25:CA:1172:C:C2	2.78	0.70
25:CA:2309:A:C6	25:CA:2310:C:N4	2.59	0.70
25:DA:1378:A:N3	25:DA:1380:G:C8	2.59	0.70
25:DA:2072:C:H6	25:DA:2072:C:H5"	1.54	0.70
25:DA:2793:C:H2'	25:DA:2794:C:H6	1.53	0.70
56:DB:43:C:H1'	30:DF:89:THR:CG2	2.21	0.70
37:DM:46:ILE:O	37:DM:103:TYR:OH	2.08	0.70
1:AA:464:U:N3	1:AA:466:A:H5"	2.05	0.70
1:AA:872:A:C8	1:AA:874:G:C8	2.79	0.70
4:AD:122:ILE:N	4:AD:122:ILE:HD13	2.06	0.70
14:AN:19:TYR:O	14:AN:20:PHE:O	2.09	0.70
22:AV:55:U:O2'	22:AV:57:G:N7	2.21	0.70
1:BA:245:U:H3	1:BA:283:U:H3	1.36	0.70
1:BA:246:A:H4'	1:BA:247:G:OP1	1.91	0.70
5:BE:82:HIS:CE1	8:BH:95:MET:HE3	2.26	0.70
13:BM:82:LEU:HD12	19:BS:65:MET:HE2	1.72	0.70
17:BQ:61:ARG:C	17:BQ:72:TRP:CE3	2.69	0.70
25:CA:2210:U:H4'	25:CA:2211:A:H5'	1.72	0.70
25:DA:528:A:C2	25:DA:2043:C:H4'	2.26	0.70
25:DA:1084:A:N6	25:DA:1085:A:N6	2.39	0.70
25:DA:1096:A:N1	25:DA:1097:U:C5	2.59	0.70
25:DA:2110:G:C6	25:DA:2120:G:C8	2.79	0.70
25:DA:2209:G:N2	25:DA:2216:G:C2	2.58	0.70
36:DL:82:LEU:O	36:DL:85:VAL:HG22	1.90	0.70
39:DO:31:THR:HG23	39:DO:32:PRO:HD2	1.72	0.70
50:DZ:9:THR:HG22	50:DZ:53:MET:HA	1.71	0.70
1:AA:147:G:H2'	1:AA:148:G:C8	2.26	0.70
1:AA:763:G:H2'	1:AA:764:C:H6	1.56	0.70
1:AA:1179:A:H2'	1:AA:1180:A:O4'	1.91	0.70
16:AP:39:PHE:CD2	16:AP:74:LEU:HD11	2.27	0.70
19:AS:28:LYS:HB2	19:AS:29:PRO:HD2	1.73	0.70
21:AU:39:LYS:N	21:AU:40:PRO:CD	2.55	0.70
1:BA:158:G:H2'	1:BA:159:G:H5"	1.72	0.70
4:BD:56:GLU:OE2	4:BD:195:ASN:HB2	1.91	0.70
5:BE:113:VAL:HG22	5:BE:114:LEU:N	2.06	0.70
7:BG:11:ILE:HD12	7:BG:23:ALA:HB1	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1171:G:C5	25:CA:1172:C:C4	2.80	0.70
33:CI:132:ALA:O	33:CI:133:ARG:HB2	1.90	0.70
42:CR:26:ASP:O	42:CR:27:ILE:HD13	1.91	0.70
44:CT:71:GLY:O	44:CT:73:ARG:N	2.25	0.70
25:DA:227:A:C2	25:DA:2407:A:H1'	2.26	0.70
25:DA:1205:A:N1	29:DE:165:HIS:HB2	2.05	0.70
25:DA:2165:C:O2	25:DA:2165:C:H2'	1.90	0.70
25:DA:2278:A:OP1	37:DM:10:ARG:HD3	1.92	0.70
45:DU:11:ILE:CG2	45:DU:79:ALA:HB2	2.20	0.70
1:AA:499:A:H4'	1:AA:500:G:OP1	1.91	0.70
7:AG:94:ARG:NH2	7:AG:98:LEU:HD21	2.06	0.70
19:AS:39:ILE:HG12	19:AS:70:LEU:HD23	1.72	0.70
1:BA:1234:C:H1'	1:BA:1364:U:C6	2.27	0.70
1:BA:1261:A:C2	1:BA:1262:C:C4	2.79	0.70
1:BA:1377:A:N3	7:BG:1:PRO:HG3	2.05	0.70
2:BB:49:PHE:C	2:BB:49:PHE:CD1	2.69	0.70
12:BL:2:THR:HB	12:BL:5:GLN:HG2	1.74	0.70
25:CA:1097:U:H1'	33:CI:8:VAL:HG12	1.71	0.70
25:CA:2075:U:O4	60:CA:3506:HOH:O	2.08	0.70
27:CC:129:LEU:HD23	27:CC:129:LEU:N	2.07	0.70
25:DA:58:G:H2'	25:DA:59:U:H5'	1.73	0.70
25:DA:2091:C:H3'	25:DA:2092:U:H5"	1.73	0.70
29:DE:155:GLU:HG3	29:DE:159:LEU:CD1	2.21	0.70
35:DK:103:VAL:O	35:DK:122:VAL:HB	1.90	0.70
38:DN:112:TYR:CD1	51:D0:54:ILE:HD11	2.27	0.70
42:DR:39:LEU:C	42:DR:49:ILE:HG23	2.16	0.70
51:D0:55:ALA:O	51:D0:56:LYS:HB2	1.92	0.70
1:AA:1446:A:O2'	1:AA:1447:A:H5'	1.90	0.70
3:AC:96:VAL:HB	3:AC:97:PRO:HD2	1.72	0.70
4:AD:168:THR:HB	4:AD:183:ARG:HH22	1.55	0.70
12:AL:20:VAL:HG22	12:AL:20:VAL:O	1.92	0.70
4:BD:97:LEU:HD12	4:BD:97:LEU:C	2.17	0.70
11:BK:20:ALA:HA	11:BK:33:ILE:HD13	1.73	0.70
15:BO:7:THR:O	15:BO:11:VAL:HG23	1.92	0.70
25:CA:674:G:H1'	29:CE:69:ARG:HD3	1.72	0.70
25:CA:2406:A:OP2	25:CA:2406:A:H2'	1.92	0.70
33:CI:17:ALA:O	33:CI:18:ASN:CB	2.38	0.70
38:CN:13:ASN:C	38:CN:13:ASN:HD22	2.00	0.70
25:DA:55:G:O2'	25:DA:56:A:H5'	1.92	0.70
25:DA:693:A:C2'	25:DA:694:U:O5'	2.40	0.70
25:DA:1154:G:OP2	41:DQ:57:ARG:NH1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:62:LEU:HD13	32:DH:63:ALA:H	1.55	0.70
42:DR:39:LEU:O	42:DR:49:ILE:HG23	1.90	0.70
1:AA:439:U:C5	1:AA:440:C:C5	2.78	0.70
2:BB:58:LYS:O	2:BB:62:ARG:N	2.24	0.70
5:BE:149:PRO:O	5:BE:152:VAL:HG22	1.91	0.70
20:BT:64:GLY:C	20:BT:67:HIS:CE1	2.69	0.70
25:CA:242:G:O5'	54:C3:2:LYS:HE2	1.90	0.70
25:CA:1897:G:C2	25:CA:1898:U:O2	2.44	0.70
25:CA:2152:G:C2'	25:CA:2153:C:H5'	2.20	0.70
29:CE:111:GLU:HA	29:CE:111:GLU:OE1	1.89	0.70
32:CH:31:VAL:O	32:CH:32:PRO:C	2.31	0.70
32:CH:53:GLU:O	32:CH:57:LYS:HB3	1.90	0.70
25:DA:186:G:O2'	25:DA:187:G:H5'	1.90	0.70
25:DA:1383:A:C2	25:DA:1384:A:C2	2.80	0.70
36:DL:28:GLY:O	36:DL:29:LYS:O	2.09	0.70
1:AA:673:A:H2'	1:AA:674:G:C8	2.27	0.70
7:AG:26:VAL:HG12	7:AG:42:VAL:HG21	1.74	0.70
10:AJ:9:ARG:HB2	10:AJ:99:GLN:HB2	1.74	0.70
21:AU:19:LYS:CE	21:AU:19:LYS:CA	2.69	0.70
1:BA:1061:G:H5"	10:BJ:61:ALA:HB2	1.72	0.70
14:BN:66:GLN:HG3	14:BN:79:LEU:HD21	1.72	0.70
25:CA:287:G:H2'	25:CA:288:U:C6	2.26	0.70
37:CM:31:PHE:CZ	37:CM:110:GLU:HA	2.27	0.70
38:CN:103:ARG:HD3	38:CN:110:MET:CE	2.22	0.70
49:CY:18:LEU:HD21	49:CY:22:LEU:HD22	1.74	0.70
54:C3:30:HIS:O	54:C3:31:ILE:C	2.33	0.70
55:C4:36:ARG:HG2	55:C4:37:GLN:H	1.56	0.70
25:DA:832:U:H2'	25:DA:833:A:C8	2.25	0.70
27:DC:1:ALA:HA	27:DC:198:GLU:OE2	1.92	0.70
27:DC:144:GLU:HA	27:DC:151:GLY:HA2	1.72	0.70
44:DT:69:ARG:HG3	44:DT:74:ILE:HG22	1.73	0.70
1:AA:142:G:C5	1:AA:143:A:N7	2.59	0.70
1:AA:923:A:O4'	1:AA:1398:A:C2	2.45	0.70
1:AA:1305:G:H2'	1:AA:1331:G:H22	1.56	0.70
11:AK:124:LYS:CG	11:AK:125:LYS:N	2.53	0.70
16:AP:77:GLU:C	16:AP:79:ASN:N	2.48	0.70
17:AQ:15:LYS:C	17:AQ:16:MET:SD	2.75	0.70
20:AT:66:ILE:HG23	20:AT:66:ILE:O	1.91	0.70
1:BA:983:A:H2'	1:BA:983:A:N3	2.05	0.70
1:BA:1106:G:H2'	1:BA:1107:C:H6	1.57	0.70
1:BA:1211:U:O2'	1:BA:1212:U:P	2.50	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1026:G:H2'	25:CA:1027:A:C8	2.27	0.70
25:CA:1452:G:O2'	25:CA:1453:A:P	2.49	0.70
25:CA:1799:G:OP2	27:CC:269:ARG:NH2	2.25	0.70
25:CA:2258:C:H4'	25:CA:2259:U:OP2	1.92	0.70
25:CA:2334:U:C4	39:CO:16:ARG:HD3	2.26	0.70
40:CP:30:TRP:CE2	40:CP:39:LEU:HD11	2.27	0.70
46:CV:41:GLU:O	46:CV:41:GLU:HG3	1.92	0.70
25:DA:547:A:H3'	25:DA:548:G:C5'	2.22	0.70
25:DA:1063:G:H3'	25:DA:1064:C:C6	2.26	0.70
25:DA:1866:A:C2	25:DA:1876:A:N7	2.60	0.70
25:DA:2188:U:H2'	25:DA:2189:U:O4'	1.91	0.70
33:DI:71:LYS:O	33:DI:72:THR:HG23	1.92	0.70
36:DL:57:LEU:HD12	36:DL:60:ARG:HD2	1.73	0.70
36:DL:107:PHE:CD2	36:DL:107:PHE:N	2.59	0.70
1:AA:1279:G:N2	10:AJ:45:ARG:HE	1.89	0.70
4:AD:57:LYS:HB3	4:AD:199:ILE:CG2	2.21	0.70
10:AJ:65:TYR:CB	14:AN:96:LEU:HD11	2.22	0.70
16:AP:71:VAL:O	16:AP:75:ILE:HG13	1.92	0.70
19:AS:9:PHE:CD1	19:AS:10:ILE:N	2.60	0.70
21:AU:25:ALA:HB3	23:AX:9:G:C5'	2.22	0.70
1:BA:1284:C:C6	1:BA:1285:A:C8	2.80	0.70
6:BF:86:ARG:CG	6:BF:86:ARG:HH11	2.05	0.70
16:BP:61:VAL:HG22	16:BP:67:ILE:HD11	1.73	0.70
25:CA:2114:A:H2'	25:CA:2114:A:N3	2.06	0.70
34:CJ:81:ILE:CG1	34:CJ:82:GLY:N	2.48	0.70
49:DY:23:ARG:O	49:DY:24:GLU:C	2.35	0.70
1:AA:435:A:C6	1:AA:436:C:C4	2.80	0.70
1:AA:657:U:O2	15:AO:21:THR:CG2	2.39	0.70
16:AP:75:ILE:HG22	16:AP:80:LYS:HE2	1.73	0.70
1:BA:279:A:H5"	1:BA:281:G:O4'	1.92	0.70
1:BA:1221:G:H4'	19:BS:76:THR:HG21	1.74	0.70
5:BE:153:ALA:HA	5:BE:157:GLY:N	2.06	0.70
9:BI:17:ARG:O	9:BI:64:ILE:HA	1.91	0.70
12:BL:76:HIS:O	12:BL:77:SER:HB2	1.92	0.70
25:CA:1056:G:H4'	25:CA:1086:A:C8	2.26	0.70
25:CA:2404:U:H2'	25:CA:2405:G:O5'	1.92	0.70
29:CE:12:LEU:HD23	29:CE:13:THR:N	2.07	0.70
25:DA:459:U:H5"	53:D2:40:ALA:HB2	1.74	0.70
25:DA:512:G:C8	60:DA:3778:HOH:O	2.44	0.70
25:DA:1060:U:C4'	25:DA:1061:U:H5'	2.21	0.70
25:DA:1379:U:C6	25:DA:1379:U:OP1	2.45	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1435:G:O2'	25:DA:1436:G:H5'	1.91	0.70
25:DA:2326:C:C1'	25:DA:2327:A:OP1	2.40	0.70
28:DD:104:VAL:O	28:DD:105:LYS:HB3	1.90	0.70
1:AA:792:A:H4'	1:AA:793:U:O5'	1.92	0.69
2:AB:81:ASP:O	2:AB:83:ALA:N	2.23	0.69
2:AB:136:ARG:O	2:AB:139:GLU:HB3	1.92	0.69
5:AE:131:ASN:C	5:AE:131:ASN:HD22	1.99	0.69
10:AJ:48:ARG:C	10:AJ:49:PHE:CD1	2.70	0.69
1:BA:560:A:N7	1:BA:566:G:C4	2.60	0.69
3:BC:21:TRP:CD1	3:BC:56:ILE:HG22	2.27	0.69
6:BF:19:PRO:HA	6:BF:22:ILE:CD1	2.22	0.69
25:CA:1178:C:H2'	25:CA:1179:G:N7	2.06	0.69
33:CI:100:ILE:O	33:CI:140:GLU:HB2	1.91	0.69
38:CN:75:ILE:O	38:CN:79:LEU:HD12	1.91	0.69
25:DA:910:A:C5	37:DM:13:HIS:CD2	2.80	0.69
29:DE:126:VAL:HG22	29:DE:133:LEU:HD13	1.73	0.69
3:AC:166:TRP:N	3:AC:166:TRP:CE3	2.60	0.69
5:AE:135:VAL:O	5:AE:138:ALA:HB3	1.92	0.69
24:AY:33:ALA:HB1	24:AY:66:LEU:HD21	1.74	0.69
1:BA:471:U:H2'	1:BA:472:U:O4'	1.91	0.69
1:BA:852:G:C5	1:BA:853:C:C5	2.81	0.69
1:BA:1072:G:C5	1:BA:1073:U:C5	2.79	0.69
3:BC:174:LEU:O	3:BC:174:LEU:HD12	1.92	0.69
14:BN:22:LYS:HG3	14:BN:23:ARG:HG3	1.74	0.69
25:CA:528:A:C2	25:CA:2043:C:H4'	2.28	0.69
25:CA:811:U:C4	36:CL:21:ARG:NH2	2.60	0.69
25:CA:2120:G:O2'	25:CA:2121:G:H5'	1.91	0.69
25:CA:2852:G:H2'	25:CA:2853:C:H6	1.57	0.69
29:CE:28:VAL:O	29:CE:32:VAL:HG22	1.92	0.69
30:CF:123:GLY:HA2	30:CF:162:ASP:OD1	1.92	0.69
25:DA:1416:G:O2'	25:DA:1417:C:OP2	2.05	0.69
25:DA:2209:G:C2	25:DA:2216:G:C2	2.79	0.69
25:DA:2492:U:C2'	25:DA:2493:U:H5'	2.22	0.69
25:DA:2637:U:H2'	25:DA:2638:G:H5'	1.74	0.69
25:DA:2711:A:OP2	60:DA:3551:HOH:O	2.09	0.69
25:DA:2893:A:C4'	25:DA:2894:G:H5'	2.22	0.69
29:DE:76:PRO:HA	29:DE:82:GLY:HA3	1.75	0.69
30:DF:39:VAL:HG11	30:DF:42:ALA:HB2	1.74	0.69
1:AA:10:A:O2'	1:AA:11:G:H5'	1.92	0.69
1:AA:513:C:H2'	1:AA:514:C:C6	2.27	0.69
2:AB:95:TRP:CZ2	2:AB:99:MET:HG2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:195:VAL:HG11	2:AB:198:VAL:HA	1.73	0.69
5:AE:140:ILE:HG22	5:AE:141:ASP:N	2.05	0.69
13:AM:40:GLU:HG3	13:AM:41:ASP:N	2.08	0.69
21:AU:13:VAL:CG1	21:AU:15:LEU:HD21	2.22	0.69
1:BA:114:U:C2'	1:BA:115:G:H5'	2.22	0.69
4:BD:25:ARG:HG3	4:BD:26:ALA:CA	2.22	0.69
17:BQ:13:SER:OG	17:BQ:16:MET:HE1	1.92	0.69
32:CH:72:ILE:HG22	32:CH:73:ASN:N	2.06	0.69
33:DI:98:GLY:HA3	33:DI:137:LEU:HD23	1.74	0.69
1:AA:1303:C:OP1	60:AA:1796:HOH:O	2.09	0.69
21:AU:38:GLU:CA	21:AU:40:PRO:HD2	2.23	0.69
1:BA:200:G:H2'	1:BA:201:G:H5'	1.73	0.69
1:BA:254:G:OP1	17:BQ:68:LYS:O	2.10	0.69
1:BA:1222:G:O6	60:BA:1862:HOH:O	2.09	0.69
3:BC:88:LYS:HD3	3:BC:89:VAL:HG13	1.74	0.69
5:BE:155:LYS:HA	5:BE:158:LYS:NZ	2.07	0.69
7:BG:78:ARG:HG2	7:BG:83:THR:HA	1.74	0.69
21:BU:8:ASN:N	21:BU:11:PHE:HE2	1.90	0.69
25:CA:1784:A:P	60:CA:3703:HOH:O	2.50	0.69
25:CA:1929:G:N3	25:CA:1929:G:H5'	2.07	0.69
25:CA:2131:U:H5'	25:CA:2132:U:H5"	1.74	0.69
27:CC:35:LYS:O	27:CC:36:ASN:HB3	1.89	0.69
29:CE:104:ALA:O	29:CE:108:ILE:HG22	1.91	0.69
29:CE:189:THR:HG22	29:CE:192:ALA:N	2.07	0.69
25:DA:1587:G:C4	25:DA:1588:G:C8	2.81	0.69
56:DB:10:G:C8	56:DB:11:C:C5	2.81	0.69
56:DB:48:U:H4'	39:DO:100:HIS:CD2	2.28	0.69
39:DO:37:ALA:HB2	39:DO:106:LEU:HD11	1.73	0.69
49:DY:11:VAL:HA	49:DY:14:LEU:HB2	1.73	0.69
8:AH:46:GLU:CB	8:AH:63:LYS:HG2	2.22	0.69
17:AQ:11:VAL:HG12	17:AQ:12:VAL:N	2.06	0.69
18:AR:60:ARG:O	18:AR:63:TYR:HB3	1.93	0.69
7:BG:64:ALA:HB1	7:BG:126:ALA:CB	2.23	0.69
7:BG:79:VAL:HG12	7:BG:80:GLY:N	2.06	0.69
12:BL:24:GLU:CB	12:BL:26:CYS:SG	2.80	0.69
25:CA:1073:A:N7	25:CA:1074:G:H8	1.90	0.69
25:CA:2547:A:H4'	35:CK:29:HIS:CE1	2.28	0.69
32:CH:13:GLY:O	32:CH:14:SER:HB3	1.92	0.69
25:DA:194:G:N7	60:DA:3767:HOH:O	2.24	0.69
25:DA:1776:G:N7	60:DA:3452:HOH:O	2.23	0.69
25:DA:1784:A:H4'	25:DA:1785:A:O5'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2305:U:H2'	25:DA:2306:C:C6	2.27	0.69
25:DA:2511:U:O4	25:DA:2575:C:N3	2.24	0.69
56:DB:49:C:OP1	39:DO:101:GLY:HA3	1.92	0.69
27:DC:123:ILE:HD11	27:DC:135:PRO:HD3	1.74	0.69
33:DI:31:GLY:HA3	33:DI:60:VAL:HG11	1.73	0.69
33:DI:49:GLU:OE1	33:DI:52:LEU:HD13	1.91	0.69
38:DN:103:ARG:HB2	38:DN:110:MET:CE	2.20	0.69
1:AA:768:A:C2'	1:AA:769:G:H5'	2.22	0.69
1:AA:1126:U:O4'	1:AA:1281:C:O2	2.11	0.69
3:AC:10:ARG:HE	3:AC:177:LEU:HA	1.58	0.69
14:AN:61:ARG:O	14:AN:62:ASN:HB2	1.91	0.69
21:AU:25:ALA:HB1	23:AX:9:G:H5"	1.74	0.69
1:BA:451:A:N6	1:BA:481:G:H5'	2.07	0.69
1:BA:965:U:HO2'	1:BA:966:G:P	2.16	0.69
1:BA:1048:G:H4'	14:BN:2:LYS:HE3	1.74	0.69
4:BD:43:ARG:HA	4:BD:43:ARG:NE	2.08	0.69
25:CA:1073:A:C3'	25:CA:1074:G:H5"	2.23	0.69
25:CA:1372:U:O2'	25:CA:1373:A:H5'	1.93	0.69
25:CA:1462:C:O2'	25:CA:1463:C:H5"	1.92	0.69
25:CA:1486:U:O2'	25:CA:1487:U:H5'	1.92	0.69
27:CC:51:ARG:HH22	27:CC:246:PRO:HG3	1.57	0.69
31:CG:39:ALA:HA	31:CG:57:TYR:CD1	2.28	0.69
36:CL:109:LYS:HE2	36:CL:128:THR:HG22	1.74	0.69
25:DA:204:A:O4'	25:DA:206:U:C6	2.46	0.69
25:DA:611:C:C2'	25:DA:612:G:H5'	2.22	0.69
25:DA:1071:G:C2'	25:DA:1072:C:H5"	2.22	0.69
25:DA:1444:G:H2'	25:DA:1445:G:H8	1.56	0.69
25:DA:2498:C:OP2	60:DA:3689:HOH:O	2.10	0.69
25:DA:2499:C:N3	60:DA:3536:HOH:O	2.25	0.69
25:DA:2731:G:C6	25:DA:2732:G:O6	2.44	0.69
30:DF:100:GLU:O	30:DF:101:ARG:C	2.36	0.69
32:DH:76:GLU:HG2	32:DH:76:GLU:O	1.92	0.69
32:DH:76:GLU:O	32:DH:143:ILE:HB	1.93	0.69
3:AC:137:VAL:HA	3:AC:148:ILE:HD13	1.74	0.69
3:AC:139:ASN:HA	3:AC:142:ARG:HB2	1.74	0.69
5:AE:14:LEU:HB3	5:AE:36:THR:HG22	1.73	0.69
14:AN:47:LYS:HB3	19:AS:12:LEU:HD21	1.75	0.69
17:AQ:7:LEU:HB2	17:AQ:60:ILE:HG22	1.73	0.69
1:BA:632:U:H2'	1:BA:632:U:O2	1.92	0.69
1:BA:929:G:C5	1:BA:930:C:C5	2.81	0.69
5:BE:37:VAL:HG11	5:BE:113:VAL:HA	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:152:VAL:O	5:BE:153:ALA:C	2.35	0.69
15:BO:62:ARG:O	15:BO:66:LEU:HD12	1.93	0.69
25:CA:2881:U:O2'	25:CA:2882:A:H5'	1.93	0.69
27:CC:16:VAL:CB	27:CC:203:VAL:HG22	2.23	0.69
31:CG:148:ARG:CG	31:CG:148:ARG:HH11	2.06	0.69
27:DC:140:VAL:HG11	27:DC:189:ALA:HB1	1.73	0.69
32:DH:3:VAL:HG12	32:DH:38:PRO:HA	1.73	0.69
1:AA:108:G:C5	20:AT:9:ARG:HG2	2.28	0.69
1:AA:111:G:H5"	1:AA:112:G:OP2	1.93	0.69
1:AA:613:C:C2'	1:AA:614:C:H5'	2.22	0.69
1:AA:663:A:O2'	1:AA:664:G:H5'	1.93	0.69
2:AB:131:LYS:O	2:AB:135:MET:SD	2.51	0.69
3:AC:142:ARG:HG3	3:AC:143:LEU:HD13	1.74	0.69
5:AE:136:VAL:O	5:AE:137:ARG:HB2	1.93	0.69
9:AI:25:GLY:N	9:AI:58:GLU:HA	2.08	0.69
12:AL:23:LEU:O	12:AL:24:GLU:C	2.34	0.69
13:AM:74:MET:SD	30:CF:111:ARG:CB	2.81	0.69
13:AM:76:ILE:CG2	13:AM:80:MET:HE1	2.22	0.69
13:AM:113:LYS:CB	13:AM:114:PRO:HD3	2.23	0.69
1:BA:801:U:H2'	1:BA:802:A:H8	1.58	0.69
1:BA:832:G:H2'	1:BA:833:G:H5'	1.74	0.69
2:BB:143:LEU:HD23	2:BB:143:LEU:H	1.57	0.69
4:BD:90:LEU:HA	4:BD:93:LEU:HD12	1.73	0.69
4:BD:150:LYS:HB2	4:BD:155:LYS:HE3	1.74	0.69
21:BU:13:VAL:HG12	21:BU:15:LEU:CD2	2.22	0.69
21:BU:25:ALA:HB3	23:BX:8:A:H5"	1.74	0.69
25:CA:265:A:H4'	25:CA:266:G:OP1	1.91	0.69
25:CA:662:G:H2'	25:CA:663:G:H5'	1.75	0.69
25:CA:1067:A:H2'	25:CA:1067:A:N3	2.06	0.69
30:CF:7:TYR:HA	30:CF:11:VAL:CG2	2.22	0.69
25:DA:135:U:H2'	25:DA:136:G:C8	2.27	0.69
25:DA:223:A:C8	25:DA:422:A:H1'	2.28	0.69
25:DA:1250:G:OP2	36:DL:21:ARG:NH2	2.26	0.69
25:DA:1412:U:H2'	25:DA:1413:A:C8	2.27	0.69
25:DA:1592:C:H2'	25:DA:1593:A:C8	2.28	0.69
25:DA:2531:A:C4	25:DA:2532:G:C8	2.80	0.69
25:DA:2547:A:H2'	25:DA:2548:U:C6	2.27	0.69
25:DA:2768:U:H2'	25:DA:2769:U:O5'	1.93	0.69
31:DG:3:VAL:HG12	31:DG:68:ARG:CG	2.22	0.69
1:AA:436:C:H4'	4:AD:152:SER:CB	2.23	0.69
1:AA:1032:G:H3'	1:AA:1033:G:O4'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1049:U:H4'	1:AA:1050:G:OP2	1.92	0.69
8:AH:63:LYS:HB2	8:AH:70:VAL:HG21	1.73	0.69
8:AH:110:MET:HE2	8:AH:115:ALA:N	2.07	0.69
9:AI:43:ALA:HA	9:AI:45:MET:SD	2.33	0.69
13:AM:1:ALA:O	13:AM:9:PRO:HD2	1.93	0.69
21:AU:13:VAL:O	21:AU:15:LEU:CD1	2.41	0.69
22:AV:18:G:C2'	22:AV:58:A:C2	2.75	0.69
1:BA:1000:A:C4	1:BA:1041:G:N2	2.61	0.69
13:BM:14:ALA:O	13:BM:18:LEU:HD23	1.93	0.69
25:CA:2291:U:H2'	25:CA:2292:U:C6	2.28	0.69
36:CL:76:GLU:C	36:CL:77:ILE:HD13	2.17	0.69
40:CP:1:SER:O	40:CP:5:LYS:HG2	1.92	0.69
46:CV:4:ILE:HG13	46:CV:50:MET:HE1	1.75	0.69
46:CV:80:HIS:CG	46:CV:81:PRO:CD	2.76	0.69
49:CY:5:GLU:HG3	49:CY:56:LEU:CD1	2.21	0.69
50:CZ:1:ALA:HB1	50:CZ:2:LYS:CE	2.22	0.69
25:DA:1356:G:C4	25:DA:1357:C:C6	2.81	0.69
25:DA:2403:C:C2	25:DA:2404:U:C5	2.81	0.69
45:DU:7:ASP:O	45:DU:8:ASP:HB2	1.92	0.69
49:DY:48:ARG:O	49:DY:51:ALA:HB3	1.93	0.69
1:AA:1187:G:H5'	9:AI:114:LYS:HE3	1.74	0.69
2:AB:40:ILE:C	2:AB:40:ILE:HD13	2.17	0.69
2:AB:218:ALA:O	2:AB:219:THR:HG22	1.92	0.69
4:AD:146:GLU:O	4:AD:149:LYS:HB2	1.93	0.69
8:AH:98:LEU:HD23	8:AH:98:LEU:N	2.08	0.69
11:AK:51:PHE:CZ	11:AK:64:VAL:HG11	2.28	0.69
13:AM:28:ARG:HD2	13:AM:62:PHE:CD2	2.28	0.69
1:BA:595:A:C2	1:BA:641:U:C2	2.81	0.69
8:BH:79:ARG:HB2	8:BH:80:PRO:CD	2.23	0.69
15:BO:85:GLY:O	15:BO:86:LEU:HB3	1.91	0.69
25:CA:1056:G:N2	25:CA:1104:C:N4	2.40	0.69
27:CC:120:ASP:O	27:CC:121:ALA:C	2.36	0.69
31:CG:11:PRO:HD2	31:CG:14:VAL:HG21	1.72	0.69
33:CI:4:VAL:O	33:CI:5:GLN:CB	2.40	0.69
40:CP:71:ARG:HD3	40:CP:73:PHE:CZ	2.28	0.69
25:DA:548:G:H4'	25:DA:549:G:C2	2.28	0.69
25:DA:692:C:H2'	25:DA:693:A:O5'	1.93	0.69
25:DA:1739:A:H2'	25:DA:1740:G:O5'	1.92	0.69
25:DA:2331:G:O2'	25:DA:2336:A:N1	2.26	0.69
25:DA:2637:U:C2'	25:DA:2638:G:H5'	2.23	0.69
31:DG:70:LEU:O	31:DG:74:MET:HG3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:104:G:O2'	1:AA:105:G:H5'	1.93	0.68
1:AA:1351:U:H2'	1:AA:1352:C:C6	2.29	0.68
2:AB:64:GLY:C	2:AB:65:LYS:HD3	2.17	0.68
6:AF:64:VAL:CG1	6:AF:65:GLU:N	2.56	0.68
14:AN:10:VAL:O	14:AN:13:VAL:HG12	1.93	0.68
1:BA:71:A:H8	1:BA:71:A:H5'	1.57	0.68
1:BA:299:G:H2'	1:BA:300:A:C8	2.28	0.68
1:BA:832:G:C2'	1:BA:833:G:H5'	2.23	0.68
1:BA:983:A:N3	1:BA:983:A:C2'	2.56	0.68
12:BL:24:GLU:HB3	12:BL:26:CYS:SG	2.33	0.68
14:BN:24:ALA:O	14:BN:27:LYS:HG3	1.92	0.68
25:CA:630:G:H5"	25:CA:631:A:OP2	1.94	0.68
25:CA:978:G:C2'	25:CA:979:A:H5'	2.22	0.68
25:CA:1866:A:C2	25:CA:1876:A:C4	2.81	0.68
25:CA:2473:U:C5	25:CA:2474:U:H5	2.10	0.68
25:DA:137:U:OP2	25:DA:137:U:C5	2.46	0.68
25:DA:1605:C:C2'	25:DA:1606:C:H5'	2.23	0.68
25:DA:2800:A:C2	25:DA:2895:G:H1'	2.28	0.68
27:DC:16:VAL:HB	27:DC:203:VAL:HG13	1.74	0.68
33:DI:70:THR:C	33:DI:71:LYS:HD3	2.18	0.68
57:DW:41:PHE:O	57:DW:55:LEU:HD11	1.93	0.68
1:AA:223:A:H2'	1:AA:224:U:C6	2.28	0.68
1:AA:1038:C:C2'	1:AA:1039:G:H5'	2.23	0.68
1:AA:1118:U:C5'	9:AI:105:ARG:HG3	2.24	0.68
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.58	0.68
1:BA:370:C:O2'	1:BA:371:A:H5'	1.93	0.68
1:BA:613:C:O2'	1:BA:614:C:H5'	1.94	0.68
1:BA:1072:G:H3'	1:BA:1073:U:H6	1.58	0.68
1:BA:1142:G:C5	1:BA:1143:G:H1'	2.28	0.68
6:BF:6:ILE:HA	6:BF:88:MET:O	1.92	0.68
12:BL:27:PRO:HB2	12:BL:28:GLN:OE1	1.92	0.68
12:BL:78:VAL:N	12:BL:102:ASP:OD2	2.25	0.68
21:BU:25:ALA:CB	23:BX:8:A:H5"	2.23	0.68
28:CD:12:THR:HG23	40:CP:8:GLU:OE2	1.94	0.68
37:CM:15:GLY:O	37:CM:16:ARG:CD	2.41	0.68
25:DA:783:A:C8	25:DA:784:G:H4'	2.28	0.68
25:DA:1031:G:H4'	55:D4:6:SER:HB2	1.75	0.68
25:DA:1187:G:H5"	42:DR:83:TYR:CE2	2.28	0.68
25:DA:1351:C:O2'	25:DA:1571:A:H1'	1.93	0.68
28:DD:25:THR:HG21	28:DD:193:VAL:CG2	2.24	0.68
37:DM:124:LEU:HD23	37:DM:124:LEU:N	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DU:65:GLN:OE1	45:DU:65:GLN:HA	1.91	0.68
46:DV:51:GLN:HB3	46:DV:56:PHE:CD2	2.28	0.68
49:DY:8:GLU:HA	49:DY:12:GLU:HG3	1.75	0.68
1:AA:11:G:C2'	1:AA:12:U:O5'	2.42	0.68
1:AA:468:A:C2	1:AA:469:C:C4	2.82	0.68
1:AA:513:C:H2'	1:AA:514:C:O5'	1.93	0.68
1:AA:659:U:O2	1:AA:659:U:H2'	1.93	0.68
9:AI:43:ALA:CA	9:AI:45:MET:SD	2.81	0.68
11:AK:124:LYS:HG2	11:AK:125:LYS:N	2.08	0.68
1:BA:383:A:H2'	1:BA:384:G:H5'	1.75	0.68
25:CA:12:U:H2'	25:CA:12:U:O2	1.92	0.68
25:CA:1565:C:H3'	27:CC:17:LYS:HZ2	1.58	0.68
25:CA:2106:U:H5"	25:CA:2107:G:OP2	1.93	0.68
25:CA:2785:C:O2'	28:CD:67:HIS:HD2	1.76	0.68
30:CF:150:GLY:O	30:CF:151:LEU:HB2	1.92	0.68
33:CI:100:ILE:HG21	33:CI:105:LEU:HD12	1.73	0.68
33:CI:101:SER:HA	33:CI:140:GLU:C	2.18	0.68
25:DA:548:G:O2'	25:DA:549:G:C5	2.45	0.68
25:DA:585:G:H5"	25:DA:586:A:OP1	1.94	0.68
25:DA:1788:C:C2'	25:DA:1789:A:H5'	2.23	0.68
25:DA:1936:A:H2	25:DA:1943:U:H3	1.40	0.68
25:DA:2310:C:H2'	25:DA:2311:A:O5'	1.93	0.68
56:DB:41:G:H8	30:DF:65:LEU:HD11	1.59	0.68
29:DE:155:GLU:HG3	29:DE:159:LEU:HD12	1.73	0.68
1:AA:414:A:H2'	1:AA:415:A:H8	1.58	0.68
1:AA:718:A:H2'	1:AA:719:C:H5'	1.75	0.68
2:AB:88:GLN:C	2:AB:89:PHE:CD2	2.72	0.68
3:AC:139:ASN:HA	3:AC:142:ARG:HB3	1.74	0.68
3:AC:166:TRP:C	3:AC:166:TRP:HE3	2.00	0.68
21:AU:3:ILE:N	21:AU:19:LYS:HE3	2.09	0.68
1:BA:628:G:H2'	1:BA:629:A:C8	2.29	0.68
8:BH:115:ALA:HA	8:BH:118:ALA:HB3	1.75	0.68
9:BI:98:ARG:HA	9:BI:103:VAL:HG21	1.75	0.68
15:BO:73:ASP:CG	15:BO:76:ARG:HG3	2.18	0.68
25:CA:585:G:O2'	29:CE:77:ILE:HG22	1.93	0.68
28:CD:56:LYS:O	28:CD:57:ALA:C	2.36	0.68
30:CF:157:THR:CG2	30:CF:159:ALA:HB3	2.23	0.68
28:DD:151:THR:HG22	28:DD:152:PRO:CD	2.22	0.68
29:DE:149:ILE:CG2	29:DE:188:MET:HG2	2.23	0.68
32:DH:4:ILE:HG23	32:DH:17:ASP:O	1.93	0.68
1:AA:804:U:H5"	1:AA:805:C:OP2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:937:A:C2	1:AA:1379:G:O6	2.47	0.68
9:AI:6:TYR:HB2	9:AI:19:PHE:HA	1.76	0.68
9:AI:83:THR:HB	9:AI:97:LEU:HD21	1.74	0.68
12:AL:2:THR:HB	12:AL:5:GLN:HG3	1.76	0.68
19:AS:4:LEU:O	19:AS:5:LYS:HG3	1.94	0.68
1:BA:994:A:C2	1:BA:995:C:C6	2.81	0.68
2:BB:182:VAL:N	2:BB:196:ASP:OD1	2.27	0.68
2:BB:205:ALA:O	2:BB:207:ARG:N	2.26	0.68
21:BU:36:PHE:HA	21:BU:39:LYS:HE3	1.76	0.68
25:CA:1172:C:C4	25:CA:1173:U:C6	2.82	0.68
29:CE:18:THR:HG21	29:CE:19:PHE:CE2	2.28	0.68
29:CE:149:ILE:HD12	29:CE:150:THR:N	2.08	0.68
45:CU:48:VAL:O	45:CU:53:GLN:CB	2.42	0.68
25:DA:2652:C:H2'	25:DA:2653:U:H5'	1.75	0.68
25:DA:2730:C:O2'	25:DA:2731:G:H5'	1.93	0.68
27:DC:173:LEU:HD22	27:DC:183:VAL:HG23	1.75	0.68
27:DC:261:ARG:HG2	27:DC:262:THR:HG23	1.73	0.68
32:DH:9:VAL:CG2	32:DH:35:LYS:HE2	2.23	0.68
40:DP:9:GLN:HA	40:DP:12:MET:SD	2.34	0.68
49:DY:45:GLN:O	49:DY:48:ARG:N	2.26	0.68
1:AA:260:G:H2'	1:AA:261:U:C6	2.29	0.68
3:AC:141:MET:HE1	3:AC:147:GLY:HA2	1.75	0.68
1:BA:1535:C:O2'	1:BA:1536:C:OP2	2.08	0.68
2:BB:46:VAL:HB	2:BB:47:PRO:HD3	1.76	0.68
7:BG:50:ALA:HB1	7:BG:56:SER:O	1.94	0.68
25:CA:1505:A:H2'	25:CA:1506:U:O4'	1.92	0.68
29:CE:146:VAL:CG2	29:CE:167:VAL:HG22	2.24	0.68
25:DA:1551:A:H2'	25:DA:1552:A:C5'	2.23	0.68
25:DA:1570:A:H2'	25:DA:1571:A:C8	2.29	0.68
28:DD:148:GLN:HB2	28:DD:152:PRO:HG2	1.75	0.68
1:AA:276:G:OP1	17:AQ:16:MET:HE2	1.94	0.68
4:AD:25:ARG:HD2	4:AD:30:LYS:HE2	1.75	0.68
4:AD:57:LYS:HB3	4:AD:199:ILE:CB	2.24	0.68
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.94	0.68
10:AJ:52:LEU:HB3	14:AN:81:ARG:HE	1.58	0.68
15:AO:6:ALA:O	15:AO:10:ILE:HD12	1.92	0.68
3:BC:54:ILE:HD13	3:BC:56:ILE:CD1	2.24	0.68
6:BF:16:GLU:O	6:BF:19:PRO:HD2	1.92	0.68
6:BF:98:GLU:HG3	6:BF:99:ALA:N	2.07	0.68
25:CA:1494:A:C2	25:CA:1495:A:C4	2.82	0.68
26:CB:7:G:H2'	26:CB:8:C:H5'	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:340:A:H2'	25:DA:341:C:O4'	1.94	0.68
25:DA:1429:G:C2	25:DA:1430:G:C5	2.82	0.68
25:DA:1566:A:O2'	25:DA:1567:G:H5'	1.94	0.68
27:DC:66:PHE:HB3	27:DC:150:GLY:O	1.94	0.68
1:AA:204:G:H3'	1:AA:205:A:H5"	1.76	0.68
13:AM:5:GLY:C	13:AM:7:ASN:N	2.51	0.68
14:AN:20:PHE:C	14:AN:22:LYS:H	1.99	0.68
17:AQ:44:HIS:ND1	17:AQ:69:THR:CG2	2.56	0.68
1:BA:87:C:H2'	1:BA:88:U:C6	2.29	0.68
3:BC:133:MET:CE	3:BC:167:TYR:HB2	2.24	0.68
17:BQ:12:VAL:HG12	17:BQ:21:VAL:O	1.92	0.68
25:CA:978:G:N7	60:CA:3592:HOH:O	2.26	0.68
25:CA:1509:A:N3	25:CA:1510:G:C8	2.62	0.68
25:CA:1734:G:H2'	25:CA:1735:A:H8	1.59	0.68
25:CA:1860:G:C2'	25:CA:1861:G:H5'	2.24	0.68
25:DA:481:G:C4	25:DA:507:A:C2	2.82	0.68
25:DA:1551:A:C2'	25:DA:1552:A:H5'	2.24	0.68
25:DA:1593:A:H2'	25:DA:1594:U:O4'	1.93	0.68
25:DA:2528:U:O2'	25:DA:2529:G:H3'	1.94	0.68
35:DK:8:LEU:HD12	35:DK:8:LEU:N	2.08	0.68
1:AA:376:G:C2	1:AA:389:A:C2	2.81	0.68
1:AA:1314:C:O2	1:AA:1314:C:H2'	1.92	0.68
1:AA:1413:A:C5	1:AA:1414:U:C5	2.82	0.68
9:AI:117:LEU:HA	9:AI:124:PRO:HD3	1.76	0.68
21:AU:19:LYS:HE2	21:AU:19:LYS:N	2.09	0.68
21:AU:38:GLU:N	21:AU:40:PRO:CD	2.57	0.68
1:BA:1256:A:C8	1:BA:1258:G:C2	2.82	0.68
2:BB:125:PHE:HD2	2:BB:125:PHE:N	1.92	0.68
3:BC:21:TRP:CZ3	3:BC:31:ASN:ND2	2.62	0.68
4:BD:25:ARG:CG	4:BD:26:ALA:N	2.49	0.68
31:CG:71:LEU:HD12	31:CG:71:LEU:N	2.09	0.68
25:DA:1005:C:N3	25:DA:1143:A:C2	2.62	0.68
25:DA:1588:G:C4	25:DA:1589:U:C5	2.82	0.68
25:DA:2882:A:OP1	38:DN:96:ARG:HD3	1.93	0.68
25:DA:2893:A:C3'	25:DA:2894:G:H5'	2.23	0.68
27:DC:173:LEU:HD22	27:DC:183:VAL:CG2	2.24	0.68
29:DE:178:VAL:CG1	29:DE:179:SER:N	2.57	0.68
31:DG:59:ASP:OD2	31:DG:63:GLN:HG3	1.92	0.68
35:DK:76:VAL:CG1	40:DP:72:VAL:CG2	2.72	0.68
1:AA:158:G:H2'	1:AA:159:G:H5"	1.75	0.68
8:AH:1:SER:C	8:AH:3:GLN:H	2.01	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:33:SER:HB3	9:AI:36:GLN:HG3	1.74	0.68
12:AL:113:ARG:HD2	12:AL:118:VAL:HG12	1.76	0.68
14:AN:26:LEU:O	14:AN:27:LYS:HB3	1.93	0.68
22:AV:55:U:C2	22:AV:57:G:OP2	2.47	0.68
1:BA:484:G:N7	1:BA:486:U:H1'	2.09	0.68
4:BD:16:THR:HG22	4:BD:17:ASP:O	1.94	0.68
6:BF:19:PRO:HA	6:BF:22:ILE:HD12	1.75	0.68
6:BF:85:ILE:O	6:BF:86:ARG:O	2.11	0.68
16:BP:19:VAL:HG22	16:BP:36:VAL:HG12	1.76	0.68
25:CA:247:G:C8	25:CA:249:C:C6	2.82	0.68
25:CA:1060:U:O4'	25:CA:1062:G:H5'	1.94	0.68
27:CC:120:ASP:O	27:CC:121:ALA:O	2.12	0.68
36:CL:58:TYR:O	54:C3:12:ARG:NE	2.26	0.68
25:DA:2062:A:OP1	60:DA:3501:HOH:O	2.10	0.68
25:DA:2219:U:H2'	25:DA:2220:U:O5'	1.93	0.68
25:DA:2792:A:N3	25:DA:2792:A:H2'	2.09	0.68
37:DM:20:LEU:N	37:DM:20:LEU:HD22	2.09	0.68
1:AA:207:C:H2'	1:AA:208:U:C2	2.29	0.67
1:AA:1060:U:C4	3:AC:1:GLY:N	2.57	0.67
1:AA:1126:U:C6	1:AA:1281:C:N3	2.62	0.67
1:AA:1333:A:H2'	1:AA:1334:G:O5'	1.94	0.67
1:BA:453:G:H2'	1:BA:454:G:C8	2.29	0.67
1:BA:920:U:H2'	1:BA:921:U:C6	2.29	0.67
1:BA:1211:U:H1'	1:BA:1213:A:C2	2.27	0.67
1:BA:1316:G:C5	1:BA:1318:A:OP2	2.46	0.67
3:BC:152:VAL:HB	3:BC:197:VAL:HG22	1.75	0.67
5:BE:155:LYS:HE3	5:BE:155:LYS:N	2.09	0.67
17:BQ:45:VAL:HG13	17:BQ:72:TRP:C	2.19	0.67
23:BX:13:A:N3	23:BX:14:A:C8	2.62	0.67
25:CA:137:U:H2'	25:CA:140:C:C2	2.29	0.67
25:CA:1519:G:C4	25:CA:1520:U:C6	2.83	0.67
35:CK:8:LEU:HD12	35:CK:8:LEU:N	2.10	0.67
42:CR:21:ARG:NH1	42:CR:93:PHE:CE1	2.62	0.67
25:DA:479:A:H4'	25:DA:480:A:OP1	1.94	0.67
25:DA:1411:U:H2'	25:DA:1412:U:O4'	1.94	0.67
25:DA:2162:G:H1'	25:DA:2163:A:O5'	1.92	0.67
25:DA:2223:G:H2'	25:DA:2224:G:C5'	2.24	0.67
56:DB:21:G:C5	56:DB:22:U:C5	2.82	0.67
33:DI:9:LYS:CB	33:DI:55:PRO:HB2	2.25	0.67
1:AA:1348:U:H4'	9:AI:121:ARG:HG3	1.77	0.67
9:AI:51:LEU:HA	9:AI:54:VAL:HG23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:33:ILE:HB	11:AK:73:VAL:HG11	1.76	0.67
13:AM:33:LEU:HD22	13:AM:40:GLU:HA	1.76	0.67
1:BA:69:G:C4	1:BA:70:U:C5	2.81	0.67
1:BA:211:G:O2'	1:BA:212:G:C4'	2.42	0.67
1:BA:1338:G:H2'	1:BA:1339:A:C8	2.29	0.67
5:BE:109:ALA:O	5:BE:110:MET:HB2	1.94	0.67
20:BT:43:LYS:CG	20:BT:86:ALA:HA	2.24	0.67
20:BT:59:ARG:O	20:BT:63:LYS:HB2	1.95	0.67
25:CA:457:A:H5'	25:CA:459:U:H1'	1.75	0.67
25:CA:1171:G:C6	25:CA:1172:C:N3	2.62	0.67
25:CA:1589:U:H2'	25:CA:1589:U:O2	1.93	0.67
25:CA:2110:G:H2'	25:CA:2120:G:OP2	1.94	0.67
25:CA:2297:A:N1	25:CA:2321:U:H5	1.91	0.67
25:CA:2665:A:C2	25:CA:2666:C:C6	2.82	0.67
31:CG:100:ASN:H	31:CG:100:ASN:HD22	1.40	0.67
32:CH:10:ALA:O	32:CH:12:LEU:HD23	1.93	0.67
51:C0:43:THR:HG23	51:C0:47:TYR:O	1.94	0.67
25:DA:1448:G:C2	25:DA:1449:G:C4	2.83	0.67
25:DA:1971:U:H6	25:DA:1971:U:H3'	1.59	0.67
36:DL:126:ARG:O	36:DL:127:VAL:HG23	1.94	0.67
1:AA:152:A:N6	1:AA:170:U:C2	2.63	0.67
1:AA:232:G:H1'	1:AA:262:A:N1	2.08	0.67
1:AA:1303:C:C2'	1:AA:1304:G:O5'	2.42	0.67
2:AB:206:ILE:O	2:AB:209:VAL:HG23	1.94	0.67
12:AL:88:ASP:HB3	12:AL:89:LEU:HD12	1.77	0.67
17:AQ:3:LYS:HG3	17:AQ:6:THR:HG22	1.76	0.67
1:BA:101:A:H2'	1:BA:102:G:O5'	1.94	0.67
1:BA:143:A:H5'	1:BA:144:G:H5'	1.75	0.67
1:BA:192:A:C2'	1:BA:193:C:H5'	2.24	0.67
1:BA:1189:U:H5"	1:BA:1190:G:OP2	1.93	0.67
6:BF:11:HIS:CG	6:BF:12:PRO:HD2	2.30	0.67
8:BH:95:MET:HB2	8:BH:98:LEU:O	1.94	0.67
25:CA:2146:C:H5"	25:CA:2147:A:OP1	1.95	0.67
25:CA:2748:A:H1'	31:CG:66:THR:CG2	2.25	0.67
26:CB:53:A:H2'	26:CB:54:G:H5'	1.76	0.67
25:DA:301:G:H1'	25:DA:302:C:C6	2.30	0.67
25:DA:2491:U:C5'	25:DA:2570:G:H5"	2.24	0.67
25:DA:2591:C:C2'	25:DA:2592:G:H5'	2.24	0.67
32:DH:62:LEU:HD13	32:DH:63:ALA:CB	2.24	0.67
33:DI:17:ALA:HB1	33:DI:42:ASN:HD21	1.60	0.67
38:DN:87:PHE:O	38:DN:89:SER:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DR:53:PHE:N	42:DR:53:PHE:CD1	2.60	0.67
51:D0:24:VAL:O	51:D0:25:THR:OG1	2.08	0.67
1:AA:35:G:H2'	1:AA:36:C:H6	1.59	0.67
1:AA:141:G:C4	1:AA:142:G:C8	2.82	0.67
1:AA:459:A:C2	1:AA:460:A:C4	2.83	0.67
1:AA:1275:A:H2'	1:AA:1276:G:O4'	1.93	0.67
7:AG:59:GLU:HA	7:AG:62:GLU:HB2	1.76	0.67
3:BC:6:PRO:O	3:BC:9:ILE:HG22	1.94	0.67
5:BE:154:ALA:CB	5:BE:155:LYS:HE3	2.23	0.67
25:CA:995:C:H5'	25:CA:995:C:C6	2.30	0.67
25:CA:2425:A:H4'	25:CA:2426:A:O5'	1.94	0.67
29:CE:44:ARG:O	29:CE:45:ALA:HB2	1.93	0.67
31:CG:140:ILE:HD12	31:CG:141:GLY:N	2.10	0.67
42:CR:50:GLY:C	42:CR:51:VAL:O	2.34	0.67
25:DA:1350:C:C2	25:DA:1382:G:N2	2.63	0.67
25:DA:2195:U:C2	25:DA:2196:C:C6	2.83	0.67
27:DC:141:HIS:CB	27:DC:194:VAL:HG12	2.24	0.67
29:DE:149:ILE:HD11	29:DE:172:ALA:HA	1.75	0.67
1:AA:991:U:C5	1:AA:1212:U:H1'	2.29	0.67
1:AA:1057:G:H2'	1:AA:1058:G:O5'	1.95	0.67
1:AA:1490:U:O2'	1:AA:1491:G:H5'	1.94	0.67
2:AB:53:LEU:HD12	2:AB:219:THR:HG21	1.76	0.67
5:AE:93:VAL:HG21	5:AE:110:MET:SD	2.34	0.67
9:AI:18:VAL:HG11	9:AI:82:ILE:HA	1.75	0.67
17:BQ:7:LEU:HB3	17:BQ:24:ILE:HD13	1.76	0.67
19:BS:57:VAL:HG11	19:BS:74:ALA:HA	1.76	0.67
25:CA:1084:A:C3'	25:CA:1085:A:C8	2.77	0.67
25:CA:1313:U:P	60:CA:3390:HOH:O	2.52	0.67
26:CB:116:G:H4'	39:CO:54:VAL:HG22	1.76	0.67
27:CC:161:VAL:HG22	27:CC:175:LEU:HA	1.76	0.67
32:CH:2:GLN:C	32:CH:3:VAL:HG13	2.17	0.67
33:CI:27:LEU:O	33:CI:27:LEU:HD12	1.94	0.67
41:CQ:88:GLU:H	42:CR:49:ILE:HD12	1.60	0.67
49:CY:6:LEU:HD13	49:CY:56:LEU:HD22	1.77	0.67
25:DA:149:A:N3	25:DA:150:U:C6	2.63	0.67
32:DH:1:MET:O	32:DH:20:ASN:HA	1.95	0.67
33:DI:60:VAL:HG22	33:DI:66:PHE:HB3	1.76	0.67
33:DI:100:ILE:O	33:DI:101:SER:HB3	1.95	0.67
51:D0:33:SER:OG	51:D0:35:GLU:HG2	1.94	0.67
1:AA:1204:A:C5	1:AA:1205:U:C5	2.82	0.67
3:AC:111:ASP:O	3:AC:115:VAL:HG23	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:145:GLU:HA	7:AG:148:LYS:HB2	1.77	0.67
8:AH:46:GLU:CA	8:AH:63:LYS:HG2	2.25	0.67
10:AJ:40:ILE:HG22	10:AJ:73:LEU:HB2	1.77	0.67
10:AJ:59:LYS:HD2	10:AJ:59:LYS:C	2.19	0.67
11:AK:127:ARG:HH11	11:AK:127:ARG:HG2	1.60	0.67
20:AT:26:MET:HE3	20:AT:56:ILE:CD1	2.25	0.67
21:AU:18:PHE:O	21:AU:21:SER:CB	2.42	0.67
24:AY:19:GLU:O	24:AY:23:THR:HG23	1.95	0.67
1:BA:1029:U:O2	1:BA:1029:U:H2'	1.94	0.67
1:BA:1078:U:C2'	1:BA:1079:G:H5'	2.25	0.67
1:BA:1231:G:H4'	9:BI:127:SER:HB2	1.76	0.67
4:BD:170:LEU:HD12	4:BD:170:LEU:N	2.09	0.67
4:BD:172:VAL:HG13	4:BD:173:ASP:H	1.59	0.67
5:BE:106:ALA:HA	5:BE:124:ALA:HB3	1.76	0.67
15:BO:72:LYS:HE2	15:BO:72:LYS:HA	1.75	0.67
25:CA:381:G:OP1	48:CX:17:ARG:NH2	2.27	0.67
25:CA:1055:G:H5"	25:CA:1056:G:OP2	1.95	0.67
25:CA:1180:U:H2'	25:CA:1181:U:H5'	1.75	0.67
25:CA:1567:G:C8	27:CC:82:TYR:HE1	2.11	0.67
25:CA:2305:U:H1'	30:CF:132:ARG:HG2	1.75	0.67
25:CA:2308:G:C5	30:CF:76:PHE:CZ	2.83	0.67
25:DA:1096:A:H2'	25:DA:1097:U:H5"	1.77	0.67
25:DA:1181:U:H5"	25:DA:1182:G:P	2.35	0.67
25:DA:1354:A:C8	25:DA:1355:G:C8	2.83	0.67
25:DA:1383:A:C2	25:DA:1384:A:C4	2.82	0.67
25:DA:1439:A:C2	25:DA:1553:A:C5	2.83	0.67
30:DF:19:PHE:HB2	30:DF:21:TYR:CE2	2.28	0.67
42:DR:51:VAL:HB	42:DR:52:PRO:CD	2.24	0.67
1:AA:198:G:C5	1:AA:220:G:C2	2.83	0.67
1:AA:481:G:O2'	1:AA:482:A:C8	2.48	0.67
4:AD:202:LEU:HD23	4:AD:203:TYR:CE2	2.30	0.67
10:AJ:56:HIS:O	10:AJ:57:VAL:HG12	1.95	0.67
1:BA:247:G:OP1	1:BA:247:G:H4'	1.92	0.67
1:BA:1540:U:H4'	21:BU:17:ARG:HG2	1.76	0.67
10:BJ:66:GLU:HG3	14:BN:99:ALA:HB2	1.77	0.67
20:BT:53:MET:HG3	20:BT:54:GLN:N	2.09	0.67
25:CA:1060:U:H5'	25:CA:1062:G:C5'	2.25	0.67
25:CA:1854:A:C3'	25:CA:1855:U:H5'	2.25	0.67
26:CB:7:G:C2'	26:CB:8:C:H5'	2.24	0.67
30:CF:157:THR:HG23	30:CF:159:ALA:H	1.59	0.67
32:CH:7:ASP:HA	32:CH:15:LEU:HD22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:295:G:C2	25:DA:296:U:C5	2.83	0.67
25:DA:1165:A:H2'	25:DA:1166:G:H8	1.60	0.67
25:DA:2492:U:H2'	25:DA:2493:U:H5'	1.75	0.67
27:DC:226:PRO:HD3	27:DC:233:GLY:HA2	1.75	0.67
40:DP:74:GLN:HB2	40:DP:77:SER:HB2	1.76	0.67
44:DT:69:ARG:HG3	44:DT:74:ILE:CG2	2.25	0.67
49:DY:9:LYS:N	49:DY:12:GLU:CG	2.57	0.67
1:AA:143:A:H5'	1:AA:144:G:H5'	1.75	0.67
9:AI:24:ASN:HB3	9:AI:58:GLU:OE1	1.95	0.67
20:AT:53:MET:HE3	20:AT:54:GLN:HA	1.77	0.67
1:BA:189:A:H2'	1:BA:190:A:O5'	1.93	0.67
1:BA:1053:G:C5'	1:BA:1054:C:H5'	2.24	0.67
11:BK:64:VAL:HA	11:BK:67:GLU:HG3	1.76	0.67
14:BN:43:ASN:HA	14:BN:45:VAL:HG22	1.76	0.67
25:CA:1180:U:H2'	25:CA:1181:U:C5'	2.24	0.67
25:CA:1565:C:H3'	27:CC:17:LYS:NZ	2.10	0.67
25:CA:2155:U:H2'	25:CA:2156:G:O4'	1.95	0.67
26:CB:20:G:O2'	26:CB:21:G:H5'	1.95	0.67
28:CD:103:ASP:OD1	28:CD:103:ASP:C	2.38	0.67
33:CI:121:ILE:HA	33:CI:124:MET:SD	2.34	0.67
38:CN:103:ARG:CD	38:CN:110:MET:HE2	2.25	0.67
45:CU:6:ARG:O	45:CU:7:ASP:C	2.38	0.67
49:CY:17:GLU:O	49:CY:18:LEU:C	2.35	0.67
25:DA:740:C:H5'	25:DA:1784:A:H3'	1.75	0.67
25:DA:748:G:C8	43:DS:89:ALA:HB1	2.30	0.67
25:DA:1179:G:N7	25:DA:1180:U:C6	2.62	0.67
25:DA:1446:C:H2'	25:DA:1447:C:H6	1.60	0.67
25:DA:1525:A:C5	25:DA:1526:C:C5	2.83	0.67
25:DA:1738:G:O2'	25:DA:1739:A:P	2.53	0.67
25:DA:2127:G:H2'	25:DA:2128:G:C8	2.29	0.67
32:DH:63:ALA:O	32:DH:66:ASN:HB2	1.95	0.67
1:AA:1378:C:H2'	1:AA:1379:G:O5'	1.95	0.67
1:AA:1402:C:O2	1:AA:1500:A:N1	2.27	0.67
5:AE:18:ASN:O	5:AE:32:PHE:HA	1.95	0.67
6:AF:17:GLN:O	6:AF:18:VAL:C	2.38	0.67
17:AQ:14:ASP:CA	17:AQ:16:MET:SD	2.83	0.67
1:BA:206:C:H2'	1:BA:207:C:C4'	2.25	0.67
1:BA:497:G:O2'	1:BA:498:A:H5'	1.94	0.67
1:BA:1249:C:O2'	9:BI:70:GLY:HA2	1.94	0.67
3:BC:28:PHE:HZ	14:BN:94:PRO:HD2	1.59	0.67
4:BD:25:ARG:O	4:BD:26:ALA:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BL:58:ASN:H	12:BL:58:ASN:HD22	1.43	0.67
25:CA:395:U:O2'	25:CA:396:G:N7	2.24	0.67
25:CA:1613:G:C2'	60:CA:3313:HOH:O	2.43	0.67
27:CC:38:LYS:HE2	27:CC:55:GLY:O	1.94	0.67
25:DA:58:G:N2	25:DA:70:G:C4	2.63	0.67
25:DA:232:G:H4'	25:DA:233:A:OP1	1.94	0.67
25:DA:1812:U:H2'	25:DA:1812:U:O2	1.93	0.67
25:DA:2209:G:C5	25:DA:2210:U:C4	2.82	0.67
56:DB:8:C:H5"	39:DO:27:VAL:HG11	1.77	0.67
32:DH:4:ILE:HG23	32:DH:17:ASP:C	2.20	0.67
35:DK:118:LEU:HD23	35:DK:118:LEU:N	2.09	0.67
2:AB:34:ARG:HA	2:AB:34:ARG:HE	1.59	0.67
4:AD:96:ARG:O	4:AD:100:VAL:HG23	1.95	0.67
21:AU:13:VAL:HG13	21:AU:15:LEU:CG	2.25	0.67
24:AY:110:ARG:O	24:AY:111:ARG:C	2.37	0.67
1:BA:88:U:C4	1:BA:89:U:C4	2.83	0.67
1:BA:269:C:H2'	1:BA:270:A:C8	2.30	0.67
1:BA:499:A:H4'	1:BA:500:G:OP1	1.95	0.67
1:BA:1441:A:H3'	1:BA:1441:A:C8	2.29	0.67
10:BJ:80:THR:HB	10:BJ:83:THR:H	1.60	0.67
25:CA:322:A:H5'	25:CA:340:A:H1'	1.76	0.67
25:CA:1387:A:H2'	25:CA:1388:G:O4'	1.95	0.67
25:CA:1466:U:HO2'	25:CA:1546:G:HO2'	1.43	0.67
25:CA:1687:G:O2'	25:CA:1688:U:H5'	1.95	0.67
33:CI:6:ALA:HB3	33:CI:60:VAL:H	1.60	0.67
25:DA:1380:G:OP2	60:DA:3759:HOH:O	2.12	0.67
25:DA:2005:A:H5"	60:DA:3384:HOH:O	1.94	0.67
25:DA:2133:G:C2	25:DA:2158:A:N6	2.63	0.67
42:DR:49:ILE:HG21	42:DR:53:PHE:H	1.58	0.67
1:AA:1134:G:C4	1:AA:1141:C:N4	2.63	0.66
2:AB:90:PHE:H	2:AB:149:GLY:HA3	1.60	0.66
3:AC:6:PRO:HG2	3:AC:183:TYR:CG	2.30	0.66
3:AC:24:ASN:O	3:AC:26:LYS:N	2.27	0.66
4:AD:31:CYS:SG	4:AD:32:LYS:N	2.68	0.66
8:AH:103:VAL:HG22	8:AH:103:VAL:O	1.94	0.66
18:AR:24:ASP:HB3	18:AR:27:THR:HB	1.77	0.66
3:BC:41:TYR:CE2	3:BC:45:GLU:HG2	2.30	0.66
3:BC:154:GLY:HA2	3:BC:162:ALA:HB1	1.75	0.66
5:BE:104:ILE:N	5:BE:121:ASN:O	2.27	0.66
9:BI:53:LEU:O	9:BI:54:VAL:HG22	1.95	0.66
25:CA:1530:G:H2'	25:CA:1530:G:N3	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1585:C:C2'	25:CA:1586:A:O5'	2.43	0.66
25:CA:2105:U:H2'	25:CA:2106:U:O4'	1.96	0.66
28:CD:85:ALA:HB3	28:CD:88:GLU:HG3	1.76	0.66
30:CF:11:VAL:HG13	30:CF:171:ALA:HB1	1.76	0.66
33:CI:74:PRO:HB2	33:CI:77:VAL:HG13	1.77	0.66
42:CR:42:ALA:HA	42:CR:46:GLU:CB	2.22	0.66
25:DA:168:G:H2'	25:DA:168:G:N3	2.10	0.66
25:DA:1315:C:H2'	25:DA:1316:U:H6	1.61	0.66
25:DA:1526:C:N4	25:DA:1527:G:C6	2.63	0.66
25:DA:2615:U:H1'	51:D0:3:GLN:HB3	1.75	0.66
30:DF:34:THR:HG23	30:DF:89:THR:HA	1.77	0.66
34:DJ:99:ARG:O	34:DJ:103:ILE:HD12	1.96	0.66
45:DU:15:GLY:O	45:DU:16:LYS:HB2	1.95	0.66
55:D4:23:ILE:HB	55:D4:38:GLY:HA3	1.76	0.66
1:AA:510:A:H5"	1:AA:511:C:OP2	1.95	0.66
13:AM:3:ILE:HD11	13:AM:9:PRO:CG	2.25	0.66
18:AR:54:LEU:CD1	18:AR:58:ILE:HD11	2.25	0.66
1:BA:1308:U:H5"	13:BM:96:VAL:CG2	2.25	0.66
5:BE:24:VAL:HG23	5:BE:26:GLY:H	1.59	0.66
6:BF:47:LEU:CD1	6:BF:51:ILE:CG2	2.73	0.66
10:BJ:10:LEU:HD12	10:BJ:10:LEU:N	2.10	0.66
17:BQ:44:HIS:ND1	17:BQ:69:THR:HG21	2.10	0.66
25:CA:1179:G:N7	25:CA:1180:U:O4'	2.28	0.66
33:CI:83:ALA:HB2	33:CI:105:LEU:HD11	1.76	0.66
49:CY:9:LYS:HE2	49:CY:11:VAL:CG2	2.25	0.66
25:DA:323:C:N3	25:DA:333:G:C8	2.64	0.66
25:DA:422:A:OP2	60:DA:3567:HOH:O	2.12	0.66
25:DA:2196:C:C2'	25:DA:2197:U:H5'	2.25	0.66
25:DA:2415:G:C4	25:DA:2416:C:C5	2.83	0.66
31:DG:36:LEU:HD13	31:DG:40:VAL:HG11	1.78	0.66
49:DY:24:GLU:O	49:DY:25:GLN:C	2.39	0.66
1:AA:518:C:H2'	1:AA:530:G:C8	2.30	0.66
1:AA:1031:C:C2'	1:AA:1032:G:OP2	2.43	0.66
1:AA:1083:U:H5	1:AA:1084:G:C6	2.12	0.66
19:AS:28:LYS:CB	19:AS:29:PRO:HD2	2.25	0.66
24:AY:149:ILE:HG23	24:AY:153:ASP:CB	2.25	0.66
1:BA:723:U:C5	21:BU:49:ALA:HA	2.31	0.66
2:BB:130:LYS:HA	2:BB:133:ALA:HB3	1.76	0.66
9:BI:43:ALA:HB1	9:BI:46:VAL:HG21	1.75	0.66
16:BP:10:GLY:HA3	16:BP:15:PRO:HA	1.76	0.66
19:BS:3:SER:O	19:BS:4:LEU:HB2	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2133:G:C2'	25:CA:2158:A:N6	2.59	0.66
25:CA:2172:U:OP1	25:CA:2174:C:C5	2.48	0.66
25:CA:2550:G:C2'	25:CA:2551:C:H5'	2.24	0.66
25:CA:2887:A:H2'	25:CA:2887:A:N3	2.09	0.66
45:CU:48:VAL:O	45:CU:53:GLN:HB2	1.95	0.66
25:DA:82:U:H5'	25:DA:296:U:H5"	1.76	0.66
25:DA:1062:G:H2'	25:DA:1063:G:C4	2.30	0.66
25:DA:1351:C:O2	25:DA:1381:G:C2	2.48	0.66
30:DF:33:ILE:HG12	30:DF:155:ILE:HA	1.77	0.66
31:DG:112:VAL:HG21	31:DG:150:TYR:CD2	2.31	0.66
32:DH:134:VAL:HG12	32:DH:138:VAL:O	1.94	0.66
1:AA:1530:G:O2'	1:AA:1531:A:OP2	2.13	0.66
10:AJ:49:PHE:CD1	10:AJ:49:PHE:N	2.63	0.66
1:BA:423:G:N2	1:BA:424:G:C8	2.64	0.66
1:BA:469:C:H5	1:BA:470:C:C4	2.14	0.66
4:BD:151:GLN:O	4:BD:154:VAL:HG12	1.96	0.66
5:BE:133:ILE:H	5:BE:133:ILE:HD12	1.59	0.66
10:BJ:87:LEU:HD13	10:BJ:88:MET:HG2	1.78	0.66
25:CA:1180:U:O3'	25:CA:1180:U:OP1	2.14	0.66
25:CA:1789:A:OP2	27:CC:220:ARG:NH1	2.28	0.66
33:CI:54:ILE:HG12	33:CI:73:PRO:CA	2.25	0.66
39:CO:117:PHE:C	39:CO:117:PHE:CD1	2.73	0.66
25:DA:2146:C:H5"	25:DA:2147:A:OP1	1.95	0.66
25:DA:2248:C:C2'	25:DA:2249:U:H5'	2.24	0.66
1:AA:959:A:C2	1:AA:1222:G:O4'	2.48	0.66
1:AA:1278:G:H4'	1:AA:1279:G:C8	2.31	0.66
4:AD:3:TYR:CD1	4:AD:3:TYR:C	2.71	0.66
18:AR:35:SER:HA	18:AR:71:ASP:OD2	1.96	0.66
1:BA:562:U:H4'	1:BA:563:A:H5'	1.78	0.66
1:BA:590:U:H2'	1:BA:591:U:C6	2.30	0.66
1:BA:1262:C:C6	1:BA:1263:C:C5	2.83	0.66
6:BF:18:VAL:HA	6:BF:21:MET:CE	2.26	0.66
37:CM:57:VAL:O	37:CM:60:GLN:CG	2.42	0.66
45:CU:17:ASP:HB3	45:CU:20:LYS:HD3	1.76	0.66
25:DA:744:U:OP1	60:DA:3658:HOH:O	2.13	0.66
25:DA:1001:A:OP2	60:DA:3742:HOH:O	2.13	0.66
25:DA:1517:G:N2	25:DA:1732:C:C4	2.63	0.66
25:DA:2134:A:H62	25:DA:2157:G:H1'	1.61	0.66
42:DR:49:ILE:O	42:DR:49:ILE:HG13	1.94	0.66
1:AA:918:A:H2'	1:AA:919:A:C8	2.30	0.66
2:AB:212:TYR:HA	2:AB:215:ALA:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:121:ARG:CZ	21:AU:35:GLU:HG3	2.26	0.66
14:AN:89:MET:HE1	14:AN:98:LYS:HD3	1.77	0.66
21:AU:7:GLU:HB3	21:AU:11:PHE:HZ	1.60	0.66
21:AU:36:PHE:CD1	21:AU:39:LYS:HE3	2.31	0.66
1:BA:540:G:H2'	1:BA:541:G:O4'	1.95	0.66
1:BA:1211:U:O2'	1:BA:1212:U:OP2	2.14	0.66
2:BB:98:GLY:HA2	2:BB:101:THR:CG2	2.24	0.66
5:BE:121:ASN:O	5:BE:122:VAL:O	2.13	0.66
9:BI:83:THR:HG21	9:BI:102:PHE:HB3	1.76	0.66
20:BT:64:GLY:HA2	20:BT:67:HIS:CE1	2.31	0.66
25:CA:1474:U:H2'	25:CA:1475:G:H5'	1.76	0.66
25:CA:2203:U:H5"	25:CA:2204:G:OP1	1.95	0.66
32:CH:117:LEU:HD21	32:CH:121:VAL:CA	2.24	0.66
40:CP:29:VAL:HG13	40:CP:79:VAL:HG12	1.77	0.66
47:CW:20:LYS:O	47:CW:21:ARG:HD3	1.94	0.66
25:DA:540:C:C2'	25:DA:541:A:H5'	2.25	0.66
25:DA:2297:A:C2	25:DA:2298:A:C8	2.83	0.66
25:DA:2666:C:C5	25:DA:2667:C:C4	2.83	0.66
25:DA:2893:A:H4'	25:DA:2894:G:H5'	1.77	0.66
27:DC:79:ARG:HD3	27:DC:92:LEU:HB3	1.76	0.66
28:DD:100:LEU:HD12	28:DD:100:LEU:C	2.20	0.66
35:DK:76:VAL:HG12	40:DP:72:VAL:HG23	1.78	0.66
35:DK:99:ILE:HD13	35:DK:118:LEU:HD12	1.77	0.66
36:DL:90:VAL:HG12	36:DL:90:VAL:O	1.94	0.66
42:DR:61:ALA:HB1	42:DR:97:LYS:O	1.95	0.66
1:AA:1138:G:C8	1:AA:1140:C:H5'	2.30	0.66
7:AG:119:LEU:CD2	7:AG:123:LEU:CD2	2.73	0.66
17:AQ:54:ILE:C	17:AQ:54:ILE:HD13	2.21	0.66
1:BA:328:C:H2'	1:BA:328:C:O2	1.93	0.66
1:BA:1323:G:H2'	1:BA:1324:A:C8	2.30	0.66
3:BC:5:HIS:HD2	14:BN:89:MET:HB3	1.60	0.66
4:BD:123:MET:HE3	4:BD:145:ARG:HD2	1.78	0.66
11:BK:62:ALA:CB	11:BK:91:GLY:HA2	2.26	0.66
18:BR:38:ILE:CD1	18:BR:55:ALA:HA	2.26	0.66
25:CA:246:C:H2'	25:CA:247:G:H5'	1.78	0.66
25:CA:1080:A:C2	25:CA:1081:U:C5	2.83	0.66
25:CA:2334:U:O4	39:CO:16:ARG:NH2	2.29	0.66
27:CC:167:ASP:C	27:CC:167:ASP:OD2	2.38	0.66
30:CF:121:PHE:HB3	30:CF:162:ASP:OD2	1.95	0.66
34:CJ:64:VAL:HG13	34:CJ:68:LYS:HB2	1.78	0.66
55:C4:36:ARG:HG2	55:C4:37:GLN:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:687:C:H2'	25:DA:688:U:O4'	1.96	0.66
25:DA:900:A:C2	25:DA:901:C:C1'	2.78	0.66
33:DI:46:ASP:HA	33:DI:50:LYS:HD2	1.76	0.66
1:AA:64:G:C2	1:AA:67:C:N4	2.64	0.66
4:AD:131:ILE:HD12	4:AD:134:TYR:N	2.11	0.66
1:BA:374:A:H5"	1:BA:452:A:H2	1.60	0.66
1:BA:451:A:H61	1:BA:481:G:H5'	1.61	0.66
1:BA:642:A:N3	8:BH:104:SER:OG	2.28	0.66
3:BC:133:MET:HE3	3:BC:167:TYR:HB2	1.76	0.66
32:CH:31:VAL:CB	32:CH:32:PRO:HD2	2.24	0.66
42:CR:41:ILE:O	42:CR:46:GLU:HB2	1.95	0.66
49:CY:9:LYS:HE2	49:CY:11:VAL:HG21	1.77	0.66
49:CY:37:LEU:C	49:CY:37:LEU:HD12	2.21	0.66
25:DA:465:G:H2'	25:DA:466:A:C8	2.31	0.66
25:DA:1087:G:C4	25:DA:1089:A:H1'	2.31	0.66
25:DA:1477:A:C2	25:DA:1515:A:C4	2.82	0.66
25:DA:2133:G:N3	25:DA:2158:A:C6	2.64	0.66
30:DF:103:ILE:HG22	30:DF:174:PHE:HA	1.78	0.66
32:DH:72:ILE:CG2	32:DH:73:ASN:N	2.59	0.66
33:DI:38:CYS:CA	33:DI:41:PHE:HB3	2.22	0.66
40:DP:92:ARG:O	40:DP:93:LYS:HB2	1.95	0.66
41:DQ:85:ALA:HB3	41:DQ:87:VAL:HG23	1.77	0.66
42:DR:49:ILE:HB	42:DR:51:VAL:O	1.96	0.66
1:AA:204:G:C8	1:AA:205:A:H5"	2.31	0.66
1:AA:1133:G:N1	1:AA:1142:G:C6	2.64	0.66
3:AC:87:ARG:HG2	3:AC:98:ALA:O	1.96	0.66
8:AH:95:MET:HB2	8:AH:98:LEU:O	1.96	0.66
12:AL:43:LYS:HB2	12:AL:44:PRO:CD	2.26	0.66
21:AU:9:GLU:CG	21:AU:10:PRO:HD3	2.26	0.66
1:BA:940:C:H2'	1:BA:941:G:C8	2.30	0.66
1:BA:1005:A:N7	1:BA:1006:G:C4	2.64	0.66
1:BA:1239:A:H2'	1:BA:1298:U:O4	1.94	0.66
4:BD:169:TRP:CD1	4:BD:185:PRO:HG3	2.31	0.66
10:BJ:53:ILE:HG22	10:BJ:61:ALA:C	2.21	0.66
25:CA:2221:G:O2'	25:CA:2222:C:H5'	1.95	0.66
27:CC:51:ARG:NH2	27:CC:246:PRO:HG3	2.11	0.66
33:CI:71:LYS:CD	33:CI:71:LYS:N	2.58	0.66
25:DA:78:U:OP1	49:DY:2:LYS:HD2	1.96	0.66
25:DA:194:G:C8	60:DA:3767:HOH:O	2.49	0.66
25:DA:250:G:OP2	54:D3:12:ARG:NH1	2.29	0.66
25:DA:1025:G:O2'	60:DA:3714:HOH:O	2.04	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2115:G:O2'	25:DA:2117:A:N6	2.29	0.66
25:DA:2148:G:H2'	25:DA:2149:U:C6	2.31	0.66
25:DA:2345:G:C5	25:DA:2381:A:C2	2.84	0.66
56:DB:102:G:H8	56:DB:102:G:O5'	1.78	0.66
28:DD:124:ARG:HD3	28:DD:125:TRP:NE1	2.11	0.66
30:DF:98:PHE:O	30:DF:99:PHE:C	2.39	0.66
33:DI:89:SER:HB3	33:DI:92:PRO:HG3	1.77	0.66
38:DN:32:GLU:HA	38:DN:115:LEU:HG	1.78	0.66
51:D0:12:ARG:O	51:D0:16:ARG:HG3	1.96	0.66
1:AA:66:A:C2	1:AA:67:C:C6	2.84	0.66
1:AA:1124:G:H3'	1:AA:1145:A:H61	1.59	0.66
11:AK:125:LYS:C	21:AU:33:ARG:CZ	2.69	0.66
12:AL:89:LEU:HD12	12:AL:89:LEU:N	2.10	0.66
1:BA:4:U:C5'	1:BA:5:U:OP1	2.44	0.66
2:BB:56:LEU:O	2:BB:59:ILE:HG13	1.96	0.66
2:BB:95:TRP:CZ3	2:BB:174:GLU:OE2	2.48	0.66
3:BC:101:ASN:C	3:BC:102:ILE:CG1	2.69	0.66
5:BE:156:ARG:O	5:BE:158:LYS:N	2.29	0.66
6:BF:50:PRO:HD3	18:BR:73:HIS:HB3	1.77	0.66
7:BG:131:GLY:H	7:BG:134:VAL:CG1	2.08	0.66
8:BH:82:LEU:HD13	8:BH:82:LEU:O	1.95	0.66
17:BQ:7:LEU:HD22	17:BQ:72:TRP:CH2	2.31	0.66
25:CA:408:G:C2	25:CA:420:C:O2	2.49	0.66
25:CA:981:A:OP1	60:CA:3601:HOH:O	2.14	0.66
25:CA:1058:U:H1'	25:CA:1081:U:O2	1.96	0.66
44:CT:35:ALA:O	44:CT:38:ALA:HB3	1.96	0.66
53:C2:43:THR:O	53:C2:44:VAL:CB	2.44	0.66
25:DA:418:C:H2'	25:DA:419:U:O4'	1.95	0.66
25:DA:860:U:O4'	25:DA:2268:A:H5'	1.96	0.66
25:DA:1506:U:H2'	25:DA:1507:C:C6	2.30	0.66
25:DA:2206:C:O2'	25:DA:2207:C:H5'	1.95	0.66
25:DA:2338:C:C2	25:DA:2339:C:C5	2.84	0.66
36:DL:10:GLU:OE1	36:DL:10:GLU:HA	1.96	0.66
46:DV:42:LEU:HD12	46:DV:47:VAL:HG21	1.78	0.66
5:AE:81:GLN:H	5:AE:146:MET:HE1	1.62	0.65
9:AI:10:ARG:HB3	9:AI:15:ALA:HA	1.76	0.65
1:BA:414:A:C2	1:BA:415:A:H1'	2.31	0.65
1:BA:1078:U:O2	5:BE:89:THR:HG21	1.96	0.65
2:BB:17:HIS:O	2:BB:18:GLN:HB2	1.95	0.65
3:BC:114:LEU:O	3:BC:115:VAL:C	2.39	0.65
25:CA:2061:G:OP2	60:CA:3498:HOH:O	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2202:U:H5”	25:CA:2203:U:OP1	1.96	0.65
27:CC:17:LYS:HA	27:CC:17:LYS:HE3	1.78	0.65
33:CI:57:VAL:HG23	33:CI:71:LYS:NZ	2.11	0.65
25:DA:1177:G:H2’	25:DA:1178:C:O4’	1.96	0.65
25:DA:1429:G:O2’	25:DA:1430:G:H5’	1.96	0.65
25:DA:1590:A:H2’	25:DA:1591:A:H8	1.60	0.65
25:DA:1638:C:H4’	25:DA:2710:C:O2	1.96	0.65
25:DA:2039:U:H2’	25:DA:2040:G:C8	2.30	0.65
25:DA:2133:G:N3	25:DA:2158:A:N6	2.43	0.65
30:DF:103:ILE:CG2	30:DF:174:PHE:HA	2.26	0.65
1:AA:505:G:H4’	1:AA:534:U:C5	2.31	0.65
1:AA:993:G:H2’	1:AA:993:G:N3	2.11	0.65
3:AC:36:PHE:CZ	14:AN:92:GLU:OE2	2.49	0.65
6:AF:7:VAL:O	6:AF:7:VAL:HG13	1.96	0.65
8:AH:48:PHE:HD1	8:AH:48:PHE:H	1.42	0.65
9:AI:66:VAL:HG22	9:AI:74:GLN:HG2	1.76	0.65
13:AM:21:ILE:HB	13:AM:24:VAL:HG22	1.76	0.65
14:AN:35:ALA:CB	14:AN:41:ARG:HB3	2.25	0.65
21:AU:28:LEU:O	21:AU:28:LEU:HD23	1.96	0.65
1:BA:500:G:C6	1:BA:501:C:N4	2.64	0.65
1:BA:1113:C:C2	1:BA:1114:C:C5	2.85	0.65
1:BA:1142:G:C6	1:BA:1143:G:H1’	2.31	0.65
2:BB:134:LEU:HA	2:BB:137:THR:OG1	1.95	0.65
9:BI:27:ILE:HG23	9:BI:62:LEU:CD1	2.25	0.65
22:BV:20:U:OP1	22:BV:20:U:O4’	2.15	0.65
25:CA:215:G:H4’	25:CA:216:A:H4’	1.78	0.65
25:CA:1060:U:H4’	25:CA:1061:U:H3’	1.78	0.65
25:CA:2114:A:C4	25:CA:2167:U:H5’	2.30	0.65
25:CA:2318:G:C6	25:CA:2319:G:N1	2.65	0.65
33:CI:66:PHE:CE1	33:CI:68:PHE:CE1	2.84	0.65
25:DA:137:U:OP2	25:DA:137:U:C6	2.50	0.65
25:DA:1542:U:O2’	25:DA:1543:G:H5’	1.95	0.65
25:DA:2216:G:H2’	25:DA:2217:G:C8	2.31	0.65
25:DA:2727:A:C6	25:DA:2728:U:O4	2.50	0.65
25:DA:2885:G:N7	51:D0:39:ARG:NH2	2.44	0.65
30:DF:99:PHE:O	30:DF:102:LEU:HB3	1.96	0.65
33:DI:116:MET:SD	33:DI:128:ILE:HD11	2.36	0.65
34:DJ:140:LEU:HD12	34:DJ:141:ASP:N	2.10	0.65
1:AA:701:U:H4’	1:AA:702:A:H5”	1.79	0.65
1:AA:744:C:H2’	1:AA:745:G:C8	2.31	0.65
1:AA:805:C:O2’	1:AA:806:C:H5’	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:119:GLN:N	2:AB:122:ASP:HB2	2.12	0.65
24:AY:10:ALA:O	24:AY:11:GLU:C	2.38	0.65
1:BA:175:C:O2'	1:BA:176:C:H5'	1.96	0.65
1:BA:236:A:H2'	1:BA:237:G:C8	2.32	0.65
3:BC:102:ILE:HD12	3:BC:102:ILE:N	2.10	0.65
8:BH:74:ILE:HD13	8:BH:128:VAL:HG22	1.78	0.65
11:BK:90:PRO:O	11:BK:91:GLY:C	2.37	0.65
19:BS:55:GLN:CD	19:BS:56:HIS:H	2.04	0.65
20:BT:64:GLY:CA	20:BT:67:HIS:CE1	2.79	0.65
25:CA:981:A:H5"	60:CA:3598:HOH:O	1.93	0.65
25:CA:2055:C:H5'	25:CA:2056:G:H5"	1.77	0.65
33:CI:38:CYS:HB3	33:CI:42:ASN:ND2	2.11	0.65
33:CI:42:ASN:OD1	33:CI:45:THR:HB	1.97	0.65
40:CP:112:ARG:O	40:CP:113:LEU:HG	1.97	0.65
25:DA:443:A:N7	29:DE:40:ARG:HD3	2.10	0.65
25:DA:665:U:O2	25:DA:665:U:H2'	1.96	0.65
25:DA:1475:G:O2'	25:DA:1476:U:P	2.54	0.65
25:DA:2164:C:H2'	25:DA:2165:C:H6	1.60	0.65
56:DB:43:C:H5"	56:DB:44:G:OP2	1.96	0.65
29:DE:158:PHE:CD1	29:DE:158:PHE:C	2.73	0.65
35:DK:1:MET:HG2	35:DK:32:TYR:CD1	2.31	0.65
35:DK:87:LEU:O	35:DK:88:ASN:C	2.39	0.65
40:DP:93:LYS:HG2	40:DP:95:LYS:O	1.97	0.65
49:DY:9:LYS:HG2	49:DY:10:SER:N	2.10	0.65
1:AA:37:U:O2'	1:AA:500:G:H4'	1.97	0.65
1:AA:542:G:N3	1:AA:543:U:C5	2.64	0.65
2:AB:88:GLN:CG	2:AB:220:VAL:HG11	2.26	0.65
2:AB:102:ASN:HB3	2:AB:105:THR:HB	1.77	0.65
10:AJ:63:ASP:OD1	14:AN:85:ARG:HD2	1.97	0.65
1:BA:802:A:H5"	1:BA:803:G:OP2	1.96	0.65
1:BA:1476:A:H2'	1:BA:1477:U:C6	2.31	0.65
11:BK:87:GLY:H	11:BK:113:THR:CG2	2.08	0.65
12:BL:29:LYS:HA	12:BL:29:LYS:HE3	1.79	0.65
21:BU:23:GLU:HA	21:BU:27:VAL:HG22	1.77	0.65
25:CA:544:C:C5	25:CA:545:U:C5	2.85	0.65
25:CA:2119:A:C2	25:CA:2169:A:C2	2.85	0.65
27:CC:161:VAL:CG1	27:CC:173:LEU:HB3	2.27	0.65
32:CH:116:ARG:HG3	32:CH:133:GLN:CD	2.21	0.65
45:CU:45:GLN:OE1	45:CU:58:VAL:HG21	1.95	0.65
52:C1:7:LYS:HA	52:C1:23:THR:HG22	1.79	0.65
25:DA:479:A:N3	25:DA:481:G:H5"	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1301:A:H4'	25:DA:1302:A:OP1	1.96	0.65
25:DA:2038:G:H2'	25:DA:2039:U:O4'	1.96	0.65
32:DH:4:ILE:HG22	32:DH:5:LEU:H	1.61	0.65
33:DI:56:VAL:HB	33:DI:70:THR:HB	1.79	0.65
44:DT:7:LEU:HD21	44:DT:46:ALA:CA	2.26	0.65
44:DT:22:THR:HA	44:DT:25:GLU:CG	2.26	0.65
1:AA:403:C:H2'	1:AA:404:G:O4'	1.96	0.65
1:AA:1279:G:H5"	10:AJ:9:ARG:NH2	2.12	0.65
1:AA:1314:C:O2	1:AA:1315:U:C6	2.49	0.65
3:AC:59:PRO:HB3	10:AJ:94:ALA:HB1	1.78	0.65
5:AE:59:ILE:HG13	5:AE:60:GLN:N	2.10	0.65
8:AH:9:MET:HG3	8:AH:26:MET:SD	2.36	0.65
1:BA:692:U:H2'	1:BA:694:A:OP2	1.97	0.65
1:BA:1007:U:H2'	1:BA:1008:U:H5"	1.78	0.65
1:BA:1160:G:HO2'	1:BA:1161:C:H6	1.42	0.65
2:BB:156:LEU:HD23	2:BB:156:LEU:O	1.96	0.65
6:BF:77:THR:O	6:BF:80:PHE:HB3	1.96	0.65
25:CA:760:G:C2'	25:CA:761:A:H5'	2.27	0.65
25:CA:1098:A:C6	25:CA:1099:G:N1	2.65	0.65
25:CA:1169:A:C2	25:CA:1181:U:O2	2.49	0.65
25:CA:2141:G:H2'	25:CA:2142:A:H5'	1.78	0.65
25:CA:2304:G:H1'	30:CF:128:SER:HB3	1.78	0.65
60:CA:3660:HOH:O	28:CD:140:HIS:NE2	2.29	0.65
30:CF:141:ASP:O	30:CF:145:VAL:HG13	1.96	0.65
32:CH:2:GLN:O	32:CH:3:VAL:HG22	1.96	0.65
32:CH:31:VAL:HB	32:CH:32:PRO:CD	2.25	0.65
42:CR:49:ILE:HG22	42:CR:53:PHE:H	1.60	0.65
25:DA:1233:C:H2'	25:DA:1234:U:O5'	1.95	0.65
25:DA:2407:A:N3	25:DA:2408:U:C5	2.65	0.65
56:DB:103:U:H2'	56:DB:104:A:H5'	1.78	0.65
27:DC:132:ARG:HG3	27:DC:133:ASN:OD1	1.96	0.65
33:DI:20:SER:HB3	33:DI:21:PRO:HD3	1.78	0.65
36:DL:82:LEU:HD23	36:DL:83:ALA:N	2.10	0.65
36:DL:127:VAL:HG12	36:DL:131:ALA:HB3	1.78	0.65
3:AC:21:TRP:CG	3:AC:58:ARG:HG2	2.31	0.65
7:AG:38:ALA:O	7:AG:41:ILE:HB	1.97	0.65
14:AN:43:ASN:OD1	14:AN:47:LYS:HE2	1.97	0.65
22:AV:60:U:H5"	22:AV:61:C:H5	1.62	0.65
2:BB:56:LEU:HD13	2:BB:57:ASN:N	2.12	0.65
8:BH:65:PHE:C	8:BH:65:PHE:CD1	2.72	0.65
14:BN:17:ASP:HA	14:BN:20:PHE:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:69:ASN:O	20:BT:71:ALA:N	2.30	0.65
25:CA:870:U:OP1	37:CM:6:ARG:HD3	1.97	0.65
33:CI:83:ALA:CB	33:CI:105:LEU:HD11	2.27	0.65
25:DA:64:A:H2'	25:DA:65:U:C6	2.32	0.65
34:DJ:37:ARG:HG2	34:DJ:39:LYS:HG2	1.78	0.65
34:DJ:80:HIS:HB3	34:DJ:81:ILE:HG22	1.77	0.65
37:DM:21:ALA:CB	37:DM:100:LYS:HG2	2.27	0.65
44:DT:39:THR:HG22	44:DT:42:GLU:HB2	1.77	0.65
50:DZ:9:THR:HG22	50:DZ:53:MET:C	2.22	0.65
1:AA:198:G:C4	1:AA:199:A:C8	2.84	0.65
1:AA:972:C:H4'	10:AJ:59:LYS:CE	2.27	0.65
2:AB:16:GLY:HA3	2:AB:39:ILE:HA	1.77	0.65
3:AC:181:ILE:HD13	3:AC:202:PHE:HA	1.79	0.65
4:AD:3:TYR:O	4:AD:4:LEU:HB2	1.97	0.65
11:AK:13:LYS:O	11:AK:14:GLN:CB	2.45	0.65
11:AK:13:LYS:O	11:AK:14:GLN:HB2	1.97	0.65
1:BA:64:G:C8	1:BA:99:C:N4	2.65	0.65
1:BA:463:U:O2	1:BA:463:U:C2'	2.45	0.65
1:BA:1093:A:C2	1:BA:1095:U:C4'	2.79	0.65
2:BB:99:MET:CA	2:BB:106:VAL:HG21	2.27	0.65
7:BG:85:GLN:NE2	7:BG:85:GLN:HA	2.11	0.65
18:BR:41:SER:CB	18:BR:51:GLN:HE21	2.09	0.65
25:CA:743:A:O3'	60:CA:3659:HOH:O	2.14	0.65
25:CA:2161:C:O2	25:CA:2161:C:H2'	1.97	0.65
25:CA:2404:U:C2'	25:CA:2405:G:O5'	2.44	0.65
33:CI:57:VAL:HG12	33:CI:58:ILE:N	2.12	0.65
34:CJ:76:HIS:CE1	34:CJ:85:LYS:HB2	2.31	0.65
36:CL:90:VAL:HG23	36:CL:120:VAL:HG21	1.78	0.65
36:CL:92:LEU:H	36:CL:92:LEU:HD12	1.62	0.65
25:DA:149:A:C4	25:DA:150:U:C6	2.85	0.65
25:DA:623:C:H2'	25:DA:624:C:H6	1.61	0.65
25:DA:1091:G:C4	25:DA:1092:C:C5	2.85	0.65
25:DA:1589:U:H2'	25:DA:1590:A:C8	2.31	0.65
25:DA:1873:G:H2'	25:DA:1874:C:H6	1.60	0.65
25:DA:2287:A:C8	25:DA:2289:G:C8	2.85	0.65
34:DJ:31:GLU:O	34:DJ:34:ARG:HB3	1.96	0.65
35:DK:104:THR:HG22	35:DK:122:VAL:HG11	1.77	0.65
41:DQ:78:PHE:CZ	41:DQ:82:LEU:HD11	2.31	0.65
43:DS:59:GLU:CG	43:DS:66:ILE:HD11	2.27	0.65
44:DT:2:ILE:HG12	44:DT:7:LEU:HD12	1.78	0.65
46:DV:55:GLU:H	46:DV:55:GLU:CD	2.04	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:G:C5	1:AA:179:A:C2	2.84	0.65
1:AA:737:C:O2'	1:AA:738:C:H5'	1.97	0.65
1:AA:995:C:N3	1:AA:1046:A:O2'	2.29	0.65
1:AA:1145:A:H2'	1:AA:1146:A:OP2	1.97	0.65
2:AB:40:ILE:HG21	2:AB:201:GLY:HA2	1.79	0.65
11:AK:41:LEU:HD22	11:AK:76:TYR:CD2	2.31	0.65
13:AM:80:MET:HG2	13:AM:91:ARG:CZ	2.27	0.65
18:AR:56:ARG:HE	18:AR:60:ARG:NH1	1.95	0.65
1:BA:82:G:O6	1:BA:87:C:N3	2.29	0.65
1:BA:750:C:O2	15:BO:22:GLY:HA3	1.97	0.65
2:BB:67:LEU:HD23	2:BB:90:PHE:HA	1.78	0.65
15:BO:80:LEU:HD11	15:BO:84:LEU:HD22	1.78	0.65
17:BQ:16:MET:HG2	17:BQ:19:SER:HB3	1.78	0.65
25:CA:34:U:O2'	25:CA:35:G:OP1	2.15	0.65
25:CA:973:A:OP2	42:CR:81:LYS:HE3	1.95	0.65
25:CA:1714:U:H5"	25:CA:1715:G:C5'	2.26	0.65
28:CD:130:GLN:O	28:CD:131:ASP:C	2.39	0.65
33:CI:56:VAL:HA	33:CI:71:LYS:HE2	1.79	0.65
38:CN:12:ARG:CZ	38:CN:20:MET:HE1	2.26	0.65
39:CO:31:THR:HG22	39:CO:33:ARG:H	1.61	0.65
25:DA:362:A:N3	25:DA:362:A:H2'	2.10	0.65
25:DA:973:A:O4'	25:DA:1188:U:C6	2.49	0.65
25:DA:1586:A:C8	25:DA:1587:G:C8	2.85	0.65
25:DA:2338:C:O2	25:DA:2339:C:C5	2.49	0.65
1:AA:35:G:H2'	1:AA:36:C:C6	2.31	0.65
1:AA:421:U:C2	3:AC:126:ARG:NH2	2.65	0.65
1:AA:541:G:C4	1:AA:542:G:C8	2.85	0.65
2:AB:55:GLU:HA	2:AB:58:LYS:CB	2.27	0.65
3:AC:86:LEU:O	3:AC:87:ARG:C	2.40	0.65
4:AD:144:ILE:HG22	4:AD:145:ARG:O	1.97	0.65
6:AF:7:VAL:HG11	18:AR:64:LEU:HD11	1.78	0.65
8:AH:63:LYS:HB2	8:AH:70:VAL:CG2	2.27	0.65
11:AK:95:THR:O	11:AK:99:LEU:CD2	2.45	0.65
12:AL:58:ASN:ND2	12:AL:60:PHE:CD1	2.64	0.65
13:AM:63:VAL:O	13:AM:68:LEU:HB2	1.97	0.65
17:AQ:12:VAL:CG1	17:AQ:21:VAL:HG13	2.26	0.65
1:BA:240:G:OP1	1:BA:240:G:H4'	1.96	0.65
1:BA:938:A:C2	1:BA:1345:U:O4	2.50	0.65
1:BA:1126:U:C5	1:BA:1281:C:N4	2.65	0.65
1:BA:1492:A:C2	25:DA:1913:A:N6	2.65	0.65
2:BB:104:LYS:HG2	2:BB:104:LYS:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:47:LEU:HD23	4:BD:52:VAL:CG1	2.27	0.65
10:BJ:9:ARG:CZ	10:BJ:9:ARG:HB3	2.25	0.65
13:BM:85:TYR:CE2	13:BM:89:ARG:HG3	2.32	0.65
25:CA:1746:A:C2	25:CA:1747:U:C2	2.85	0.65
26:CB:65:U:H2'	26:CB:108:A:N6	2.12	0.65
34:CJ:49:ASP:OD1	34:CJ:121:LYS:HE3	1.96	0.65
36:CL:126:ARG:HD3	36:CL:126:ARG:H	1.62	0.65
25:DA:1538:G:O4'	25:DA:1538:G:OP2	2.15	0.65
25:DA:2197:U:C6	25:DA:2224:G:N1	2.65	0.65
56:DB:62:C:H2'	56:DB:63:C:C6	2.31	0.65
30:DF:28:PRO:CB	30:DF:168:LEU:HD22	2.26	0.65
31:DG:154:GLU:HG2	31:DG:155:PRO:CD	2.26	0.65
32:DH:31:VAL:HG12	32:DH:32:PRO:CD	2.27	0.65
32:DH:69:ALA:HB2	32:DH:138:VAL:HG12	1.78	0.65
34:DJ:119:PHE:CD1	34:DJ:119:PHE:C	2.74	0.65
35:DK:79:PHE:HB3	40:DP:67:GLU:OE2	1.97	0.65
36:DL:9:ALA:HB3	36:DL:12:SER:OG	1.97	0.65
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.97	0.65
1:AA:1478:U:H2'	1:AA:1479:C:H6	1.62	0.65
4:AD:90:LEU:HD21	4:AD:194:ILE:HD11	1.79	0.65
7:AG:105:GLU:O	7:AG:109:LYS:HG2	1.97	0.65
1:BA:121:U:O4'	1:BA:121:U:OP2	2.15	0.65
1:BA:469:C:C5	1:BA:470:C:C4	2.84	0.65
1:BA:684:U:H2'	1:BA:685:G:H5'	1.78	0.65
1:BA:840:C:N3	1:BA:842:U:H4'	2.11	0.65
1:BA:1234:C:C2'	1:BA:1235:U:H5'	2.26	0.65
2:BB:101:THR:HG22	2:BB:174:GLU:OE1	1.97	0.65
6:BF:36:ILE:HB	6:BF:64:VAL:HG22	1.78	0.65
25:CA:594:U:H2'	25:CA:595:C:C6	2.32	0.65
25:CA:1840:G:C5	25:CA:1841:U:C5	2.85	0.65
25:CA:2152:G:H2'	25:CA:2153:C:H5'	1.79	0.65
29:CE:18:THR:CG2	29:CE:19:PHE:CD2	2.80	0.65
44:CT:89:GLU:O	44:CT:91:GLN:HG2	1.97	0.65
25:DA:1338:G:O2'	25:DA:1339:G:H5'	1.96	0.65
25:DA:1414:C:C4	25:DA:1415:U:H5	2.14	0.65
25:DA:1429:G:N2	25:DA:1430:G:C4	2.65	0.65
25:DA:1439:A:C2	25:DA:1553:A:C4	2.84	0.65
25:DA:1589:U:C2	25:DA:1590:A:N7	2.65	0.65
25:DA:2591:C:O2'	25:DA:2592:G:H5'	1.97	0.65
25:DA:2749:A:OP1	31:DG:1:SER:HB3	1.97	0.65
33:DI:32:VAL:HG13	33:DI:66:PHE:CE2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DL:70:LYS:O	36:DL:74:THR:HG23	1.97	0.65
1:AA:410:G:H5”	4:AD:25:ARG:NH2	2.12	0.64
1:AA:811:C:O2’	1:AA:901:A:N1	2.29	0.64
1:AA:1318:A:H1’	19:AS:36:ARG:NH1	2.13	0.64
6:AF:42:TRP:N	6:AF:42:TRP:CD1	2.63	0.64
7:AG:71:THR:HG23	7:AG:72:VAL:HG13	1.79	0.64
10:AJ:52:LEU:HD11	10:AJ:59:LYS:HA	1.78	0.64
11:AK:39:ASN:O	11:AK:40:ALA:HB3	1.97	0.64
16:AP:20:VAL:CG2	16:AP:35:ARG:HA	2.27	0.64
1:BA:986:U:H2’	1:BA:987:G:O4’	1.97	0.64
1:BA:1039:G:C6	1:BA:1040:U:C4	2.84	0.64
1:BA:1078:U:O2’	1:BA:1079:G:H5’	1.96	0.64
4:BD:4:LEU:N	4:BD:4:LEU:HD13	2.12	0.64
20:BT:43:LYS:CE	20:BT:85:LEU:O	2.44	0.64
20:BT:53:MET:CE	20:BT:57:VAL:HG21	2.27	0.64
25:CA:192:C:H2’	25:CA:193:U:H5’	1.79	0.64
25:CA:1086:A:H5”	25:CA:1087:G:OP1	1.97	0.64
25:CA:1313:U:H2’	25:CA:1610:A:C2	2.31	0.64
25:CA:2103:C:H2’	25:CA:2104:C:H5’	1.78	0.64
25:CA:2223:G:H2’	25:CA:2224:G:H5’	1.79	0.64
33:CI:92:PRO:HA	33:CI:97:VAL:HG21	1.79	0.64
52:C1:33:LEU:H	52:C1:51:ALA:HB3	1.62	0.64
25:DA:529:A:H4’	25:DA:530:G:OP1	1.96	0.64
25:DA:811:U:C2	25:DA:1251:C:C5	2.84	0.64
25:DA:1469:A:C2	25:DA:1470:A:C5	2.85	0.64
25:DA:2219:U:C2’	25:DA:2220:U:O5’	2.45	0.64
30:DF:33:ILE:HD13	30:DF:155:ILE:HG12	1.79	0.64
32:DH:76:GLU:HG2	32:DH:143:ILE:CD1	2.27	0.64
35:DK:4:GLU:O	35:DK:5:GLN:HB2	1.96	0.64
1:AA:1446:A:C2’	1:AA:1447:A:H5’	2.27	0.64
6:AF:3:HIS:HB2	6:AF:92:THR:HA	1.79	0.64
6:AF:16:GLU:OE2	4:BD:190:LEU:O	2.14	0.64
19:AS:49:ALA:HA	19:AS:57:VAL:O	1.97	0.64
21:AU:38:GLU:N	21:AU:40:PRO:HD2	2.11	0.64
24:AY:118:VAL:HG12	24:AY:176:LEU:CD1	2.27	0.64
1:BA:1292:G:H2’	1:BA:1293:C:C6	2.32	0.64
5:BE:56:PRO:O	5:BE:59:ILE:HG13	1.96	0.64
9:BI:53:LEU:O	9:BI:54:VAL:HG13	1.98	0.64
25:CA:26:G:C6	25:CA:27:G:N1	2.65	0.64
25:CA:1045:C:H3’	25:CA:1046:A:H5’	1.78	0.64
25:CA:1070:A:C2	33:CI:9:LYS:HG3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1142:A:C2	25:CA:1144:A:C8	2.85	0.64
25:CA:1998:A:OP2	28:CD:141:ARG:NH2	2.30	0.64
25:CA:2311:A:N7	30:CF:76:PHE:CD2	2.66	0.64
25:CA:2731:G:C6	25:CA:2732:G:O6	2.50	0.64
27:CC:161:VAL:HG11	27:CC:173:LEU:HG	1.78	0.64
38:CN:103:ARG:NE	38:CN:110:MET:HE2	2.12	0.64
25:DA:517:C:OP2	51:D0:9:ARG:NH2	2.30	0.64
29:DE:61:ARG:HD2	29:DE:63:LYS:O	1.96	0.64
29:DE:148:ILE:HD12	29:DE:187:VAL:HG11	1.79	0.64
30:DF:39:VAL:HG12	30:DF:84:ILE:C	2.22	0.64
34:DJ:117:ALA:O	34:DJ:119:PHE:N	2.30	0.64
39:DO:37:ALA:O	39:DO:78:VAL:HG21	1.97	0.64
46:DV:41:GLU:C	46:DV:42:LEU:HD23	2.23	0.64
1:AA:151:A:H2'	1:AA:152:A:O4'	1.98	0.64
1:AA:376:G:H2'	1:AA:377:G:H8	1.62	0.64
1:AA:1033:G:H2'	1:AA:1033:G:N3	2.10	0.64
4:AD:54:LEU:C	4:AD:54:LEU:HD23	2.22	0.64
9:AI:96:GLU:OE2	9:AI:96:GLU:N	2.30	0.64
10:AJ:59:LYS:HE3	10:AJ:59:LYS:H	1.63	0.64
13:AM:76:ILE:HG22	13:AM:80:MET:HE1	1.80	0.64
17:AQ:68:LYS:O	17:AQ:69:THR:HB	1.97	0.64
19:AS:28:LYS:CB	19:AS:29:PRO:CD	2.74	0.64
1:BA:71:A:H5'	1:BA:71:A:C8	2.31	0.64
1:BA:72:A:N6	1:BA:99:C:H1'	2.11	0.64
1:BA:852:G:C6	1:BA:853:C:C4	2.85	0.64
2:BB:221:ARG:HE	2:BB:222:GLU:H	1.44	0.64
3:BC:84:GLU:HG3	3:BC:85:LYS:N	2.12	0.64
5:BE:14:LEU:CA	5:BE:36:THR:HG22	2.27	0.64
20:BT:42:ASP:HB3	20:BT:45:ALA:HB3	1.78	0.64
22:BV:26:A:C2'	22:BV:27:G:H5'	2.28	0.64
25:CA:2852:G:H2'	25:CA:2853:C:C6	2.33	0.64
27:CC:110:LYS:CE	27:CC:113:ASP:OD1	2.44	0.64
35:CK:58:LEU:N	35:CK:58:LEU:HD22	2.13	0.64
25:DA:469:G:O6	53:D2:37:LYS:HE2	1.97	0.64
25:DA:1442:U:C2'	25:DA:1443:U:O5'	2.45	0.64
25:DA:1454:C:C5	38:DN:63:ARG:HG2	2.33	0.64
25:DA:1621:U:H5"	25:DA:1622:G:OP1	1.97	0.64
25:DA:2296:U:C2	25:DA:2333:A:C2	2.86	0.64
56:DB:52:A:C5	39:DO:33:ARG:NH2	2.66	0.64
56:DB:63:C:C2'	56:DB:64:G:O5'	2.45	0.64
34:DJ:142:ILE:OXT	34:DJ:142:ILE:HG23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DY:10:SER:O	49:DY:14:LEU:HD12	1.97	0.64
1:AA:419:C:H2'	1:AA:420:U:O5'	1.97	0.64
1:AA:844:G:C6	1:AA:846:G:O2'	2.49	0.64
1:AA:874:G:C5	1:AA:875:U:C5	2.84	0.64
1:AA:1478:U:H2'	1:AA:1479:C:C6	2.32	0.64
2:AB:116:LEU:HA	2:AB:119:GLN:OE1	1.98	0.64
17:AQ:56:ASP:O	17:AQ:58:VAL:HG12	1.97	0.64
1:BA:485:U:H4'	1:BA:485:U:OP2	1.96	0.64
1:BA:929:G:C2'	1:BA:930:C:O5'	2.44	0.64
2:BB:125:PHE:N	2:BB:125:PHE:CD2	2.62	0.64
7:BG:68:VAL:O	7:BG:70:PRO:N	2.30	0.64
10:BJ:22:THR:HA	10:BJ:25:ILE:CG2	2.28	0.64
20:BT:32:LYS:O	20:BT:33:LYS:C	2.40	0.64
20:BT:66:ILE:C	20:BT:67:HIS:CD2	2.76	0.64
21:BU:11:PHE:N	21:BU:11:PHE:CD1	2.63	0.64
25:CA:55:G:O2'	25:CA:127:A:N1	2.26	0.64
25:CA:557:C:H2'	25:CA:558:U:H6	1.62	0.64
25:CA:1414:C:C4	25:CA:1415:U:C5	2.86	0.64
32:CH:3:VAL:HB	32:CH:37:VAL:O	1.97	0.64
33:CI:79:LEU:HD11	33:CI:132:ALA:HB2	1.79	0.64
46:CV:80:HIS:CG	46:CV:81:PRO:HD2	2.32	0.64
49:CY:13:GLU:C	49:CY:15:ASN:H	2.05	0.64
25:DA:1445:G:N2	25:DA:1547:C:C2	2.65	0.64
28:DD:50:VAL:HG23	28:DD:51:THR:N	2.12	0.64
32:DH:9:VAL:O	32:DH:10:ALA:C	2.39	0.64
33:DI:9:LYS:HB2	33:DI:55:PRO:CB	2.26	0.64
34:DJ:117:ALA:C	34:DJ:119:PHE:H	2.05	0.64
1:AA:254:G:OP1	17:AQ:69:THR:HB	1.96	0.64
1:AA:271:C:H2'	1:AA:272:C:H6	1.63	0.64
1:AA:832:G:C2'	1:AA:833:G:H5'	2.26	0.64
1:AA:1028:C:H2'	1:AA:1028:C:O2	1.97	0.64
1:AA:1083:U:C5	1:AA:1084:G:C4	2.86	0.64
3:AC:71:ARG:N	3:AC:72:PRO:HD3	2.13	0.64
3:AC:147:GLY:HA3	3:AC:171:ARG:O	1.97	0.64
5:AE:73:VAL:HG11	5:AE:143:LEU:HB3	1.80	0.64
5:AE:81:GLN:HG2	5:AE:149:PRO:HB3	1.79	0.64
9:AI:39:GLY:O	9:AI:40:ARG:HB2	1.96	0.64
10:AJ:52:LEU:HD13	10:AJ:61:ALA:HB3	1.80	0.64
24:AY:149:ILE:HG23	24:AY:153:ASP:HB3	1.80	0.64
1:BA:430:A:OP2	4:BD:7:LYS:HD2	1.97	0.64
1:BA:1130:A:H4'	9:BI:19:PHE:CE1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1527:U:OP2	21:BU:38:GLU:HG3	1.98	0.64
8:BH:29:SER:O	8:BH:30:LYS:C	2.41	0.64
8:BH:46:GLU:O	8:BH:47:ASP:HB2	1.98	0.64
13:BM:9:PRO:O	13:BM:10:ASP:HB2	1.96	0.64
18:BR:24:ASP:O	18:BR:26:ALA:N	2.30	0.64
25:CA:1234:U:H2'	25:CA:1235:G:O5'	1.97	0.64
30:CF:128:SER:O	30:CF:129:MET:HB3	1.98	0.64
33:CI:6:ALA:CB	33:CI:60:VAL:H	2.10	0.64
37:CM:108:VAL:HG12	37:CM:109:PRO:HD2	1.78	0.64
38:CN:10:LEU:O	38:CN:12:ARG:N	2.30	0.64
38:CN:35:LYS:HB2	38:CN:112:TYR:CE1	2.33	0.64
44:CT:16:VAL:O	44:CT:16:VAL:HG23	1.96	0.64
25:DA:1871:A:O2'	25:DA:1872:A:N7	2.30	0.64
25:DA:2414:G:C6	25:DA:2415:G:N7	2.65	0.64
28:DD:9:VAL:HG23	28:DD:26:VAL:O	1.98	0.64
29:DE:176:ASP:OD2	29:DE:178:VAL:HG12	1.97	0.64
30:DF:104:THR:O	30:DF:108:PRO:HG2	1.97	0.64
49:DY:45:GLN:O	49:DY:46:VAL:C	2.38	0.64
1:AA:666:G:H5'	1:AA:726:C:H1'	1.80	0.64
1:AA:1213:A:C8	1:AA:1215:G:C5	2.86	0.64
1:AA:1304:G:OP2	60:AA:1795:HOH:O	2.14	0.64
1:AA:1356:G:O2'	1:AA:1357:A:H5'	1.98	0.64
2:AB:162:VAL:HG13	2:AB:184:ALA:HB2	1.78	0.64
3:AC:166:TRP:O	3:AC:167:TYR:CD1	2.51	0.64
13:AM:25:GLY:O	13:AM:26:LYS:C	2.40	0.64
17:AQ:51:GLU:CD	17:AQ:51:GLU:H	2.06	0.64
1:BA:69:G:H2'	1:BA:70:U:C6	2.32	0.64
1:BA:518:C:H2'	1:BA:530:G:H8	1.62	0.64
1:BA:1126:U:C6	1:BA:1281:C:C4	2.86	0.64
1:BA:1386:G:C2	1:BA:1387:G:N7	2.65	0.64
2:BB:99:MET:O	2:BB:103:TRP:HA	1.97	0.64
4:BD:55:ARG:HH12	4:BD:58:GLN:HG2	1.62	0.64
10:BJ:5:ARG:HG3	10:BJ:6:ILE:HG12	1.80	0.64
10:BJ:53:ILE:HG22	10:BJ:61:ALA:O	1.98	0.64
17:BQ:5:ARG:HB2	17:BQ:5:ARG:NH1	2.12	0.64
17:BQ:7:LEU:H	17:BQ:60:ILE:HG22	1.62	0.64
19:BS:14:LEU:HD23	19:BS:37:SER:OG	1.96	0.64
21:BU:38:GLU:OE2	21:BU:41:THR:HG21	1.97	0.64
25:CA:18:U:OP1	41:CQ:29:ARG:NH2	2.31	0.64
25:CA:141:G:H3'	25:CA:142:A:C8	2.32	0.64
30:CF:7:TYR:HA	30:CF:11:VAL:HG23	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:154:THR:HG22	30:CF:154:THR:O	1.98	0.64
38:CN:57:THR:HG22	38:CN:57:THR:O	1.95	0.64
49:CY:14:LEU:O	49:CY:17:GLU:HB3	1.96	0.64
49:CY:19:LEU:HA	49:CY:22:LEU:HB3	1.79	0.64
25:DA:157:C:H2'	25:DA:158:U:O4'	1.98	0.64
25:DA:1047:G:H4'	25:DA:1048:A:H5'	1.79	0.64
25:DA:1916:A:H2'	25:DA:1917:U:O4'	1.98	0.64
25:DA:2230:G:H2'	25:DA:2231:U:C6	2.31	0.64
25:DA:2291:U:H2'	25:DA:2292:U:C6	2.32	0.64
56:DB:22:U:O2	56:DB:22:U:H2'	1.96	0.64
56:DB:35:C:H2'	56:DB:36:C:O5'	1.97	0.64
28:DD:158:GLY:O	28:DD:159:LYS:C	2.41	0.64
30:DF:3:LEU:HD21	30:DF:100:GLU:HB2	1.80	0.64
32:DH:133:GLN:HA	32:DH:139:PHE:CD1	2.32	0.64
36:DL:4:ASN:C	36:DL:5:THR:CG2	2.71	0.64
49:DY:53:VAL:O	49:DY:56:LEU:O	2.15	0.64
49:DY:57:LEU:O	49:DY:61:ALA:HB3	1.96	0.64
1:AA:205:A:C2	1:AA:206:C:O4'	2.50	0.64
1:AA:718:A:H5'	11:AK:118:ASN:HB2	1.79	0.64
1:AA:768:A:H2'	1:AA:769:G:H5'	1.78	0.64
1:AA:1083:U:C5	1:AA:1084:G:C5	2.84	0.64
3:AC:41:TYR:OH	3:AC:89:VAL:HG21	1.98	0.64
4:AD:2:ARG:NH2	4:AD:114:ARG:HD3	2.13	0.64
1:BA:220:G:C2	1:BA:221:C:C6	2.86	0.64
1:BA:847:G:H2'	1:BA:848:C:O4'	1.97	0.64
1:BA:1252:A:H2'	1:BA:1253:G:O4'	1.97	0.64
1:BA:1521:C:C2'	1:BA:1522:U:O5'	2.46	0.64
6:BF:9:MET:HB2	6:BF:85:ILE:HG13	1.79	0.64
25:CA:907:G:C2'	25:CA:908:C:H5'	2.27	0.64
25:CA:1076:C:N3	25:CA:1077:A:C6	2.66	0.64
25:CA:1467:U:C4	25:CA:1546:G:C2	2.85	0.64
25:CA:2277:G:C2'	25:CA:2278:A:O5'	2.43	0.64
25:CA:2318:G:O2'	25:CA:2319:G:H5'	1.98	0.64
29:CE:146:VAL:HG22	29:CE:167:VAL:HG22	1.79	0.64
25:DA:78:U:P	49:DY:2:LYS:HD2	2.38	0.64
25:DA:310:A:H5"	45:DU:14:THR:HG22	1.79	0.64
25:DA:484:C:H2'	25:DA:485:C:H6	1.62	0.64
25:DA:615:U:H3'	25:DA:616:A:H5'	1.80	0.64
25:DA:876:C:N4	25:DA:877:A:C6	2.65	0.64
25:DA:1486:U:C2	25:DA:1504:A:C2	2.85	0.64
25:DA:1538:G:OP2	25:DA:1538:G:H8	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1926:U:H1'	25:DA:1929:G:C6	2.33	0.64
25:DA:2096:C:H2'	25:DA:2097:A:C8	2.33	0.64
27:DC:1:ALA:HA	27:DC:198:GLU:CD	2.23	0.64
32:DH:3:VAL:O	32:DH:19:VAL:HG22	1.97	0.64
33:DI:112:LYS:HE2	33:DI:116:MET:HE3	1.80	0.64
39:DO:49:VAL:HG12	39:DO:50:ALA:H	1.63	0.64
43:DS:69:LEU:C	43:DS:70:LYS:HD2	2.23	0.64
1:AA:575:G:O2'	1:AA:821:G:H5'	1.97	0.64
1:AA:717:U:H4'	11:AK:118:ASN:HD22	1.63	0.64
1:AA:802:A:H2'	1:AA:803:G:H5'	1.78	0.64
1:AA:1101:A:C4'	1:AA:1102:A:O5'	2.45	0.64
1:AA:1202:U:H1'	14:AN:69:ARG:HD2	1.78	0.64
1:AA:1313:U:OP2	19:AS:5:LYS:CB	2.45	0.64
20:AT:81:GLN:O	20:AT:84:LYS:HB2	1.98	0.64
25:CA:164:C:H2'	25:CA:165:A:H5'	1.79	0.64
25:CA:1392:A:H61	44:CT:18:GLU:CD	2.06	0.64
26:CB:54:G:H2'	26:CB:55:U:H6	1.63	0.64
42:CR:51:VAL:HB	42:CR:52:PRO:CD	2.28	0.64
25:DA:616:A:C2'	25:DA:617:G:O5'	2.46	0.64
25:DA:866:A:O4'	25:DA:914:G:N2	2.30	0.64
25:DA:1091:G:O6	25:DA:1101:U:O4	2.16	0.64
25:DA:1248:G:OP1	41:DQ:1:ALA:HB3	1.98	0.64
25:DA:1385:A:H1'	25:DA:1386:C:H6	1.63	0.64
25:DA:2794:C:H2'	25:DA:2795:C:O4'	1.98	0.64
28:DD:51:THR:OG1	28:DD:76:GLY:HA3	1.97	0.64
28:DD:180:VAL:O	28:DD:180:VAL:HG12	1.98	0.64
30:DF:116:LEU:O	30:DF:117:SER:C	2.41	0.64
36:DL:82:LEU:HD23	36:DL:82:LEU:C	2.22	0.64
1:AA:190:A:C8	1:AA:191:G:C8	2.86	0.64
1:AA:395:C:H2'	1:AA:396:C:C6	2.33	0.64
1:AA:536:C:P	60:AA:1887:HOH:O	2.56	0.64
1:AA:945:G:C2	1:AA:946:A:C8	2.86	0.64
1:AA:1480:A:C2	1:AA:1481:U:C2	2.86	0.64
1:AA:1492:A:H3'	1:AA:1493:A:C8	2.33	0.64
2:AB:105:THR:O	2:AB:106:VAL:CB	2.46	0.64
3:AC:57:GLU:HG3	3:AC:64:ARG:HB3	1.80	0.64
11:AK:60:PHE:O	11:AK:64:VAL:HG12	1.98	0.64
12:AL:23:LEU:HB2	12:AL:58:ASN:HD22	1.63	0.64
1:BA:332:G:C2'	1:BA:333:U:H5'	2.27	0.64
1:BA:436:C:H2'	1:BA:437:U:C6	2.32	0.64
1:BA:1060:U:O2'	1:BA:1061:G:H5'	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:38:GLY:H	4:BD:41:GLY:HA3	1.62	0.64
4:BD:202:LEU:C	4:BD:202:LEU:HD12	2.23	0.64
12:BL:29:LYS:HA	12:BL:29:LYS:CE	2.28	0.64
12:BL:34:THR:HG22	12:BL:35:ARG:HG2	1.80	0.64
22:BV:40:C:H2'	22:BV:41:C:H6	1.63	0.64
25:CA:580:U:H2'	25:CA:581:C:H6	1.62	0.64
25:CA:994:C:O3'	25:CA:995:C:H3'	1.98	0.64
26:CB:53:A:C2'	26:CB:54:G:H5'	2.28	0.64
28:CD:1:MET:HG3	28:CD:205:PRO:HG2	1.79	0.64
25:DA:1540:G:C5	25:DA:1541:C:C5	2.86	0.64
56:DB:48:U:P	39:DO:30:ARG:HH22	2.21	0.64
32:DH:34:GLY:O	32:DH:35:LYS:HG3	1.97	0.64
44:DT:2:ILE:HG23	44:DT:3:ARG:C	2.22	0.64
1:AA:542:G:N3	1:AA:543:U:C6	2.65	0.64
1:AA:679:C:H2'	1:AA:680:C:O4'	1.97	0.64
1:AA:951:G:C6	1:AA:1231:G:C6	2.86	0.64
1:AA:1004:A:C4	1:AA:1026:G:C5	2.87	0.64
1:AA:1246:A:H2'	1:AA:1247:U:C6	2.33	0.64
2:AB:49:PHE:HA	2:AB:52:ALA:CB	2.26	0.64
4:AD:189:ASP:O	4:AD:190:LEU:HG	1.97	0.64
6:AF:18:VAL:HB	6:AF:19:PRO:HD3	1.81	0.64
21:AU:13:VAL:HG13	21:AU:15:LEU:HG	1.79	0.64
1:BA:1086:U:H4'	1:BA:1086:U:OP1	1.98	0.64
27:CC:78:GLU:HB2	27:CC:92:LEU:O	1.98	0.64
28:CD:151:THR:HG22	28:CD:152:PRO:CD	2.27	0.64
30:CF:154:THR:O	30:CF:154:THR:CG2	2.46	0.64
31:CG:79:THR:HG22	31:CG:80:GLU:N	2.12	0.64
31:CG:88:LEU:HD12	31:CG:88:LEU:N	2.13	0.64
36:CL:91:ASP:HB3	36:CL:93:ASN:O	1.98	0.64
42:CR:49:ILE:CG2	42:CR:53:PHE:H	2.11	0.64
25:DA:164:C:H2'	25:DA:165:A:H5'	1.80	0.64
25:DA:1087:G:H2'	25:DA:1088:A:H5'	1.78	0.64
25:DA:2250:G:H8	25:DA:2250:G:O5'	1.81	0.64
33:DI:46:ASP:CA	33:DI:50:LYS:HD2	2.28	0.64
36:DL:91:ASP:CB	36:DL:94:THR:HB	2.26	0.64
38:DN:33:ILE:HG23	38:DN:33:ILE:O	1.98	0.64
40:DP:38:ARG:HG3	40:DP:39:LEU:H	1.62	0.64
1:AA:214:C:H2'	1:AA:215:C:H6	1.64	0.63
3:AC:166:TRP:CE3	3:AC:166:TRP:C	2.76	0.63
7:AG:46:LEU:HG	7:AG:57:GLU:HG3	1.80	0.63
20:AT:53:MET:O	20:AT:56:ILE:CG2	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:80:ALA:O	20:AT:84:LYS:HG2	1.97	0.63
1:BA:40:C:C2	1:BA:41:G:C8	2.86	0.63
1:BA:572:A:H5'	1:BA:573:A:OP2	1.98	0.63
1:BA:722:G:H4'	21:BU:48:LYS:HE2	1.80	0.63
1:BA:1521:C:H2'	1:BA:1522:U:O5'	1.97	0.63
1:BA:1522:U:H2'	1:BA:1523:G:O5'	1.98	0.63
1:BA:1540:U:O3'	21:BU:17:ARG:NE	2.30	0.63
6:BF:46:GLN:HA	6:BF:56:LYS:HG3	1.80	0.63
11:BK:124:LYS:O	21:BU:34:ARG:HB2	1.98	0.63
14:BN:73:PHE:CE2	14:BN:78:GLY:HA2	2.33	0.63
25:CA:846:U:O2'	25:CA:847:U:C5	2.50	0.63
25:CA:1269:A:OP2	60:CA:3384:HOH:O	2.15	0.63
25:CA:1426:G:H1'	25:CA:1572:A:N6	2.13	0.63
25:CA:2211:A:O2'	25:CA:2212:A:OP1	2.15	0.63
25:CA:2328:A:H2'	25:CA:2329:U:C6	2.33	0.63
25:CA:2332:C:H5"	25:CA:2333:A:OP1	1.99	0.63
25:CA:2637:U:C2'	25:CA:2638:G:H5'	2.27	0.63
26:CB:112:G:H2'	26:CB:113:C:C6	2.33	0.63
33:CI:101:SER:HB3	33:CI:104:GLN:NE2	2.13	0.63
46:CV:50:MET:O	46:CV:52:ALA:N	2.30	0.63
25:DA:53:A:C8	25:DA:54:G:C8	2.87	0.63
25:DA:1156:A:C8	41:DQ:50:ARG:HG2	2.32	0.63
25:DA:1176:U:C5	25:DA:1177:G:C6	2.87	0.63
25:DA:1385:A:C2	25:DA:1386:C:C4	2.86	0.63
25:DA:2415:G:H2'	25:DA:2416:C:H6	1.63	0.63
25:DA:2746:U:C4	25:DA:2747:G:N7	2.66	0.63
34:DJ:17:VAL:HG23	34:DJ:137:PRO:CB	2.28	0.63
41:DQ:105:PHE:HA	41:DQ:108:LEU:HD12	1.79	0.63
1:AA:144:G:C4	1:AA:179:A:C2	2.86	0.63
1:AA:646:G:O6	60:AA:1745:HOH:O	2.11	0.63
2:AB:147:LEU:HD22	2:AB:150:ILE:HG21	1.78	0.63
4:AD:34:GLU:O	4:AD:37:PRO:HD3	1.98	0.63
5:AE:93:VAL:CG2	5:AE:110:MET:HE1	2.28	0.63
14:AN:12:ARG:O	14:AN:16:ALA:HB2	1.98	0.63
16:AP:16:PHE:CD1	16:AP:16:PHE:C	2.75	0.63
1:BA:1004:A:H2'	1:BA:1005:A:O4'	1.98	0.63
3:BC:5:HIS:CD2	14:BN:89:MET:HB3	2.33	0.63
6:BF:29:ILE:HG22	6:BF:34:GLY:O	1.98	0.63
14:BN:22:LYS:HG3	14:BN:23:ARG:N	2.11	0.63
25:CA:102:U:C4	49:CY:2:LYS:HD2	2.32	0.63
25:CA:179:C:H2'	25:CA:180:G:O5'	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:615:U:C5	29:CE:35:TYR:CZ	2.86	0.63
25:CA:1038:G:O2'	25:CA:1039:A:H5'	1.97	0.63
25:CA:1080:A:N3	25:CA:1080:A:H2'	2.11	0.63
25:CA:2221:G:C2'	25:CA:2222:C:H5'	2.28	0.63
36:CL:110:VAL:O	36:CL:111:ILE:C	2.42	0.63
39:CO:106:LEU:C	39:CO:106:LEU:HD23	2.23	0.63
25:DA:1356:G:N2	25:DA:1357:C:H1'	2.13	0.63
25:DA:1442:U:H2'	25:DA:1443:U:O5'	1.98	0.63
25:DA:1467:U:H2'	25:DA:1468:U:O5'	1.97	0.63
25:DA:2303:G:C2'	25:DA:2304:G:H5'	2.29	0.63
25:DA:2636:C:H2'	25:DA:2637:U:C6	2.34	0.63
33:DI:18:ASN:HB2	33:DI:38:CYS:HB3	1.79	0.63
33:DI:54:ILE:HA	33:DI:73:PRO:HA	1.78	0.63
36:DL:107:PHE:N	36:DL:107:PHE:HD2	1.94	0.63
1:AA:328:C:O2	1:AA:328:C:H2'	1.98	0.63
1:AA:452:A:H3'	1:AA:452:A:C8	2.33	0.63
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.34	0.63
2:AB:98:GLY:HA2	2:AB:101:THR:HB	1.80	0.63
7:AG:68:VAL:HG11	7:AG:133:ALA:HB3	1.78	0.63
8:AH:21:LYS:HE2	8:AH:21:LYS:HA	1.79	0.63
16:AP:80:LYS:HE3	16:AP:80:LYS:HA	1.81	0.63
1:BA:132:C:H5"	20:BT:68:LYS:CD	2.28	0.63
1:BA:462:G:H5"	1:BA:463:U:OP2	1.98	0.63
1:BA:736:C:H2'	1:BA:737:C:H6	1.62	0.63
1:BA:841:C:C6	1:BA:843:U:H5'	2.34	0.63
1:BA:1489:G:H2'	1:BA:1490:U:H6	1.63	0.63
1:BA:1499:A:H2'	1:BA:1500:A:O5'	1.98	0.63
2:BB:156:LEU:HG	2:BB:157:PRO:O	1.98	0.63
3:BC:153:SER:HA	3:BC:164:THR:HA	1.79	0.63
5:BE:38:VAL:CG2	5:BE:70:MET:HE2	2.29	0.63
10:BJ:48:ARG:O	10:BJ:49:PHE:CD2	2.51	0.63
25:CA:47:C:H2'	25:CA:48:G:H5'	1.81	0.63
25:CA:374:A:C2	25:CA:401:A:C4	2.85	0.63
25:CA:1078:U:H1'	25:CA:1088:A:C2	2.33	0.63
25:CA:1490:A:O2'	27:CC:97:ASP:OD2	2.16	0.63
25:CA:1722:A:N1	25:CA:1723:G:C2	2.66	0.63
25:CA:2888:C:H2'	25:CA:2889:C:C6	2.34	0.63
37:CM:113:ALA:O	37:CM:114:ARG:C	2.41	0.63
25:DA:102:U:C2	49:DY:2:LYS:HE2	2.34	0.63
25:DA:412:A:H2'	25:DA:413:C:H5'	1.79	0.63
25:DA:858:G:O2'	25:DA:2268:A:H1'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:929:U:H1'	50:DZ:25:GLY:O	1.98	0.63
25:DA:1323:C:H2'	25:DA:1324:G:O5'	1.98	0.63
25:DA:1857:G:C4	25:DA:1884:G:N2	2.66	0.63
25:DA:2096:C:H2'	25:DA:2097:A:H8	1.62	0.63
34:DJ:16:TYR:HB3	34:DJ:140:LEU:HB2	1.80	0.63
34:DJ:59:ALA:O	34:DJ:62:VAL:HG12	1.98	0.63
43:DS:43:ALA:O	43:DS:44:ALA:C	2.39	0.63
44:DT:40:LYS:HG3	44:DT:60:THR:CG2	2.29	0.63
49:DY:16:THR:HG22	49:DY:17:GLU:N	2.14	0.63
1:AA:626:G:C2'	1:AA:627:G:H5'	2.28	0.63
1:AA:1037:C:C2	1:AA:1038:C:C5	2.87	0.63
2:AB:53:LEU:HD12	2:AB:219:THR:CG2	2.29	0.63
8:AH:85:TYR:CE2	8:AH:123:GLU:HB2	2.34	0.63
1:BA:91:U:C4	1:BA:92:U:C5	2.86	0.63
1:BA:1079:G:H2'	1:BA:1080:A:C8	2.34	0.63
2:BB:140:LEU:O	2:BB:144:GLU:N	2.32	0.63
4:BD:14:GLU:HA	4:BD:14:GLU:OE1	1.97	0.63
7:BG:34:LYS:CB	7:BG:37:THR:HG22	2.28	0.63
15:BO:80:LEU:HD11	15:BO:84:LEU:CD2	2.29	0.63
25:CA:60:G:O2'	25:CA:61:C:O5'	2.17	0.63
25:CA:707:G:O6	25:CA:724:U:O2	2.16	0.63
31:CG:123:GLU:HA	31:CG:123:GLU:OE1	1.97	0.63
36:CL:93:ASN:O	36:CL:94:THR:CB	2.46	0.63
36:CL:93:ASN:O	36:CL:94:THR:HB	1.98	0.63
49:CY:13:GLU:C	49:CY:15:ASN:N	2.55	0.63
25:DA:406:G:H2'	25:DA:407:G:O4'	1.99	0.63
25:DA:714:U:H2'	25:DA:716:A:C8	2.34	0.63
25:DA:773:U:O2'	27:DC:47:ARG:HD3	1.99	0.63
25:DA:1022:G:N2	25:DA:1142:A:C2	2.67	0.63
25:DA:1654:A:OP2	38:DN:1:MET:HA	1.98	0.63
25:DA:1735:A:C2	25:DA:1736:U:H1'	2.33	0.63
25:DA:2299:U:H2'	25:DA:2300:C:C6	2.33	0.63
25:DA:2567:G:H2'	25:DA:2568:U:C6	2.33	0.63
56:DB:57:A:H1'	30:DF:26:GLN:HA	1.79	0.63
39:DO:100:HIS:CD2	39:DO:101:GLY:N	2.67	0.63
42:DR:47:VAL:HG12	42:DR:47:VAL:O	1.97	0.63
1:AA:11:G:H2'	1:AA:12:U:O5'	1.98	0.63
1:AA:636:U:H2'	1:AA:637:C:C6	2.33	0.63
3:AC:41:TYR:CE2	3:AC:45:GLU:CG	2.81	0.63
3:AC:152:VAL:HG23	3:AC:156:LEU:HD21	1.81	0.63
6:AF:47:LEU:HD13	6:AF:51:ILE:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:93:ARG:C	12:AL:94:TYR:CD2	2.77	0.63
13:AM:19:THR:HA	13:AM:24:VAL:CG2	2.28	0.63
1:BA:132:C:H5"	20:BT:68:LYS:HD3	1.80	0.63
1:BA:135:C:H2'	1:BA:136:C:H5'	1.79	0.63
1:BA:459:A:H2'	1:BA:460:A:O4'	1.99	0.63
1:BA:1489:G:C5	1:BA:1490:U:C5	2.86	0.63
3:BC:6:PRO:O	3:BC:10:ARG:HG2	1.98	0.63
3:BC:85:LYS:O	3:BC:88:LYS:HB3	1.98	0.63
5:BE:121:ASN:CG	5:BE:122:VAL:N	2.56	0.63
9:BI:118:ARG:O	9:BI:119:LYS:HB3	1.98	0.63
15:BO:34:GLN:NE2	15:BO:38:LEU:HD22	2.14	0.63
25:CA:1546:G:H5"	25:CA:1547:C:H5"	1.81	0.63
25:CA:2592:G:C2'	25:CA:2593:U:H5'	2.29	0.63
29:CE:131:THR:HG22	29:CE:160:ALA:HA	1.80	0.63
30:CF:56:LEU:HD13	30:CF:88:VAL:HG23	1.80	0.63
33:CI:20:SER:HA	33:CI:24:GLY:HA2	1.79	0.63
33:CI:70:THR:C	33:CI:71:LYS:HD2	2.24	0.63
38:CN:103:ARG:NH1	38:CN:110:MET:CE	2.62	0.63
25:DA:582:A:C2	25:DA:1259:G:C2	2.87	0.63
25:DA:1406:U:C2	25:DA:1407:G:C8	2.86	0.63
25:DA:2093:G:C6	25:DA:2225:A:C8	2.87	0.63
31:DG:51:PHE:CE2	31:DG:68:ARG:HA	2.33	0.63
1:AA:148:G:H2'	1:AA:149:A:O5'	1.99	0.63
1:AA:1378:C:C2'	1:AA:1379:G:O5'	2.46	0.63
5:AE:45:VAL:O	5:AE:70:MET:HG3	1.99	0.63
7:AG:3:ARG:HG3	7:AG:4:ARG:N	2.13	0.63
9:AI:96:GLU:N	9:AI:96:GLU:CD	2.57	0.63
13:AM:53:ASP:HA	13:AM:56:ARG:HB2	1.80	0.63
19:AS:12:LEU:O	19:AS:15:LEU:N	2.32	0.63
1:BA:686:U:O2	1:BA:687:A:C8	2.52	0.63
1:BA:687:A:C5	1:BA:701:U:H5	2.17	0.63
1:BA:991:U:H4'	1:BA:992:U:OP1	1.99	0.63
1:BA:1491:G:H2'	1:BA:1492:A:O4'	1.99	0.63
4:BD:47:LEU:HD23	4:BD:52:VAL:HG12	1.80	0.63
5:BE:14:LEU:HB3	5:BE:36:THR:HG22	1.80	0.63
9:BI:45:MET:HB2	9:BI:48:ARG:HB3	1.81	0.63
13:BM:3:ILE:O	13:BM:3:ILE:HG13	1.98	0.63
19:BS:62:THR:CB	19:BS:65:MET:HG3	2.27	0.63
20:BT:43:LYS:HD3	20:BT:86:ALA:HA	1.79	0.63
25:CA:819:A:C4	25:CA:1189:A:C2	2.87	0.63
31:CG:148:ARG:HH21	31:CG:166:GLU:CD	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CG:163:TYR:HB2	31:CG:166:GLU:HB2	1.79	0.63
38:CN:2:ARG:O	38:CN:3:HIS:C	2.42	0.63
25:DA:269:C:H2'	25:DA:270:A:H5'	1.81	0.63
25:DA:1457:U:H5"	25:DA:1458:U:OP1	1.99	0.63
25:DA:1520:U:H2'	25:DA:1521:G:H5'	1.80	0.63
25:DA:1526:C:N3	25:DA:1527:G:C4	2.66	0.63
56:DB:21:G:C4	56:DB:22:U:C6	2.86	0.63
31:DG:88:LEU:N	31:DG:88:LEU:HD13	2.14	0.63
44:DT:72:GLN:O	44:DT:74:ILE:HG23	1.98	0.63
1:AA:413:G:C6	4:AD:32:LYS:HD2	2.33	0.63
1:AA:632:U:H6	1:AA:632:U:H3'	1.63	0.63
1:AA:773:G:H4'	27:CC:201:LEU:HD21	1.78	0.63
1:AA:976:G:C8	1:AA:1358:U:O2	2.51	0.63
1:AA:1181:G:N1	1:AA:1182:G:N2	2.47	0.63
13:AM:44:ILE:HA	13:AM:47:LEU:HB2	1.81	0.63
22:AV:21:A:C4	22:AV:48:C:C5	2.86	0.63
1:BA:146:G:C2	1:BA:177:G:N7	2.67	0.63
1:BA:585:G:N3	1:BA:879:C:H4'	2.13	0.63
1:BA:715:A:O2'	1:BA:716:A:H5'	1.98	0.63
1:BA:952:U:H2'	1:BA:953:G:C8	2.33	0.63
5:BE:155:LYS:HG2	8:BH:65:PHE:HB2	1.80	0.63
7:BG:78:ARG:HA	7:BG:82:SER:O	1.99	0.63
9:BI:9:GLY:N	9:BI:84:ARG:HD3	2.12	0.63
10:BJ:71:LEU:O	10:BJ:72:ARG:HG2	1.99	0.63
17:BQ:13:SER:C	17:BQ:16:MET:HE1	2.24	0.63
23:BX:11:U:H3'	23:BX:12:A:C5'	2.28	0.63
25:CA:570:G:O6	60:CA:3694:HOH:O	2.14	0.63
25:CA:1288:G:C4	25:CA:1327:A:C2	2.87	0.63
25:CA:1594:U:H2'	25:CA:1595:C:C6	2.34	0.63
25:CA:1621:U:H5"	25:CA:1622:G:OP1	1.99	0.63
25:CA:2174:C:O2'	25:CA:2175:C:H5'	1.98	0.63
34:CJ:80:HIS:O	34:CJ:82:GLY:N	2.31	0.63
35:CK:71:ARG:HB2	35:CK:75:SER:HB2	1.80	0.63
36:CL:2:ARG:HG2	36:CL:2:ARG:O	1.97	0.63
36:CL:4:ASN:ND2	36:CL:4:ASN:O	2.31	0.63
44:CT:38:ALA:HA	44:CT:42:GLU:OE1	1.98	0.63
25:DA:1474:U:H2'	25:DA:1475:G:H5'	1.81	0.63
25:DA:1873:G:H2'	25:DA:1874:C:C6	2.34	0.63
25:DA:1965:C:OP1	25:DA:1966:A:H2'	1.98	0.63
25:DA:2209:G:N2	25:DA:2216:G:C4	2.67	0.63
36:DL:119:PRO:HA	36:DL:138:ALA:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DM:7:THR:HG21	37:DM:92:TRP:CH2	2.33	0.63
49:DY:21:LEU:HA	49:DY:25:GLN:HB3	1.79	0.63
1:AA:143:A:H5'	1:AA:144:G:C5'	2.28	0.63
1:AA:598:U:H4'	8:AH:85:TYR:HD1	1.58	0.63
1:AA:601:G:H2'	1:AA:602:A:C8	2.33	0.63
1:AA:609:A:H2'	1:AA:610:U:H5'	1.81	0.63
1:AA:885:G:O2'	1:AA:914:A:N1	2.27	0.63
1:AA:960:U:C5	1:AA:1225:A:C8	2.86	0.63
3:AC:152:VAL:HG12	3:AC:197:VAL:HG22	1.81	0.63
4:AD:173:ASP:OD1	4:AD:176:LYS:HE2	1.98	0.63
4:AD:176:LYS:O	4:AD:177:MET:HB2	1.99	0.63
8:AH:85:TYR:HD2	8:AH:123:GLU:HA	1.63	0.63
14:AN:15:LEU:O	14:AN:16:ALA:C	2.42	0.63
1:BA:4:U:C4'	1:BA:5:U:OP1	2.46	0.63
1:BA:409:U:H2'	1:BA:410:G:O4'	1.99	0.63
1:BA:1083:U:H5	1:BA:1084:G:C6	2.17	0.63
1:BA:1191:A:OP1	3:BC:3:LYS:HE3	1.97	0.63
2:BB:75:ALA:O	2:BB:79:VAL:HG23	1.98	0.63
3:BC:99:GLN:O	3:BC:100:ILE:HB	1.99	0.63
3:BC:166:TRP:C	3:BC:166:TRP:CE3	2.75	0.63
20:BT:82:ILE:HD12	20:BT:83:ASN:N	2.14	0.63
25:CA:276:U:H2'	25:CA:276:U:O2	1.97	0.63
25:CA:1452:G:H2'	25:CA:1457:U:O4	1.99	0.63
25:CA:2133:G:O2'	25:CA:2158:A:N6	2.30	0.63
27:CC:78:GLU:OE1	27:CC:100:ARG:NE	2.32	0.63
28:CD:150:GLN:O	28:CD:153:GLY:N	2.32	0.63
32:CH:48:GLU:CD	32:CH:48:GLU:C	2.66	0.63
43:CS:29:VAL:O	43:CS:33:LEU:HD12	1.99	0.63
25:DA:612:G:O2'	25:DA:613:A:C8	2.51	0.63
25:DA:1078:U:H4'	25:DA:1079:C:H5"	1.81	0.63
25:DA:1612:C:H2'	25:DA:1613:G:O5'	1.99	0.63
25:DA:2099:U:O2	25:DA:2100:G:C8	2.52	0.63
25:DA:2193:G:N3	25:DA:2194:U:C5	2.66	0.63
25:DA:2230:G:C4	25:DA:2231:U:C5	2.87	0.63
25:DA:2292:U:H2'	25:DA:2293:G:H8	1.63	0.63
25:DA:2514:U:H2'	25:DA:2515:C:C6	2.33	0.63
29:DE:187:VAL:O	29:DE:187:VAL:HG13	1.98	0.63
32:DH:62:LEU:O	32:DH:65:ALA:HB3	1.99	0.63
1:AA:481:G:H4'	1:AA:481:G:OP1	1.98	0.63
1:AA:1444:U:H2'	1:AA:1444:U:O2	1.98	0.63
4:AD:78:ALA:HB1	4:AD:85:THR:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:113:LYS:HE2	9:AI:117:LEU:O	1.98	0.63
1:BA:358:U:H2'	1:BA:359:G:C8	2.34	0.63
1:BA:1275:A:C4	1:BA:1276:G:C8	2.87	0.63
1:BA:1438:G:O2'	1:BA:1439:G:H5'	1.99	0.63
4:BD:58:GLN:O	4:BD:62:ARG:CG	2.47	0.63
5:BE:81:GLN:NE2	5:BE:149:PRO:HD3	2.14	0.63
7:BG:144:ALA:O	7:BG:145:GLU:HB2	1.99	0.63
12:BL:51:VAL:CG2	12:BL:52:CYS:N	2.61	0.63
12:BL:115:LYS:O	12:BL:116:TYR:CB	2.47	0.63
17:BQ:60:ILE:HG23	17:BQ:61:ARG:N	2.12	0.63
21:BU:25:ALA:O	21:BU:26:GLY:C	2.42	0.63
25:CA:179:C:C2'	25:CA:180:G:O5'	2.47	0.63
25:CA:271:G:C4'	25:CA:272:A:OP1	2.47	0.63
25:CA:947:A:O2'	25:CA:984:A:C2	2.51	0.63
25:CA:1669:A:OP2	60:CA:3731:HOH:O	2.15	0.63
27:CC:42:ARG:HA	27:CC:47:ARG:O	1.99	0.63
29:CE:176:ASP:C	29:CE:176:ASP:OD1	2.42	0.63
31:CG:95:ALA:HB2	31:CG:104:LEU:HD23	1.81	0.63
32:CH:27:ARG:O	32:CH:28:ASN:CB	2.46	0.63
25:DA:600:G:H2'	25:DA:601:C:C6	2.34	0.63
25:DA:1356:G:N3	25:DA:1357:C:C6	2.67	0.63
25:DA:2290:G:H4'	25:DA:2381:A:O2'	1.98	0.63
30:DF:30:VAL:HG22	30:DF:95:MET:SD	2.39	0.63
37:DM:31:PHE:CE2	37:DM:110:GLU:HG3	2.34	0.63
37:DM:36:VAL:HG23	37:DM:128:THR:CA	2.29	0.63
38:DN:86:ARG:CD	38:DN:117:ASP:OD2	2.47	0.63
44:DT:57:VAL:HG22	44:DT:58:VAL:H	1.64	0.63
1:AA:209:U:C4'	1:AA:210:C:OP2	2.47	0.62
1:AA:399:G:H2'	1:AA:400:C:C6	2.34	0.62
1:AA:595:A:C6	1:AA:641:U:C6	2.87	0.62
1:AA:842:U:O2	1:AA:842:U:H2'	1.99	0.62
1:AA:880:C:OP2	12:AL:2:THR:HG21	1.99	0.62
2:AB:49:PHE:C	2:AB:49:PHE:CD1	2.76	0.62
4:AD:117:VAL:HA	4:AD:122:ILE:CD1	2.28	0.62
5:AE:82:HIS:CD2	8:AH:95:MET:SD	2.92	0.62
8:AH:64:TYR:HD2	8:AH:69:ALA:HA	1.63	0.62
11:AK:124:LYS:C	21:AU:33:ARG:HH21	2.06	0.62
1:BA:384:G:O2'	1:BA:385:C:H5'	1.99	0.62
1:BA:872:A:C4	1:BA:874:G:N7	2.67	0.62
1:BA:986:U:H1'	19:BS:53:GLY:O	1.99	0.62
3:BC:5:HIS:HB3	14:BN:89:MET:SD	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:39:ARG:CZ	3:BC:54:ILE:HD11	2.29	0.62
6:BF:72:ASP:O	6:BF:76:THR:HG23	1.99	0.62
10:BJ:27:GLU:O	10:BJ:31:ARG:HB3	1.99	0.62
12:BL:24:GLU:HB2	12:BL:26:CYS:SG	2.39	0.62
13:BM:80:MET:O	13:BM:82:LEU:N	2.32	0.62
25:CA:246:C:C2'	25:CA:247:G:H5'	2.29	0.62
25:CA:535:G:C2'	25:CA:536:G:H5'	2.28	0.62
25:CA:846:U:O2	25:CA:846:U:H2'	1.98	0.62
25:CA:914:G:H5'	25:CA:915:C:OP2	1.99	0.62
26:CB:42:C:C5	26:CB:43:C:C5	2.87	0.62
29:CE:189:THR:CG2	29:CE:190:ALA:N	2.62	0.62
30:CF:120:SER:HB2	30:CF:127:TYR:CE1	2.34	0.62
33:CI:33:ASN:CB	33:CI:36:GLU:CG	2.76	0.62
25:DA:167:A:C2	25:DA:168:G:H1'	2.33	0.62
25:DA:172:A:H2'	25:DA:173:A:C8	2.33	0.62
25:DA:184:C:O2	25:DA:213:A:C2	2.52	0.62
25:DA:370:G:O2'	25:DA:423:A:H3'	1.99	0.62
25:DA:910:A:N3	25:DA:2264:C:O2'	2.31	0.62
25:DA:2201:G:C2	25:DA:2202:U:C2	2.87	0.62
25:DA:2328:A:H2'	25:DA:2329:U:C6	2.34	0.62
56:DB:54:G:N2	56:DB:55:U:H1'	2.14	0.62
56:DB:64:G:H2'	56:DB:65:U:C6	2.33	0.62
30:DF:170:ALA:C	30:DF:172:PHE:H	2.07	0.62
33:DI:9:LYS:HB3	33:DI:55:PRO:HB2	1.80	0.62
34:DJ:64:VAL:CG2	34:DJ:68:LYS:HB2	2.29	0.62
1:AA:407:U:C2	1:AA:408:A:C8	2.87	0.62
1:AA:501:C:OP1	12:AL:113:ARG:NH2	2.32	0.62
2:AB:14:HIS:HB2	2:AB:208:ALA:HB2	1.81	0.62
2:AB:48:MET:O	2:AB:52:ALA:HB2	1.98	0.62
5:AE:82:HIS:HD2	8:AH:95:MET:SD	2.23	0.62
6:AF:92:THR:O	6:AF:93:LYS:HG2	1.99	0.62
9:AI:5:TYR:HB3	9:AI:88:GLU:HG2	1.81	0.62
1:BA:978:A:P	1:BA:1362:A:H62	2.22	0.62
1:BA:1151:A:N3	1:BA:1152:A:C8	2.67	0.62
1:BA:1522:U:O2'	1:BA:1523:G:C5'	2.47	0.62
2:BB:89:PHE:CE1	2:BB:153:MET:HA	2.34	0.62
9:BI:79:ARG:NH2	9:BI:102:PHE:HA	2.14	0.62
19:BS:28:LYS:CB	19:BS:29:PRO:HD2	2.29	0.62
20:BT:35:TYR:CG	20:BT:36:ALA:N	2.62	0.62
25:CA:1179:G:C8	25:CA:1180:U:O4'	2.52	0.62
26:CB:48:U:O2'	26:CB:49:C:H5'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:268:ARG:HH11	27:CC:268:ARG:CG	2.11	0.62
32:CH:4:ILE:HG22	32:CH:5:LEU:N	2.13	0.62
33:CI:56:VAL:CG2	33:CI:70:THR:HA	2.29	0.62
33:CI:76:ALA:HA	33:CI:79:LEU:HD12	1.81	0.62
36:CL:19:LEU:HD22	36:CL:31:GLY:O	1.98	0.62
25:DA:22:C:H2'	25:DA:23:G:O5'	1.99	0.62
25:DA:142:A:H2'	25:DA:143:C:C6	2.34	0.62
25:DA:1588:G:C2	25:DA:1589:U:C4	2.87	0.62
25:DA:2098:U:N3	25:DA:2099:U:C6	2.66	0.62
25:DA:2579:C:H6	25:DA:2579:C:O5'	1.83	0.62
25:DA:2700:A:H2'	25:DA:2701:U:C6	2.34	0.62
25:DA:2758:A:C5	25:DA:2759:G:C8	2.87	0.62
30:DF:13:LYS:O	30:DF:16:MET:HB2	1.99	0.62
57:DW:47:VAL:HG21	57:DW:76:ILE:O	1.99	0.62
1:AA:100:G:N7	1:AA:101:A:N7	2.47	0.62
1:AA:224:U:H2'	1:AA:225:C:H6	1.65	0.62
1:AA:595:A:C6	1:AA:641:U:C5	2.87	0.62
1:AA:737:C:H2'	1:AA:738:C:H6	1.63	0.62
10:AJ:44:THR:CG2	10:AJ:70:HIS:HA	2.28	0.62
13:AM:76:ILE:CG2	13:AM:80:MET:CE	2.77	0.62
21:AU:36:PHE:HA	21:AU:39:LYS:HE2	1.80	0.62
1:BA:77:A:H2'	1:BA:78:A:O4'	1.99	0.62
1:BA:386:C:C2'	1:BA:387:U:H5'	2.28	0.62
1:BA:603:U:O2'	1:BA:604:G:H5'	1.99	0.62
1:BA:769:G:H4'	1:BA:1513:A:H4'	1.79	0.62
1:BA:1265:C:N3	1:BA:1271:A:C2	2.67	0.62
1:BA:1277:C:O2	1:BA:1277:C:H2'	1.98	0.62
2:BB:90:PHE:HD2	2:BB:149:GLY:HA3	1.63	0.62
3:BC:5:HIS:CE1	3:BC:183:TYR:CE2	2.87	0.62
7:BG:107:ALA:HB3	7:BG:115:MET:HE1	1.82	0.62
10:BJ:35:GLN:HB2	10:BJ:78:GLU:HB3	1.81	0.62
25:CA:460:A:OP1	53:C2:41:ARG:NH1	2.32	0.62
25:CA:471:A:H8	25:CA:471:A:O5'	1.83	0.62
25:CA:602:A:C2	25:CA:656:G:C6	2.87	0.62
25:CA:649:G:H2'	25:CA:650:C:C6	2.34	0.62
25:CA:1420:A:N1	25:CA:2211:A:C2	2.67	0.62
27:CC:251:THR:HG22	27:CC:252:LYS:H	1.65	0.62
28:CD:4:LEU:HD23	28:CD:101:PHE:CE1	2.34	0.62
36:CL:96:LYS:HE2	36:CL:103:ILE:O	1.99	0.62
39:CO:54:VAL:HG22	39:CO:54:VAL:O	1.98	0.62
40:CP:13:LYS:HE3	40:CP:75:THR:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:146:A:H2'	25:DA:147:C:C6	2.34	0.62
25:DA:347:A:C2	25:DA:348:A:C4	2.87	0.62
25:DA:2209:G:C6	25:DA:2210:U:C4	2.87	0.62
56:DB:35:C:C2'	56:DB:36:C:O5'	2.47	0.62
38:DN:58:ASP:O	38:DN:59:SER:HB3	1.99	0.62
1:AA:189:A:N7	1:AA:190:A:C6	2.67	0.62
1:AA:412:A:H1'	1:AA:413:G:H5"	1.82	0.62
1:AA:1041:G:H2'	1:AA:1042:A:C8	2.35	0.62
1:AA:1102:A:C2'	1:AA:1103:C:H5'	2.30	0.62
1:AA:1211:U:C2'	1:AA:1212:U:OP2	2.46	0.62
1:AA:1442:G:C2'	1:AA:1443:C:O5'	2.46	0.62
1:AA:1539:C:H5"	21:AU:17:ARG:CG	2.28	0.62
2:AB:53:LEU:N	2:AB:53:LEU:HD22	2.14	0.62
2:AB:118:THR:O	2:AB:119:GLN:CB	2.47	0.62
2:AB:133:ALA:O	2:AB:137:THR:HG23	1.99	0.62
4:AD:49:ASP:O	4:AD:53:GLN:HB2	1.98	0.62
7:AG:24:LYS:C	7:AG:100:MET:HE1	2.25	0.62
11:AK:126:ARG:N	21:AU:33:ARG:CZ	2.62	0.62
20:AT:4:LYS:O	20:AT:6:ALA:N	2.32	0.62
1:BA:209:U:OP2	1:BA:210:C:C4	2.53	0.62
1:BA:721:G:H4'	1:BA:722:G:O4'	1.99	0.62
1:BA:840:C:C2	1:BA:842:U:H4'	2.34	0.62
1:BA:920:U:O4'	1:BA:1080:A:C2	2.53	0.62
1:BA:977:A:H2'	1:BA:977:A:N3	2.12	0.62
1:BA:1227:A:OP2	13:BM:109:LYS:HE3	2.00	0.62
1:BA:1313:U:P	19:BS:5:LYS:HB3	2.39	0.62
2:BB:212:TYR:O	2:BB:216:VAL:HG23	1.99	0.62
7:BG:144:ALA:O	7:BG:145:GLU:CB	2.47	0.62
17:BQ:14:ASP:N	17:BQ:16:MET:HE1	2.14	0.62
17:BQ:49:ASN:O	17:BQ:51:GLU:N	2.33	0.62
25:CA:819:A:OP2	25:CA:1187:G:N2	2.32	0.62
25:CA:1085:A:H2'	25:CA:1086:A:N3	2.13	0.62
25:CA:1142:A:N3	25:CA:1144:A:C8	2.67	0.62
25:CA:1435:G:O2'	25:CA:1436:G:H5'	1.99	0.62
25:CA:1482:G:N2	25:CA:1483:G:C4	2.67	0.62
25:CA:2110:G:O2'	25:CA:2120:G:H5'	1.99	0.62
27:CC:170:TYR:CE2	27:CC:184:GLU:HB3	2.34	0.62
32:CH:6:LEU:HD13	32:CH:37:VAL:HG12	1.81	0.62
33:CI:19:PRO:O	33:CI:23:VAL:HG23	1.99	0.62
50:CZ:2:LYS:CD	50:CZ:2:LYS:H	2.11	0.62
25:DA:56:A:H2'	25:DA:57:C:O5'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:140:C:H4'	25:DA:141:G:N2	2.14	0.62
25:DA:541:A:H2'	25:DA:542:C:O4'	1.99	0.62
25:DA:1152:C:H3'	60:DA:3363:HOH:O	1.99	0.62
25:DA:1456:G:C5	25:DA:1457:U:C5	2.87	0.62
25:DA:1871:A:O2'	25:DA:1872:A:C8	2.53	0.62
25:DA:2166:U:C5	25:DA:2167:U:C5	2.86	0.62
25:DA:2213:U:H4'	25:DA:2214:C:OP2	1.98	0.62
25:DA:2377:A:C2'	25:DA:2378:A:H5'	2.28	0.62
25:DA:2782:G:N2	25:DA:2783:U:C2	2.68	0.62
28:DD:85:ALA:O	28:DD:86:GLU:HB3	2.00	0.62
30:DF:37:MET:HE2	30:DF:150:GLY:O	2.00	0.62
36:DL:106:GLU:C	36:DL:107:PHE:HD2	2.06	0.62
37:DM:70:ASP:OD1	37:DM:70:ASP:C	2.42	0.62
1:AA:25:C:C5	1:AA:558:G:N2	2.68	0.62
1:AA:214:C:O2'	1:AA:215:C:H5'	1.99	0.62
2:AB:63:LYS:HD3	2:AB:64:GLY:N	2.14	0.62
5:AE:132:PRO:O	5:AE:134:ASN:N	2.33	0.62
13:AM:9:PRO:O	13:AM:10:ASP:CB	2.48	0.62
13:AM:16:ILE:O	13:AM:17:ALA:C	2.42	0.62
22:AV:17:C:C6	22:AV:17:C:H3'	2.35	0.62
1:BA:214:C:H2'	1:BA:215:C:C6	2.34	0.62
1:BA:572:A:H5'	1:BA:573:A:P	2.39	0.62
1:BA:977:A:C2	1:BA:1224:U:C4	2.87	0.62
2:BB:17:HIS:CD2	2:BB:202:ASN:ND2	2.68	0.62
2:BB:205:ALA:C	2:BB:207:ARG:N	2.55	0.62
3:BC:35:ASP:O	3:BC:38:VAL:HG22	1.98	0.62
25:CA:574:A:H4'	25:CA:575:A:O5'	1.99	0.62
25:CA:1061:U:C2	33:CI:9:LYS:HB2	2.34	0.62
25:CA:1501:G:O2'	25:CA:1502:A:H5'	1.98	0.62
25:CA:1536:C:H4'	25:CA:1537:G:H5"	1.80	0.62
27:CC:259:ASN:CG	27:CC:262:THR:HG23	2.24	0.62
30:CF:113:PHE:CZ	30:CF:115:GLY:HA2	2.33	0.62
32:CH:37:VAL:HG23	32:CH:38:PRO:HD2	1.80	0.62
42:CR:39:LEU:C	42:CR:49:ILE:HG23	2.25	0.62
44:CT:2:ILE:CA	44:CT:3:ARG:HB2	2.30	0.62
25:DA:160:A:C8	25:DA:167:A:C6	2.87	0.62
25:DA:223:A:C4	25:DA:422:A:C8	2.87	0.62
25:DA:1746:A:C4	25:DA:1747:U:C5	2.88	0.62
25:DA:2109:U:H5"	25:DA:2110:G:OP2	1.99	0.62
25:DA:2403:C:H2'	25:DA:2404:U:H6	1.64	0.62
27:DC:16:VAL:N	27:DC:203:VAL:CG2	2.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:28:GLY:HA2	33:DI:32:VAL:HB	1.81	0.62
44:DT:89:GLU:O	44:DT:91:GLN:NE2	2.32	0.62
1:AA:973:G:H1'	10:AJ:56:HIS:HD2	1.64	0.62
1:AA:1210:C:O4'	1:AA:1214:C:C5	2.53	0.62
8:AH:6:ILE:O	8:AH:10:LEU:HD23	1.99	0.62
10:AJ:57:VAL:HG22	10:AJ:58:ASN:H	1.65	0.62
21:AU:24:LYS:CD	21:AU:25:ALA:N	2.63	0.62
1:BA:4:U:H4'	1:BA:5:U:OP1	2.00	0.62
1:BA:525:C:C2'	1:BA:526:C:H5'	2.30	0.62
1:BA:1165:U:H2'	1:BA:1166:G:O4'	1.98	0.62
1:BA:1347:G:H8	9:BI:108:ARG:HB3	1.64	0.62
1:BA:1476:A:H2'	1:BA:1477:U:H6	1.65	0.62
2:BB:141:GLU:HA	2:BB:144:GLU:HB2	1.80	0.62
3:BC:41:TYR:CZ	3:BC:45:GLU:CG	2.83	0.62
16:BP:38:PHE:CZ	16:BP:51:ARG:HB2	2.35	0.62
17:BQ:44:HIS:CG	17:BQ:69:THR:HG21	2.35	0.62
25:CA:1059:G:H5"	25:CA:1060:U:H3'	1.81	0.62
25:CA:1997:C:OP2	28:CD:129:THR:HB	2.00	0.62
30:CF:4:HIS:O	30:CF:7:TYR:HB3	1.99	0.62
30:CF:73:VAL:HG22	30:CF:78:ILE:HD11	1.81	0.62
31:CG:158:GLY:O	31:CG:159:LYS:C	2.43	0.62
33:CI:46:ASP:HA	33:CI:50:LYS:HD2	1.80	0.62
34:CJ:77:HIS:CD2	34:CJ:79:GLY:H	2.16	0.62
36:CL:87:GLY:O	36:CL:89:VAL:HG12	2.00	0.62
42:CR:39:LEU:HA	42:CR:49:ILE:HG23	1.81	0.62
48:CX:10:ARG:HB2	48:CX:11:PRO:CD	2.29	0.62
25:DA:1417:C:N3	25:DA:1581:G:O6	2.33	0.62
25:DA:1712:U:C4	25:DA:1713:A:C5	2.87	0.62
25:DA:2768:U:C2'	25:DA:2769:U:O5'	2.47	0.62
27:DC:73:ILE:O	27:DC:116:GLN:HG3	2.00	0.62
28:DD:25:THR:HG21	28:DD:193:VAL:HG22	1.82	0.62
31:DG:173:ALA:O	31:DG:174:LYS:O	2.16	0.62
32:DH:116:ARG:HD2	32:DH:133:GLN:HG2	1.79	0.62
33:DI:56:VAL:HG22	33:DI:57:VAL:N	2.15	0.62
39:DO:49:VAL:HG21	39:DO:82:ALA:HA	1.82	0.62
44:DT:69:ARG:HB3	44:DT:69:ARG:NH1	2.14	0.62
45:DU:94:PHE:HA	45:DU:102:ILE:HD12	1.81	0.62
1:AA:997:U:C2'	1:AA:998:C:H5'	2.29	0.62
1:AA:1034:G:H2'	1:AA:1035:A:O4'	2.00	0.62
1:AA:1125:U:C5	1:AA:1127:G:C6	2.88	0.62
3:AC:120:THR:HG22	3:AC:121:SER:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:62:ARG:HE	4:AD:62:ARG:HA	1.65	0.62
5:AE:80:LEU:HA	5:AE:146:MET:HE1	1.82	0.62
14:AN:29:ILE:O	14:AN:30:ILE:C	2.41	0.62
21:AU:28:LEU:CD2	21:AU:28:LEU:C	2.73	0.62
24:AY:7:ARG:HD3	24:AY:160:ASP:OD2	2.00	0.62
1:BA:70:U:C2	1:BA:94:G:N7	2.68	0.62
1:BA:940:C:H2'	1:BA:941:G:H8	1.64	0.62
3:BC:54:ILE:CD1	3:BC:56:ILE:CD1	2.78	0.62
17:BQ:11:VAL:HG12	17:BQ:12:VAL:N	2.14	0.62
25:CA:1482:G:C2	25:CA:1483:G:C8	2.87	0.62
25:CA:2681:C:OP2	28:CD:114:LYS:CE	2.47	0.62
30:CF:142:TYR:C	30:CF:145:VAL:HG22	2.24	0.62
33:CI:17:ALA:O	33:CI:18:ASN:HB2	1.98	0.62
34:CJ:81:ILE:HG12	34:CJ:82:GLY:CA	2.29	0.62
36:CL:2:ARG:HA	36:CL:5:THR:HG21	1.82	0.62
37:CM:135:VAL:O	37:CM:136:MET:O	2.17	0.62
25:DA:215:G:H4'	25:DA:216:A:H4'	1.82	0.62
25:DA:2294:G:N2	25:DA:2295:C:H1'	2.15	0.62
25:DA:2517:C:C6	25:DA:2542:A:N7	2.67	0.62
25:DA:2849:U:H4'	25:DA:2868:A:C2	2.34	0.62
56:DB:60:C:C2'	56:DB:61:G:H5'	2.30	0.62
56:DB:77:U:H2'	56:DB:78:A:C5'	2.29	0.62
27:DC:16:VAL:HB	27:DC:203:VAL:HG22	1.81	0.62
35:DK:35:VAL:HG22	35:DK:69:VAL:HG12	1.82	0.62
44:DT:7:LEU:CD2	44:DT:46:ALA:HB2	2.29	0.62
44:DT:32:LEU:O	44:DT:34:VAL:HG13	1.99	0.62
48:DX:53:LYS:HG2	48:DX:54:GLY:N	2.14	0.62
1:AA:1057:G:C2'	1:AA:1058:G:O5'	2.48	0.62
1:AA:1060:U:H5"	10:AJ:53:ILE:CG2	2.30	0.62
4:AD:54:LEU:HD23	4:AD:55:ARG:N	2.15	0.62
9:AI:14:SER:HA	9:AI:68:GLY:O	1.99	0.62
16:AP:51:ARG:HH11	16:AP:51:ARG:CG	2.13	0.62
20:AT:70:LYS:HG3	20:AT:74:HIS:CD2	2.35	0.62
1:BA:105:G:H2'	1:BA:106:C:C6	2.35	0.62
1:BA:211:G:H21	1:BA:212:G:H1'	1.63	0.62
1:BA:612:C:H2'	1:BA:613:C:H6	1.64	0.62
1:BA:1234:C:H2'	1:BA:1235:U:H5'	1.82	0.62
1:BA:1469:C:H2'	1:BA:1470:U:O4'	2.00	0.62
1:BA:1522:U:C2'	1:BA:1523:G:O5'	2.47	0.62
2:BB:99:MET:HA	2:BB:106:VAL:HG21	1.82	0.62
11:BK:22:ILE:O	11:BK:22:ILE:HG13	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:35:ALA:CB	14:BN:41:ARG:HG3	2.30	0.62
25:CA:880:G:C6	25:CA:881:G:N7	2.67	0.62
27:CC:42:ARG:HH11	27:CC:42:ARG:HG3	1.63	0.62
31:CG:37:ASN:O	31:CG:38:ASP:HB2	1.99	0.62
33:CI:5:GLN:O	33:CI:6:ALA:HB3	2.00	0.62
33:CI:33:ASN:HB3	33:CI:36:GLU:H	1.63	0.62
41:CQ:20:ALA:HB2	41:CQ:38:VAL:CG2	2.29	0.62
41:CQ:57:ARG:HA	41:CQ:60:TRP:CE3	2.34	0.62
25:DA:260:G:C5	25:DA:261:G:C8	2.88	0.62
25:DA:693:A:H2'	25:DA:694:U:O5'	1.99	0.62
25:DA:1018:U:N3	25:DA:1019:U:C5	2.67	0.62
25:DA:1023:U:H2'	25:DA:1024:G:H5'	1.80	0.62
25:DA:1085:A:C5	25:DA:1086:A:N6	2.68	0.62
25:DA:1435:G:H2'	25:DA:1436:G:H5'	1.81	0.62
25:DA:1883:U:C2'	25:DA:1884:G:O5'	2.48	0.62
25:DA:2063:C:O2	25:DA:2450:A:N1	2.32	0.62
25:DA:2305:U:C4	30:DF:151:LEU:HA	2.35	0.62
32:DH:50:ARG:HA	32:DH:50:ARG:NH1	2.15	0.62
44:DT:49:LYS:HB2	44:DT:50:LEU:CD1	2.29	0.62
50:DZ:3:THR:HG21	50:DZ:36:GLU:OE1	2.00	0.62
55:D4:7:VAL:C	55:D4:8:LYS:HG3	2.24	0.62
1:AA:274:A:H5'	17:AQ:15:LYS:CE	2.30	0.62
1:AA:451:A:O4'	1:AA:452:A:C2	2.53	0.62
1:AA:841:C:H5'	1:AA:843:U:OP2	1.99	0.62
1:AA:999:C:H2'	1:AA:1000:A:C8	2.35	0.62
1:AA:1305:G:O2'	1:AA:1306:A:C8	2.53	0.62
5:AE:89:THR:HG22	5:AE:90:GLY:H	1.65	0.62
6:AF:8:PHE:CE1	6:AF:60:VAL:HB	2.35	0.62
6:AF:88:MET:HE3	18:AR:63:TYR:CD2	2.34	0.62
8:AH:31:LEU:CD1	8:AH:31:LEU:C	2.72	0.62
8:AH:53:ASP:CG	8:AH:54:THR:N	2.58	0.62
8:AH:58:LEU:HD13	8:AH:58:LEU:C	2.24	0.62
8:AH:82:LEU:HD13	8:AH:84:ILE:HD11	1.82	0.62
9:AI:105:ARG:NH1	9:AI:107:ALA:HA	2.15	0.62
11:AK:34:THR:HA	11:AK:40:ALA:HA	1.81	0.62
11:AK:85:VAL:HG12	11:AK:92:ARG:NH1	2.15	0.62
14:AN:41:ARG:HG3	14:AN:42:TRP:CD2	2.34	0.62
20:AT:54:GLN:HB3	20:AT:55:PRO:CD	2.29	0.62
22:AV:62:C:C2	22:AV:63:G:C8	2.88	0.62
24:AY:146:ASP:O	24:AY:148:GLU:N	2.32	0.62
1:BA:102:G:H2'	1:BA:103:U:H6	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:488:C:H2'	1:BA:489:C:H6	1.65	0.62
1:BA:501:C:H2'	1:BA:502:A:H8	1.65	0.62
1:BA:1053:G:H4'	1:BA:1054:C:C5'	2.17	0.62
1:BA:1182:G:H4'	1:BA:1183:U:H5"	1.82	0.62
1:BA:1263:C:H2'	1:BA:1264:U:C6	2.35	0.62
1:BA:1342:C:H2'	1:BA:1343:G:C8	2.34	0.62
1:BA:1534:A:H4'	1:BA:1535:C:H2'	1.82	0.62
4:BD:72:ARG:HD3	4:BD:203:TYR:CE2	2.35	0.62
7:BG:8:GLN:O	7:BG:8:GLN:HG3	1.98	0.62
8:BH:1:SER:HB2	8:BH:3:GLN:HE21	1.64	0.62
9:BI:18:VAL:HG12	9:BI:85:ALA:HB2	1.82	0.62
11:BK:100:ASN:OD1	11:BK:100:ASN:C	2.41	0.62
13:BM:18:LEU:HG	13:BM:33:LEU:HD21	1.80	0.62
25:CA:274:C:H2'	25:CA:275:C:O4'	2.00	0.62
25:CA:362:A:H2'	25:CA:362:A:N3	2.15	0.62
25:CA:878:A:H5'	25:CA:879:G:OP2	2.00	0.62
31:CG:114:HIS:CD2	31:CG:147:LEU:HD21	2.35	0.62
31:CG:173:ALA:O	31:CG:174:LYS:HB3	1.99	0.62
49:CY:56:LEU:O	49:CY:57:LEU:HB3	2.00	0.62
53:C2:12:ARG:HD2	53:C2:44:VAL:HG11	1.80	0.62
25:DA:528:A:C8	25:DA:528:A:C3'	2.82	0.62
25:DA:1018:U:O2'	25:DA:1019:U:H5'	2.00	0.62
25:DA:1824:G:C2'	25:DA:1825:U:H5'	2.30	0.62
27:DC:124:LYS:HB2	27:DC:125:PRO:HD2	1.82	0.62
31:DG:5:LYS:O	31:DG:6:ALA:HB2	1.99	0.62
32:DH:2:GLN:HB2	32:DH:39:ALA:HB3	1.81	0.62
42:DR:27:ILE:HG21	42:DR:33:VAL:CG1	2.29	0.62
52:D1:8:ILE:HD12	52:D1:10:LEU:HD21	1.81	0.62
1:AA:40:C:H2'	1:AA:41:G:O4'	2.00	0.62
1:AA:459:A:C2'	1:AA:460:A:O4'	2.46	0.62
1:AA:943:U:H2'	1:AA:944:G:H5'	1.81	0.62
2:AB:60:ALA:HA	2:AB:64:GLY:N	2.14	0.62
2:AB:215:ALA:O	2:AB:219:THR:CG2	2.47	0.62
5:AE:155:LYS:HA	8:AH:65:PHE:CD2	2.35	0.62
7:AG:39:GLU:HA	7:AG:42:VAL:HG22	1.82	0.62
9:AI:89:TYR:O	9:AI:90:ASP:CG	2.43	0.62
12:AL:49:ARG:CB	12:AL:89:LEU:HD21	2.29	0.62
19:AS:50:VAL:HG12	19:AS:51:HIS:O	2.00	0.62
1:BA:237:G:OP1	17:BQ:41:THR:HG23	2.00	0.62
1:BA:785:G:H2'	1:BA:786:G:H5'	1.81	0.62
1:BA:1028:C:H2'	1:BA:1028:C:O2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1034:G:H2'	1:BA:1035:A:C8	2.35	0.62
1:BA:1298:U:H4'	1:BA:1299:A:C4	2.34	0.62
1:BA:1505:G:H4'	1:BA:1506:U:H5"	1.82	0.62
2:BB:101:THR:HA	2:BB:178:LEU:HD21	1.82	0.62
5:BE:93:VAL:HG13	5:BE:110:MET:HE1	1.81	0.62
6:BF:7:VAL:HA	6:BF:60:VAL:O	2.00	0.62
7:BG:44:SER:O	7:BG:48:THR:HG23	2.00	0.62
21:BU:10:PRO:O	21:BU:11:PHE:CD2	2.53	0.62
25:CA:108:G:C2'	25:CA:109:C:H5'	2.30	0.62
25:CA:947:A:O2'	25:CA:984:A:H2	1.82	0.62
28:CD:26:VAL:HG12	28:CD:186:LEU:HD13	1.82	0.62
32:CH:34:GLY:O	32:CH:35:LYS:HG3	2.00	0.62
36:CL:90:VAL:HG23	36:CL:120:VAL:CG2	2.30	0.62
40:CP:102:ARG:HH11	40:CP:102:ARG:HG2	1.64	0.62
42:CR:28:ALA:HB3	42:CR:31:GLU:HG3	1.80	0.62
45:CU:98:ASN:O	45:CU:100:GLU:N	2.32	0.62
25:DA:729:G:H4'	25:DA:763:G:C5'	2.30	0.62
25:DA:1060:U:O4'	25:DA:1062:G:H5'	1.99	0.62
25:DA:1433:A:H5"	25:DA:1434:A:OP2	1.99	0.62
25:DA:2235:G:H2'	25:DA:2236:U:O4'	1.99	0.62
30:DF:96:TRP:O	30:DF:97:GLU:C	2.42	0.62
32:DH:145:ASN:OD1	32:DH:145:ASN:N	2.31	0.62
34:DJ:17:VAL:HG23	34:DJ:137:PRO:HB2	1.80	0.62
1:AA:164:G:H2'	1:AA:165:G:H5'	1.81	0.61
1:AA:868:C:C2'	1:AA:869:G:H5'	2.30	0.61
1:AA:1023:U:H2'	1:AA:1024:G:O4'	2.00	0.61
4:AD:2:ARG:CZ	4:AD:114:ARG:HD3	2.30	0.61
4:AD:156:ALA:O	4:AD:159:GLU:HB3	2.00	0.61
10:AJ:80:THR:O	10:AJ:83:THR:HG22	2.00	0.61
19:AS:12:LEU:O	19:AS:14:LEU:N	2.32	0.61
1:BA:100:G:C8	1:BA:101:A:N7	2.68	0.61
1:BA:471:U:O2'	1:BA:472:U:H5'	2.00	0.61
1:BA:934:C:C6	1:BA:1344:C:C5	2.88	0.61
2:BB:58:LYS:HA	2:BB:61:SER:HB2	1.82	0.61
4:BD:77:GLU:OE1	4:BD:77:GLU:HA	1.99	0.61
4:BD:83:GLY:O	4:BD:84:ASN:C	2.42	0.61
8:BH:82:LEU:HD13	8:BH:82:LEU:C	2.25	0.61
9:BI:5:TYR:HB2	9:BI:20:ILE:HB	1.81	0.61
9:BI:49:GLN:N	9:BI:50:PRO:HD2	2.15	0.61
9:BI:56:MET:SD	9:BI:56:MET:N	2.73	0.61
14:BN:24:ALA:O	14:BN:27:LYS:CG	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BP:41:PRO:O	16:BP:42:ILE:HD13	2.00	0.61
25:CA:798:G:O6	60:CA:3322:HOH:O	2.14	0.61
25:CA:978:G:H2'	25:CA:979:A:H5'	1.80	0.61
25:CA:1410:G:H2'	25:CA:1411:U:C6	2.35	0.61
25:CA:2173:A:H2'	25:CA:2174:C:C6	2.35	0.61
28:CD:40:LEU:O	28:CD:41:ALA:C	2.43	0.61
32:CH:72:ILE:HG21	32:CH:140:ALA:HB1	1.82	0.61
33:CI:66:PHE:N	33:CI:66:PHE:CD2	2.68	0.61
36:CL:75:ALA:HB2	36:CL:105:ILE:HD12	1.82	0.61
37:CM:31:PHE:CZ	37:CM:110:GLU:HB2	2.35	0.61
46:CV:23:ALA:O	46:CV:24:ASN:C	2.39	0.61
48:CX:17:ARG:CZ	48:CX:23:ALA:HB2	2.30	0.61
25:DA:627:A:C6	25:DA:637:A:C8	2.88	0.61
25:DA:1095:A:N1	33:DI:29:GLN:HG2	2.15	0.61
25:DA:1301:A:H2'	25:DA:1301:A:N3	2.15	0.61
25:DA:1356:G:C2	25:DA:1357:C:N1	2.68	0.61
25:DA:2897:U:H2'	25:DA:2898:U:C6	2.35	0.61
30:DF:21:TYR:CD1	30:DF:26:GLN:HG2	2.35	0.61
30:DF:116:LEU:HD23	30:DF:175:PRO:HB2	1.81	0.61
45:DU:98:ASN:O	45:DU:98:ASN:OD1	2.17	0.61
1:AA:258:G:N2	1:AA:259:G:H1'	2.14	0.61
1:AA:511:C:H1'	1:AA:512:U:H6	1.65	0.61
1:AA:595:A:C5	1:AA:641:U:C5	2.88	0.61
1:AA:1233:G:C6	1:AA:1234:C:C4	2.88	0.61
4:AD:115:GLN:NE2	4:AD:119:HIS:CE1	2.68	0.61
6:AF:46:GLN:HB2	6:AF:56:LYS:HE3	1.82	0.61
6:AF:86:ARG:CG	6:AF:86:ARG:HH11	2.13	0.61
9:AI:29:ILE:HD11	9:AI:37:TYR:CD2	2.35	0.61
11:AK:52:ARG:NH2	11:AK:56:LYS:HE2	2.14	0.61
19:AS:8:PRO:HB2	19:AS:40:PHE:HZ	1.65	0.61
24:AY:133:ARG:NH2	25:CA:1942:C:O4'	2.33	0.61
1:BA:78:A:C6	1:BA:79:G:C6	2.87	0.61
1:BA:436:C:C2	1:BA:437:U:C5	2.88	0.61
2:BB:67:LEU:HB3	2:BB:160:LEU:HD12	1.82	0.61
4:BD:55:ARG:NH1	4:BD:55:ARG:HA	2.14	0.61
12:BL:86:VAL:HG11	12:BL:89:LEU:HD22	1.82	0.61
13:BM:9:PRO:O	13:BM:10:ASP:CB	2.48	0.61
21:BU:9:GLU:HG2	21:BU:10:PRO:HD3	1.82	0.61
25:CA:1061:U:O2'	25:CA:1062:G:O5'	2.18	0.61
25:CA:1731:G:C6	25:CA:1733:G:C5	2.88	0.61
25:CA:1784:A:H4'	25:CA:1785:A:O5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2056:G:N3	25:CA:2056:G:H2'	2.14	0.61
25:CA:2902:C:C4	25:CA:2903:U:O4	2.53	0.61
27:CC:229:HIS:CD2	27:CC:246:PRO:HB3	2.35	0.61
34:CJ:69:ARG:O	34:CJ:90:GLU:HB3	1.99	0.61
25:DA:833:A:OP1	36:DL:39:LYS:HE2	2.01	0.61
25:DA:1277:G:H4'	38:DN:20:MET:HE2	1.81	0.61
25:DA:2195:U:H2'	25:DA:2196:C:H6	1.64	0.61
27:DC:93:VAL:HG11	27:DC:103:ILE:HD11	1.81	0.61
30:DF:7:TYR:HA	30:DF:11:VAL:CG2	2.30	0.61
32:DH:62:LEU:HD23	32:DH:135:HIS:CE1	2.36	0.61
33:DI:72:THR:HB	33:DI:73:PRO:HD2	1.81	0.61
33:DI:121:ILE:HA	33:DI:124:MET:SD	2.40	0.61
38:DN:24:MET:HB3	38:DN:44:LEU:HD13	1.81	0.61
39:DO:56:LYS:CG	39:DO:57:ALA:N	2.63	0.61
40:DP:38:ARG:CG	40:DP:39:LEU:H	2.13	0.61
44:DT:1:MET:O	44:DT:2:ILE:HG13	2.00	0.61
44:DT:44:LYS:HG3	44:DT:55:VAL:HG11	1.81	0.61
45:DU:40:LEU:CD2	45:DU:61:GLU:HG3	2.30	0.61
46:DV:9:ARG:HG2	46:DV:41:GLU:HB3	1.82	0.61
51:D0:52:LYS:CE	51:D0:55:ALA:HA	2.31	0.61
51:D0:52:LYS:HE3	51:D0:55:ALA:HA	1.81	0.61
51:D0:52:LYS:NZ	51:D0:55:ALA:HA	2.15	0.61
1:AA:1527:U:H2'	1:AA:1528:U:C6	2.35	0.61
3:AC:155:ARG:H	3:AC:162:ALA:HA	1.65	0.61
7:AG:21:LEU:HD11	7:AG:61:PHE:CZ	2.36	0.61
11:AK:87:GLY:H	11:AK:113:THR:HG22	1.66	0.61
13:AM:74:MET:SD	30:CF:111:ARG:HB3	2.40	0.61
17:AQ:57:VAL:C	17:AQ:58:VAL:HG12	2.25	0.61
1:BA:412:A:C2	1:BA:414:A:H1'	2.34	0.61
1:BA:644:U:H5'	8:BH:83:ARG:HH12	1.64	0.61
1:BA:1067:A:H4'	1:BA:1068:G:O5'	1.99	0.61
4:BD:160:LEU:HD22	4:BD:161:ALA:H	1.63	0.61
6:BF:3:HIS:H	6:BF:92:THR:HG23	1.64	0.61
6:BF:24:ARG:O	6:BF:27:ALA:HB3	2.00	0.61
11:BK:21:HIS:CE1	11:BK:34:THR:HG21	2.34	0.61
12:BL:89:LEU:HB2	12:BL:92:VAL:CG2	2.29	0.61
25:CA:1547:C:C5'	25:CA:1547:C:H6	2.12	0.61
25:CA:1658:C:P	60:CA:3660:HOH:O	2.56	0.61
28:CD:33:ARG:NH2	28:CD:74:GLU:O	2.33	0.61
29:CE:149:ILE:HD12	29:CE:149:ILE:C	2.25	0.61
33:CI:38:CYS:HB3	33:CI:42:ASN:HD22	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CK:13:ASN:HD22	35:CK:98:ARG:HB2	1.65	0.61
38:CN:78:LYS:C	38:CN:79:LEU:O	2.40	0.61
45:CU:39:ASN:HB3	45:CU:62:ALA:HB3	1.81	0.61
51:C0:22:THR:O	51:C0:22:THR:HG23	2.01	0.61
25:DA:335:C:H5"	45:DU:81:ARG:HD3	1.82	0.61
25:DA:1412:U:H2'	25:DA:1413:A:H8	1.63	0.61
25:DA:1651:G:H5'	38:DN:39:PRO:HG2	1.81	0.61
25:DA:2790:U:H4'	25:DA:2791:G:OP1	1.99	0.61
28:DD:140:HIS:NE2	60:DD:303:HOH:O	2.30	0.61
30:DF:33:ILE:O	30:DF:90:LEU:HB2	2.00	0.61
30:DF:33:ILE:HD11	30:DF:155:ILE:HG23	1.83	0.61
32:DH:4:ILE:HG23	32:DH:17:ASP:N	2.16	0.61
57:DW:10:ARG:O	57:DW:11:ASP:HB2	1.98	0.61
1:AA:8:A:C6	4:AD:205:LYS:HB3	2.35	0.61
1:AA:429:U:H3'	4:AD:8:LEU:HD23	1.82	0.61
1:AA:1213:A:C5	1:AA:1215:G:C4	2.87	0.61
4:AD:190:LEU:O	4:AD:190:LEU:HD12	2.00	0.61
6:AF:5:GLU:HB3	6:AF:90:MET:HB2	1.83	0.61
15:AO:41:HIS:CD2	15:AO:42:PHE:CE2	2.88	0.61
17:AQ:13:SER:CB	17:AQ:21:VAL:CG1	2.79	0.61
17:AQ:45:VAL:HG11	17:AQ:60:ILE:HG13	1.83	0.61
17:AQ:71:SER:C	17:AQ:72:TRP:CD1	2.78	0.61
1:BA:861:G:C5	1:BA:862:C:C5	2.87	0.61
1:BA:1298:U:H4'	1:BA:1299:A:N9	2.16	0.61
1:BA:1410:A:C2	1:BA:1491:G:C2	2.88	0.61
1:BA:1486:G:H2'	1:BA:1487:G:O4'	1.99	0.61
1:BA:1493:A:H8	1:BA:1493:A:OP2	1.84	0.61
1:BA:1534:A:C4'	1:BA:1535:C:OP1	2.47	0.61
6:BF:14:GLN:C	6:BF:16:GLU:H	2.06	0.61
7:BG:39:GLU:HB2	7:BG:43:TYR:HE2	1.64	0.61
7:BG:135:LYS:O	7:BG:136:LYS:C	2.43	0.61
8:BH:64:TYR:N	8:BH:64:TYR:CD1	2.69	0.61
8:BH:65:PHE:O	8:BH:66:GLN:O	2.19	0.61
20:BT:63:LYS:HA	20:BT:63:LYS:HE3	1.82	0.61
25:CA:280:U:H2'	25:CA:281:C:O4'	2.01	0.61
25:CA:404:A:C1'	25:CA:405:U:OP2	2.47	0.61
25:CA:417:C:H2'	25:CA:418:C:O5'	2.00	0.61
25:CA:1372:U:C2'	25:CA:1373:A:O5'	2.48	0.61
25:CA:1494:A:N1	25:CA:1495:A:C2	2.68	0.61
25:CA:2492:U:C2'	25:CA:2493:U:H5'	2.30	0.61
27:CC:159:THR:H	27:CC:194:VAL:CG1	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CK:91:SER:O	35:CK:93:GLN:HG2	2.00	0.61
40:CP:62:LYS:HE3	40:CP:64:SER:HB2	1.82	0.61
25:DA:277:G:N3	25:DA:277:G:H3'	2.16	0.61
25:DA:301:G:H5'	25:DA:317:G:N2	2.15	0.61
25:DA:1056:G:H4'	25:DA:1086:A:C8	2.35	0.61
25:DA:1059:G:N1	25:DA:1080:A:C2	2.68	0.61
25:DA:1094:U:H2'	25:DA:1096:A:OP2	2.01	0.61
25:DA:2207:C:C2	25:DA:2218:G:C2	2.88	0.61
25:DA:2209:G:N2	25:DA:2216:G:N3	2.48	0.61
25:DA:2690:U:C5	25:DA:2873:A:N1	2.68	0.61
25:DA:2862:G:H2'	25:DA:2863:C:H6	1.66	0.61
27:DC:60:ALA:O	27:DC:62:ARG:NH2	2.33	0.61
27:DC:265:PHE:CD1	27:DC:265:PHE:N	2.68	0.61
30:DF:34:THR:HA	30:DF:88:VAL:O	2.00	0.61
30:DF:39:VAL:CG1	30:DF:42:ALA:HB2	2.29	0.61
31:DG:86:LEU:HD11	31:DG:163:TYR:CD1	2.36	0.61
38:DN:51:LEU:N	38:DN:51:LEU:HD23	2.15	0.61
45:DU:52:ASN:C	45:DU:54:PRO:HD3	2.25	0.61
49:DY:21:LEU:O	49:DY:23:ARG:O	2.19	0.61
54:D3:15:LYS:HE2	54:D3:19:GLY:HA2	1.80	0.61
1:AA:64:G:C8	1:AA:99:C:N4	2.68	0.61
1:AA:91:U:C2	1:AA:92:U:H1'	2.35	0.61
1:AA:121:U:OP2	1:AA:121:U:H4'	2.00	0.61
1:AA:757:U:O2'	1:AA:879:C:H1'	2.00	0.61
1:AA:853:C:H2'	1:AA:854:U:H6	1.66	0.61
1:AA:1313:U:P	19:AS:5:LYS:HB3	2.41	0.61
2:AB:118:THR:O	2:AB:119:GLN:HB2	2.01	0.61
4:AD:131:ILE:HD12	4:AD:134:TYR:H	1.64	0.61
5:AE:59:ILE:O	5:AE:62:ALA:HB3	2.01	0.61
5:AE:72:ASN:HD22	5:AE:72:ASN:H	1.48	0.61
11:AK:124:LYS:HG2	11:AK:125:LYS:H	1.64	0.61
1:BA:600:A:C4	1:BA:639:G:N2	2.68	0.61
1:BA:1122:U:C2	1:BA:1123:U:C6	2.88	0.61
1:BA:1126:U:N1	1:BA:1281:C:C5	2.69	0.61
1:BA:1471:U:O2'	1:BA:1472:U:H5'	2.01	0.61
4:BD:35:GLN:O	4:BD:36:ALA:HB2	1.99	0.61
5:BE:47:PHE:CD2	5:BE:47:PHE:C	2.78	0.61
5:BE:124:ALA:O	5:BE:125:LYS:CB	2.49	0.61
7:BG:34:LYS:HB3	7:BG:37:THR:HG22	1.82	0.61
9:BI:75:ALA:HA	9:BI:78:ILE:HD12	1.81	0.61
13:BM:28:ARG:HG3	13:BM:62:PHE:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BO:26:VAL:O	15:BO:27:GLN:C	2.43	0.61
15:BO:69:LEU:HD13	15:BO:77:TYR:HB2	1.81	0.61
19:BS:40:PHE:HA	19:BS:66:VAL:HG13	1.83	0.61
20:BT:56:ILE:O	20:BT:60:GLN:HG2	2.00	0.61
25:CA:417:C:H2'	25:CA:418:C:H6	1.65	0.61
25:CA:1300:G:H4'	25:CA:1301:A:H5'	1.82	0.61
25:CA:1415:U:H3'	25:CA:1415:U:O2	2.01	0.61
25:CA:1420:A:C6	25:CA:2211:A:C2	2.87	0.61
26:CB:102:G:C2'	26:CB:103:U:H5'	2.31	0.61
33:CI:4:VAL:O	33:CI:5:GLN:HB3	1.98	0.61
33:CI:54:ILE:CG1	33:CI:73:PRO:HB3	2.30	0.61
33:CI:126:ARG:HA	33:CI:129:GLU:HG3	1.82	0.61
42:CR:49:ILE:C	42:CR:51:VAL:O	2.43	0.61
44:CT:34:VAL:HG22	44:CT:81:LYS:HB3	1.83	0.61
44:CT:69:ARG:HB2	44:CT:74:ILE:HG22	1.81	0.61
49:CY:45:GLN:O	49:CY:46:VAL:HB	2.00	0.61
52:C1:28:THR:C	52:C1:29:LYS:HG2	2.24	0.61
25:DA:900:A:C2	25:DA:901:C:H1'	2.35	0.61
25:DA:1866:A:N1	25:DA:1876:A:N7	2.49	0.61
36:DL:135:ILE:HG22	36:DL:140:GLY:HA2	1.83	0.61
45:DU:85:ARG:HG2	45:DU:94:PHE:HD2	1.65	0.61
46:DV:63:ILE:HG22	46:DV:65:VAL:HG12	1.83	0.61
1:AA:468:A:H5'	1:AA:469:C:OP2	2.01	0.61
1:AA:542:G:C4	1:AA:543:U:C5	2.88	0.61
2:AB:63:LYS:O	2:AB:65:LYS:HE2	2.00	0.61
2:AB:96:LEU:HB2	2:AB:99:MET:HE2	1.81	0.61
9:AI:24:ASN:C	9:AI:58:GLU:HA	2.25	0.61
16:AP:51:ARG:HH11	16:AP:51:ARG:HG2	1.64	0.61
16:AP:73:ALA:O	16:AP:77:GLU:CB	2.48	0.61
1:BA:1356:G:H2'	1:BA:1357:A:C8	2.35	0.61
4:BD:3:TYR:O	4:BD:4:LEU:HB2	2.00	0.61
12:BL:2:THR:HB	12:BL:5:GLN:CG	2.31	0.61
14:BN:90:ARG:HB2	14:BN:92:GLU:HG3	1.83	0.61
18:BR:31:TYR:O	18:BR:39:VAL:HG23	2.00	0.61
21:BU:26:GLY:O	21:BU:30:GLU:HB2	2.01	0.61
25:CA:1073:A:C3'	25:CA:1074:G:C5'	2.79	0.61
37:CM:54:THR:O	37:CM:56:ALA:N	2.33	0.61
42:CR:74:ILE:HD12	42:CR:74:ILE:N	2.15	0.61
25:DA:404:A:C1'	25:DA:405:U:OP2	2.48	0.61
25:DA:1057:A:N7	25:DA:1086:A:H2'	2.16	0.61
25:DA:1383:A:C2	25:DA:1384:A:N3	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1540:G:C6	25:DA:1541:C:C4	2.89	0.61
25:DA:1789:A:O2'	25:DA:1790:C:H5'	2.01	0.61
25:DA:1790:C:C5	25:DA:1828:G:C2	2.89	0.61
25:DA:2184:A:H2'	25:DA:2185:U:C6	2.36	0.61
27:DC:264:LYS:HB3	27:DC:265:PHE:CE1	2.35	0.61
30:DF:129:MET:HE2	30:DF:130:GLY:O	2.01	0.61
34:DJ:117:ALA:HA	34:DJ:120:ARG:HD2	1.83	0.61
34:DJ:129:GLU:N	34:DJ:129:GLU:OE1	2.34	0.61
37:DM:62:LYS:HD3	37:DM:64:TRP:CH2	2.34	0.61
41:DQ:93:ILE:HD13	42:DR:11:GLN:HB2	1.83	0.61
45:DU:15:GLY:O	45:DU:16:LYS:CB	2.48	0.61
49:DY:13:GLU:O	49:DY:16:THR:N	2.33	0.61
1:AA:545:C:OP1	4:AD:68:GLU:HG3	2.01	0.61
1:AA:983:A:C2'	1:AA:983:A:N3	2.62	0.61
2:AB:71:THR:O	2:AB:72:LYS:HB3	2.01	0.61
2:AB:168:GLU:HA	2:AB:168:GLU:OE1	2.00	0.61
3:AC:122:GLN:O	3:AC:127:VAL:HG22	2.00	0.61
4:AD:21:LYS:O	4:AD:23:GLY:N	2.33	0.61
9:AI:33:SER:CB	9:AI:36:GLN:HG3	2.30	0.61
10:AJ:14:ASP:HB3	10:AJ:17:LEU:HD22	1.81	0.61
10:AJ:28:THR:O	10:AJ:32:THR:HG22	2.01	0.61
15:AO:18:ALA:O	15:AO:19:ASN:CB	2.49	0.61
1:BA:723:U:H5'	1:BA:724:G:OP1	2.01	0.61
1:BA:1536:C:H5"	1:BA:1537:U:OP2	2.01	0.61
2:BB:49:PHE:CD1	2:BB:49:PHE:O	2.53	0.61
4:BD:34:GLU:O	4:BD:36:ALA:N	2.32	0.61
5:BE:17:VAL:HG13	5:BE:18:ASN:N	2.14	0.61
5:BE:149:PRO:C	5:BE:151:MET:H	2.08	0.61
7:BG:41:ILE:HG23	7:BG:116:ALA:HB2	1.82	0.61
16:BP:42:ILE:O	16:BP:44:SER:N	2.34	0.61
25:CA:454:A:H4'	25:CA:455:C:OP2	2.00	0.61
25:CA:1372:U:H2'	25:CA:1373:A:C5'	2.30	0.61
25:CA:2304:G:H2'	25:CA:2305:U:C5'	2.31	0.61
27:CC:104:LEU:N	27:CC:104:LEU:HD12	2.15	0.61
31:CG:41:GLU:HG3	31:CG:54:ARG:HH21	1.66	0.61
32:CH:11:ASN:O	32:CH:12:LEU:HB3	2.01	0.61
43:CS:59:GLU:HG3	43:CS:66:ILE:CD1	2.31	0.61
50:CZ:48:ASN:O	50:CZ:51:SER:HB3	2.00	0.61
25:DA:404:A:H1'	25:DA:405:U:OP2	2.01	0.61
25:DA:572:A:H5"	25:DA:573:U:OP2	2.00	0.61
28:DD:176:ASP:O	28:DD:189:VAL:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DF:142:TYR:O	30:DF:145:VAL:HG22	2.01	0.61
44:DT:30:ILE:C	44:DT:30:ILE:HD13	2.25	0.61
46:DV:38:LEU:HB3	46:DV:40:ILE:HD11	1.83	0.61
50:DZ:35:VAL:HG21	50:DZ:37:ARG:NH2	2.15	0.61
1:AA:61:G:C4	1:AA:107:G:N2	2.68	0.61
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.61
2:AB:88:GLN:HG2	2:AB:220:VAL:HG11	1.83	0.61
4:AD:9:LYS:HA	4:AD:12:ARG:HG3	1.83	0.61
5:AE:80:LEU:HD21	5:AE:122:VAL:HG12	1.82	0.61
6:AF:7:VAL:O	6:AF:7:VAL:HG22	1.99	0.61
7:AG:14:ASP:H	7:AG:23:ALA:HB2	1.66	0.61
7:AG:119:LEU:HD22	7:AG:123:LEU:HD23	1.82	0.61
1:BA:1021:A:H2'	1:BA:1022:A:H5"	1.83	0.61
1:BA:1028:C:C6	1:BA:1034:G:N2	2.68	0.61
1:BA:1219:A:H2'	1:BA:1220:G:C8	2.35	0.61
1:BA:1265:C:C2	1:BA:1271:A:C2	2.88	0.61
1:BA:1377:A:N3	7:BG:1:PRO:CG	2.64	0.61
2:BB:61:SER:HA	2:BB:223:GLY:HA2	1.83	0.61
5:BE:121:ASN:CG	5:BE:122:VAL:H	2.09	0.61
11:BK:75:GLU:HB2	11:BK:76:TYR:CD1	2.35	0.61
25:CA:211:C:OP1	53:C2:25:LYS:NZ	2.33	0.61
25:CA:1081:U:O2	25:CA:1081:U:H2'	2.00	0.61
25:CA:1416:G:HO2'	25:CA:1417:C:H6	1.47	0.61
25:CA:1462:C:O2'	25:CA:1463:C:C5'	2.48	0.61
25:CA:1673:G:C2'	25:CA:1674:G:H5'	2.30	0.61
25:CA:1740:G:O2'	25:CA:1741:C:H5'	2.00	0.61
25:CA:2127:G:C4'	25:CA:2128:G:OP1	2.45	0.61
25:CA:2657:A:H1'	25:CA:2665:A:N6	2.16	0.61
30:CF:40:GLY:HA2	30:CF:84:ILE:CD1	2.31	0.61
31:CG:108:PHE:HE2	31:CG:151:ARG:CZ	2.13	0.61
33:CI:46:ASP:HA	33:CI:50:LYS:CD	2.30	0.61
33:CI:100:ILE:CG1	33:CI:137:LEU:HD13	2.31	0.61
36:CL:81:ASP:O	36:CL:83:ALA:N	2.33	0.61
37:CM:15:GLY:C	37:CM:16:ARG:CD	2.73	0.61
42:CR:24:LYS:HA	42:CR:94:THR:CG2	2.30	0.61
25:DA:1526:C:H2'	25:DA:1527:G:O4'	2.01	0.61
25:DA:2489:U:C4	25:DA:2490:G:C6	2.88	0.61
56:DB:95:U:C2	56:DB:96:G:C8	2.89	0.61
27:DC:123:ILE:CD1	27:DC:135:PRO:HD3	2.30	0.61
27:DC:144:GLU:HG2	27:DC:151:GLY:H	1.66	0.61
37:DM:17:ASN:O	37:DM:38:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DN:24:MET:CE	38:DN:44:LEU:HD13	2.30	0.61
1:AA:429:U:H1'	1:AA:430:A:H5"	1.81	0.61
1:AA:495:A:C2	1:AA:496:A:N6	2.69	0.61
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.00	0.61
16:AP:79:ASN:HB2	16:AP:82:ALA:O	2.00	0.61
21:AU:10:PRO:HD2	21:AU:11:PHE:CD2	2.36	0.61
4:BD:172:VAL:O	4:BD:173:ASP:CB	2.49	0.61
6:BF:43:GLY:O	6:BF:58:HIS:HA	2.01	0.61
6:BF:55:HIS:O	6:BF:56:LYS:HB2	2.01	0.61
8:BH:77:VAL:HG11	8:BH:124:ILE:CD1	2.30	0.61
9:BI:12:LYS:O	9:BI:13:SER:HB3	2.00	0.61
12:BL:42:LYS:HG2	12:BL:43:LYS:HD3	1.81	0.61
17:BQ:14:ASP:OD2	17:BQ:53:GLY:HA2	2.01	0.61
17:BQ:77:VAL:C	17:BQ:78:VAL:HG22	2.26	0.61
19:BS:28:LYS:HB3	19:BS:29:PRO:HD2	1.83	0.61
25:CA:96:C:H4'	49:CY:41:HIS:CD2	2.36	0.61
25:CA:323:C:H2'	29:CE:163:ASN:HD21	1.64	0.61
25:CA:1069:A:H4'	25:CA:1070:A:H8	1.66	0.61
25:CA:1844:C:C2	25:CA:1897:G:N2	2.69	0.61
30:CF:104:THR:HG23	30:CF:105:ILE:HG23	1.81	0.61
39:CO:78:VAL:O	39:CO:79:ALA:C	2.43	0.61
39:CO:83:LEU:HD22	39:CO:88:LYS:HB3	1.83	0.61
46:CV:29:ILE:HD13	46:CV:30:ILE:H	1.64	0.61
50:CZ:29:ARG:O	50:CZ:30:ARG:HB3	2.00	0.61
25:DA:78:U:OP2	49:DY:2:LYS:CD	2.49	0.61
25:DA:244:A:H2'	25:DA:245:G:O4'	1.99	0.61
25:DA:1314:C:P	60:DA:3770:HOH:O	2.52	0.61
25:DA:1392:A:C6	25:DA:1393:A:N6	2.69	0.61
25:DA:1410:G:C2	25:DA:1593:A:C6	2.89	0.61
25:DA:2386:A:H2'	25:DA:2387:U:C6	2.36	0.61
56:DB:103:U:C2'	56:DB:104:A:H5'	2.31	0.61
27:DC:71:ASP:HA	27:DC:117:SER:O	2.01	0.61
27:DC:120:ASP:O	27:DC:121:ALA:O	2.19	0.61
29:DE:130:LYS:O	29:DE:132:LYS:N	2.34	0.61
33:DI:11:GLN:HE22	33:DI:53:PRO:HA	1.66	0.61
35:DK:24:VAL:HG13	35:DK:33:ALA:HB2	1.82	0.61
36:DL:111:ILE:HD12	36:DL:111:ILE:N	2.16	0.61
42:DR:49:ILE:HG13	42:DR:52:PRO:HA	1.83	0.61
43:DS:59:GLU:HA	43:DS:64:ALA:CB	2.31	0.61
46:DV:63:ILE:HD12	46:DV:72:VAL:HG21	1.81	0.61
48:DX:51:SER:O	48:DX:52:ALA:C	2.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:202:G:O2'	1:AA:468:A:C8	2.48	0.61
1:AA:462:G:H3'	1:AA:463:U:C6	2.35	0.61
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.00	0.61
4:AD:124:VAL:HG23	4:AD:125:ASN:N	2.15	0.61
6:AF:8:PHE:CD1	6:AF:8:PHE:C	2.79	0.61
13:AM:18:LEU:CD1	13:AM:32:ILE:HG21	2.31	0.61
13:AM:44:ILE:HA	13:AM:47:LEU:CB	2.31	0.61
13:AM:45:SER:O	13:AM:46:GLU:HB3	2.01	0.61
13:AM:113:LYS:CB	13:AM:114:PRO:CD	2.78	0.61
15:AO:34:GLN:HB3	15:AO:58:MET:CE	2.30	0.61
1:BA:154:U:H2'	1:BA:154:U:O2	2.01	0.61
1:BA:765:G:H3'	1:BA:812:G:H22	1.65	0.61
1:BA:1113:C:N3	1:BA:1114:C:C5	2.68	0.61
3:BC:153:SER:CB	3:BC:164:THR:HG22	2.31	0.61
12:BL:18:SER:O	12:BL:21:PRO:HD3	2.01	0.61
14:BN:35:ALA:HB2	14:BN:42:TRP:CH2	2.36	0.61
17:BQ:12:VAL:CG1	17:BQ:21:VAL:HG22	2.30	0.61
25:CA:304:U:O2'	25:CA:305:C:H5'	2.01	0.61
25:CA:460:A:H2'	25:CA:461:C:O4'	2.01	0.61
25:CA:1060:U:C5'	25:CA:1062:G:H5'	2.30	0.61
25:CA:1475:G:O2'	25:CA:1476:U:P	2.58	0.61
25:CA:1509:A:O2'	25:CA:1510:G:P	2.58	0.61
25:CA:1526:C:H2'	25:CA:1527:G:O5'	2.00	0.61
25:CA:1714:U:H5"	25:CA:1715:G:H5'	1.82	0.61
25:CA:2469:A:H4'	37:CM:55:ARG:NH1	2.15	0.61
27:CC:170:TYR:CD2	27:CC:184:GLU:HA	2.36	0.61
36:CL:85:VAL:HG11	36:CL:94:THR:HG22	1.83	0.61
38:CN:72:ASP:C	38:CN:72:ASP:OD2	2.42	0.61
25:DA:714:U:C5'	25:DA:715:A:OP2	2.49	0.61
25:DA:1515:A:H5'	25:DA:1516:G:OP2	2.00	0.61
25:DA:2204:G:N3	25:DA:2205:A:C8	2.69	0.61
30:DF:32:LYS:O	30:DF:33:ILE:CG1	2.49	0.61
31:DG:97:VAL:HG21	31:DG:123:GLU:HA	1.82	0.61
37:DM:31:PHE:CZ	37:DM:110:GLU:HA	2.36	0.61
37:DM:36:VAL:HG23	37:DM:128:THR:HA	1.83	0.61
38:DN:10:LEU:O	38:DN:11:ASN:C	2.44	0.61
39:DO:75:GLY:CA	39:DO:106:LEU:HD23	2.31	0.61
40:DP:105:LYS:O	40:DP:108:ARG:HD3	2.01	0.61
41:DQ:30:VAL:O	41:DQ:31:TYR:C	2.44	0.61
54:D3:26:ALA:O	54:D3:27:ASN:HB2	1.99	0.61
1:AA:190:A:N7	1:AA:191:G:C8	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:294:U:H2'	1:AA:295:C:C6	2.36	0.60
1:AA:983:A:N3	1:AA:983:A:H2'	2.16	0.60
1:AA:1032:G:C5'	1:AA:1033:G:OP2	2.47	0.60
1:AA:1228:C:OP2	13:AM:106:ARG:NH2	2.34	0.60
2:AB:110:ILE:CG1	2:AB:150:ILE:HG12	2.30	0.60
4:AD:24:VAL:HG12	4:AD:25:ARG:N	2.15	0.60
4:AD:168:THR:HB	4:AD:183:ARG:NH2	2.15	0.60
5:AE:39:GLY:HA3	5:AE:116:VAL:O	2.01	0.60
5:AE:81:GLN:OE1	5:AE:147:ASN:O	2.18	0.60
8:AH:31:LEU:O	8:AH:32:LYS:C	2.43	0.60
10:AJ:26:VAL:O	10:AJ:30:LYS:HD3	2.01	0.60
1:BA:135:C:C2	16:BP:1:MET:HB2	2.36	0.60
1:BA:459:A:C2	1:BA:460:A:C4	2.89	0.60
1:BA:1308:U:H5"	13:BM:96:VAL:HG23	1.82	0.60
1:BA:1493:A:OP2	1:BA:1493:A:C8	2.54	0.60
13:BM:68:LEU:O	13:BM:71:GLU:HB2	2.01	0.60
25:CA:1243:C:H2'	25:CA:1244:A:O5'	2.01	0.60
25:CA:1988:G:C2'	25:CA:1989:G:H5'	2.29	0.60
25:CA:2051:A:H8	25:CA:2051:A:OP2	1.84	0.60
25:CA:2314:A:H2'	25:CA:2315:G:H8	1.66	0.60
28:CD:1:MET:SD	28:CD:100:LEU:CD1	2.88	0.60
29:CE:48:THR:HG22	29:CE:86:ALA:HB3	1.82	0.60
38:CN:63:ARG:HG3	38:CN:80:PHE:CZ	2.35	0.60
40:CP:80:VAL:HG12	40:CP:80:VAL:O	1.99	0.60
41:CQ:87:VAL:HG13	42:CR:49:ILE:HD11	1.82	0.60
54:C3:26:ALA:O	54:C3:27:ASN:HB2	2.01	0.60
25:DA:735:A:H3'	25:DA:736:C:C6	2.36	0.60
25:DA:1360:G:OP2	60:DA:3623:HOH:O	2.16	0.60
25:DA:1363:C:O2'	25:DA:1364:G:H5'	2.00	0.60
25:DA:1477:A:C2	25:DA:1515:A:C5	2.89	0.60
25:DA:1486:U:N3	25:DA:1504:A:C2	2.69	0.60
25:DA:1588:G:C6	25:DA:1589:U:C4	2.88	0.60
31:DG:84:LYS:HG3	31:DG:140:ILE:HD12	1.82	0.60
33:DI:75:ALA:HA	33:DI:78:LEU:HB2	1.81	0.60
36:DL:93:ASN:OD1	36:DL:94:THR:N	2.34	0.60
46:DV:29:ILE:HG12	46:DV:38:LEU:O	2.02	0.60
1:AA:340:U:H2'	1:AA:341:C:H6	1.65	0.60
1:AA:1356:G:N2	1:AA:1357:A:N3	2.48	0.60
3:AC:51:VAL:HG21	3:AC:67:ILE:CG2	2.31	0.60
4:AD:121:ALA:N	4:AD:122:ILE:CD1	2.64	0.60
5:AE:80:LEU:CD2	5:AE:122:VAL:HG12	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:10:VAL:CG1	6:AF:11:HIS:N	2.64	0.60
8:AH:78:SER:HA	8:AH:84:ILE:HG12	1.83	0.60
13:AM:19:THR:CA	13:AM:24:VAL:HG23	2.30	0.60
20:AT:33:LYS:HA	20:AT:33:LYS:CE	2.29	0.60
1:BA:60:A:N1	1:BA:107:G:O2'	2.31	0.60
1:BA:101:A:C2'	1:BA:102:G:O5'	2.49	0.60
1:BA:678:U:H2'	1:BA:679:C:C6	2.37	0.60
1:BA:1221:G:C4'	19:BS:76:THR:HG21	2.31	0.60
1:BA:1420:U:H2'	1:BA:1421:G:O4'	2.00	0.60
2:BB:99:MET:O	2:BB:103:TRP:CA	2.49	0.60
4:BD:54:LEU:CD2	4:BD:54:LEU:C	2.74	0.60
5:BE:95:MET:HE2	5:BE:114:LEU:HD21	1.81	0.60
7:BG:4:ARG:HA	7:BG:4:ARG:NE	2.15	0.60
10:BJ:27:GLU:C	10:BJ:29:ALA:H	2.09	0.60
13:BM:15:VAL:HG13	13:BM:33:LEU:HD12	1.83	0.60
25:CA:1508:A:H4'	25:CA:1508:A:OP1	2.01	0.60
25:CA:1893:C:H2'	25:CA:1894:C:H5'	1.82	0.60
25:CA:2522:U:H2'	25:CA:2523:G:H5'	1.81	0.60
25:CA:2709:G:O2'	25:CA:2710:C:H5'	2.01	0.60
36:CL:48:ARG:HD2	54:C3:59:ALA:O	2.01	0.60
37:CM:12:MET:HE3	37:CM:72:PRO:CD	2.31	0.60
40:CP:80:VAL:HG11	40:CP:83:ILE:HD11	1.83	0.60
44:CT:1:MET:HB2	44:CT:2:ILE:HD12	1.84	0.60
51:C0:52:LYS:CG	51:C0:52:LYS:O	2.49	0.60
52:C1:47:ILE:H	52:C1:47:ILE:HD12	1.66	0.60
25:DA:323:C:O4'	25:DA:323:C:O2	2.17	0.60
25:DA:1113:U:H2'	25:DA:1114:C:C6	2.36	0.60
25:DA:1275:A:N1	25:DA:1295:C:O2'	2.33	0.60
25:DA:1319:C:O2'	25:DA:1320:C:H5'	2.01	0.60
25:DA:1372:U:C2'	25:DA:1373:A:H5'	2.31	0.60
25:DA:1410:G:N3	25:DA:1593:A:C2	2.68	0.60
25:DA:1489:C:C2	25:DA:1501:G:N2	2.69	0.60
25:DA:2335:A:OP1	39:DO:13:ARG:CD	2.48	0.60
27:DC:236:GLY:O	27:DC:237:ARG:CB	2.49	0.60
29:DE:108:ILE:HD11	29:DE:180:LEU:CB	2.28	0.60
36:DL:93:ASN:O	36:DL:94:THR:HG22	2.01	0.60
43:DS:20:VAL:CG2	43:DS:43:ALA:HB3	2.30	0.60
45:DU:85:ARG:O	45:DU:92:VAL:CG2	2.49	0.60
1:AA:175:C:O2'	1:AA:176:C:H5'	2.01	0.60
1:AA:1286:U:C5'	1:AA:1287:A:OP2	2.50	0.60
1:AA:1506:U:H4'	11:AK:128:VAL:OXT	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1533:C:H5'	1:AA:1534:A:OP1	2.01	0.60
3:AC:61:LYS:CE	3:AC:61:LYS:HA	2.30	0.60
5:AE:102:THR:CG2	5:AE:103:GLY:N	2.65	0.60
6:AF:46:GLN:HB2	6:AF:56:LYS:CE	2.32	0.60
9:AI:25:GLY:HA3	9:AI:57:VAL:O	2.00	0.60
17:AQ:14:ASP:OD1	17:AQ:54:ILE:HB	2.01	0.60
21:AU:35:GLU:O	21:AU:36:PHE:CB	2.50	0.60
1:BA:87:C:H2'	1:BA:88:U:N1	2.16	0.60
1:BA:317:U:C2	1:BA:318:G:C8	2.89	0.60
1:BA:714:G:H2'	1:BA:715:A:C8	2.36	0.60
1:BA:767:A:O2'	1:BA:1524:C:O2	2.17	0.60
1:BA:938:A:N6	1:BA:939:G:C6	2.70	0.60
1:BA:978:A:C5	1:BA:1318:A:N6	2.69	0.60
1:BA:1141:C:O2'	1:BA:1142:G:P	2.59	0.60
1:BA:1381:U:C5	1:BA:1382:C:C5	2.88	0.60
1:BA:1423:G:H2'	1:BA:1424:U:H6	1.67	0.60
2:BB:159:ALA:HA	2:BB:181:PRO:HD2	1.83	0.60
5:BE:154:ALA:HB3	5:BE:155:LYS:CE	2.31	0.60
8:BH:33:VAL:HG12	8:BH:34:ALA:N	2.16	0.60
10:BJ:26:VAL:HG22	10:BJ:36:VAL:HG11	1.81	0.60
15:BO:72:LYS:HA	15:BO:72:LYS:CE	2.30	0.60
17:BQ:14:ASP:HA	17:BQ:20:ILE:CD1	2.31	0.60
25:CA:138:U:H4'	25:CA:139:U:C5'	2.31	0.60
25:CA:533:G:OP1	41:CQ:23:TYR:O	2.19	0.60
25:CA:1591:A:H2'	25:CA:1592:C:C6	2.36	0.60
25:CA:1856:U:C2'	25:CA:1857:G:H5'	2.31	0.60
37:CM:12:MET:HE3	37:CM:72:PRO:HD2	1.81	0.60
38:CN:103:ARG:CZ	38:CN:110:MET:CE	2.79	0.60
42:CR:39:LEU:CA	42:CR:49:ILE:HG23	2.31	0.60
44:CT:4:GLU:HA	44:CT:7:LEU:HD12	1.81	0.60
25:DA:301:G:C2	25:DA:302:C:C2	2.89	0.60
25:DA:309:A:H4'	45:DU:15:GLY:HA2	1.84	0.60
25:DA:769:U:C4	25:DA:770:G:N7	2.70	0.60
25:DA:1172:C:H2'	25:DA:1173:U:C6	2.36	0.60
25:DA:1179:G:C5	25:DA:1180:U:C1'	2.85	0.60
25:DA:1335:C:O2'	25:DA:1336:A:H5'	2.01	0.60
25:DA:1358:G:C8	25:DA:1371:G:O6	2.54	0.60
25:DA:1794:A:H2'	25:DA:1795:C:H6	1.65	0.60
25:DA:2279:G:N7	57:DW:10:ARG:NH2	2.49	0.60
25:DA:2794:C:C6	25:DA:2794:C:OP2	2.54	0.60
27:DC:69:ASN:O	27:DC:71:ASP:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DL:77:ILE:O	36:DL:110:VAL:O	2.19	0.60
36:DL:126:ARG:O	36:DL:127:VAL:CG2	2.49	0.60
37:DM:111:GLU:CD	37:DM:111:GLU:C	2.70	0.60
42:DR:83:TYR:C	42:DR:83:TYR:CD1	2.79	0.60
44:DT:21:SER:O	44:DT:24:MET:N	2.34	0.60
44:DT:49:LYS:HB2	44:DT:50:LEU:HD13	1.83	0.60
1:AA:274:A:C5'	17:AQ:15:LYS:HE2	2.32	0.60
1:AA:425:G:H2'	1:AA:426:U:O4'	2.02	0.60
1:AA:972:C:H4'	10:AJ:59:LYS:HE2	1.83	0.60
1:AA:1317:C:H2'	1:AA:1318:A:C5'	2.32	0.60
3:AC:54:ILE:HD12	3:AC:54:ILE:O	2.01	0.60
6:AF:92:THR:HG22	6:AF:93:LYS:N	2.14	0.60
9:AI:25:GLY:CA	9:AI:58:GLU:HA	2.30	0.60
15:AO:72:LYS:HA	15:AO:72:LYS:CE	2.30	0.60
16:AP:19:VAL:HG22	16:AP:36:VAL:O	2.00	0.60
16:AP:48:GLU:HG3	16:AP:49:GLY:N	2.16	0.60
16:AP:52:LEU:O	16:AP:53:ASP:C	2.44	0.60
24:AY:112:LYS:O	24:AY:113:ASP:C	2.44	0.60
1:BA:344:A:H4'	1:BA:345:C:OP2	2.01	0.60
1:BA:357:G:OP1	1:BA:367:U:H2'	2.02	0.60
1:BA:1010:U:H2'	1:BA:1011:C:C6	2.36	0.60
5:BE:37:VAL:CG1	5:BE:116:VAL:HG21	2.31	0.60
15:BO:3:SER:O	15:BO:7:THR:HG23	2.00	0.60
25:CA:897:C:O5'	25:CA:897:C:H6	1.83	0.60
25:CA:1344:U:H4'	25:CA:1345:C:OP2	2.02	0.60
25:CA:2420:C:OP2	54:C3:32:LEU:HB2	2.00	0.60
27:CC:143:VAL:HB	27:CC:153:LEU:HD12	1.82	0.60
33:CI:66:PHE:CD1	33:CI:68:PHE:CD1	2.89	0.60
34:CJ:65:THR:HG23	34:CJ:68:LYS:HZ2	1.66	0.60
36:CL:2:ARG:HA	36:CL:5:THR:CG2	2.31	0.60
39:CO:59:ALA:HA	39:CO:62:LEU:HD12	1.83	0.60
43:CS:4:ILE:HD12	43:CS:4:ILE:N	2.17	0.60
25:DA:332:A:C2	25:DA:335:C:C5	2.90	0.60
25:DA:948:C:O2	25:DA:984:A:O2'	2.18	0.60
25:DA:1179:G:C6	25:DA:1180:U:H1'	2.37	0.60
25:DA:2354:C:H6	25:DA:2354:C:H5"	1.67	0.60
25:DA:2755:C:O2'	25:DA:2756:U:H6	1.85	0.60
56:DB:30:C:H2'	56:DB:31:C:C5'	2.31	0.60
27:DC:50:THR:HG21	27:DC:53:ILE:HD11	1.83	0.60
27:DC:141:HIS:HB2	27:DC:194:VAL:HG12	1.83	0.60
28:DD:116:LYS:HG3	28:DD:165:MET:HE2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:5:LEU:O	29:DE:6:LYS:C	2.44	0.60
29:DE:131:THR:O	29:DE:132:LYS:C	2.43	0.60
32:DH:57:LYS:HG3	32:DH:58:LEU:CD2	2.31	0.60
39:DO:13:ARG:O	39:DO:17:LYS:HG2	2.01	0.60
1:AA:135:C:O2	16:AP:1:MET:HE3	2.01	0.60
1:AA:437:U:C2'	1:AA:438:U:H5'	2.31	0.60
1:AA:802:A:H2'	1:AA:803:G:C5'	2.32	0.60
1:AA:930:C:C4	1:AA:931:C:C5	2.89	0.60
2:AB:218:ALA:C	2:AB:219:THR:HG22	2.27	0.60
5:AE:81:GLN:CD	5:AE:149:PRO:HB3	2.25	0.60
8:AH:57:GLU:HA	8:AH:57:GLU:OE2	2.01	0.60
14:AN:20:PHE:HA	14:AN:24:ALA:HB3	1.82	0.60
16:AP:73:ALA:O	16:AP:77:GLU:HB3	2.01	0.60
1:BA:50:A:N6	1:BA:361:G:C4'	2.64	0.60
1:BA:149:A:C2	1:BA:150:U:N1	2.69	0.60
1:BA:207:C:O2	1:BA:207:C:H2'	2.01	0.60
1:BA:435:A:H2'	1:BA:436:C:O5'	2.02	0.60
1:BA:934:C:C5	1:BA:1344:C:C5	2.88	0.60
1:BA:954:G:N2	1:BA:1228:C:N3	2.48	0.60
1:BA:1157:A:H4'	1:BA:1158:C:O5'	2.01	0.60
2:BB:163:ILE:HA	2:BB:185:ILE:HG22	1.83	0.60
4:BD:4:LEU:N	4:BD:4:LEU:CD1	2.64	0.60
5:BE:89:THR:HG22	5:BE:90:GLY:N	2.17	0.60
7:BG:50:ALA:HB2	7:BG:57:GLU:OE2	2.01	0.60
7:BG:66:GLU:O	7:BG:66:GLU:HG2	2.01	0.60
10:BJ:18:ILE:CG2	10:BJ:19:ASP:N	2.63	0.60
11:BK:30:ILE:HG12	11:BK:30:ILE:O	2.01	0.60
17:BQ:13:SER:HB3	17:BQ:21:VAL:HG13	1.83	0.60
18:BR:38:ILE:HD11	18:BR:55:ALA:HA	1.83	0.60
21:BU:33:ARG:NE	21:BU:34:ARG:HB2	2.16	0.60
22:BV:14:A:C2	22:BV:15:G:H1'	2.37	0.60
25:CA:8:C:O2'	25:CA:9:G:H5'	2.02	0.60
25:CA:1007:C:OP1	34:CJ:39:LYS:HE2	2.02	0.60
25:CA:1609:A:H5"	60:CA:3651:HOH:O	2.01	0.60
25:CA:1929:G:N3	25:CA:1929:G:H5"	2.15	0.60
25:CA:1992:G:N7	60:CA:3428:HOH:O	2.32	0.60
25:CA:2055:C:H5'	25:CA:2056:G:OP1	2.02	0.60
25:CA:2312:U:OP1	30:CF:70:ARG:HB2	2.02	0.60
25:CA:2542:A:H5"	25:CA:2766:A:O2'	2.02	0.60
27:CC:142:ASN:OD1	27:CC:151:GLY:HA3	2.02	0.60
27:CC:156:SER:O	27:CC:157:ALA:C	2.43	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:19:PHE:O	30:CF:20:ASN:C	2.44	0.60
30:CF:51:ASN:HB3	30:CF:146:ASP:CG	2.26	0.60
36:CL:100:ILE:HG13	36:CL:101:ILE:HG23	1.84	0.60
46:CV:80:HIS:ND1	46:CV:81:PRO:HD2	2.16	0.60
25:DA:876:C:N4	25:DA:877:A:N6	2.50	0.60
25:DA:1096:A:H2'	25:DA:1097:U:O4'	2.01	0.60
25:DA:1350:C:C2	25:DA:1382:G:C2	2.90	0.60
25:DA:1503:A:N6	25:DA:1504:A:C6	2.70	0.60
25:DA:1739:A:C2'	25:DA:1740:G:O5'	2.47	0.60
25:DA:2198:A:H4'	25:DA:2199:A:OP1	2.01	0.60
25:DA:2218:G:O2'	25:DA:2219:U:H5'	2.01	0.60
25:DA:2301:C:H2'	25:DA:2302:U:C6	2.35	0.60
25:DA:2461:A:H1'	25:DA:2492:U:C2	2.37	0.60
25:DA:2572:A:OP1	25:DA:2574:G:H4'	2.01	0.60
29:DE:148:ILE:HD13	29:DE:187:VAL:CG1	2.31	0.60
33:DI:45:THR:O	33:DI:50:LYS:HD3	2.02	0.60
33:DI:56:VAL:CG2	33:DI:70:THR:HB	2.32	0.60
44:DT:8:LEU:HD13	49:DY:21:LEU:HB3	1.82	0.60
51:D0:31:LYS:HG2	51:D0:32:THR:N	2.15	0.60
1:AA:58:C:O2'	1:AA:388:G:N7	2.17	0.60
1:AA:402:G:C2'	1:AA:403:C:H5'	2.31	0.60
1:AA:533:A:C2	1:AA:536:C:C6	2.89	0.60
1:AA:1216:A:H2'	1:AA:1217:C:H6	1.66	0.60
1:AA:1231:G:C5	1:AA:1232:U:C5	2.89	0.60
1:AA:1320:C:H2'	1:AA:1321:U:O4'	2.00	0.60
1:AA:1502:A:C8	1:AA:1504:G:C5	2.89	0.60
2:AB:26:MET:HA	2:AB:26:MET:HE3	1.83	0.60
3:AC:142:ARG:CG	3:AC:143:LEU:HD13	2.30	0.60
3:AC:205:GLU:O	3:AC:206:ILE:O	2.20	0.60
6:AF:86:ARG:HH11	6:AF:86:ARG:HG2	1.67	0.60
10:AJ:5:ARG:HG2	10:AJ:79:PRO:CB	2.32	0.60
10:AJ:63:ASP:OD1	14:AN:85:ARG:CD	2.50	0.60
18:AR:19:GLU:N	18:AR:27:THR:HG21	2.17	0.60
20:AT:67:HIS:HB3	20:AT:68:LYS:HE3	1.84	0.60
1:BA:785:G:C2'	1:BA:786:G:H5'	2.32	0.60
1:BA:1217:C:H2'	1:BA:1218:C:H6	1.66	0.60
1:BA:1221:G:H4'	19:BS:76:THR:HG22	1.83	0.60
2:BB:61:SER:C	2:BB:63:LYS:N	2.58	0.60
2:BB:124:THR:C	2:BB:125:PHE:CD2	2.80	0.60
7:BG:70:PRO:HG3	7:BG:102:TRP:CH2	2.36	0.60
13:BM:15:VAL:CG1	13:BM:33:LEU:HD12	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BO:9:LYS:O	15:BO:13:GLU:HG3	2.02	0.60
21:BU:13:VAL:O	21:BU:15:LEU:HD11	2.02	0.60
25:CA:725:G:C6	25:CA:726:G:N1	2.69	0.60
25:CA:1403:A:C2	25:CA:1404:C:C2	2.89	0.60
25:CA:2075:U:C2'	25:CA:2077:A:OP2	2.49	0.60
25:CA:2152:G:C5	25:CA:2153:C:C4	2.90	0.60
25:CA:2211:A:C1'	25:CA:2212:A:OP1	2.49	0.60
25:CA:2813:A:C2'	25:CA:2814:A:H5'	2.31	0.60
25:DA:26:G:C6	25:DA:27:G:N1	2.70	0.60
25:DA:682:G:H2'	25:DA:682:G:N3	2.16	0.60
25:DA:1153:C:OP1	41:DQ:91:ARG:NH1	2.35	0.60
25:DA:1404:C:O2'	25:DA:1405:U:H5'	2.01	0.60
25:DA:1857:G:C4	25:DA:1884:G:C2	2.90	0.60
25:DA:2193:G:C4	25:DA:2194:U:C5	2.90	0.60
25:DA:2792:A:N1	25:DA:2793:C:C4	2.70	0.60
56:DB:51:G:H5"	39:DO:64:TYR:CD2	2.36	0.60
40:DP:7:LEU:O	40:DP:7:LEU:HD23	2.02	0.60
44:DT:16:VAL:O	44:DT:17:SER:HB3	2.00	0.60
45:DU:85:ARG:O	45:DU:92:VAL:HG23	2.02	0.60
49:DY:56:LEU:O	49:DY:57:LEU:HB3	2.01	0.60
1:AA:502:A:O2'	1:AA:503:C:H5'	2.02	0.60
1:AA:694:A:OP1	11:AK:54:SER:HB3	2.01	0.60
1:AA:889:A:H5'	1:AA:891:U:O4'	2.02	0.60
1:AA:909:A:C8	1:AA:910:C:C5	2.90	0.60
1:AA:1134:G:C5	1:AA:1141:C:N4	2.69	0.60
1:AA:1491:G:H2'	1:AA:1492:A:C8	2.36	0.60
2:AB:110:ILE:O	2:AB:111:LYS:C	2.43	0.60
2:AB:160:LEU:O	2:AB:162:VAL:HG12	2.02	0.60
10:AJ:7:ARG:HB2	10:AJ:75:ASP:OD1	2.02	0.60
14:AN:25:GLU:HB2	14:AN:28:ALA:HB2	1.83	0.60
20:AT:43:LYS:HB3	20:AT:86:ALA:HB1	1.83	0.60
24:AY:41:ILE:HG22	24:AY:52:LEU:HB3	1.82	0.60
1:BA:120:A:H4'	1:BA:121:U:OP1	2.02	0.60
1:BA:802:A:C2	1:BA:803:G:H1'	2.37	0.60
1:BA:1342:C:H1'	9:BI:125:GLN:HG3	1.83	0.60
2:BB:66:ILE:HG22	2:BB:67:LEU:N	2.15	0.60
4:BD:47:LEU:CD2	4:BD:52:VAL:HG12	2.32	0.60
5:BE:73:VAL:O	5:BE:75:LEU:HD12	2.02	0.60
9:BI:56:MET:HB3	9:BI:60:LEU:CD2	2.32	0.60
11:BK:13:LYS:CD	11:BK:13:LYS:C	2.75	0.60
11:BK:14:GLN:O	11:BK:14:GLN:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2110:G:O2'	25:CA:2120:G:C5'	2.50	0.60
25:CA:2186:G:H2'	25:CA:2187:U:C6	2.37	0.60
25:CA:2683:C:OP1	40:CP:50:ARG:NH2	2.34	0.60
29:CE:12:LEU:HD23	29:CE:12:LEU:C	2.27	0.60
32:CH:72:ILE:CG2	32:CH:73:ASN:N	2.65	0.60
33:CI:20:SER:HA	33:CI:24:GLY:HA3	1.82	0.60
39:CO:28:VAL:HG11	39:CO:92:PHE:CZ	2.36	0.60
46:CV:48:MET:O	46:CV:51:GLN:HG3	2.01	0.60
25:DA:56:A:C2	25:DA:57:C:C2	2.89	0.60
25:DA:300:A:H1'	25:DA:319:G:O4'	2.01	0.60
25:DA:484:C:O5'	25:DA:484:C:H6	1.85	0.60
25:DA:1575:C:C4	25:DA:1576:U:C5	2.90	0.60
25:DA:2615:U:C2	51:D0:3:GLN:HA	2.36	0.60
25:DA:2803:G:H2'	25:DA:2804:U:H6	1.67	0.60
56:DB:89:U:H3'	56:DB:90:C:O4'	2.02	0.60
36:DL:103:ILE:O	36:DL:105:ILE:N	2.35	0.60
39:DO:33:ARG:O	39:DO:34:HIS:HB2	2.00	0.60
41:DQ:93:ILE:CD1	42:DR:11:GLN:HB2	2.32	0.60
52:D1:18:HIS:CG	52:D1:19:PHE:N	2.70	0.60
1:AA:447:G:N2	1:AA:486:U:C4	2.70	0.60
1:AA:952:U:H2'	1:AA:953:G:C8	2.37	0.60
1:AA:1060:U:H4'	10:AJ:53:ILE:CG2	2.30	0.60
1:AA:1216:A:C2	1:AA:1217:C:C5	2.89	0.60
1:AA:1238:A:C2	1:AA:1241:G:N3	2.69	0.60
2:AB:32:GLY:HA3	2:AB:39:ILE:N	2.17	0.60
2:AB:63:LYS:HA	2:AB:63:LYS:CE	2.27	0.60
5:AE:132:PRO:C	5:AE:134:ASN:H	2.09	0.60
7:AG:39:GLU:HA	7:AG:42:VAL:CG2	2.32	0.60
11:AK:109:ILE:CG2	21:AU:16:ARG:HE	2.14	0.60
13:AM:69:ARG:HD2	30:CF:143:ASP:OD1	2.02	0.60
13:AM:71:GLU:O	13:AM:74:MET:CB	2.50	0.60
16:AP:50:THR:O	16:AP:51:ARG:C	2.44	0.60
19:AS:43:MET:HA	19:AS:46:LEU:HD12	1.84	0.60
21:AU:33:ARG:NH2	21:AU:34:ARG:HD2	2.16	0.60
22:AV:69:G:C2'	22:AV:70:G:H5'	2.32	0.60
1:BA:17:U:H2'	1:BA:18:C:C6	2.36	0.60
1:BA:646:G:H2'	1:BA:647:C:O4'	2.02	0.60
1:BA:1060:U:C5	3:BC:1:GLY:HA3	2.36	0.60
1:BA:1204:A:H8	1:BA:1204:A:O5'	1.85	0.60
1:BA:1218:C:H2'	1:BA:1219:A:C8	2.37	0.60
1:BA:1490:U:C2'	1:BA:1491:G:H5'	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:123:MET:HE3	4:BD:145:ARG:HB3	1.84	0.60
4:BD:190:LEU:H	4:BD:190:LEU:HD12	1.67	0.60
6:BF:6:ILE:HG22	6:BF:7:VAL:N	2.17	0.60
9:BI:28:VAL:HB	9:BI:63:TYR:HD2	1.67	0.60
10:BJ:78:GLU:O	10:BJ:78:GLU:HG3	2.02	0.60
10:BJ:87:LEU:C	10:BJ:87:LEU:HD22	2.25	0.60
13:BM:25:GLY:O	13:BM:27:THR:N	2.35	0.60
15:BO:75:ALA:C	15:BO:77:TYR:N	2.56	0.60
16:BP:23:ASP:O	16:BP:26:ASN:ND2	2.34	0.60
19:BS:63:ASP:HB3	19:BS:64:GLU:CD	2.26	0.60
20:BT:82:ILE:HD12	20:BT:86:ALA:HB3	1.84	0.60
25:CA:117:G:C6	25:CA:119:A:N6	2.70	0.60
25:CA:998:C:H3'	60:CA:3360:HOH:O	2.00	0.60
25:CA:2207:C:H2'	25:CA:2208:C:C6	2.37	0.60
25:CA:2436:G:N3	25:CA:2598:A:H2	1.99	0.60
31:CG:123:GLU:CD	31:CG:124:CYS:N	2.60	0.60
25:DA:45:G:H5"	25:DA:46:G:OP1	2.00	0.60
25:DA:55:G:C2'	25:DA:56:A:H5'	2.32	0.60
25:DA:158:U:H2'	25:DA:159:G:H5'	1.82	0.60
25:DA:295:G:C2	25:DA:296:U:C6	2.90	0.60
25:DA:934:U:H2'	25:DA:935:C:C6	2.36	0.60
25:DA:1455:G:OP2	60:DA:3417:HOH:O	2.17	0.60
25:DA:2333:A:H5'	25:DA:2335:A:H1'	1.83	0.60
56:DB:110:C:H2'	56:DB:111:U:C6	2.37	0.60
44:DT:22:THR:HA	44:DT:25:GLU:HG2	1.83	0.60
1:AA:380:G:N2	1:AA:384:G:C5	2.70	0.60
1:AA:451:A:C2	1:AA:480:U:C4	2.90	0.60
1:AA:632:U:H2'	1:AA:633:G:OP1	2.02	0.60
1:AA:1306:A:N7	1:AA:1307:U:C5	2.70	0.60
1:AA:1320:C:OP1	19:AS:69:LYS:HG3	2.01	0.60
1:AA:1443:C:C4	1:AA:1444:U:C5	2.89	0.60
5:AE:81:GLN:N	5:AE:146:MET:HE1	2.16	0.60
5:AE:99:SER:O	5:AE:100:GLU:C	2.44	0.60
14:AN:43:ASN:HA	14:AN:45:VAL:HG22	1.82	0.60
14:AN:51:LEU:HD23	14:AN:51:LEU:N	2.17	0.60
20:AT:53:MET:O	20:AT:56:ILE:HG22	2.02	0.60
1:BA:465:A:C6	1:BA:466:A:C6	2.90	0.60
1:BA:484:G:C5	1:BA:486:U:H1'	2.36	0.60
1:BA:1422:G:C2	1:BA:1423:G:C8	2.90	0.60
2:BB:99:MET:O	2:BB:103:TRP:HB2	2.02	0.60
4:BD:18:LEU:HD22	4:BD:63:ILE:HG13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BI:119:LYS:O	9:BI:120:ALA:HB3	2.02	0.60
10:BJ:52:LEU:HB2	14:BN:81:ARG:HD2	1.82	0.60
17:BQ:11:VAL:HA	17:BQ:22:VAL:HG13	1.84	0.60
21:BU:3:ILE:N	21:BU:18:PHE:CE1	2.70	0.60
22:BV:26:A:H2'	22:BV:27:G:H5'	1.82	0.60
25:CA:157:C:H2'	25:CA:158:U:O4'	2.02	0.60
25:CA:1502:A:H2'	25:CA:1503:A:O4'	2.01	0.60
32:CH:27:ARG:O	32:CH:27:ARG:HG2	2.02	0.60
35:CK:70:ARG:HD3	35:CK:76:VAL:HG22	1.84	0.60
41:CQ:23:TYR:O	41:CQ:24:TYR:HB2	2.01	0.60
42:CR:64:VAL:O	42:CR:65:ALA:HB2	2.02	0.60
49:CY:5:GLU:C	49:CY:7:ARG:N	2.56	0.60
25:DA:483:A:O3'	45:DU:47:PRO:HD3	2.01	0.60
25:DA:1083:U:O2	25:DA:1086:A:N1	2.35	0.60
25:DA:1190:G:OP1	36:DL:32:GLY:HA2	2.01	0.60
37:DM:47:GLU:O	37:DM:50:ARG:HB3	2.02	0.60
40:DP:21:PRO:HA	40:DP:46:VAL:CG1	2.32	0.60
43:DS:20:VAL:HG21	43:DS:43:ALA:HB1	1.84	0.60
44:DT:2:ILE:HA	44:DT:3:ARG:HB2	1.83	0.60
44:DT:39:THR:HG23	44:DT:41:ALA:H	1.66	0.60
57:DW:10:ARG:HH11	57:DW:10:ARG:HG3	1.67	0.60
1:AA:713:G:H2'	1:AA:714:G:C8	2.37	0.60
1:AA:955:U:C4	1:AA:956:U:C4	2.90	0.60
1:AA:1138:G:N7	1:AA:1140:C:O4'	2.35	0.60
1:AA:1158:C:N4	1:AA:1160:G:C4	2.70	0.60
1:AA:1539:C:C5'	21:AU:17:ARG:HG3	2.30	0.60
3:AC:152:VAL:HG23	3:AC:156:LEU:CD2	2.31	0.60
6:AF:3:HIS:O	6:AF:4:TYR:CG	2.54	0.60
10:AJ:26:VAL:HG12	10:AJ:30:LYS:HD3	1.84	0.60
17:AQ:62:GLU:HB2	17:AQ:72:TRP:CH2	2.37	0.60
1:BA:229:U:H2'	1:BA:230:G:O4'	2.02	0.60
1:BA:934:C:C6	1:BA:1344:C:C6	2.90	0.60
1:BA:1534:A:H4'	1:BA:1535:C:OP1	2.02	0.60
2:BB:53:LEU:HD12	2:BB:219:THR:HG21	1.84	0.60
7:BG:34:LYS:HB2	7:BG:37:THR:CG2	2.32	0.60
10:BJ:67:ILE:HG23	14:BN:95:GLY:O	2.01	0.60
10:BJ:84:VAL:O	10:BJ:88:MET:HG2	2.01	0.60
25:CA:1055:G:N3	25:CA:1055:G:H2'	2.17	0.60
25:CA:2516:A:N6	25:CA:2517:C:N4	2.50	0.60
28:CD:189:VAL:O	28:CD:189:VAL:HG23	2.02	0.60
30:CF:129:MET:HG3	30:CF:129:MET:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CP:21:PRO:HD3	40:CP:49:ILE:HD12	1.82	0.60
25:DA:247:G:H4'	25:DA:386:G:C5	2.37	0.60
25:DA:419:U:OP1	60:DA:3232:HOH:O	2.16	0.60
25:DA:484:C:H2'	25:DA:485:C:C6	2.37	0.60
25:DA:634:C:H2'	25:DA:635:C:C6	2.37	0.60
25:DA:1494:A:N3	25:DA:1495:A:C8	2.69	0.60
25:DA:1524:G:H8	25:DA:1524:G:O5'	1.84	0.60
25:DA:2216:G:H2'	25:DA:2217:G:H8	1.67	0.60
25:DA:2703:C:N3	25:DA:2704:C:C5	2.70	0.60
30:DF:30:VAL:CG2	30:DF:95:MET:SD	2.90	0.60
31:DG:119:GLY:O	31:DG:120:ILE:HD13	2.02	0.60
35:DK:79:PHE:CD2	40:DP:69:VAL:HG13	2.37	0.60
38:DN:112:TYR:CG	51:D0:54:ILE:HD11	2.37	0.60
44:DT:14:PRO:HA	44:DT:32:LEU:HB3	1.84	0.60
48:DX:53:LYS:O	48:DX:56:ARG:N	2.35	0.60
1:AA:243:A:C2	1:AA:246:A:C8	2.90	0.59
1:AA:270:A:N7	1:AA:271:C:C4	2.70	0.59
1:AA:418:C:O2'	1:AA:419:C:H5'	2.02	0.59
1:AA:624:C:H2'	1:AA:625:U:O5'	2.02	0.59
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.17	0.59
1:AA:1213:A:N7	1:AA:1215:G:C5	2.70	0.59
1:AA:1285:A:H5'	1:AA:1286:U:O4	2.01	0.59
3:AC:71:ARG:N	3:AC:72:PRO:CD	2.65	0.59
6:AF:53:LYS:O	6:AF:54:LEU:CB	2.47	0.59
11:AK:80:ASN:HB3	11:AK:105:ARG:CB	2.31	0.59
14:AN:78:GLY:C	14:AN:79:LEU:HG	2.27	0.59
17:AQ:11:VAL:O	17:AQ:12:VAL:HG12	2.02	0.59
17:AQ:49:ASN:O	17:AQ:51:GLU:N	2.35	0.59
22:AV:17:C:O3'	22:AV:18:G:C4'	2.50	0.59
1:BA:341:C:O2	1:BA:349:A:C2	2.55	0.59
1:BA:1092:A:N6	1:BA:1093:A:C6	2.70	0.59
1:BA:1101:A:H1'	1:BA:1102:A:O4'	2.02	0.59
1:BA:1250:A:C8	1:BA:1287:A:N7	2.70	0.59
1:BA:1444:U:C2'	1:BA:1445:U:O5'	2.50	0.59
6:BF:18:VAL:HA	6:BF:21:MET:HE2	1.84	0.59
10:BJ:67:ILE:HG12	14:BN:96:LEU:HA	1.83	0.59
17:BQ:11:VAL:HG23	17:BQ:56:ASP:O	2.01	0.59
21:BU:13:VAL:O	21:BU:15:LEU:CD1	2.50	0.59
25:CA:1306:C:H2'	25:CA:1306:C:O2	2.01	0.59
25:CA:2343:U:H2'	25:CA:2344:U:C6	2.37	0.59
25:CA:2346:A:H3'	25:CA:2347:C:H5"	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2480:C:C2'	25:CA:2481:G:H5'	2.32	0.59
25:CA:2506:U:C2'	25:CA:2507:C:H5'	2.32	0.59
25:CA:2549:G:N2	25:CA:2560:A:C4	2.69	0.59
25:CA:2550:G:H2'	25:CA:2551:C:H5'	1.84	0.59
27:CC:16:VAL:N	27:CC:203:VAL:HG22	2.16	0.59
30:CF:16:MET:HE1	30:CF:21:TYR:O	2.02	0.59
30:CF:107:VAL:HG12	30:CF:108:PRO:HD3	1.83	0.59
30:CF:116:LEU:HD23	30:CF:175:PRO:HB2	1.82	0.59
32:CH:117:LEU:HD12	32:CH:118:PRO:HD2	1.83	0.59
33:CI:125:THR:HG22	33:CI:126:ARG:N	2.15	0.59
36:CL:85:VAL:HG11	36:CL:95:LEU:HD23	1.84	0.59
25:DA:141:G:H3'	25:DA:142:A:C8	2.36	0.59
25:DA:686:U:OP2	60:DA:3726:HOH:O	2.16	0.59
25:DA:878:A:N6	25:DA:900:A:C8	2.69	0.59
25:DA:1178:C:C3'	25:DA:1179:G:C8	2.85	0.59
25:DA:1178:C:C2'	25:DA:1179:G:C8	2.85	0.59
25:DA:1588:G:N1	25:DA:1589:U:C4	2.70	0.59
30:DF:3:LEU:HD23	30:DF:3:LEU:H	1.67	0.59
32:DH:40:THR:O	32:DH:41:LYS:C	2.44	0.59
41:DQ:67:ALA:HB2	41:DQ:98:ALA:HB1	1.83	0.59
45:DU:6:ARG:O	45:DU:24:VAL:HB	2.02	0.59
1:AA:208:U:H5	1:AA:210:C:C5	2.21	0.59
1:AA:721:G:C6	1:AA:733:G:C2	2.90	0.59
2:AB:14:HIS:CB	2:AB:208:ALA:HB2	2.32	0.59
5:AE:150:GLU:O	5:AE:153:ALA:HB3	2.02	0.59
6:AF:70:VAL:HA	6:AF:73:GLU:CG	2.32	0.59
6:AF:70:VAL:HA	6:AF:73:GLU:HG3	1.84	0.59
12:AL:2:THR:HG22	12:AL:4:ASN:CB	2.32	0.59
13:AM:3:ILE:HD11	13:AM:9:PRO:HG3	1.83	0.59
1:BA:78:A:N6	1:BA:79:G:C6	2.70	0.59
1:BA:376:G:C4	1:BA:377:G:C8	2.89	0.59
1:BA:678:U:O2'	1:BA:679:C:H5'	2.03	0.59
2:BB:118:THR:O	2:BB:119:GLN:CB	2.49	0.59
3:BC:76:ILE:CA	3:BC:83:VAL:HG23	2.32	0.59
6:BF:19:PRO:HA	6:BF:22:ILE:CG1	2.32	0.59
16:BP:77:GLU:C	16:BP:79:ASN:H	2.08	0.59
16:BP:79:ASN:ND2	16:BP:82:ALA:HB3	2.17	0.59
21:BU:13:VAL:HG12	21:BU:15:LEU:HD23	1.82	0.59
25:CA:1064:C:H2'	25:CA:1064:C:O2	2.02	0.59
25:CA:1606:C:O2'	25:CA:1607:C:H5'	2.02	0.59
27:CC:156:SER:O	27:CC:194:VAL:HG11	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CD:39:ASP:OD2	28:CD:40:LEU:HB2	2.01	0.59
28:CD:55:LYS:HG2	28:CD:56:LYS:N	2.16	0.59
30:CF:91:ARG:HA	30:CF:95:MET:HE2	1.84	0.59
32:CH:119:ASN:N	32:CH:120:GLY:CA	2.65	0.59
39:CO:76:LYS:HE3	39:CO:80:GLU:OE2	2.02	0.59
25:DA:564:C:O4'	41:DQ:36:GLN:NE2	2.34	0.59
25:DA:570:G:H2'	25:DA:2030:A:N7	2.16	0.59
25:DA:1374:G:C2	25:DA:1375:U:C2	2.90	0.59
25:DA:1754:A:C6	25:DA:1755:A:C6	2.90	0.59
25:DA:2119:A:N6	25:DA:2167:U:H1'	2.17	0.59
28:DD:104:VAL:HG23	28:DD:105:LYS:H	1.66	0.59
40:DP:31:VAL:CG2	40:DP:32:VAL:N	2.65	0.59
1:AA:170:U:O2'	1:AA:171:A:C5'	2.50	0.59
1:AA:196:A:N3	1:AA:222:C:H1'	2.17	0.59
1:AA:373:A:C2	1:AA:482:A:C6	2.91	0.59
1:AA:982:U:H4'	1:AA:983:A:O5'	2.02	0.59
1:AA:1202:U:C2'	1:AA:1203:C:H5'	2.32	0.59
2:AB:15:PHE:O	2:AB:40:ILE:HD12	2.01	0.59
2:AB:86:CYS:HB2	2:AB:88:GLN:CD	2.26	0.59
2:AB:106:VAL:H	2:AB:108:GLN:HG2	1.67	0.59
2:AB:202:ASN:OD1	2:AB:202:ASN:C	2.45	0.59
3:AC:7:ASN:OD1	3:AC:7:ASN:C	2.46	0.59
4:AD:28:ASP:O	4:AD:30:LYS:HD3	2.02	0.59
12:AL:2:THR:CG2	12:AL:4:ASN:HB2	2.31	0.59
21:AU:24:LYS:CD	21:AU:25:ALA:H	2.15	0.59
22:AV:21:A:C5	22:AV:48:C:C5	2.91	0.59
1:BA:98:A:H2'	1:BA:99:C:O4'	2.03	0.59
1:BA:110:C:C4	1:BA:111:G:C5	2.90	0.59
1:BA:181:A:N6	1:BA:194:C:H2'	2.16	0.59
1:BA:1358:U:OP1	14:BN:75:ARG:HB2	2.02	0.59
2:BB:90:PHE:O	2:BB:90:PHE:CD2	2.55	0.59
3:BC:52:SER:O	3:BC:53:ARG:CB	2.50	0.59
4:BD:86:GLY:HA3	4:BD:196:GLU:HB3	1.84	0.59
4:BD:137:SER:O	4:BD:140:ASP:HB2	2.02	0.59
4:BD:172:VAL:O	4:BD:173:ASP:HB3	2.01	0.59
6:BF:71:ILE:CG2	6:BF:72:ASP:N	2.66	0.59
11:BK:61:ALA:O	11:BK:64:VAL:HG13	2.02	0.59
20:BT:43:LYS:HE2	20:BT:85:LEU:O	2.02	0.59
25:CA:870:U:C2'	25:CA:871:U:H5'	2.33	0.59
25:CA:1203:U:C4	25:CA:1204:A:C5	2.90	0.59
25:CA:1742:U:H2'	25:CA:1743:G:O5'	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2674:G:H4'	35:CK:30:ARG:HD2	1.83	0.59
26:CB:73:A:C4	26:CB:104:A:C2	2.90	0.59
29:CE:18:THR:CG2	29:CE:19:PHE:CE2	2.85	0.59
30:CF:105:ILE:C	30:CF:108:PRO:HD2	2.27	0.59
33:CI:74:PRO:HG2	33:CI:77:VAL:CG1	2.32	0.59
45:CU:35:VAL:O	45:CU:36:GLU:C	2.45	0.59
25:DA:1096:A:C6	25:DA:1097:U:C5	2.90	0.59
25:DA:1310:G:H1'	25:DA:1611:C:H5'	1.84	0.59
25:DA:1609:A:O2'	25:DA:1610:A:H5'	2.03	0.59
25:DA:1883:U:H2'	25:DA:1884:G:O5'	2.01	0.59
25:DA:2337:G:C5	25:DA:2338:C:C5	2.89	0.59
25:DA:2345:G:C6	25:DA:2381:A:C6	2.91	0.59
30:DF:56:LEU:HD21	30:DF:151:LEU:HD22	1.85	0.59
31:DG:42:VAL:HA	31:DG:43:LYS:HE2	1.83	0.59
36:DL:57:LEU:HA	36:DL:60:ARG:HD2	1.84	0.59
39:DO:56:LYS:HG3	39:DO:57:ALA:N	2.16	0.59
44:DT:58:VAL:HG22	44:DT:85:VAL:HG22	1.84	0.59
1:AA:482:A:C2	1:AA:483:C:H1'	2.38	0.59
1:AA:657:U:O2	1:AA:657:U:H2'	2.02	0.59
1:AA:749:A:C2	1:AA:750:C:C2	2.91	0.59
2:AB:18:GLN:HG2	2:AB:189:ASN:HD22	1.68	0.59
2:AB:81:ASP:O	2:AB:82:ALA:C	2.45	0.59
6:AF:51:ILE:HG12	6:AF:51:ILE:O	2.02	0.59
8:AH:35:ILE:HD11	8:AH:125:ILE:HG21	1.82	0.59
13:AM:21:ILE:CB	13:AM:24:VAL:HG22	2.33	0.59
1:BA:820:U:H4'	1:BA:821:G:OP2	2.02	0.59
1:BA:979:C:C5	1:BA:980:C:C5	2.90	0.59
1:BA:1057:G:O3'	3:BC:196:GLY:HA3	2.02	0.59
1:BA:1060:U:C4	3:BC:1:GLY:N	2.61	0.59
1:BA:1368:A:H2'	1:BA:1369:C:H6	1.66	0.59
11:BK:19:VAL:HG13	11:BK:82:GLU:O	2.02	0.59
14:BN:10:VAL:O	14:BN:11:LYS:C	2.45	0.59
17:BQ:47:ASP:N	17:BQ:47:ASP:OD2	2.35	0.59
25:CA:626:A:H2'	36:CL:78:ARG:NH1	2.17	0.59
25:CA:771:G:C2'	25:CA:772:C:H5'	2.33	0.59
25:CA:1141:U:H4'	25:CA:1142:A:O4'	2.03	0.59
25:CA:1434:A:HO2'	25:CA:1435:G:H8	1.43	0.59
25:CA:2133:G:C2'	25:CA:2158:A:H61	2.14	0.59
25:CA:2171:A:O2'	25:CA:2172:U:H5'	2.02	0.59
25:CA:2799:A:O2'	25:CA:2800:A:H5'	2.01	0.59
30:CF:90:LEU:HB3	30:CF:95:MET:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CL:85:VAL:CG1	36:CL:94:THR:HG22	2.31	0.59
38:CN:24:MET:HE1	38:CN:40:LYS:HB3	1.85	0.59
42:CR:51:VAL:HG23	42:CR:52:PRO:HD2	1.83	0.59
49:CY:23:ARG:O	49:CY:24:GLU:O	2.20	0.59
25:DA:22:C:C2'	25:DA:23:G:O5'	2.50	0.59
25:DA:328:U:O3'	45:DU:65:GLN:HG3	2.02	0.59
25:DA:664:G:H4'	25:DA:941:A:OP1	2.01	0.59
25:DA:897:C:H2'	25:DA:898:C:C6	2.37	0.59
25:DA:976:G:OP2	60:DA:3594:HOH:O	2.17	0.59
25:DA:1105:U:H2'	25:DA:1106:G:C8	2.37	0.59
25:DA:1199:U:H2'	25:DA:1200:C:C6	2.38	0.59
25:DA:1483:G:C4	25:DA:1484:U:C5	2.90	0.59
25:DA:1856:U:O2'	25:DA:1857:G:H5'	2.02	0.59
29:DE:200:LEU:N	29:DE:200:LEU:HD13	2.18	0.59
32:DH:11:ASN:C	32:DH:12:LEU:HD23	2.26	0.59
43:DS:43:ALA:O	43:DS:47:VAL:HG12	2.02	0.59
49:DY:10:SER:C	49:DY:14:LEU:HD12	2.28	0.59
50:DZ:9:THR:HG22	50:DZ:53:MET:CA	2.32	0.59
1:AA:513:C:O2'	1:AA:514:C:O5'	2.21	0.59
1:AA:1286:U:H5'	1:AA:1287:A:OP2	2.02	0.59
1:AA:1293:C:H5'	1:AA:1294:G:OP2	2.03	0.59
2:AB:151:LYS:HG3	2:AB:152:ASP:O	2.02	0.59
2:AB:185:ILE:O	2:AB:185:ILE:HG13	2.02	0.59
10:AJ:52:LEU:HB3	14:AN:81:ARG:NE	2.18	0.59
10:AJ:52:LEU:HD22	10:AJ:62:ARG:HG2	1.83	0.59
12:AL:43:LYS:CB	12:AL:44:PRO:CD	2.80	0.59
15:AO:86:LEU:CD2	15:AO:86:LEU:N	2.65	0.59
22:AV:47:U:H2'	22:AV:47:U:O2	2.01	0.59
1:BA:73:C:H1'	1:BA:74:A:H5'	1.85	0.59
1:BA:557:G:H3'	1:BA:558:G:C8	2.38	0.59
1:BA:1262:C:C5	1:BA:1263:C:C5	2.90	0.59
1:BA:1471:U:C2'	1:BA:1472:U:H5'	2.32	0.59
1:BA:1503:A:C8	1:BA:1531:A:H1'	2.38	0.59
2:BB:84:LEU:O	2:BB:84:LEU:HG	2.03	0.59
2:BB:99:MET:HB3	2:BB:106:VAL:HG21	1.84	0.59
4:BD:173:ASP:O	4:BD:174:ALA:HB3	2.03	0.59
5:BE:149:PRO:HB3	8:BH:98:LEU:HD21	1.85	0.59
8:BH:31:LEU:O	8:BH:31:LEU:HD12	2.01	0.59
10:BJ:22:THR:HA	10:BJ:25:ILE:HG21	1.84	0.59
10:BJ:58:ASN:O	10:BJ:60:ASP:N	2.34	0.59
20:BT:5:SER:OG	20:BT:6:ALA:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:102:U:C5	49:CY:2:LYS:HD2	2.38	0.59
25:CA:125:A:OP2	53:C2:19:ARG:HD3	2.02	0.59
25:CA:1060:U:OP1	25:CA:1062:G:H4'	2.03	0.59
25:CA:1585:C:H2'	25:CA:1586:A:C5'	2.32	0.59
25:CA:2102:G:N2	25:CA:2188:U:H1'	2.16	0.59
28:CD:99:GLU:HA	28:CD:99:GLU:OE1	2.01	0.59
32:CH:32:PRO:O	32:CH:33:GLN:HB2	2.02	0.59
32:CH:46:PHE:CD2	32:CH:46:PHE:C	2.80	0.59
33:CI:37:PHE:CD1	33:CI:41:PHE:HB2	2.36	0.59
37:CM:54:THR:O	37:CM:55:ARG:C	2.46	0.59
25:DA:537:G:N1	25:DA:555:G:C2	2.70	0.59
25:DA:637:A:H4'	25:DA:638:G:O5'	2.02	0.59
25:DA:1063:G:N3	33:DI:89:SER:OG	2.35	0.59
25:DA:1436:G:C2	25:DA:1557:C:O2	2.56	0.59
25:DA:1483:G:C5	25:DA:1484:U:C5	2.90	0.59
25:DA:1556:C:C2'	25:DA:1557:C:H5'	2.32	0.59
25:DA:1712:U:C6	25:DA:1713:A:C8	2.90	0.59
25:DA:1867:G:C2'	25:DA:1868:C:H5'	2.32	0.59
25:DA:1971:U:H3'	25:DA:1971:U:C6	2.38	0.59
25:DA:2262:U:OP1	57:DW:37:ARG:NH2	2.36	0.59
25:DA:2383:G:H2'	25:DA:2384:U:C6	2.37	0.59
25:DA:2478:A:N3	25:DA:2529:G:H2'	2.17	0.59
32:DH:2:GLN:CB	32:DH:39:ALA:HB3	2.33	0.59
39:DO:79:ALA:HB1	39:DO:113:ALA:CB	2.32	0.59
1:AA:115:G:H4'	1:AA:116:A:O5'	2.01	0.59
1:AA:159:G:C5'	1:AA:159:G:H8	2.16	0.59
1:AA:198:G:C6	1:AA:220:G:C2	2.91	0.59
1:AA:481:G:H2'	1:AA:483:C:N4	2.18	0.59
1:AA:572:A:H5'	1:AA:573:A:OP2	2.03	0.59
1:AA:1268:G:C6	1:AA:1269:A:N6	2.71	0.59
2:AB:20:ARG:O	2:AB:22:TRP:HD1	1.84	0.59
2:AB:70:GLY:HA2	2:AB:163:ILE:CG2	2.32	0.59
3:AC:154:GLY:HA2	3:AC:163:ARG:H	1.68	0.59
6:AF:60:VAL:HG12	6:AF:60:VAL:O	2.02	0.59
7:AG:145:GLU:O	7:AG:148:LYS:HB3	2.02	0.59
10:AJ:80:THR:HG22	10:AJ:82:LYS:H	1.67	0.59
14:AN:49:GLN:OE1	14:AN:49:GLN:HA	2.01	0.59
17:AQ:3:LYS:O	17:AQ:3:LYS:HD2	2.03	0.59
19:AS:50:VAL:HG22	19:AS:70:LEU:HD12	1.84	0.59
24:AY:33:ALA:O	24:AY:34:SER:CB	2.50	0.59
1:BA:92:U:H5'	1:BA:93:U:OP2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:152:A:N6	1:BA:170:U:C2	2.71	0.59
1:BA:206:C:H2'	1:BA:207:C:H4'	1.84	0.59
1:BA:969:A:C5	1:BA:970:C:C5	2.91	0.59
1:BA:1355:G:C4	1:BA:1368:A:C2	2.91	0.59
1:BA:1499:A:C2'	1:BA:1500:A:O5'	2.49	0.59
2:BB:169:HIS:HA	2:BB:172:ILE:HD12	1.84	0.59
5:BE:80:LEU:HA	5:BE:146:MET:HE1	1.84	0.59
11:BK:13:LYS:C	11:BK:13:LYS:HD2	2.27	0.59
19:BS:55:GLN:CD	19:BS:56:HIS:N	2.60	0.59
22:BV:38:A:H2'	22:BV:39:U:O5'	2.03	0.59
25:CA:47:C:C2'	25:CA:48:G:H5'	2.32	0.59
25:CA:624:C:O2'	25:CA:657:U:OP1	2.19	0.59
25:CA:735:A:C8	25:CA:736:C:C5	2.91	0.59
25:CA:841:G:H2'	25:CA:842:U:C6	2.38	0.59
25:CA:971:G:OP1	25:CA:974:G:O2'	2.17	0.59
25:CA:2256:G:C2'	25:CA:2257:U:O5'	2.50	0.59
25:CA:2286:G:C8	25:CA:2286:G:H5'	2.38	0.59
27:CC:196:ASN:OD1	27:CC:196:ASN:C	2.45	0.59
32:CH:120:GLY:O	32:CH:121:VAL:C	2.46	0.59
37:CM:31:PHE:CE2	37:CM:110:GLU:HB2	2.38	0.59
38:CN:21:PHE:CE2	38:CN:24:MET:CE	2.85	0.59
52:C1:31:GLU:O	52:C1:32:LYS:C	2.45	0.59
25:DA:56:A:C2'	25:DA:57:C:O5'	2.50	0.59
25:DA:383:C:N3	25:DA:391:A:N6	2.49	0.59
25:DA:540:C:O2'	25:DA:541:A:H5'	2.02	0.59
25:DA:659:G:H4'	29:DE:95:LYS:HB3	1.84	0.59
25:DA:673:C:H5"	29:DE:76:PRO:HD2	1.85	0.59
25:DA:920:A:H2'	25:DA:921:C:H6	1.66	0.59
25:DA:947:A:HO2'	25:DA:984:A:H2	0.77	0.59
25:DA:1219:U:O2'	25:DA:1220:G:H5'	2.02	0.59
25:DA:2793:C:O2	25:DA:2794:C:C5	2.56	0.59
27:DC:175:LEU:HD12	27:DC:179:GLU:HB3	1.83	0.59
32:DH:1:MET:HG3	32:DH:2:GLN:N	2.18	0.59
37:DM:107:GLY:C	37:DM:108:VAL:HG22	2.28	0.59
40:DP:57:ALA:CB	40:DP:73:PHE:O	2.51	0.59
45:DU:72:PHE:CE2	45:DU:74:ALA:HA	2.37	0.59
1:AA:390:U:C2'	1:AA:391:G:O5'	2.51	0.59
1:AA:463:U:H2'	1:AA:463:U:O2	2.01	0.59
1:AA:723:U:H5'	1:AA:724:G:O5'	2.02	0.59
1:AA:1040:U:H2'	1:AA:1041:G:C8	2.38	0.59
1:AA:1141:C:C2	1:AA:1142:G:C8	2.91	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:125:PHE:CD2	2:AB:125:PHE:N	2.70	0.59
4:AD:29:THR:C	4:AD:30:LYS:HD3	2.27	0.59
4:AD:138:PRO:O	4:AD:139:ASN:HB2	2.01	0.59
8:AH:82:LEU:HD22	8:AH:82:LEU:C	2.27	0.59
11:AK:52:ARG:O	11:AK:55:ARG:CG	2.51	0.59
24:AY:145:LYS:H	24:AY:145:LYS:HE2	1.68	0.59
1:BA:25:C:C4	1:BA:558:G:N2	2.71	0.59
1:BA:693:G:C2	23:BX:13:A:N6	2.71	0.59
1:BA:738:C:C2	1:BA:739:C:C5	2.91	0.59
1:BA:1113:C:O2	1:BA:1114:C:C6	2.56	0.59
2:BB:49:PHE:HD1	2:BB:53:LEU:HD23	1.68	0.59
4:BD:145:ARG:CZ	4:BD:147:LYS:HE3	2.33	0.59
11:BK:96:ILE:HD12	11:BK:96:ILE:C	2.27	0.59
13:BM:79:LEU:CD2	13:BM:84:CYS:SG	2.91	0.59
15:BO:63:ARG:NH1	15:BO:87:ARG:NH2	2.50	0.59
21:BU:19:LYS:C	21:BU:21:SER:H	2.10	0.59
22:BV:45:U:H5"	22:BV:46:G:OP2	2.03	0.59
25:CA:528:A:H2	25:CA:2043:C:H5'	1.66	0.59
25:CA:580:U:H2'	25:CA:581:C:C6	2.38	0.59
25:CA:1055:G:H3'	25:CA:1056:G:C8	2.38	0.59
25:CA:1059:G:C6	25:CA:1080:A:C2	2.90	0.59
25:CA:2112:G:N3	25:CA:2112:G:H2'	2.17	0.59
29:CE:152:GLU:HA	29:CE:152:GLU:OE1	2.02	0.59
31:CG:126:THR:HG22	31:CG:127:GLN:N	2.18	0.59
36:CL:110:VAL:N	36:CL:111:ILE:HD12	2.17	0.59
40:CP:20:ARG:HB2	40:CP:21:PRO:HD2	1.83	0.59
41:CQ:9:ALA:O	41:CQ:10:ARG:C	2.45	0.59
25:DA:145:C:C4	25:DA:146:A:N7	2.71	0.59
25:DA:278:A:C2	25:DA:362:A:H1'	2.37	0.59
25:DA:284:U:O2	25:DA:284:U:H2'	2.03	0.59
25:DA:1018:U:C4	25:DA:1019:U:C5	2.91	0.59
25:DA:1473:G:N2	25:DA:1519:G:C4	2.70	0.59
25:DA:1529:G:C6	25:DA:1543:G:N2	2.71	0.59
25:DA:1998:A:H2'	25:DA:1999:C:C6	2.36	0.59
25:DA:2425:A:H5"	25:DA:2427:C:O4'	2.03	0.59
25:DA:2861:U:O2'	25:DA:2862:G:H5'	2.02	0.59
28:DD:56:LYS:HB2	28:DD:59:ARG:HB2	1.85	0.59
28:DD:62:LYS:HB2	28:DD:63:PRO:HD3	1.84	0.59
30:DF:21:TYR:HH	30:DF:164:GLU:CD	2.11	0.59
30:DF:110:ILE:HB	30:DF:113:PHE:HB2	1.83	0.59
41:DQ:97:ILE:HG22	41:DQ:105:PHE:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DV:51:GLN:CD	46:DV:51:GLN:C	2.70	0.59
1:AA:149:A:H1'	1:AA:1446:A:C2	2.37	0.59
1:AA:222:C:O2	1:AA:222:C:H2'	2.02	0.59
1:AA:256:U:H2'	1:AA:257:G:C8	2.37	0.59
2:AB:69:VAL:HG22	2:AB:91:VAL:HB	1.85	0.59
3:AC:6:PRO:HD2	3:AC:183:TYR:CD2	2.38	0.59
5:AE:108:GLY:HA2	5:AE:111:ARG:CB	2.33	0.59
7:AG:121:ASN:O	7:AG:124:SER:HB3	2.02	0.59
9:AI:62:LEU:N	9:AI:62:LEU:CD2	2.65	0.59
12:AL:98:ARG:HA	12:AL:103:CYS:SG	2.42	0.59
14:AN:4:SER:O	14:AN:8:ARG:HG3	2.03	0.59
17:AQ:21:VAL:HG22	17:AQ:22:VAL:N	2.18	0.59
19:AS:4:LEU:O	19:AS:5:LYS:CG	2.51	0.59
24:AY:141:LYS:O	24:AY:145:LYS:CE	2.51	0.59
1:BA:594:U:C2	1:BA:595:A:C8	2.91	0.59
1:BA:620:C:H1'	4:BD:131:ILE:HD13	1.84	0.59
1:BA:1268:G:O2'	1:BA:1269:A:H5'	2.02	0.59
1:BA:1323:G:H2'	1:BA:1324:A:H8	1.68	0.59
1:BA:1345:U:C2	1:BA:1377:A:C6	2.90	0.59
1:BA:1356:G:O2'	1:BA:1357:A:H5'	2.03	0.59
2:BB:111:LYS:HD3	2:BB:111:LYS:C	2.28	0.59
5:BE:152:VAL:HG23	5:BE:156:ARG:HB3	1.85	0.59
7:BG:11:ILE:HD13	7:BG:27:ASN:HD21	1.68	0.59
8:BH:16:GLY:O	8:BH:19:ALA:N	2.36	0.59
10:BJ:7:ARG:HD3	10:BJ:75:ASP:OD1	2.02	0.59
20:BT:79:THR:O	20:BT:80:ALA:C	2.44	0.59
25:CA:58:G:OP1	44:CT:78:SER:CB	2.51	0.59
25:CA:995:C:H5'	25:CA:995:C:H6	1.66	0.59
25:CA:2019:A:H2'	25:CA:2020:A:O5'	2.03	0.59
25:CA:2637:U:H2'	25:CA:2638:G:H5'	1.84	0.59
27:CC:158:GLY:N	27:CC:194:VAL:HG13	2.18	0.59
29:CE:178:VAL:HG13	29:CE:179:SER:N	2.17	0.59
36:CL:101:ILE:O	36:CL:105:ILE:HG13	2.03	0.59
37:CM:27:SER:O	37:CM:28:PHE:CD2	2.56	0.59
38:CN:2:ARG:CD	38:CN:2:ARG:C	2.75	0.59
38:CN:103:ARG:NH1	38:CN:110:MET:HE1	2.17	0.59
54:C3:8:GLY:O	54:C3:12:ARG:HG3	2.02	0.59
25:DA:121:G:H2'	25:DA:122:G:C8	2.38	0.59
25:DA:1268:A:C2	25:DA:2013:A:C4	2.91	0.59
25:DA:1404:C:O2	25:DA:1405:U:C6	2.56	0.59
25:DA:1520:U:C2'	25:DA:1521:G:H5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1738:G:HO2'	25:DA:1739:A:P	2.24	0.59
25:DA:2163:A:OP1	25:DA:2171:A:C8	2.56	0.59
31:DG:45:ALA:O	31:DG:46:ASP:CB	2.51	0.59
33:DI:74:PRO:HG2	33:DI:77:VAL:HG21	1.85	0.59
38:DN:49:GLU:N	38:DN:50:PRO:HD2	2.18	0.59
1:AA:882:C:C2'	1:AA:883:C:O5'	2.50	0.59
1:AA:922:G:N1	1:AA:923:A:C2	2.71	0.59
1:AA:1145:A:C2'	1:AA:1146:A:OP2	2.49	0.59
1:AA:1333:A:C2'	1:AA:1334:G:O5'	2.50	0.59
2:AB:110:ILE:HD11	2:AB:150:ILE:HG12	1.85	0.59
2:AB:135:MET:SD	2:AB:135:MET:N	2.75	0.59
6:AF:16:GLU:CD	4:BD:190:LEU:O	2.46	0.59
8:AH:29:SER:O	8:AH:30:LYS:C	2.46	0.59
13:AM:74:MET:SD	30:CF:111:ARG:HD3	2.43	0.59
14:AN:73:PHE:CD1	14:AN:74:LEU:N	2.71	0.59
22:AV:33:U:H2'	22:AV:35:A:OP2	2.03	0.59
1:BA:283:U:H2'	1:BA:284:C:C6	2.38	0.59
1:BA:386:C:H2'	1:BA:387:U:H5'	1.83	0.59
1:BA:951:G:C2	1:BA:1231:G:C2	2.91	0.59
1:BA:1122:U:C2	1:BA:1123:U:C5	2.91	0.59
1:BA:1206:G:H4'	3:BC:191:THR:O	2.02	0.59
1:BA:1267:C:H2'	1:BA:1268:G:H5'	1.84	0.59
1:BA:1269:A:N1	1:BA:1312:G:O2'	2.33	0.59
3:BC:153:SER:HB2	3:BC:164:THR:HG22	1.84	0.59
4:BD:57:LYS:HB2	4:BD:199:ILE:HD12	1.84	0.59
5:BE:21:SER:HB2	5:BE:30:PHE:CD2	2.38	0.59
7:BG:115:MET:O	7:BG:119:LEU:HB2	2.02	0.59
11:BK:80:ASN:HB3	11:BK:105:ARG:HG2	1.84	0.59
11:BK:124:LYS:CE	11:BK:125:LYS:HA	2.32	0.59
13:BM:38:ILE:HG13	13:BM:55:LEU:HD11	1.83	0.59
15:BO:75:ALA:O	15:BO:76:ARG:C	2.44	0.59
25:CA:946:C:P	60:CA:3348:HOH:O	2.57	0.59
25:CA:1182:G:H2'	25:CA:1183:U:O4'	2.01	0.59
25:CA:1251:C:OP2	41:CQ:5:ARG:HD2	2.02	0.59
25:CA:2307:G:C2	25:CA:2311:A:H2'	2.37	0.59
28:CD:103:ASP:O	28:CD:105:LYS:N	2.36	0.59
32:CH:10:ALA:O	32:CH:12:LEU:N	2.35	0.59
33:CI:28:GLY:O	33:CI:34:ILE:HD11	2.03	0.59
34:CJ:97:PRO:O	34:CJ:98:GLU:C	2.46	0.59
36:CL:127:VAL:HG11	36:CL:132:ARG:HB2	1.84	0.59
54:C3:44:ARG:N	54:C3:45:PRO:HD2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2703:C:C4	25:DA:2704:C:C5	2.91	0.59
25:DA:2742:G:C2'	25:DA:2743:U:H5'	2.33	0.59
28:DD:104:VAL:O	28:DD:105:LYS:HB2	2.01	0.59
32:DH:116:ARG:HD2	32:DH:133:GLN:CG	2.32	0.59
32:DH:116:ARG:CG	32:DH:133:GLN:HG3	2.31	0.59
33:DI:9:LYS:HB2	33:DI:55:PRO:HB3	1.83	0.59
39:DO:47:VAL:HG23	39:DO:48:LEU:N	2.17	0.59
42:DR:39:LEU:N	42:DR:39:LEU:CD1	2.65	0.59
43:DS:51:LEU:O	43:DS:55:ILE:HG13	2.02	0.59
1:AA:79:G:N2	1:AA:91:U:C4	2.71	0.59
1:AA:708:C:H2'	1:AA:709:U:H6	1.68	0.59
1:AA:718:A:C2'	1:AA:719:C:H5'	2.33	0.59
1:AA:1180:A:OP1	9:AI:104:THR:HG23	2.03	0.59
5:AE:108:GLY:O	5:AE:109:ALA:HB3	2.03	0.59
7:AG:119:LEU:CD2	7:AG:123:LEU:HD23	2.32	0.59
8:AH:13:ILE:O	8:AH:15:ASN:N	2.36	0.59
11:AK:15:VAL:O	11:AK:16:SER:OG	2.21	0.59
11:AK:126:ARG:HB2	21:AU:33:ARG:HD2	1.84	0.59
14:AN:15:LEU:O	14:AN:17:ASP:N	2.35	0.59
17:AQ:12:VAL:HG13	17:AQ:21:VAL:HG13	1.84	0.59
18:AR:39:VAL:HG13	18:AR:40:PRO:HD2	1.83	0.59
1:BA:107:G:O6	20:BT:9:ARG:HD3	2.03	0.59
1:BA:211:G:N3	1:BA:212:G:H1'	2.17	0.59
1:BA:735:C:H2'	1:BA:736:C:H6	1.68	0.59
1:BA:825:A:O2'	1:BA:826:C:H5'	2.03	0.59
1:BA:1122:U:C4	1:BA:1123:U:C5	2.91	0.59
1:BA:1514:G:O2'	1:BA:1515:G:H5'	2.03	0.59
2:BB:79:VAL:HA	2:BB:213:LEU:HD21	1.84	0.59
6:BF:49:TYR:HB2	6:BF:50:PRO:CD	2.33	0.59
18:BR:24:ASP:HB2	18:BR:27:THR:HB	1.84	0.59
20:BT:66:ILE:HG23	20:BT:67:HIS:N	2.18	0.59
21:BU:9:GLU:HG3	21:BU:10:PRO:HD3	1.84	0.59
25:CA:366:C:H2'	25:CA:367:G:O4'	2.03	0.59
25:CA:582:A:C2	25:CA:1259:G:C2	2.90	0.59
25:CA:1046:A:OP2	25:CA:1046:A:C4'	2.50	0.59
25:CA:1287:A:C5'	38:CN:103:ARG:HD2	2.27	0.59
25:CA:2133:G:HO2'	25:CA:2158:A:N6	2.00	0.59
29:CE:111:GLU:OE1	29:CE:111:GLU:CA	2.50	0.59
32:CH:41:LYS:HA	32:CH:44:ILE:HG12	1.85	0.59
35:CK:122:VAL:HG12	35:CK:122:VAL:OXT	2.03	0.59
36:CL:67:THR:HG22	36:CL:67:THR:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:C3:3:ILE:O	54:C3:63:TYR:HE2	1.86	0.59
25:DA:606:U:H4'	25:DA:658:U:H4'	1.83	0.59
25:DA:626:A:H2'	36:DL:78:ARG:NH1	2.18	0.59
25:DA:1057:A:C2	25:DA:1058:U:C5	2.90	0.59
25:DA:1415:U:H2'	25:DA:1415:U:O2	2.03	0.59
25:DA:2211:A:H1'	25:DA:2212:A:OP1	2.03	0.59
25:DA:2803:G:H2'	25:DA:2804:U:C6	2.38	0.59
56:DB:89:U:H5"	56:DB:89:U:O2	2.03	0.59
30:DF:151:LEU:HD12	30:DF:152:ASP:N	2.17	0.59
32:DH:62:LEU:HD23	32:DH:135:HIS:NE2	2.17	0.59
36:DL:68:SER:O	36:DL:69:ARG:HB2	2.03	0.59
37:DM:2:LEU:HB3	37:DM:68:PHE:CE1	2.38	0.59
43:DS:20:VAL:CG2	43:DS:43:ALA:CB	2.81	0.59
46:DV:9:ARG:CG	46:DV:41:GLU:HB3	2.33	0.59
46:DV:76:ASP:HB3	46:DV:90:ASP:HB2	1.84	0.59
49:DY:35:GLY:C	49:DY:36:GLN:CG	2.76	0.59
1:AA:36:C:OP1	12:AL:119:LYS:HE3	2.03	0.58
1:AA:194:C:C2'	1:AA:195:A:H5'	2.33	0.58
1:AA:208:U:C5	1:AA:210:C:C5	2.91	0.58
1:AA:386:C:C2'	1:AA:387:U:H5'	2.33	0.58
1:AA:634:C:H2'	1:AA:635:A:O4'	2.03	0.58
1:AA:833:G:C5	1:AA:834:U:C5	2.91	0.58
1:AA:882:C:H2'	1:AA:883:C:O5'	2.04	0.58
1:AA:1271:A:H5'	1:AA:1314:C:C5'	2.31	0.58
1:AA:1367:C:H5"	10:AJ:62:ARG:NH1	2.18	0.58
4:AD:112:GLU:O	4:AD:113:ALA:C	2.44	0.58
11:AK:81:LEU:CD2	11:AK:81:LEU:N	2.65	0.58
1:BA:66:A:C4'	1:BA:173:U:C5	2.86	0.58
1:BA:109:A:H4'	1:BA:110:C:OP2	2.03	0.58
1:BA:192:A:H2'	1:BA:193:C:H5'	1.85	0.58
1:BA:290:C:O2'	1:BA:291:U:H5'	2.02	0.58
1:BA:577:G:C8	1:BA:816:A:C6	2.91	0.58
1:BA:594:U:H3'	1:BA:595:A:H8	1.67	0.58
1:BA:1295:U:H2'	1:BA:1296:C:C6	2.38	0.58
1:BA:1431:A:C6	1:BA:1432:G:C6	2.91	0.58
2:BB:90:PHE:O	2:BB:149:GLY:HA3	2.03	0.58
3:BC:114:LEU:O	3:BC:117:ASP:N	2.36	0.58
5:BE:105:ILE:HD11	5:BE:123:LEU:CD2	2.32	0.58
6:BF:25:TYR:C	6:BF:27:ALA:N	2.60	0.58
8:BH:19:ALA:C	8:BH:21:LYS:H	2.11	0.58
10:BJ:66:GLU:CG	14:BN:99:ALA:HB2	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BL:76:HIS:O	12:BL:77:SER:CB	2.50	0.58
13:BM:7:ASN:ND2	13:BM:9:PRO:HG3	2.17	0.58
13:BM:77:LYS:HA	13:BM:80:MET:HE2	1.85	0.58
13:BM:85:TYR:CD2	13:BM:85:TYR:C	2.80	0.58
17:BQ:13:SER:O	17:BQ:20:ILE:HD12	2.02	0.58
25:CA:197:A:H62	25:CA:2430:A:H2'	1.67	0.58
25:CA:998:C:H2'	25:CA:999:U:O5'	2.03	0.58
25:CA:1120:G:C2'	25:CA:1121:C:H5'	2.33	0.58
41:CQ:23:TYR:O	41:CQ:24:TYR:HB3	2.03	0.58
42:CR:51:VAL:C	42:CR:52:PRO:O	2.43	0.58
42:CR:53:PHE:N	42:CR:53:PHE:CD1	2.69	0.58
47:CW:37:ARG:HG3	47:CW:37:ARG:NH1	2.18	0.58
48:CX:20:ALA:O	48:CX:21:LEU:HB2	2.02	0.58
25:DA:992:C:O2'	25:DA:993:G:H5'	2.03	0.58
25:DA:1371:G:O2'	25:DA:1372:U:H5'	2.03	0.58
25:DA:1709:U:O2'	25:DA:1710:G:H5'	2.03	0.58
25:DA:1794:A:H2'	25:DA:1795:C:C6	2.38	0.58
25:DA:2547:A:H2'	25:DA:2548:U:H6	1.66	0.58
25:DA:2738:A:N3	25:DA:2738:A:H2'	2.17	0.58
56:DB:77:U:C2'	56:DB:78:A:H5'	2.33	0.58
30:DF:12:VAL:O	30:DF:16:MET:HG2	2.02	0.58
34:DJ:130:HIS:ND1	34:DJ:130:HIS:O	2.36	0.58
42:DR:67:GLY:HA3	42:DR:93:PHE:CE2	2.39	0.58
43:DS:59:GLU:HG3	43:DS:66:ILE:CD1	2.33	0.58
44:DT:9:LYS:O	44:DT:11:LEU:N	2.35	0.58
1:AA:622:A:H2'	1:AA:623:C:H5'	1.83	0.58
4:AD:125:ASN:HA	4:AD:141:VAL:CG2	2.32	0.58
5:AE:68:ARG:HG3	5:AE:68:ARG:HH11	1.68	0.58
17:AQ:13:SER:HB2	17:AQ:21:VAL:HG11	1.84	0.58
1:BA:436:C:H2'	1:BA:437:U:H6	1.67	0.58
1:BA:466:A:H2'	1:BA:468:A:H2	1.67	0.58
2:BB:57:ASN:HA	2:BB:60:ALA:HB3	1.85	0.58
8:BH:110:MET:HB3	8:BH:114:ALA:HB1	1.84	0.58
9:BI:49:GLN:HA	9:BI:52:GLU:OE2	2.01	0.58
10:BJ:36:VAL:HA	10:BJ:76:ILE:HA	1.84	0.58
12:BL:23:LEU:HG	12:BL:24:GLU:N	2.17	0.58
12:BL:42:LYS:HE3	12:BL:43:LYS:HD3	1.83	0.58
12:BL:43:LYS:CB	12:BL:44:PRO:HD3	2.33	0.58
15:BO:8:ALA:O	15:BO:9:LYS:C	2.45	0.58
16:BP:74:LEU:O	16:BP:75:ILE:C	2.46	0.58
20:BT:34:VAL:HG11	20:BT:78:LEU:CD1	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:35:TYR:CE2	20:BT:36:ALA:HB2	2.38	0.58
25:CA:1073:A:C2'	25:CA:1074:G:H5"	2.34	0.58
25:CA:1281:G:N2	25:CA:1290:C:C2	2.71	0.58
30:CF:62:GLN:NE2	30:CF:94:ARG:HD3	2.18	0.58
33:CI:5:GLN:O	33:CI:6:ALA:CB	2.51	0.58
37:CM:46:ILE:HD12	37:CM:69:PRO:HD3	1.85	0.58
25:DA:480:A:OP2	45:DU:43:LYS:HE2	2.02	0.58
25:DA:500:G:N2	25:DA:502:A:H3'	2.18	0.58
25:DA:973:A:OP2	42:DR:81:LYS:NZ	2.36	0.58
25:DA:1165:A:H2'	25:DA:1166:G:C8	2.38	0.58
25:DA:1167:C:C2'	25:DA:1168:G:H5"	2.33	0.58
25:DA:1711:A:C2'	25:DA:1712:U:H5'	2.33	0.58
25:DA:1738:G:O2'	25:DA:1739:A:O5'	2.21	0.58
25:DA:2306:C:H3'	25:DA:2307:G:H5"	1.84	0.58
25:DA:2648:G:H2'	25:DA:2649:C:C6	2.38	0.58
25:DA:2887:A:H5'	25:DA:2888:C:OP2	2.03	0.58
56:DB:61:G:C6	56:DB:62:C:N3	2.71	0.58
33:DI:19:PRO:HB2	33:DI:22:PRO:HD2	1.84	0.58
33:DI:27:LEU:HD12	33:DI:27:LEU:C	2.27	0.58
36:DL:93:ASN:C	36:DL:95:LEU:H	2.10	0.58
44:DT:30:ILE:HD11	44:DT:32:LEU:HD21	1.85	0.58
45:DU:12:VAL:HG12	45:DU:18:LYS:HA	1.84	0.58
1:AA:327:A:O3'	1:AA:328:C:H4'	2.02	0.58
1:AA:1532:U:C4	1:AA:1533:C:N4	2.71	0.58
2:AB:165:ALA:HB2	2:AB:186:VAL:HG12	1.85	0.58
4:AD:122:ILE:N	4:AD:122:ILE:CD1	2.66	0.58
9:AI:20:ILE:HD13	9:AI:86:LEU:HD12	1.85	0.58
9:AI:119:LYS:O	9:AI:120:ALA:HB3	2.03	0.58
11:AK:95:THR:O	11:AK:99:LEU:HD22	2.03	0.58
12:AL:80:LEU:HB2	12:AL:101:LEU:HD22	1.84	0.58
14:AN:46:LEU:O	14:AN:48:LEU:N	2.36	0.58
21:AU:24:LYS:HD3	21:AU:25:ALA:N	2.18	0.58
22:AV:21:A:C6	22:AV:46:G:C4	2.91	0.58
22:AV:50:U:C2	22:AV:51:U:C5	2.92	0.58
1:BA:164:G:H2'	1:BA:165:G:H5'	1.85	0.58
1:BA:867:G:H2'	1:BA:868:C:H6	1.69	0.58
1:BA:1388:C:H2'	1:BA:1389:C:C6	2.38	0.58
2:BB:17:HIS:O	2:BB:188:THR:HG23	2.03	0.58
2:BB:53:LEU:CD1	2:BB:219:THR:HG21	2.32	0.58
2:BB:95:TRP:CZ3	2:BB:96:LEU:O	2.56	0.58
5:BE:110:MET:HE2	5:BE:124:ALA:HB1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:19:PRO:HA	6:BF:22:ILE:HG13	1.85	0.58
25:CA:440:C:O2'	25:CA:441:U:H5'	2.02	0.58
25:CA:656:G:C2'	25:CA:657:U:O5'	2.52	0.58
25:CA:928:A:O2'	25:CA:929:U:H5'	2.02	0.58
25:CA:1288:G:C5	25:CA:1327:A:C2	2.91	0.58
25:CA:1902:C:H4'	27:CC:241:LYS:O	2.03	0.58
25:CA:1919:A:H2'	25:CA:1919:A:N3	2.18	0.58
25:CA:2720:U:OP1	40:CP:52:ARG:NH2	2.37	0.58
26:CB:48:U:P	39:CO:30:ARG:HH22	2.26	0.58
27:CC:161:VAL:CG1	27:CC:162:GLN:N	2.66	0.58
29:CE:118:LEU:C	29:CE:119:ILE:HD13	2.29	0.58
25:DA:247:G:H4'	25:DA:386:G:C4	2.37	0.58
25:DA:368:A:C2'	25:DA:369:U:H5'	2.33	0.58
25:DA:1018:U:C2	25:DA:1019:U:C6	2.91	0.58
25:DA:1323:C:C2'	25:DA:1324:G:O5'	2.51	0.58
25:DA:1392:A:C6	25:DA:1393:A:C6	2.91	0.58
25:DA:1538:G:C2	25:DA:1539:U:C6	2.91	0.58
25:DA:1719:G:N2	25:DA:1742:U:H1'	2.18	0.58
25:DA:1866:A:N3	25:DA:1876:A:C5	2.71	0.58
25:DA:2199:A:H1'	32:DH:28:ASN:HD21	1.67	0.58
25:DA:2258:C:H4'	25:DA:2259:U:OP2	2.04	0.58
25:DA:2341:G:H2'	25:DA:2342:C:C6	2.38	0.58
29:DE:23:PHE:CG	29:DE:111:GLU:HG3	2.39	0.58
29:DE:176:ASP:OD1	29:DE:179:SER:HB3	2.03	0.58
32:DH:59:ALA:O	32:DH:62:LEU:HB3	2.02	0.58
35:DK:58:LEU:HD23	35:DK:58:LEU:N	2.18	0.58
36:DL:126:ARG:C	36:DL:127:VAL:HG23	2.28	0.58
40:DP:21:PRO:HA	40:DP:46:VAL:HG12	1.84	0.58
1:AA:93:U:H2'	1:AA:94:G:H5'	1.83	0.58
1:AA:209:U:H5"	1:AA:210:C:OP2	2.02	0.58
1:AA:259:G:C6	1:AA:260:G:C5	2.90	0.58
1:AA:271:C:H2'	1:AA:272:C:C6	2.38	0.58
1:AA:277:C:O2'	1:AA:278:G:H5'	2.02	0.58
1:AA:412:A:C1'	1:AA:413:G:H5"	2.34	0.58
1:AA:602:A:O2'	1:AA:603:U:H5'	2.03	0.58
1:AA:739:C:C4	1:AA:740:U:C5	2.91	0.58
1:AA:1292:G:H2'	1:AA:1293:C:O4'	2.03	0.58
2:AB:56:LEU:HD21	2:AB:220:VAL:HG22	1.86	0.58
2:AB:158:ASP:O	2:AB:181:PRO:HD2	2.04	0.58
3:AC:13:ILE:C	3:AC:14:VAL:HG13	2.27	0.58
3:AC:96:VAL:CB	3:AC:97:PRO:CD	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:158:LEU:O	4:AD:161:ALA:HB3	2.03	0.58
16:AP:3:THR:HG22	16:AP:4:ILE:N	2.19	0.58
16:AP:6:LEU:HD13	16:AP:71:VAL:HG23	1.85	0.58
16:AP:19:VAL:HG13	16:AP:38:PHE:CA	2.31	0.58
17:AQ:11:VAL:O	17:AQ:12:VAL:CB	2.51	0.58
21:AU:11:PHE:N	21:AU:11:PHE:HD2	2.01	0.58
21:AU:36:PHE:HB3	21:AU:40:PRO:HG3	1.85	0.58
1:BA:448:A:C8	1:BA:487:A:C6	2.92	0.58
1:BA:459:A:H2'	1:BA:460:A:C8	2.39	0.58
1:BA:1022:A:C6	1:BA:1023:U:C4	2.91	0.58
1:BA:1062:U:C2'	1:BA:1063:C:C6	2.83	0.58
1:BA:1142:G:C4	1:BA:1143:G:H1'	2.38	0.58
2:BB:165:ALA:HB2	2:BB:186:VAL:HG12	1.86	0.58
20:BT:24:ARG:O	20:BT:28:ARG:HG2	2.02	0.58
25:CA:417:C:C2'	25:CA:418:C:O5'	2.50	0.58
25:CA:1075:C:H2'	25:CA:1076:C:C6	2.39	0.58
25:CA:1979:U:O2'	25:CA:1980:G:H5'	2.03	0.58
25:CA:2782:G:C2'	25:CA:2783:U:H5'	2.32	0.58
26:CB:20:G:N2	26:CB:64:G:C4	2.72	0.58
37:CM:43:ALA:O	37:CM:46:ILE:N	2.36	0.58
42:CR:102:SER:O	42:CR:103:ALA:O	2.22	0.58
49:CY:13:GLU:O	49:CY:15:ASN:N	2.36	0.58
49:CY:21:LEU:O	49:CY:22:LEU:O	2.21	0.58
25:DA:1538:G:OP2	25:DA:1538:G:C8	2.56	0.58
25:DA:1748:C:C2'	25:DA:1749:A:O5'	2.51	0.58
25:DA:2114:A:C5	25:DA:2167:U:H4'	2.38	0.58
30:DF:24:VAL:O	30:DF:27:VAL:HG12	2.04	0.58
39:DO:33:ARG:O	39:DO:34:HIS:CB	2.51	0.58
44:DT:54:GLU:HB3	44:DT:88:LYS:HG3	1.85	0.58
1:AA:142:G:N3	1:AA:142:G:H2'	2.18	0.58
1:AA:502:A:H2'	1:AA:503:C:C6	2.39	0.58
1:AA:505:G:H4'	1:AA:534:U:C4	2.38	0.58
1:AA:925:G:O4'	1:AA:1502:A:C2	2.57	0.58
1:AA:1005:A:H2'	1:AA:1006:G:O4'	2.04	0.58
1:AA:1259:C:H5"	1:AA:1260:G:OP2	2.03	0.58
2:AB:66:ILE:HB	2:AB:88:GLN:HB3	1.85	0.58
3:AC:24:ASN:O	3:AC:25:THR:C	2.46	0.58
3:AC:52:SER:O	3:AC:53:ARG:CB	2.49	0.58
17:AQ:11:VAL:O	17:AQ:12:VAL:HB	2.04	0.58
17:AQ:54:ILE:HD13	17:AQ:55:GLY:N	2.18	0.58
19:AS:61:VAL:HA	19:AS:65:MET:SD	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:11:PHE:CD2	21:AU:11:PHE:N	2.71	0.58
1:BA:112:G:H2'	1:BA:113:G:H5'	1.84	0.58
1:BA:435:A:C2'	1:BA:436:C:O5'	2.51	0.58
1:BA:718:A:H5'	11:BK:118:ASN:ND2	2.19	0.58
1:BA:1003:G:N2	1:BA:1004:A:O2'	2.37	0.58
1:BA:1527:U:OP2	21:BU:38:GLU:CG	2.51	0.58
5:BE:148:SER:CB	5:BE:151:MET:HG3	2.31	0.58
6:BF:47:LEU:CD1	6:BF:51:ILE:HG23	2.32	0.58
8:BH:88:LYS:HG3	8:BH:89:ASP:N	2.18	0.58
14:BN:41:ARG:NH1	14:BN:45:VAL:HG11	2.19	0.58
14:BN:64:CYS:SG	14:BN:83:LYS:HG3	2.44	0.58
15:BO:34:GLN:HE22	15:BO:38:LEU:HD22	1.69	0.58
15:BO:44:GLU:HG2	15:BO:45:HIS:N	2.18	0.58
20:BT:53:MET:O	20:BT:56:ILE:HG22	2.02	0.58
22:BV:7:A:H3'	22:BV:8:U:H5'	1.86	0.58
25:CA:277:G:H1'	25:CA:361:G:O6	2.03	0.58
25:CA:1405:U:H2'	25:CA:1406:U:O4'	2.03	0.58
25:CA:1835:G:N7	60:CA:3473:HOH:O	2.31	0.58
25:CA:2499:C:OP2	60:CA:3692:HOH:O	2.17	0.58
25:CA:2592:G:H2'	25:CA:2593:U:H5'	1.85	0.58
30:CF:40:GLY:O	30:CF:43:ILE:HD13	2.02	0.58
31:CG:1:SER:O	31:CG:2:ARG:C	2.46	0.58
31:CG:29:ASN:O	31:CG:29:ASN:CG	2.46	0.58
33:CI:101:SER:HB3	33:CI:104:GLN:CD	2.28	0.58
35:CK:113:MET:HA	35:CK:116:ILE:HG13	1.86	0.58
38:CN:48:VAL:HG12	38:CN:49:GLU:N	2.18	0.58
43:CS:63:GLY:O	43:CS:64:ALA:HB3	2.04	0.58
44:CT:17:SER:O	44:CT:18:GLU:C	2.46	0.58
49:CY:28:LEU:HD23	49:CY:37:LEU:CD2	2.33	0.58
25:DA:388:G:N7	25:DA:390:U:H2'	2.18	0.58
25:DA:1063:G:H3'	25:DA:1064:C:C5	2.39	0.58
25:DA:1350:C:N4	25:DA:1351:C:N4	2.52	0.58
25:DA:2097:A:H2'	25:DA:2098:U:H6	1.69	0.58
25:DA:2193:G:C2	25:DA:2194:U:C4	2.91	0.58
25:DA:2690:U:C4	25:DA:2873:A:N1	2.72	0.58
29:DE:1:MET:HG3	29:DE:14:VAL:HG23	1.85	0.58
31:DG:148:ARG:HA	31:DG:161:VAL:CG1	2.33	0.58
32:DH:1:MET:HE2	32:DH:23:ALA:HA	1.85	0.58
32:DH:34:GLY:O	32:DH:35:LYS:CB	2.50	0.58
34:DJ:81:ILE:HG12	34:DJ:82:GLY:N	2.19	0.58
37:DM:125:PRO:HG2	37:DM:126:ILE:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DP:18:SER:O	40:DP:19:PHE:HB3	2.02	0.58
57:DW:17:LEU:HD22	57:DW:35:ARG:HB3	1.86	0.58
1:AA:44:A:C2'	1:AA:45:G:H5'	2.33	0.58
1:AA:299:G:C6	1:AA:300:A:N1	2.71	0.58
1:AA:411:A:P	4:AD:25:ARG:HH22	2.26	0.58
1:AA:463:U:H5'	1:AA:464:U:OP2	2.03	0.58
1:AA:553:A:O4'	12:AL:27:PRO:HA	2.04	0.58
1:AA:1114:C:H2'	1:AA:1114:C:O2	2.03	0.58
1:AA:1356:G:N2	1:AA:1357:A:C2	2.72	0.58
1:AA:1487:G:N2	1:AA:1488:G:H1'	2.19	0.58
2:AB:131:LYS:O	2:AB:133:ALA:N	2.37	0.58
4:AD:57:LYS:HB3	4:AD:199:ILE:HG22	1.86	0.58
6:AF:24:ARG:HH11	6:AF:24:ARG:HG2	1.69	0.58
7:AG:28:ILE:HD12	7:AG:100:MET:HE3	1.84	0.58
8:AH:74:ILE:HD11	8:AH:128:VAL:HG22	1.83	0.58
10:AJ:40:ILE:CG2	10:AJ:73:LEU:HB2	2.33	0.58
11:AK:125:LYS:N	11:AK:125:LYS:HD3	2.18	0.58
1:BA:50:A:N6	1:BA:361:G:H4'	2.18	0.58
1:BA:71:A:C2	1:BA:100:G:N9	2.72	0.58
1:BA:579:A:C2'	1:BA:580:C:H5'	2.33	0.58
7:BG:62:GLU:C	7:BG:62:GLU:OE2	2.47	0.58
8:BH:17:GLN:HG2	8:BH:62:LEU:HD13	1.85	0.58
9:BI:98:ARG:HA	9:BI:103:VAL:HG11	1.85	0.58
15:BO:73:ASP:CB	15:BO:76:ARG:HG3	2.34	0.58
18:BR:41:SER:HB3	18:BR:51:GLN:NE2	2.19	0.58
25:CA:1063:G:N3	33:CI:135:MET:HA	2.18	0.58
25:CA:1508:A:O2'	25:CA:1509:A:O4'	2.22	0.58
29:CE:196:VAL:HA	29:CE:199:MET:HB2	1.85	0.58
32:CH:84:ALA:HB2	32:CH:90:LEU:HD12	1.86	0.58
33:CI:16:MET:HE2	33:CI:16:MET:HA	1.85	0.58
33:CI:33:ASN:HB2	33:CI:36:GLU:CG	2.33	0.58
36:CL:76:GLU:HG3	36:CL:111:ILE:HG12	1.86	0.58
45:CU:71:ILE:HD13	45:CU:82:VAL:HG23	1.86	0.58
53:C2:24:THR:O	53:C2:25:LYS:C	2.47	0.58
55:C4:25:VAL:HB	55:C4:35:GLN:HB2	1.85	0.58
25:DA:905:A:H2'	25:DA:906:U:H5'	1.85	0.58
25:DA:1350:C:N3	25:DA:1382:G:C2	2.71	0.58
25:DA:1351:C:C2	25:DA:1381:G:C2	2.91	0.58
25:DA:1394:U:H2'	25:DA:1395:A:O5'	2.04	0.58
25:DA:2170:A:H1'	25:DA:2171:A:C8	2.38	0.58
56:DB:41:G:C8	30:DF:65:LEU:HD11	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:21:PRO:HB2	33:DI:22:PRO:HD3	1.85	0.58
57:DW:30:GLY:O	57:DW:31:SER:C	2.46	0.58
1:AA:27:G:C2'	1:AA:28:A:O5'	2.51	0.58
1:AA:601:G:H2'	1:AA:602:A:H8	1.67	0.58
1:AA:1061:G:C5	1:AA:1197:A:C2	2.92	0.58
1:AA:1253:G:N2	1:AA:1254:A:C4	2.72	0.58
1:AA:1309:G:OP1	13:AM:90:HIS:HE1	1.87	0.58
3:AC:64:ARG:O	3:AC:99:GLN:O	2.22	0.58
5:AE:81:GLN:CG	5:AE:149:PRO:HB3	2.33	0.58
7:AG:49:LEU:HD11	7:AG:60:ALA:HB1	1.86	0.58
11:AK:21:HIS:CD2	11:AK:34:THR:CG2	2.86	0.58
16:AP:38:PHE:CD1	16:AP:38:PHE:C	2.81	0.58
16:AP:51:ARG:HB3	16:AP:51:ARG:NH1	2.19	0.58
22:AV:61:C:H2'	22:AV:62:C:C6	2.38	0.58
1:BA:22:G:H4'	1:BA:885:G:C8	2.39	0.58
1:BA:279:A:H5"	1:BA:281:G:C5'	2.34	0.58
1:BA:707:U:H2'	1:BA:708:C:C6	2.38	0.58
1:BA:1000:A:N3	1:BA:1041:G:N2	2.50	0.58
2:BB:32:GLY:O	2:BB:33:ALA:HB2	2.02	0.58
2:BB:182:VAL:O	2:BB:195:VAL:HG12	2.03	0.58
5:BE:63:MET:O	5:BE:64:GLU:C	2.44	0.58
8:BH:58:LEU:C	8:BH:58:LEU:HD12	2.29	0.58
14:BN:61:ARG:O	14:BN:62:ASN:HB2	2.04	0.58
17:BQ:11:VAL:O	17:BQ:12:VAL:HB	2.02	0.58
21:BU:45:LYS:HG2	21:BU:45:LYS:O	2.03	0.58
25:CA:1589:U:H2'	25:CA:1590:A:H5'	1.85	0.58
25:CA:1988:G:O2'	25:CA:1989:G:H5'	2.04	0.58
25:CA:2183:A:H2'	25:CA:2184:A:C8	2.38	0.58
26:CB:45:A:C4	26:CB:46:A:C8	2.91	0.58
26:CB:73:A:H2'	26:CB:73:A:N3	2.18	0.58
30:CF:107:VAL:N	30:CF:108:PRO:CD	2.67	0.58
25:DA:188:G:H2'	25:DA:189:G:H5'	1.86	0.58
25:DA:545:U:C6	25:DA:547:A:O3'	2.57	0.58
25:DA:1066:U:H1'	25:DA:1074:G:N2	2.18	0.58
25:DA:1257:C:H5'	29:DE:78:TRP:CZ3	2.39	0.58
25:DA:1269:A:H2'	25:DA:1270:C:C6	2.39	0.58
25:DA:1542:U:H2'	25:DA:1543:G:O5'	2.04	0.58
25:DA:2114:A:OP2	25:DA:2115:G:N7	2.37	0.58
25:DA:2335:A:C8	25:DA:2337:G:C5	2.92	0.58
25:DA:2666:C:C6	25:DA:2667:C:C5	2.92	0.58
25:DA:2707:U:H2'	25:DA:2707:U:O2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:13:ARG:HG2	27:DC:14:HIS:ND1	2.18	0.58
27:DC:50:THR:CG2	27:DC:53:ILE:HD11	2.32	0.58
29:DE:48:THR:OG1	29:DE:50:ALA:HB3	2.04	0.58
30:DF:105:ILE:HD11	30:DF:138:PRO:HG2	1.84	0.58
32:DH:114:GLU:OE2	32:DH:134:VAL:HA	2.04	0.58
33:DI:50:LYS:HD3	33:DI:50:LYS:N	2.19	0.58
35:DK:21:CYS:HA	35:DK:41:ILE:HG22	1.85	0.58
35:DK:105:ARG:O	35:DK:108:ARG:HB3	2.03	0.58
37:DM:49:ALA:CB	37:DM:124:LEU:HD21	2.34	0.58
37:DM:114:ARG:HG2	37:DM:130:PHE:CE1	2.39	0.58
40:DP:58:PHE:O	40:DP:72:VAL:HA	2.03	0.58
45:DU:8:ASP:O	45:DU:23:LYS:HA	2.03	0.58
49:DY:1:MET:HG2	49:DY:5:GLU:OE2	2.04	0.58
1:AA:108:G:C6	20:AT:9:ARG:HG2	2.39	0.58
1:AA:514:C:H2'	1:AA:515:G:O5'	2.04	0.58
1:AA:595:A:C4	1:AA:641:U:C4	2.91	0.58
1:AA:620:C:H1'	4:AD:131:ILE:HD11	1.85	0.58
1:AA:706:A:C2'	1:AA:707:U:H5'	2.34	0.58
1:AA:723:U:H5'	1:AA:724:G:P	2.44	0.58
1:AA:1338:G:H1'	22:AV:41:C:O2'	2.03	0.58
2:AB:60:ALA:HA	2:AB:64:GLY:HA3	1.85	0.58
4:AD:31:CYS:SG	4:AD:33:ILE:N	2.77	0.58
7:AG:14:ASP:HB2	7:AG:19:SER:HB3	1.86	0.58
12:AL:19:ASN:C	12:AL:20:VAL:HG12	2.29	0.58
12:AL:75:GLU:O	12:AL:76:HIS:HB2	2.02	0.58
19:AS:8:PRO:HB2	19:AS:40:PHE:CZ	2.38	0.58
19:AS:73:PHE:CD1	19:AS:73:PHE:N	2.72	0.58
1:BA:543:U:C2'	1:BA:544:G:H5'	2.34	0.58
1:BA:846:G:O2'	1:BA:847:G:H5'	2.04	0.58
1:BA:1176:A:H2'	1:BA:1177:G:O4'	2.04	0.58
1:BA:1272:G:C6	1:BA:1273:C:C4	2.92	0.58
2:BB:71:THR:HG22	2:BB:94:ARG:NH1	2.19	0.58
2:BB:156:LEU:HD12	2:BB:180:ILE:HD11	1.85	0.58
3:BC:21:TRP:HD1	3:BC:56:ILE:HG22	1.66	0.58
3:BC:66:THR:HG22	3:BC:67:ILE:N	2.19	0.58
5:BE:45:VAL:CG2	5:BE:117:ALA:HB2	2.33	0.58
10:BJ:91:ASP:O	10:BJ:92:LEU:O	2.22	0.58
14:BN:75:ARG:O	14:BN:76:LYS:C	2.46	0.58
17:BQ:51:GLU:HG2	17:BQ:52:CYS:N	2.19	0.58
19:BS:6:LYS:HE2	19:BS:6:LYS:CA	2.33	0.58
25:CA:1054:A:H2'	25:CA:1054:A:N3	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1097:U:O2'	33:CI:8:VAL:HA	2.04	0.58
25:CA:1313:U:H5"	25:CA:1314:C:OP2	2.04	0.58
25:CA:1314:C:H2'	25:CA:1314:C:O2	2.02	0.58
25:CA:1490:A:N3	25:CA:1490:A:H2'	2.18	0.58
25:CA:1547:C:H2'	25:CA:1548:A:O4'	2.03	0.58
25:CA:1567:G:N7	27:CC:82:TYR:CE1	2.72	0.58
25:CA:1716:U:O2'	25:CA:1717:A:H5'	2.04	0.58
25:CA:1794:A:H2'	25:CA:1795:C:H6	1.68	0.58
25:CA:1873:G:H2'	25:CA:1874:C:H6	1.69	0.58
25:CA:2698:U:H2'	25:CA:2699:C:C6	2.39	0.58
25:CA:2801:G:H2'	25:CA:2802:G:H8	1.68	0.58
32:CH:62:LEU:C	32:CH:62:LEU:HD12	2.28	0.58
33:CI:44:LYS:O	33:CI:48:ILE:HG12	2.03	0.58
33:CI:74:PRO:HG2	33:CI:77:VAL:HG11	1.86	0.58
39:CO:75:GLY:O	39:CO:78:VAL:HG23	2.02	0.58
40:CP:24:THR:HG22	40:CP:25:VAL:N	2.18	0.58
44:CT:42:GLU:O	44:CT:45:ALA:HB3	2.04	0.58
25:DA:230:G:N3	25:DA:231:A:C8	2.72	0.58
25:DA:317:G:C4	25:DA:318:C:C6	2.92	0.58
25:DA:981:A:C5'	60:DA:3598:HOH:O	2.51	0.58
25:DA:1178:C:H2'	25:DA:1179:G:N7	2.19	0.58
25:DA:1187:G:OP1	42:DR:85:LYS:CE	2.51	0.58
25:DA:1494:A:C2	25:DA:1495:A:N9	2.72	0.58
25:DA:2746:U:N3	25:DA:2747:G:C8	2.71	0.58
28:DD:151:THR:HG22	28:DD:152:PRO:HD2	1.84	0.58
31:DG:45:ALA:O	31:DG:46:ASP:HB2	2.02	0.58
38:DN:24:MET:HE2	38:DN:44:LEU:HD13	1.85	0.58
41:DQ:57:ARG:HA	41:DQ:60:TRP:CE3	2.39	0.58
49:DY:13:GLU:C	49:DY:15:ASN:N	2.58	0.58
1:AA:89:U:O2'	1:AA:90:C:H5"	2.04	0.58
2:AB:88:GLN:HE21	2:AB:220:VAL:HB	1.68	0.58
10:AJ:73:LEU:O	10:AJ:74:VAL:HB	2.04	0.58
13:AM:32:ILE:HD13	13:AM:58:GLU:CG	2.34	0.58
1:BA:420:U:C2'	1:BA:421:U:H5"	2.34	0.58
1:BA:642:A:C2	8:BH:104:SER:O	2.57	0.58
1:BA:978:A:C5	1:BA:1318:A:C6	2.92	0.58
1:BA:1237:C:C6	1:BA:1336:C:N4	2.71	0.58
2:BB:67:LEU:HD22	2:BB:69:VAL:HG23	1.85	0.58
4:BD:109:THR:O	4:BD:111:ALA:N	2.37	0.58
5:BE:94:PHE:CZ	5:BE:96:GLN:HG2	2.38	0.58
5:BE:109:ALA:O	5:BE:110:MET:CB	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:124:ALA:O	5:BE:125:LYS:HB3	2.03	0.58
13:BM:89:ARG:HD2	13:BM:95:PRO:O	2.04	0.58
16:BP:3:THR:HG22	16:BP:66:THR:OG1	2.03	0.58
16:BP:79:ASN:O	16:BP:80:LYS:HB2	2.02	0.58
19:BS:43:MET:HA	19:BS:46:LEU:HD12	1.86	0.58
19:BS:68:HIS:HB3	19:BS:72:GLU:OE2	2.03	0.58
20:BT:54:GLN:HB3	20:BT:55:PRO:CD	2.34	0.58
25:CA:279:A:H2'	25:CA:280:U:H5'	1.84	0.58
25:CA:409:G:O2'	25:CA:410:G:H5'	2.04	0.58
25:CA:1526:C:C2'	25:CA:1527:G:O5'	2.52	0.58
25:CA:1968:G:H5"	60:CA:3468:HOH:O	2.02	0.58
25:CA:2128:G:O2'	25:CA:2129:C:H5'	2.04	0.58
25:CA:2880:C:H1'	38:CN:91:ALA:O	2.04	0.58
33:CI:91:LYS:HB3	33:CI:94:LYS:CG	2.33	0.58
35:CK:113:MET:SD	35:CK:116:ILE:HD11	2.44	0.58
36:CL:116:VAL:O	36:CL:116:VAL:HG13	2.02	0.58
37:CM:43:ALA:O	37:CM:44:ARG:C	2.45	0.58
45:CU:42:LYS:HG2	45:CU:59:GLU:HB2	1.85	0.58
25:DA:158:U:C2'	25:DA:159:G:H5'	2.33	0.58
25:DA:261:G:H2'	25:DA:261:G:N3	2.18	0.58
25:DA:1448:G:C6	25:DA:1449:G:C5	2.92	0.58
25:DA:1526:C:C4	25:DA:1527:G:C5	2.92	0.58
25:DA:2125:G:N1	25:DA:2171:A:OP1	2.36	0.58
27:DC:140:VAL:HG13	27:DC:190:THR:O	2.03	0.58
31:DG:101:VAL:HG22	31:DG:115:GLN:OE1	2.03	0.58
32:DH:96:THR:HG22	32:DH:115:VAL:CG1	2.34	0.58
43:DS:63:GLY:O	43:DS:64:ALA:HB3	2.03	0.58
43:DS:66:ILE:HD13	43:DS:66:ILE:N	2.19	0.58
45:DU:5:ARG:O	45:DU:6:ARG:O	2.21	0.58
49:DY:28:LEU:CD1	49:DY:46:VAL:HG21	2.33	0.58
54:D3:14:LYS:HB3	54:D3:22:LYS:HE2	1.84	0.58
1:AA:956:U:H2'	1:AA:957:U:O4'	2.04	0.58
3:AC:86:LEU:O	3:AC:89:VAL:HG22	2.03	0.58
8:AH:48:PHE:O	8:AH:49:LYS:CB	2.51	0.58
9:AI:49:GLN:NE2	9:AI:79:ARG:NH1	2.52	0.58
20:AT:14:GLU:O	20:AT:15:LYS:C	2.46	0.58
22:AV:18:G:H4'	22:AV:19:G:OP1	2.03	0.58
1:BA:209:U:H2'	1:BA:209:U:O2	2.04	0.58
1:BA:328:C:H4'	1:BA:329:A:H5"	1.85	0.58
1:BA:466:A:H2'	1:BA:468:A:C2	2.38	0.58
1:BA:674:G:H4'	18:BR:69:TYR:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1162:C:H1'	1:BA:1175:G:N2	2.19	0.58
1:BA:1210:C:O4'	1:BA:1214:C:C4	2.57	0.58
4:BD:32:LYS:O	4:BD:33:ILE:C	2.47	0.58
7:BG:64:ALA:HB1	7:BG:126:ALA:HB1	1.85	0.58
7:BG:94:ARG:HA	7:BG:97:ALA:HB3	1.86	0.58
20:BT:4:LYS:O	20:BT:6:ALA:N	2.36	0.58
21:BU:24:LYS:CG	21:BU:25:ALA:N	2.66	0.58
25:CA:61:C:C2	25:CA:94:A:C2	2.91	0.58
25:CA:117:G:C6	25:CA:119:A:C6	2.92	0.58
25:CA:846:U:H1'	25:CA:847:U:H5	1.69	0.58
25:CA:2590:A:O2'	25:CA:2591:C:H5'	2.04	0.58
26:CB:54:G:H21	30:CF:25:MET:HE3	1.69	0.58
27:CC:157:ALA:HB1	27:CC:196:ASN:O	2.04	0.58
30:CF:57:ALA:HB2	30:CF:64:PRO:HD3	1.86	0.58
30:CF:118:ALA:HA	30:CF:176:PHE:CE2	2.38	0.58
32:CH:3:VAL:HG12	32:CH:38:PRO:HA	1.86	0.58
36:CL:68:SER:O	36:CL:69:ARG:CB	2.52	0.58
40:CP:52:ARG:HH11	40:CP:52:ARG:HG2	1.69	0.58
41:CQ:90:ASP:O	41:CQ:94:LEU:HD12	2.03	0.58
43:CS:4:ILE:HD12	43:CS:4:ILE:H	1.68	0.58
44:CT:48:GLN:OE1	44:CT:54:GLU:HA	2.04	0.58
49:CY:32:ALA:O	49:CY:33:ALA:C	2.46	0.58
25:DA:402:A:H2'	25:DA:403:U:H5'	1.85	0.58
25:DA:1194:A:H2'	25:DA:1195:G:O5'	2.04	0.58
25:DA:1787:A:O4'	25:DA:2589:A:H4'	2.04	0.58
25:DA:2294:G:C2	25:DA:2295:C:C2	2.92	0.58
25:DA:2409:G:C6	25:DA:2410:G:C5	2.92	0.58
29:DE:148:ILE:CD1	29:DE:187:VAL:CG1	2.82	0.58
33:DI:126:ARG:HD3	33:DI:126:ARG:H	1.69	0.58
36:DL:91:ASP:HB3	36:DL:94:THR:CB	2.30	0.58
40:DP:52:ARG:H	40:DP:56:SER:HB3	1.68	0.58
45:DU:72:PHE:CZ	45:DU:77:GLY:HA2	2.39	0.58
50:DZ:6:ILE:HD11	50:DZ:47:ILE:HD11	1.85	0.58
1:AA:87:C:C2'	1:AA:88:U:H5'	2.34	0.57
1:AA:91:U:C4	1:AA:92:U:C2	2.92	0.57
1:AA:511:C:H1'	1:AA:512:U:C6	2.37	0.57
1:AA:1162:C:C2	1:AA:1175:G:C2	2.92	0.57
1:AA:1309:G:C6	1:AA:1329:A:C6	2.92	0.57
4:AD:52:VAL:CG2	4:AD:53:GLN:N	2.67	0.57
10:AJ:36:VAL:HA	10:AJ:75:ASP:O	2.04	0.57
12:AL:115:LYS:O	12:AL:116:TYR:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:57:VAL:HG12	17:AQ:78:VAL:HB	1.86	0.57
21:AU:4:LYS:HD2	21:AU:4:LYS:C	2.29	0.57
1:BA:112:G:C6	1:BA:330:C:C5	2.92	0.57
1:BA:145:G:C2'	1:BA:146:G:O5'	2.52	0.57
1:BA:993:G:H2'	1:BA:993:G:N3	2.19	0.57
1:BA:1092:A:C6	1:BA:1093:A:C6	2.92	0.57
1:BA:1276:G:C5	1:BA:1277:C:C5	2.92	0.57
1:BA:1489:G:C4	1:BA:1490:U:C6	2.92	0.57
4:BD:160:LEU:CD2	4:BD:161:ALA:N	2.66	0.57
7:BG:41:ILE:HD13	7:BG:115:MET:HB3	1.85	0.57
8:BH:20:ASN:HA	8:BH:64:TYR:CE2	2.39	0.57
8:BH:111:THR:O	8:BH:114:ALA:HB3	2.03	0.57
14:BN:50:THR:C	14:BN:51:LEU:HD23	2.29	0.57
14:BN:80:SER:O	14:BN:84:VAL:HG23	2.04	0.57
25:CA:108:G:H2'	25:CA:109:C:H5'	1.85	0.57
25:CA:187:G:H2'	25:CA:188:G:H5"	1.84	0.57
25:CA:225:C:C2	25:CA:231:A:C2	2.92	0.57
25:CA:790:U:H2'	25:CA:790:U:O5'	2.03	0.57
25:CA:1061:U:O4	33:CI:10:LEU:HA	2.04	0.57
25:CA:1072:C:OP2	25:CA:1075:C:N4	2.37	0.57
25:CA:1185:G:H5"	25:CA:1186:G:OP1	2.03	0.57
25:CA:1439:A:H2'	25:CA:1440:U:H5'	1.85	0.57
25:CA:2040:G:H2'	25:CA:2041:U:O4'	2.04	0.57
25:CA:2502:G:H5'	25:CA:2503:A:H5"	1.85	0.57
29:CE:122:GLU:O	29:CE:123:LYS:HD3	2.04	0.57
31:CG:53:PRO:HD3	31:CG:61:TRP:CH2	2.39	0.57
31:CG:97:VAL:HG12	31:CG:97:VAL:O	2.02	0.57
32:CH:40:THR:O	32:CH:42:LYS:N	2.37	0.57
33:CI:57:VAL:C	33:CI:68:PHE:HB2	2.29	0.57
36:CL:23:ILE:O	36:CL:25:SER:N	2.37	0.57
42:CR:29:THR:HG22	42:CR:29:THR:O	2.02	0.57
25:DA:363:G:H2'	25:DA:364:C:C6	2.39	0.57
25:DA:618:G:N3	25:DA:618:G:H2'	2.18	0.57
25:DA:773:U:C5'	27:DC:46:GLY:HA3	2.34	0.57
25:DA:1121:C:N3	25:DA:1122:G:C8	2.72	0.57
25:DA:1229:C:H2'	25:DA:1230:A:C8	2.39	0.57
25:DA:2094:A:C2	25:DA:2196:C:C2	2.91	0.57
25:DA:2295:C:C2'	25:DA:2296:U:O5'	2.52	0.57
25:DA:2591:C:OP2	27:DC:236:GLY:O	2.21	0.57
25:DA:2819:G:H5"	60:DA:3816:HOH:O	2.03	0.57
27:DC:12:ARG:O	27:DC:13:ARG:C	2.46	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:196:VAL:HA	29:DE:199:MET:HE2	1.86	0.57
32:DH:59:ALA:O	32:DH:62:LEU:CB	2.51	0.57
33:DI:27:LEU:HD13	33:DI:37:PHE:CD2	2.38	0.57
36:DL:79:LEU:O	36:DL:81:ASP:O	2.22	0.57
36:DL:110:VAL:O	36:DL:111:ILE:O	2.22	0.57
43:DS:59:GLU:HA	43:DS:64:ALA:HB2	1.86	0.57
1:AA:294:U:C2	1:AA:295:C:C5	2.91	0.57
1:AA:1298:U:H4'	1:AA:1299:A:O5'	2.03	0.57
2:AB:53:LEU:CD1	2:AB:216:VAL:HA	2.34	0.57
2:AB:114:LYS:O	2:AB:116:LEU:N	2.37	0.57
4:AD:147:LYS:CD	4:AD:147:LYS:H	2.17	0.57
5:AE:120:HIS:O	5:AE:121:ASN:HB3	2.04	0.57
5:AE:132:PRO:C	5:AE:134:ASN:N	2.62	0.57
7:AG:25:PHE:O	7:AG:26:VAL:C	2.47	0.57
11:AK:41:LEU:HB3	11:AK:76:TYR:HE2	1.67	0.57
11:AK:54:SER:O	11:AK:55:ARG:C	2.48	0.57
14:AN:35:ALA:HA	14:AN:41:ARG:HB3	1.86	0.57
16:AP:78:VAL:O	16:AP:80:LYS:N	2.37	0.57
17:AQ:80:LYS:HD3	17:AQ:80:LYS:N	2.19	0.57
1:BA:149:A:C2	1:BA:150:U:C2	2.92	0.57
1:BA:423:G:H2'	1:BA:424:G:O4'	2.04	0.57
1:BA:736:C:H2'	1:BA:737:C:C6	2.38	0.57
1:BA:1009:U:H2'	1:BA:1010:U:H5'	1.86	0.57
1:BA:1010:U:H2'	1:BA:1011:C:H6	1.69	0.57
2:BB:90:PHE:H	2:BB:149:GLY:HA3	1.68	0.57
2:BB:90:PHE:HE2	2:BB:148:GLY:O	1.87	0.57
3:BC:83:VAL:O	3:BC:86:LEU:HB2	2.03	0.57
5:BE:93:VAL:CG1	5:BE:110:MET:HE1	2.35	0.57
8:BH:82:LEU:CD1	8:BH:84:ILE:HD11	2.34	0.57
11:BK:89:GLY:O	11:BK:90:PRO:O	2.22	0.57
25:CA:215:G:C4'	25:CA:216:A:H4'	2.34	0.57
25:CA:1059:G:OP2	25:CA:1060:U:C2'	2.52	0.57
25:CA:1475:G:O4'	25:CA:1475:G:N3	2.34	0.57
25:CA:1589:U:C2'	25:CA:1590:A:H5'	2.33	0.57
25:CA:1794:A:H2'	25:CA:1795:C:C6	2.39	0.57
25:CA:1869:G:O2'	25:CA:1872:A:N6	2.38	0.57
25:CA:2064:C:H2'	25:CA:2065:C:C6	2.40	0.57
25:CA:2327:A:H2'	25:CA:2328:A:C8	2.39	0.57
25:CA:2415:G:H4'	36:CL:66:PHE:HB3	1.86	0.57
25:CA:2480:C:H2'	25:CA:2481:G:H5'	1.86	0.57
27:CC:96:LYS:N	27:CC:96:LYS:HD2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:190:ALA:C	29:CE:192:ALA:H	2.11	0.57
30:CF:71:LYS:HD3	30:CF:72:SER:N	2.20	0.57
33:CI:115:ASP:O	33:CI:116:MET:HG2	2.05	0.57
33:CI:139:VAL:HG23	33:CI:141:ASP:HB2	1.86	0.57
36:CL:26:GLY:O	36:CL:27:LEU:C	2.46	0.57
36:CL:85:VAL:O	36:CL:86:GLU:O	2.22	0.57
40:CP:30:TRP:CD2	40:CP:39:LEU:CD1	2.87	0.57
25:DA:53:A:H2'	25:DA:54:G:H5'	1.86	0.57
25:DA:630:G:H5"	25:DA:631:A:OP2	2.04	0.57
25:DA:819:A:H2'	25:DA:820:A:O5'	2.04	0.57
25:DA:1043:C:C4	25:DA:1044:C:C4	2.92	0.57
25:DA:1312:U:H4'	25:DA:1313:U:O5'	2.05	0.57
25:DA:1356:G:C5	25:DA:1357:C:C5	2.92	0.57
25:DA:2344:U:H4'	25:DA:2345:G:OP1	2.04	0.57
25:DA:2383:G:H2'	25:DA:2384:U:H6	1.69	0.57
25:DA:2834:G:H2'	25:DA:2879:A:H61	1.69	0.57
30:DF:151:LEU:HD11	30:DF:153:ILE:HD11	1.86	0.57
31:DG:43:LYS:CE	31:DG:43:LYS:N	2.67	0.57
33:DI:40:ALA:HB3	33:DI:68:PHE:CZ	2.39	0.57
39:DO:25:ARG:HG3	39:DO:27:VAL:HG23	1.85	0.57
1:AA:83:C:OP1	1:AA:83:C:H4'	2.04	0.57
1:AA:201:G:C2	1:AA:217:C:O2	2.58	0.57
1:AA:1031:C:C4'	1:AA:1032:G:H5"	2.31	0.57
1:AA:1074:G:H4'	2:AB:101:THR:HG23	1.86	0.57
1:AA:1479:C:C2	1:AA:1480:A:C8	2.93	0.57
5:AE:88:HIS:ND1	5:AE:137:ARG:HD3	2.18	0.57
8:AH:10:LEU:HD23	8:AH:10:LEU:N	2.19	0.57
8:AH:110:MET:HE1	8:AH:115:ALA:HA	1.86	0.57
9:AI:20:ILE:HD13	9:AI:86:LEU:CD1	2.33	0.57
10:AJ:9:ARG:O	10:AJ:98:VAL:HA	2.04	0.57
17:AQ:68:LYS:O	17:AQ:69:THR:CB	2.52	0.57
1:BA:290:C:C2'	1:BA:291:U:H5'	2.34	0.57
1:BA:889:A:H4'	1:BA:890:G:OP1	2.05	0.57
1:BA:1073:U:C2	1:BA:1074:G:C8	2.91	0.57
1:BA:1120:C:H2'	1:BA:1121:U:H6	1.69	0.57
1:BA:1130:A:C2'	1:BA:1131:G:H5'	2.35	0.57
1:BA:1273:C:C6	1:BA:1274:A:C8	2.92	0.57
4:BD:28:ASP:O	4:BD:29:THR:HB	2.04	0.57
4:BD:153:ARG:O	4:BD:157:ALA:HB2	2.05	0.57
11:BK:87:GLY:H	11:BK:113:THR:HG22	1.67	0.57
12:BL:2:THR:HG22	12:BL:4:ASN:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BT:43:LYS:CD	20:BT:86:ALA:HA	2.33	0.57
22:BV:5:G:C2	22:BV:69:G:C2	2.92	0.57
25:CA:1045:C:H3'	25:CA:1046:A:C5'	2.33	0.57
25:CA:1587:G:C5	25:CA:1588:G:C8	2.92	0.57
31:CG:80:GLU:O	31:CG:81:GLY:O	2.23	0.57
32:CH:61:VAL:O	32:CH:64:ALA:CB	2.50	0.57
46:CV:70:ILE:HG22	46:CV:72:VAL:CG1	2.34	0.57
52:C1:34:GLU:HG2	52:C1:49:LYS:HG3	1.84	0.57
25:DA:665:U:C2	25:DA:666:A:C8	2.92	0.57
25:DA:819:A:C4	25:DA:1189:A:C2	2.91	0.57
25:DA:1058:U:H2'	25:DA:1059:G:C8	2.39	0.57
25:DA:1853:A:N1	25:DA:2087:G:H1'	2.19	0.57
25:DA:2323:G:O2'	25:DA:2324:U:H5'	2.04	0.57
25:DA:2746:U:O4	25:DA:2747:G:C5	2.57	0.57
31:DG:8:VAL:CG2	31:DG:68:ARG:HD2	2.33	0.57
31:DG:39:ALA:HB2	31:DG:57:TYR:HB3	1.87	0.57
34:DJ:31:GLU:HB3	34:DJ:142:ILE:HG12	1.87	0.57
38:DN:33:ILE:HG13	38:DN:114:GLU:HB3	1.86	0.57
42:DR:49:ILE:CB	42:DR:53:PHE:N	2.68	0.57
54:D3:44:ARG:N	54:D3:45:PRO:HD2	2.19	0.57
1:AA:299:G:C6	1:AA:300:A:C2	2.92	0.57
1:AA:413:G:C2	4:AD:32:LYS:HD3	2.39	0.57
1:AA:514:C:C2'	1:AA:515:G:O5'	2.52	0.57
1:AA:543:U:O2'	1:AA:544:G:H5'	2.04	0.57
1:AA:883:C:O2'	1:AA:884:U:H5'	2.04	0.57
1:AA:1287:A:N6	1:AA:1288:A:N6	2.52	0.57
2:AB:81:ASP:H	2:AB:84:LEU:HB3	1.69	0.57
2:AB:207:ARG:O	2:AB:209:VAL:N	2.37	0.57
5:AE:114:LEU:O	5:AE:119:VAL:HG22	2.05	0.57
5:AE:152:VAL:O	5:AE:155:LYS:HB2	2.05	0.57
5:AE:158:LYS:O	8:AH:63:LYS:HE3	2.04	0.57
7:AG:21:LEU:HD13	7:AG:21:LEU:C	2.29	0.57
9:AI:11:ARG:HG2	9:AI:11:ARG:HH11	1.70	0.57
13:AM:74:MET:SD	30:CF:111:ARG:HB2	2.45	0.57
17:AQ:59:GLU:HG2	17:AQ:75:VAL:HG21	1.85	0.57
21:AU:38:GLU:N	21:AU:40:PRO:HD3	2.19	0.57
22:AV:21:A:C6	22:AV:48:C:C6	2.92	0.57
1:BA:150:U:C4	1:BA:170:U:C5	2.93	0.57
1:BA:264:C:H2'	1:BA:265:G:O4'	2.05	0.57
1:BA:660:C:H2'	1:BA:661:G:O4'	2.04	0.57
1:BA:1450:U:H2'	1:BA:1452:C:C5	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:3:TYR:C	4:BD:3:TYR:CD1	2.82	0.57
4:BD:101:VAL:HG12	4:BD:113:ALA:HB1	1.85	0.57
12:BL:74:GLN:O	12:BL:75:GLU:C	2.47	0.57
14:BN:5:MET:HB3	14:BN:63:ARG:NH2	2.18	0.57
14:BN:45:VAL:HG23	14:BN:46:LEU:H	1.67	0.57
21:BU:46:ARG:HA	21:BU:49:ALA:HB3	1.86	0.57
25:CA:1066:U:O2	25:CA:1069:A:N7	2.38	0.57
25:CA:1071:G:C1'	25:CA:1089:A:N7	2.68	0.57
25:CA:1665:A:N3	35:CK:1:MET:HE2	2.20	0.57
25:CA:2403:C:O2'	25:CA:2404:U:H5'	2.05	0.57
25:CA:2719:G:O2'	25:CA:2720:U:H5'	2.04	0.57
25:CA:2870:C:C4	25:CA:2871:U:C5	2.92	0.57
27:CC:83:ASP:OD1	27:CC:83:ASP:C	2.46	0.57
27:CC:259:ASN:O	27:CC:260:LYS:CB	2.52	0.57
29:CE:104:ALA:O	29:CE:108:ILE:CG2	2.52	0.57
31:CG:117:PRO:O	31:CG:118:ALA:C	2.47	0.57
38:CN:38:LEU:HB3	38:CN:39:PRO:CD	2.34	0.57
42:CR:40:MET:CE	42:CR:48:LYS:HE2	2.34	0.57
45:CU:96:LYS:O	45:CU:97:SER:CB	2.51	0.57
25:DA:119:A:H4'	25:DA:120:U:O5'	2.04	0.57
25:DA:230:G:C2	25:DA:231:A:C8	2.93	0.57
25:DA:434:U:H4'	25:DA:435:C:OP1	2.03	0.57
25:DA:560:C:O2	41:DQ:47:ARG:NH1	2.36	0.57
25:DA:749:A:N1	25:DA:753:A:O2'	2.32	0.57
25:DA:1029:A:C8	25:DA:1030:C:C6	2.92	0.57
25:DA:1097:U:H3'	25:DA:1098:A:O4'	2.03	0.57
25:DA:1401:G:N7	25:DA:1402:U:C5	2.73	0.57
25:DA:1869:G:N2	25:DA:1873:G:C6	2.72	0.57
25:DA:2125:G:C5'	25:DA:2126:A:OP2	2.53	0.57
25:DA:2291:U:O2'	25:DA:2292:U:H5'	2.03	0.57
25:DA:2315:G:H2'	25:DA:2316:G:O4'	2.04	0.57
31:DG:29:ASN:CB	31:DG:78:VAL:HA	2.35	0.57
31:DG:71:LEU:HA	31:DG:74:MET:SD	2.44	0.57
43:DS:1:MET:HB3	43:DS:109:ASP:OD2	2.04	0.57
43:DS:67:ASP:OD1	43:DS:67:ASP:N	2.36	0.57
54:D3:62:PRO:HG2	54:D3:63:TYR:CD2	2.39	0.57
1:AA:104:G:C2'	1:AA:105:G:H5'	2.34	0.57
1:AA:244:U:H4'	1:AA:245:U:C5'	2.34	0.57
1:AA:244:U:H4'	1:AA:245:U:H5'	1.86	0.57
1:AA:624:C:C2'	1:AA:625:U:O5'	2.52	0.57
1:AA:1183:U:O4'	1:AA:1183:U:OP2	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1211:U:O2'	1:AA:1212:U:P	2.61	0.57
2:AB:143:LEU:HD23	2:AB:143:LEU:H	1.69	0.57
4:AD:176:LYS:HD3	4:AD:176:LYS:H	1.67	0.57
5:AE:93:VAL:HG21	5:AE:110:MET:CE	2.34	0.57
5:AE:115:GLU:CD	5:AE:115:GLU:C	2.73	0.57
7:AG:122:GLU:O	7:AG:123:LEU:C	2.48	0.57
8:AH:82:LEU:HD22	8:AH:83:ARG:O	2.05	0.57
11:AK:74:LYS:C	11:AK:75:GLU:OE1	2.47	0.57
14:AN:6:LYS:HD3	14:AN:6:LYS:N	2.20	0.57
14:AN:20:PHE:CD2	14:AN:24:ALA:CB	2.87	0.57
16:AP:72:ALA:HA	16:AP:75:ILE:CD1	2.35	0.57
1:BA:72:A:C6	1:BA:73:C:N4	2.72	0.57
1:BA:145:G:H2'	1:BA:146:G:O5'	2.04	0.57
1:BA:244:U:H4'	1:BA:245:U:C5'	2.35	0.57
1:BA:688:G:O2'	1:BA:704:A:N1	2.26	0.57
1:BA:730:G:O2'	1:BA:766:A:H5'	2.03	0.57
1:BA:1032:G:H3'	1:BA:1032:G:N3	2.19	0.57
1:BA:1049:U:H4'	1:BA:1050:G:OP2	2.05	0.57
1:BA:1073:U:H5'	1:BA:1074:G:OP2	2.05	0.57
1:BA:1245:C:O2'	1:BA:1246:A:H5'	2.04	0.57
1:BA:1345:U:H2'	60:BA:1831:HOH:O	2.05	0.57
2:BB:185:ILE:HA	2:BB:199:ILE:HB	1.85	0.57
9:BI:89:TYR:O	9:BI:93:LEU:HD21	2.04	0.57
9:BI:128:LYS:CD	9:BI:129:ARG:H	2.18	0.57
10:BJ:18:ILE:HG23	10:BJ:19:ASP:N	2.18	0.57
12:BL:6:LEU:HD22	12:BL:11:ARG:HD2	1.85	0.57
13:BM:66:GLY:HA2	13:BM:69:ARG:CD	2.35	0.57
20:BT:66:ILE:HD11	20:BT:70:LYS:CD	2.33	0.57
21:BU:10:PRO:C	21:BU:11:PHE:CD1	2.82	0.57
25:CA:535:G:O2'	25:CA:536:G:H5'	2.04	0.57
25:CA:1178:C:O3'	25:CA:1179:G:C8	2.58	0.57
25:CA:1414:C:C5	25:CA:1415:U:C5	2.93	0.57
25:CA:1420:A:O2'	25:CA:1421:G:H5'	2.03	0.57
25:CA:1873:G:O2'	25:CA:1874:C:H5'	2.04	0.57
28:CD:150:GLN:O	28:CD:153:GLY:CA	2.52	0.57
30:CF:134:GLN:HG2	30:CF:134:GLN:O	2.03	0.57
32:CH:34:GLY:O	32:CH:35:LYS:CB	2.53	0.57
35:CK:77:ILE:N	35:CK:77:ILE:CD1	2.67	0.57
42:CR:39:LEU:CA	42:CR:49:ILE:CG2	2.82	0.57
53:C2:27:GLY:O	53:C2:30:VAL:HB	2.04	0.57
25:DA:146:A:H2'	25:DA:147:C:H6	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:729:G:H2'	25:DA:729:G:N3	2.18	0.57
25:DA:969:G:H2'	25:DA:970:U:C6	2.40	0.57
25:DA:1014:A:C2	25:DA:1149:G:C2	2.92	0.57
25:DA:1356:G:C2	25:DA:1357:C:C6	2.92	0.57
25:DA:1413:A:C2	25:DA:1414:C:C2	2.93	0.57
28:DD:187:LEU:O	28:DD:188:LEU:HD23	2.04	0.57
29:DE:189:THR:HG22	29:DE:192:ALA:H	1.70	0.57
31:DG:112:VAL:CG1	31:DG:150:TYR:CE2	2.88	0.57
32:DH:43:ASN:O	32:DH:46:PHE:HB3	2.04	0.57
36:DL:90:VAL:HG11	36:DL:122:VAL:HG13	1.86	0.57
39:DO:14:ALA:O	39:DO:18:LEU:HD23	2.04	0.57
43:DS:59:GLU:CD	43:DS:66:ILE:HD11	2.29	0.57
46:DV:28:ALA:HB3	46:DV:42:LEU:HD21	1.86	0.57
1:AA:419:C:C2'	1:AA:420:U:O5'	2.52	0.57
1:AA:435:A:C5	1:AA:436:C:C5	2.92	0.57
1:AA:439:U:C6	1:AA:440:C:C5	2.93	0.57
1:AA:625:U:O2'	1:AA:626:G:H5'	2.03	0.57
1:AA:883:C:C2'	1:AA:884:U:H5'	2.33	0.57
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.39	0.57
2:AB:115:ASP:O	2:AB:116:LEU:HB2	2.05	0.57
2:AB:202:ASN:OD1	2:AB:203:ASP:N	2.38	0.57
3:AC:16:PRO:O	3:AC:17:TRP:HB2	2.04	0.57
4:AD:147:LYS:H	4:AD:147:LYS:HD3	1.69	0.57
5:AE:96:GLN:HB2	5:AE:123:LEU:CD1	2.35	0.57
10:AJ:33:GLY:HA3	10:AJ:83:THR:HB	1.87	0.57
11:AK:123:PRO:O	11:AK:124:LYS:O	2.22	0.57
14:AN:30:ILE:HG22	14:AN:31:SER:N	2.20	0.57
21:AU:13:VAL:O	21:AU:15:LEU:CG	2.53	0.57
1:BA:189:A:C2'	1:BA:190:A:O5'	2.52	0.57
1:BA:211:G:O2'	1:BA:212:G:O4'	2.22	0.57
1:BA:430:A:H4'	4:BD:6:PRO:HG3	1.87	0.57
1:BA:735:C:H2'	1:BA:736:C:C6	2.39	0.57
1:BA:842:U:C2	1:BA:845:A:OP1	2.57	0.57
1:BA:1387:G:C6	1:BA:1388:C:C4	2.92	0.57
2:BB:49:PHE:HB2	2:BB:212:TYR:OH	2.05	0.57
2:BB:219:THR:H	2:BB:221:ARG:HD3	1.69	0.57
5:BE:81:GLN:H	5:BE:146:MET:HE3	1.68	0.57
5:BE:100:GLU:HA	5:BE:121:ASN:CB	2.34	0.57
5:BE:149:PRO:C	5:BE:151:MET:N	2.61	0.57
6:BF:10:VAL:HG11	6:BF:18:VAL:CG2	2.34	0.57
6:BF:86:ARG:HH11	6:BF:86:ARG:HG2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:80:GLY:HA3	23:BX:11:U:H5"	1.86	0.57
9:BI:98:ARG:HA	9:BI:103:VAL:CG2	2.34	0.57
9:BI:127:SER:O	9:BI:128:LYS:C	2.47	0.57
13:BM:80:MET:O	13:BM:81:ASP:C	2.48	0.57
15:BO:20:ASP:OD2	15:BO:23:SER:HB2	2.05	0.57
15:BO:69:LEU:HD22	15:BO:77:TYR:HB2	1.87	0.57
20:BT:6:ALA:HB1	20:BT:9:ARG:HB2	1.86	0.57
25:CA:686:U:H2'	25:CA:788:A:N1	2.19	0.57
25:CA:751:A:H5'	43:CS:90:LYS:HA	1.86	0.57
25:CA:1071:G:C1'	25:CA:1089:A:C8	2.88	0.57
25:CA:1483:G:C5	25:CA:1484:U:C5	2.92	0.57
27:CC:219:VAL:O	27:CC:220:ARG:C	2.45	0.57
28:CD:57:ALA:O	28:CD:58:ASN:C	2.48	0.57
31:CG:148:ARG:HH11	31:CG:148:ARG:HG3	1.70	0.57
33:CI:83:ALA:HB1	33:CI:100:ILE:HD12	1.85	0.57
38:CN:2:ARG:O	38:CN:2:ARG:CD	2.52	0.57
46:CV:92:VAL:O	46:CV:93:ARG:C	2.47	0.57
25:DA:60:G:O2'	25:DA:61:C:O5'	2.23	0.57
25:DA:189:G:P	48:DX:25:LYS:HE2	2.44	0.57
25:DA:580:U:O3'	41:DQ:30:VAL:HG13	2.04	0.57
25:DA:2098:U:C4	25:DA:2099:U:C5	2.93	0.57
25:DA:2134:A:N6	25:DA:2157:G:O2'	2.37	0.57
25:DA:2193:G:H2'	25:DA:2194:U:C6	2.38	0.57
25:DA:2333:A:N7	25:DA:2335:A:C2	2.73	0.57
25:DA:2335:A:N7	25:DA:2337:G:C6	2.73	0.57
25:DA:2343:U:H2'	25:DA:2344:U:C6	2.40	0.57
25:DA:2642:G:C2	25:DA:2773:C:C2	2.92	0.57
25:DA:2884:U:O2	25:DA:2884:U:C4'	2.51	0.57
56:DB:45:A:C2	56:DB:46:A:N9	2.73	0.57
31:DG:21:GLN:HA	31:DG:21:GLN:OE1	2.04	0.57
31:DG:120:ILE:HD12	31:DG:140:ILE:CG2	2.35	0.57
32:DH:59:ALA:C	32:DH:62:LEU:HD12	2.30	0.57
40:DP:90:ALA:HB2	40:DP:112:ARG:HA	1.86	0.57
1:AA:22:G:C6	1:AA:23:C:N3	2.73	0.57
1:AA:104:G:N2	1:AA:105:G:C4	2.72	0.57
1:AA:410:G:H5'	1:AA:411:A:OP1	2.03	0.57
1:AA:676:A:O2'	1:AA:677:U:H5'	2.05	0.57
1:AA:1211:U:O2'	1:AA:1212:U:OP2	2.22	0.57
1:AA:1475:G:O2'	1:AA:1476:A:H5'	2.05	0.57
2:AB:40:ILE:HG21	2:AB:201:GLY:CA	2.35	0.57
3:AC:51:VAL:HG21	3:AC:67:ILE:HG23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:94:GLU:OE2	4:AD:103:ARG:NH1	2.37	0.57
5:AE:154:ALA:O	5:AE:155:LYS:C	2.47	0.57
6:AF:5:GLU:HB3	6:AF:90:MET:HE3	1.85	0.57
9:AI:39:GLY:O	9:AI:40:ARG:CB	2.52	0.57
10:AJ:33:GLY:O	10:AJ:34:ALA:HB2	2.05	0.57
13:AM:10:ASP:O	13:AM:11:HIS:HB2	2.04	0.57
13:AM:76:ILE:HG22	13:AM:80:MET:CE	2.34	0.57
15:AO:37:HIS:CD2	15:AO:37:HIS:C	2.83	0.57
21:AU:19:LYS:CA	21:AU:19:LYS:HE2	2.33	0.57
1:BA:74:A:C2	1:BA:97:G:C4	2.93	0.57
1:BA:502:A:H2'	1:BA:503:C:H6	1.70	0.57
1:BA:920:U:H2'	1:BA:921:U:H6	1.69	0.57
1:BA:1050:G:H2'	1:BA:1051:C:C6	2.40	0.57
1:BA:1217:C:H2'	1:BA:1218:C:C6	2.38	0.57
2:BB:71:THR:O	2:BB:72:LYS:CG	2.52	0.57
2:BB:218:ALA:O	2:BB:219:THR:HB	2.05	0.57
3:BC:46:LEU:HB3	3:BC:49:ALA:HB3	1.86	0.57
7:BG:74:VAL:HG21	7:BG:143:MET:HG3	1.87	0.57
9:BI:8:THR:HB	9:BI:84:ARG:HH11	1.68	0.57
10:BJ:9:ARG:O	10:BJ:98:VAL:HA	2.05	0.57
13:BM:78:ARG:O	13:BM:82:LEU:HD23	2.04	0.57
18:BR:26:ALA:HA	18:BR:29:LYS:HG2	1.86	0.57
25:CA:528:A:H3'	25:CA:528:A:H8	1.70	0.57
25:CA:1169:A:H2'	25:CA:1170:C:O4'	2.04	0.57
25:CA:1181:U:H2'	25:CA:1182:G:C8	2.39	0.57
25:CA:2473:U:C6	25:CA:2474:U:H5	2.21	0.57
32:CH:69:ALA:CB	32:CH:138:VAL:HG12	2.34	0.57
34:CJ:7:LYS:O	34:CJ:11:VAL:HG23	2.04	0.57
35:CK:114:LYS:O	35:CK:118:LEU:HG	2.04	0.57
43:CS:86:MET:HE3	43:CS:87:PRO:HD2	1.86	0.57
25:DA:558:U:OP1	34:DJ:113:PRO:HD2	2.04	0.57
25:DA:630:G:C3'	25:DA:631:A:H5"	2.34	0.57
25:DA:1090:A:N1	25:DA:1102:C:O2	2.37	0.57
25:DA:1458:U:H5'	25:DA:1459:G:C2	2.40	0.57
25:DA:1465:G:C6	25:DA:1466:U:C4	2.92	0.57
25:DA:2018:G:O2'	25:DA:2019:A:H5'	2.04	0.57
56:DB:47:C:H6	56:DB:47:C:O5'	1.88	0.57
27:DC:106:PRO:CB	27:DC:141:HIS:CE1	2.86	0.57
30:DF:63:LYS:HG2	30:DF:63:LYS:O	2.03	0.57
30:DF:92:GLY:H	30:DF:95:MET:HE2	1.70	0.57
32:DH:6:LEU:HD13	32:DH:35:LYS:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:117:LEU:HD12	32:DH:118:PRO:HD2	1.85	0.57
37:DM:66:ARG:NH1	37:DM:66:ARG:HG3	2.19	0.57
40:DP:13:LYS:HE3	40:DP:76:HIS:HA	1.87	0.57
1:AA:110:C:H2'	1:AA:111:G:O4'	2.04	0.57
1:AA:769:G:O2'	1:AA:770:C:H5'	2.05	0.57
1:AA:1183:U:OP2	1:AA:1183:U:C4'	2.52	0.57
1:AA:1312:G:N2	1:AA:1326:U:C2	2.73	0.57
1:AA:1442:G:H2'	1:AA:1443:C:O5'	2.04	0.57
20:AT:53:MET:CE	20:AT:54:GLN:HA	2.35	0.57
21:AU:25:ALA:CB	23:AX:9:G:C5'	2.83	0.57
1:BA:158:G:C4	1:BA:159:G:C8	2.93	0.57
1:BA:705:G:H21	11:BK:30:ILE:HD12	1.69	0.57
1:BA:833:G:O2'	1:BA:834:U:H5'	2.05	0.57
1:BA:920:U:C2	1:BA:921:U:C5	2.93	0.57
1:BA:974:A:C8	14:BN:71:HIS:CD2	2.92	0.57
1:BA:994:A:C8	1:BA:1216:A:H4'	2.40	0.57
1:BA:1088:G:C2	1:BA:1089:G:C4	2.93	0.57
1:BA:1130:A:C1'	1:BA:1146:A:C2	2.88	0.57
1:BA:1250:A:N7	1:BA:1287:A:N7	2.53	0.57
1:BA:1257:A:H4'	1:BA:1258:G:OP2	2.05	0.57
1:BA:1534:A:H4'	1:BA:1535:C:H6	1.69	0.57
3:BC:5:HIS:CE1	3:BC:183:TYR:CD2	2.93	0.57
8:BH:77:VAL:HG12	8:BH:78:SER:N	2.18	0.57
11:BK:125:LYS:HA	21:BU:33:ARG:HH21	1.69	0.57
25:CA:185:G:C4	25:CA:186:G:C8	2.93	0.57
25:CA:1416:G:O2'	25:CA:1417:C:H6	1.86	0.57
25:CA:1501:G:H4'	27:CC:94:LEU:HD21	1.86	0.57
25:CA:2801:G:H2'	25:CA:2802:G:C8	2.40	0.57
30:CF:43:ILE:HG22	30:CF:82:TYR:CZ	2.39	0.57
30:CF:66:ILE:O	30:CF:66:ILE:HD12	2.04	0.57
32:CH:31:VAL:CB	32:CH:32:PRO:CD	2.83	0.57
46:CV:25:LYS:HE2	46:CV:43:ASP:HA	1.87	0.57
48:CX:58:ILE:HG13	48:CX:66:VAL:HG21	1.86	0.57
49:CY:36:GLN:O	49:CY:37:LEU:HB3	2.05	0.57
25:DA:282:A:H2'	25:DA:283:G:C8	2.39	0.57
25:DA:720:U:H2'	25:DA:721:A:C8	2.40	0.57
25:DA:1021:A:H3'	25:DA:1021:A:N3	2.19	0.57
25:DA:1176:U:C4	25:DA:1177:G:C6	2.92	0.57
25:DA:1348:C:H5"	25:DA:1349:C:OP2	2.05	0.57
25:DA:1837:C:O2'	25:DA:1927:A:N3	2.30	0.57
25:DA:2209:G:C8	25:DA:2210:U:C6	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DB:43:C:H1'	30:DF:89:THR:HG22	1.85	0.57
29:DE:126:VAL:HG21	29:DE:133:LEU:HB3	1.85	0.57
30:DF:104:THR:HG22	30:DF:105:ILE:HG22	1.87	0.57
37:DM:66:ARG:HG3	37:DM:66:ARG:HH11	1.70	0.57
41:DQ:59:LEU:O	41:DQ:60:TRP:C	2.45	0.57
57:DW:17:LEU:HA	57:DW:35:ARG:HB2	1.87	0.57
1:AA:131:A:C6	1:AA:132:C:N4	2.73	0.57
1:AA:164:G:C2'	1:AA:165:G:H5'	2.34	0.57
1:AA:376:G:C4	1:AA:389:A:C2	2.93	0.57
1:AA:519:C:H2'	1:AA:520:A:C8	2.40	0.57
1:AA:1493:A:OP2	1:AA:1493:A:C8	2.55	0.57
2:AB:150:ILE:HG13	2:AB:151:LYS:N	2.20	0.57
8:AH:74:ILE:HD13	8:AH:128:VAL:HG13	1.87	0.57
9:AI:5:TYR:HB3	9:AI:88:GLU:CG	2.35	0.57
9:AI:28:VAL:HG11	9:AI:31:GLN:HA	1.87	0.57
9:AI:98:ARG:CD	9:AI:103:VAL:HG21	2.35	0.57
13:AM:40:GLU:CG	13:AM:41:ASP:N	2.68	0.57
19:AS:48:ILE:H	19:AS:48:ILE:HD12	1.68	0.57
1:BA:115:G:H4'	1:BA:116:A:O5'	2.04	0.57
1:BA:462:G:C5'	1:BA:463:U:OP2	2.52	0.57
1:BA:1151:A:N3	1:BA:1152:A:N7	2.52	0.57
1:BA:1310:G:C6	1:BA:1311:A:C5	2.93	0.57
2:BB:118:THR:O	2:BB:119:GLN:HB3	2.05	0.57
3:BC:5:HIS:HE1	3:BC:183:TYR:CD2	2.23	0.57
3:BC:99:GLN:O	3:BC:100:ILE:CB	2.53	0.57
4:BD:75:TYR:C	4:BD:75:TYR:CD1	2.82	0.57
7:BG:30:MET:HG2	7:BG:30:MET:O	2.04	0.57
7:BG:143:MET:O	7:BG:143:MET:HE3	2.05	0.57
8:BH:101:ALA:HB3	8:BH:112:ASP:HB3	1.86	0.57
9:BI:60:LEU:HD23	9:BI:60:LEU:N	2.20	0.57
12:BL:87:LYS:O	12:BL:87:LYS:HG3	2.04	0.57
13:BM:10:ASP:O	13:BM:11:HIS:HB2	2.03	0.57
19:BS:29:PRO:HA	19:BS:47:THR:O	2.04	0.57
20:BT:77:ASN:O	20:BT:81:GLN:HG2	2.05	0.57
25:CA:183:C:H2'	25:CA:184:C:H5'	1.87	0.57
25:CA:281:C:H2'	25:CA:282:A:C8	2.40	0.57
25:CA:834:G:N3	25:CA:2358:A:H1'	2.19	0.57
25:CA:1171:G:C5	25:CA:1172:C:N3	2.73	0.57
25:CA:2314:A:H2'	25:CA:2315:G:C8	2.40	0.57
25:CA:2722:G:H4'	38:CN:4:ARG:HB2	1.87	0.57
27:CC:257:ARG:NH1	27:CC:263:ASP:OD2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CD:96:ILE:HG22	28:CD:97:SER:N	2.19	0.57
30:CF:48:LEU:HD12	30:CF:51:ASN:HD21	1.68	0.57
31:CG:15:ASP:HB2	31:CG:26:LYS:HG3	1.86	0.57
35:CK:121:GLU:O	35:CK:122:VAL:O	2.23	0.57
37:CM:90:GLU:O	37:CM:91:TYR:HB3	2.02	0.57
41:CQ:86:SER:CB	42:CR:51:VAL:HA	2.35	0.57
45:CU:53:GLN:N	45:CU:54:PRO:CD	2.67	0.57
49:CY:56:LEU:O	49:CY:57:LEU:HB2	2.05	0.57
53:C2:30:VAL:HG12	53:C2:31:LEU:N	2.19	0.57
54:C3:16:THR:HG21	54:C3:48:MET:HE1	1.86	0.57
25:DA:1073:A:H2'	25:DA:1074:G:H5'	1.85	0.57
25:DA:1412:U:O2	25:DA:1591:A:C2	2.57	0.57
25:DA:1414:C:C4	25:DA:1415:U:C5	2.93	0.57
25:DA:2799:A:O2'	25:DA:2800:A:C5'	2.53	0.57
29:DE:2:GLU:OE2	29:DE:13:THR:HG23	2.04	0.57
29:DE:119:ILE:O	29:DE:187:VAL:HA	2.04	0.57
30:DF:92:GLY:O	30:DF:95:MET:HB3	2.05	0.57
1:AA:437:U:C4	1:AA:438:U:C5	2.93	0.57
1:AA:470:C:C2	1:AA:471:U:C5	2.93	0.57
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.05	0.57
1:AA:1216:A:C2	1:AA:1217:C:C4	2.93	0.57
1:AA:1340:A:H2'	1:AA:1341:U:O4'	2.05	0.57
2:AB:66:ILE:HG21	2:AB:68:PHE:CE2	2.40	0.57
2:AB:75:ALA:O	2:AB:76:SER:C	2.48	0.57
2:AB:79:VAL:O	2:AB:83:ALA:HB3	2.05	0.57
2:AB:138:ARG:HG3	2:AB:139:GLU:N	2.19	0.57
4:AD:77:GLU:HA	4:AD:77:GLU:OE1	2.03	0.57
4:AD:151:GLN:O	4:AD:152:SER:C	2.47	0.57
5:AE:15:ILE:HD12	5:AE:15:ILE:N	2.20	0.57
9:AI:126:PHE:CD2	9:AI:126:PHE:C	2.82	0.57
12:AL:42:LYS:O	12:AL:43:LYS:C	2.47	0.57
13:AM:32:ILE:HG22	13:AM:33:LEU:N	2.18	0.57
13:AM:49:GLU:O	13:AM:50:GLY:C	2.47	0.57
17:AQ:13:SER:HB3	17:AQ:21:VAL:HG12	1.85	0.57
20:AT:35:TYR:HA	20:AT:38:ILE:HD12	1.87	0.57
21:AU:18:PHE:O	21:AU:21:SER:HB3	2.05	0.57
22:AV:64:A:C2	22:AV:65:G:C8	2.93	0.57
24:AY:107:THR:HG23	24:AY:110:ARG:HG2	1.87	0.57
1:BA:62:U:O2'	1:BA:379:C:H1'	2.05	0.57
1:BA:180:U:H2'	1:BA:181:A:O5'	2.05	0.57
1:BA:234:C:H2'	1:BA:235:C:C6	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:649:A:H2'	1:BA:650:G:O4'	2.04	0.57
1:BA:677:U:H1'	11:BK:120:CYS:SG	2.44	0.57
1:BA:1256:A:N7	1:BA:1258:G:N2	2.52	0.57
1:BA:1490:U:O2'	1:BA:1491:G:H5'	2.05	0.57
2:BB:91:VAL:HG11	2:BB:99:MET:HE1	1.87	0.57
4:BD:165:GLU:O	4:BD:166:LYS:O	2.23	0.57
4:BD:195:ASN:HB3	4:BD:197:HIS:HD2	1.69	0.57
6:BF:6:ILE:HD12	6:BF:6:ILE:N	2.19	0.57
8:BH:46:GLU:N	8:BH:63:LYS:HG3	2.19	0.57
9:BI:18:VAL:HA	9:BI:64:ILE:HG22	1.87	0.57
11:BK:83:VAL:HG11	11:BK:96:ILE:HG22	1.87	0.57
13:BM:86:ARG:HG2	13:BM:96:VAL:HG12	1.87	0.57
25:CA:1070:A:O2'	25:CA:1097:U:OP1	2.22	0.57
25:CA:1495:A:C2'	25:CA:1496:A:O5'	2.53	0.57
25:CA:2102:G:H5'	25:CA:2103:C:OP2	2.04	0.57
26:CB:102:G:H2'	26:CB:103:U:H5'	1.87	0.57
29:CE:115:GLN:O	29:CE:116:ASP:HB2	2.04	0.57
31:CG:148:ARG:CG	31:CG:148:ARG:NH1	2.67	0.57
36:CL:30:THR:O	36:CL:33:ARG:HG2	2.05	0.57
40:CP:72:VAL:CG2	40:CP:72:VAL:O	2.53	0.57
43:CS:41:LYS:O	43:CS:42:LYS:C	2.46	0.57
45:CU:53:GLN:N	45:CU:54:PRO:HD3	2.19	0.57
25:DA:88:G:C2'	25:DA:89:A:H5'	2.34	0.57
25:DA:1068:G:H2'	25:DA:1068:G:N3	2.19	0.57
25:DA:1084:A:C5	25:DA:1085:A:C5	2.93	0.57
25:DA:1339:G:H21	25:DA:1603:A:H1'	1.70	0.57
25:DA:1455:G:P	60:DA:3417:HOH:O	2.63	0.57
25:DA:1786:A:C4	25:DA:1938:A:C6	2.93	0.57
25:DA:1966:A:N3	25:DA:2592:G:O2'	2.32	0.57
25:DA:2303:G:O2'	25:DA:2304:G:H5'	2.04	0.57
25:DA:2415:G:H2'	25:DA:2416:C:C6	2.39	0.57
25:DA:2663:G:C4	25:DA:2664:G:C8	2.93	0.57
25:DA:2847:U:H2'	25:DA:2848:G:O5'	2.05	0.57
25:DA:2898:U:H2'	25:DA:2899:A:H8	1.70	0.57
32:DH:9:VAL:CG1	32:DH:12:LEU:HG	2.35	0.57
32:DH:50:ARG:CZ	32:DH:50:ARG:CA	2.83	0.57
36:DL:19:LEU:HD12	36:DL:19:LEU:N	2.20	0.57
39:DO:92:PHE:HB2	39:DO:117:PHE:CD1	2.40	0.57
40:DP:11:GLN:HB2	40:DP:54:LEU:HD21	1.87	0.57
40:DP:113:LEU:O	40:DP:113:LEU:HG	2.04	0.57
43:DS:43:ALA:HA	43:DS:46:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:35:ALA:HB3	44:DT:38:ALA:HB2	1.86	0.57
46:DV:63:ILE:HD11	46:DV:91:PHE:CE1	2.40	0.57
1:AA:65:A:C2	1:AA:381:C:C6	2.93	0.56
1:AA:274:A:H5"	17:AQ:15:LYS:HE2	1.87	0.56
1:AA:412:A:H4'	1:AA:413:G:OP1	2.04	0.56
1:AA:1049:U:C4'	1:AA:1050:G:OP2	2.53	0.56
1:AA:1299:A:O2'	1:AA:1300:G:H4'	2.05	0.56
4:AD:193:ASP:C	4:AD:194:ILE:HG22	2.29	0.56
5:AE:108:GLY:HA2	5:AE:111:ARG:HB3	1.87	0.56
5:AE:154:ALA:HB1	8:AH:65:PHE:CZ	2.40	0.56
7:AG:14:ASP:CB	7:AG:19:SER:HB3	2.35	0.56
7:AG:87:PRO:HD3	7:AG:147:ASN:HB2	1.86	0.56
13:AM:10:ASP:OD1	13:AM:11:HIS:N	2.38	0.56
13:AM:89:ARG:HD3	13:AM:95:PRO:O	2.05	0.56
20:AT:50:PHE:O	20:AT:53:MET:HG3	2.05	0.56
21:AU:40:PRO:HA	21:AU:44:ARG:HH11	1.68	0.56
22:AV:75:C:O4'	25:CA:2432:A:H1'	2.05	0.56
24:AY:59:THR:HG22	24:AY:60:VAL:N	2.20	0.56
24:AY:107:THR:CG2	24:AY:110:ARG:HG2	2.35	0.56
24:AY:155:ARG:O	24:AY:156:ARG:C	2.47	0.56
1:BA:158:G:C2'	1:BA:159:G:H5"	2.35	0.56
1:BA:565:U:OP2	1:BA:566:G:O2'	2.23	0.56
1:BA:631:C:H5"	1:BA:632:U:H5'	1.86	0.56
1:BA:645:G:C6	1:BA:646:G:N7	2.73	0.56
1:BA:918:A:H2'	1:BA:919:A:C8	2.40	0.56
1:BA:1351:U:H4'	7:BG:32:ASP:CG	2.30	0.56
1:BA:1397:C:O4'	1:BA:1397:C:O2	2.21	0.56
1:BA:1444:U:H2'	1:BA:1445:U:O5'	2.05	0.56
1:BA:1492:A:H3'	1:BA:1493:A:C8	2.40	0.56
11:BK:104:PHE:O	11:BK:106:ILE:N	2.38	0.56
13:BM:23:GLY:HA2	13:BM:68:LEU:CD2	2.34	0.56
16:BP:17:TYR:N	16:BP:17:TYR:CD1	2.73	0.56
16:BP:19:VAL:HG13	16:BP:38:PHE:N	2.19	0.56
17:BQ:60:ILE:HA	17:BQ:74:LEU:HA	1.87	0.56
25:CA:1060:U:H5'	25:CA:1062:G:H5'	1.85	0.56
25:CA:1474:U:C2'	25:CA:1475:G:H5'	2.34	0.56
25:CA:1731:G:N1	25:CA:1733:G:C4	2.73	0.56
25:CA:1838:C:C5	25:CA:1899:A:C5	2.93	0.56
25:CA:2331:G:N2	25:CA:2385:C:C6	2.73	0.56
25:CA:2491:U:H5"	25:CA:2570:G:H5"	1.87	0.56
25:CA:2579:C:H6	25:CA:2579:C:O5'	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:100:GLU:O	30:CF:101:ARG:C	2.47	0.56
38:CN:12:ARG:NH1	38:CN:20:MET:HE1	2.20	0.56
25:DA:71:A:OP2	25:DA:113:U:H5'	2.04	0.56
25:DA:149:A:H2'	25:DA:150:U:H6	1.70	0.56
25:DA:1440:U:C4	25:DA:1552:A:H2	2.23	0.56
25:DA:1567:G:O2'	27:DC:84:PRO:HG3	2.05	0.56
25:DA:1670:C:C5	25:DA:1671:U:N3	2.73	0.56
25:DA:1682:G:H2'	25:DA:1683:U:C6	2.40	0.56
25:DA:2098:U:C2'	25:DA:2099:U:H5'	2.35	0.56
25:DA:2531:A:N3	25:DA:2658:C:O2'	2.29	0.56
56:DB:49:C:O3'	39:DO:68:LYS:HE2	2.05	0.56
31:DG:145:ALA:O	31:DG:148:ARG:N	2.37	0.56
34:DJ:7:LYS:O	34:DJ:11:VAL:HG22	2.04	0.56
36:DL:50:PHE:CZ	36:DL:52:GLY:O	2.57	0.56
38:DN:69:ARG:C	38:DN:70:THR:HG23	2.30	0.56
39:DO:93:ASP:OD2	39:DO:95:SER:CA	2.52	0.56
44:DT:80:TRP:CZ3	44:DT:82:LYS:HB2	2.39	0.56
1:AA:304:U:O2'	1:AA:305:G:H5'	2.05	0.56
1:AA:376:G:H5"	16:AP:5:ARG:HB3	1.86	0.56
1:AA:693:G:C6	1:AA:694:A:C5	2.93	0.56
1:AA:775:G:C2'	1:AA:776:G:H5'	2.35	0.56
1:AA:1066:C:C5'	1:AA:1067:A:OP2	2.52	0.56
5:AE:45:VAL:HG13	5:AE:117:ALA:HB2	1.87	0.56
11:AK:22:ILE:CG1	11:AK:85:VAL:HG22	2.35	0.56
14:AN:61:ARG:O	14:AN:62:ASN:CB	2.54	0.56
14:AN:91:GLY:O	14:AN:93:ILE:N	2.37	0.56
17:AQ:74:LEU:O	17:AQ:74:LEU:HD12	2.04	0.56
22:AV:12:U:H2'	22:AV:13:C:O5'	2.05	0.56
1:BA:22:G:H2'	1:BA:23:C:C6	2.40	0.56
1:BA:98:A:H2'	1:BA:99:C:C6	2.40	0.56
1:BA:210:C:H5"	1:BA:211:G:OP1	2.05	0.56
1:BA:502:A:H2'	1:BA:503:C:C6	2.40	0.56
1:BA:979:C:C6	1:BA:1318:A:N1	2.72	0.56
1:BA:1009:U:C2'	1:BA:1010:U:H5'	2.35	0.56
1:BA:1061:G:C5'	10:BJ:61:ALA:HB2	2.35	0.56
1:BA:1275:A:H2'	1:BA:1276:G:O4'	2.05	0.56
1:BA:1298:U:O2	1:BA:1298:U:C2'	2.52	0.56
2:BB:168:GLU:O	2:BB:169:HIS:C	2.48	0.56
3:BC:144:GLY:O	3:BC:145:ALA:O	2.23	0.56
5:BE:99:SER:O	5:BE:101:GLY:N	2.37	0.56
10:BJ:5:ARG:HG3	10:BJ:6:ILE:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BO:1:SER:O	15:BO:2:LEU:HB2	2.05	0.56
18:BR:66:LEU:HD23	18:BR:66:LEU:N	2.20	0.56
25:CA:273:G:N2	25:CA:365:U:O2	2.38	0.56
25:CA:1533:C:H2'	25:CA:1533:C:O2	2.04	0.56
25:CA:1907:G:C6	25:CA:1908:C:C4	2.93	0.56
25:CA:2577:A:H5"	25:CA:2578:G:H5'	1.86	0.56
28:CD:103:ASP:OD1	28:CD:104:VAL:N	2.38	0.56
30:CF:151:LEU:HD12	30:CF:152:ASP:H	1.71	0.56
32:CH:4:ILE:HD11	32:CH:44:ILE:HA	1.87	0.56
36:CL:107:PHE:N	36:CL:107:PHE:CD2	2.72	0.56
37:CM:43:ALA:O	37:CM:45:GLN:N	2.37	0.56
48:CX:63:ILE:HD11	48:CX:67:LEU:HG	1.86	0.56
25:DA:27:G:N2	25:DA:512:G:H1'	2.19	0.56
25:DA:143:C:O2	44:DT:1:MET:N	2.36	0.56
25:DA:230:G:C4	25:DA:231:A:C8	2.94	0.56
25:DA:260:G:C6	25:DA:261:G:N7	2.72	0.56
25:DA:1252:G:N3	41:DQ:32:ARG:HG2	2.18	0.56
25:DA:1362:C:C2'	25:DA:1363:C:H5'	2.35	0.56
25:DA:1710:G:C4	25:DA:1749:A:C2	2.94	0.56
25:DA:1866:A:C2	25:DA:1876:A:C4	2.93	0.56
25:DA:2473:U:O2	25:DA:2473:U:H2'	2.05	0.56
25:DA:2674:G:H4'	35:DK:30:ARG:HD2	1.86	0.56
56:DB:116:G:OP1	39:DO:55:GLU:HG2	2.04	0.56
32:DH:16:GLY:C	32:DH:17:ASP:OD1	2.48	0.56
35:DK:22:ILE:CG2	35:DK:42:THR:HG22	2.35	0.56
37:DM:21:ALA:N	37:DM:97:GLN:HB2	2.20	0.56
40:DP:24:THR:HB	40:DP:87:ARG:HB3	1.86	0.56
40:DP:99:LEU:C	40:DP:101:GLU:H	2.10	0.56
1:AA:541:G:H2'	1:AA:542:G:O4'	2.06	0.56
1:AA:1030:U:H5'	1:AA:1031:C:O2	2.05	0.56
1:AA:1114:C:C2	1:AA:1115:U:C6	2.93	0.56
1:AA:1142:G:N2	1:AA:1143:G:H1'	2.20	0.56
1:AA:1234:C:H2'	1:AA:1235:U:H6	1.68	0.56
1:AA:1410:A:H2'	1:AA:1411:C:C6	2.40	0.56
1:AA:1525:G:OP1	11:AK:121:ARG:NH2	2.37	0.56
2:AB:23:ASN:ND2	2:AB:191:ASP:HA	2.21	0.56
2:AB:53:LEU:HD21	2:AB:212:TYR:CE2	2.40	0.56
2:AB:55:GLU:HA	2:AB:58:LYS:HB2	1.88	0.56
2:AB:59:ILE:C	2:AB:59:ILE:HD12	2.30	0.56
2:AB:185:ILE:HA	2:AB:199:ILE:HB	1.86	0.56
3:AC:171:ARG:O	3:AC:172:VAL:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:94:PHE:CD1	5:AE:94:PHE:C	2.82	0.56
6:AF:1:MET:HE2	6:AF:67:PRO:HD3	1.88	0.56
9:AI:11:ARG:HH11	9:AI:11:ARG:CG	2.19	0.56
12:AL:2:THR:HG22	12:AL:4:ASN:N	2.20	0.56
15:AO:86:LEU:N	15:AO:86:LEU:HD23	2.20	0.56
22:AV:69:G:O2'	22:AV:70:G:H5'	2.05	0.56
1:BA:4:U:OP1	1:BA:5:U:O4	2.21	0.56
1:BA:107:G:H2'	1:BA:108:G:H5"	1.86	0.56
1:BA:164:G:C2'	1:BA:165:G:H5'	2.35	0.56
1:BA:689:C:OP2	11:BK:52:ARG:NH2	2.39	0.56
1:BA:853:C:O2'	1:BA:854:U:H5'	2.06	0.56
1:BA:919:A:C2	1:BA:920:U:C5	2.93	0.56
1:BA:969:A:C4	1:BA:970:C:C6	2.93	0.56
1:BA:996:A:C2	1:BA:1046:A:H4'	2.41	0.56
1:BA:1124:G:N2	1:BA:1127:G:C2	2.74	0.56
1:BA:1346:A:N1	1:BA:1374:A:H5"	2.20	0.56
1:BA:1379:G:N7	7:BG:1:PRO:HB2	2.20	0.56
2:BB:99:MET:O	2:BB:103:TRP:CB	2.54	0.56
2:BB:133:ALA:O	2:BB:137:THR:HG23	2.05	0.56
3:BC:56:ILE:HG13	3:BC:65:VAL:HG22	1.88	0.56
3:BC:149:LYS:HG3	3:BC:200:TRP:CZ3	2.40	0.56
4:BD:21:LYS:O	4:BD:22:SER:C	2.48	0.56
5:BE:45:VAL:HG22	5:BE:117:ALA:HB2	1.87	0.56
7:BG:58:LEU:HG	7:BG:59:GLU:H	1.70	0.56
9:BI:25:GLY:O	9:BI:62:LEU:HD21	2.06	0.56
9:BI:45:MET:HA	9:BI:47:VAL:HG23	1.86	0.56
10:BJ:5:ARG:HG2	10:BJ:79:PRO:HD3	1.86	0.56
12:BL:23:LEU:C	12:BL:25:ALA:N	2.62	0.56
14:BN:48:LEU:O	14:BN:51:LEU:HD21	2.05	0.56
14:BN:49:GLN:OE1	14:BN:49:GLN:HA	2.06	0.56
17:BQ:44:HIS:HB2	17:BQ:69:THR:HG22	1.87	0.56
17:BQ:60:ILE:O	17:BQ:61:ARG:HB3	2.04	0.56
22:BV:20:U:O4'	22:BV:20:U:P	2.64	0.56
25:CA:207:A:H2'	25:CA:208:C:O4'	2.06	0.56
25:CA:277:G:C1'	25:CA:361:G:O6	2.54	0.56
25:CA:359:G:C5	25:CA:360:U:C5	2.93	0.56
25:CA:528:A:C2	25:CA:2042:A:H2'	2.40	0.56
25:CA:528:A:C2	25:CA:2043:C:C5'	2.86	0.56
25:CA:557:C:H2'	25:CA:558:U:C6	2.39	0.56
25:CA:851:C:H2'	25:CA:852:U:H6	1.71	0.56
25:CA:1061:U:O2	33:CI:9:LYS:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1234:U:C2'	25:CA:1235:G:O5'	2.53	0.56
25:CA:1327:A:H2'	25:CA:1328:A:O4'	2.06	0.56
25:CA:1414:C:C4	25:CA:1415:U:H5	2.22	0.56
25:CA:1694:C:H4'	25:CA:1695:G:O5'	2.05	0.56
25:CA:2078:C:O2'	25:CA:2079:U:H5'	2.06	0.56
25:CA:2091:C:O2'	48:CX:55:MET:CE	2.54	0.56
25:CA:2153:C:H2'	25:CA:2154:A:O4'	2.05	0.56
25:CA:2205:A:H2'	25:CA:2206:C:C6	2.40	0.56
25:CA:2304:G:C1'	30:CF:128:SER:HB3	2.34	0.56
28:CD:187:LEU:C	28:CD:188:LEU:HD23	2.30	0.56
30:CF:11:VAL:HG13	30:CF:171:ALA:CB	2.35	0.56
30:CF:13:LYS:HG3	30:CF:14:LYS:N	2.20	0.56
31:CG:124:CYS:HA	31:CG:129:GLU:O	2.04	0.56
32:CH:72:ILE:CG2	32:CH:140:ALA:HB1	2.35	0.56
35:CK:77:ILE:HG22	35:CK:78:ARG:N	2.21	0.56
36:CL:87:GLY:O	36:CL:89:VAL:N	2.37	0.56
40:CP:30:TRP:CE3	40:CP:39:LEU:CD1	2.88	0.56
41:CQ:68:ALA:HB1	41:CQ:73:ILE:O	2.05	0.56
44:CT:19:LYS:O	44:CT:20:ALA:C	2.49	0.56
46:CV:61:LEU:N	46:CV:61:LEU:HD13	2.21	0.56
51:C0:53:VAL:O	51:C0:54:ILE:C	2.45	0.56
52:C1:28:THR:O	52:C1:29:LYS:HG2	2.05	0.56
25:DA:90:U:H3'	25:DA:91:A:H8	1.71	0.56
25:DA:454:A:H4'	25:DA:455:C:OP2	2.05	0.56
25:DA:535:G:C2'	25:DA:536:G:H5'	2.36	0.56
25:DA:1002:G:C5	25:DA:1003:G:C8	2.94	0.56
25:DA:1064:C:H4'	33:DI:90:GLY:H	1.70	0.56
25:DA:1091:G:N3	25:DA:1092:C:C6	2.73	0.56
25:DA:1197:G:H2'	25:DA:1198:U:H6	1.69	0.56
25:DA:1353:A:C2	25:DA:1378:A:C2	2.93	0.56
25:DA:1356:G:H21	25:DA:1357:C:H1'	1.70	0.56
25:DA:1486:U:C2	25:DA:1504:A:H2	2.23	0.56
25:DA:1670:C:C4	25:DA:1671:U:N3	2.73	0.56
25:DA:1672:A:C2	25:DA:1673:G:C4	2.93	0.56
25:DA:1778:U:H2'	25:DA:1784:A:N6	2.20	0.56
25:DA:2039:U:H2'	25:DA:2040:G:H8	1.71	0.56
25:DA:2091:C:O3'	48:DX:55:MET:HE1	2.05	0.56
25:DA:2204:G:C2	25:DA:2205:A:C8	2.93	0.56
25:DA:2308:G:O6	30:DF:76:PHE:HE2	1.89	0.56
25:DA:2493:U:H2'	25:DA:2494:G:O5'	2.05	0.56
25:DA:2847:U:C2'	25:DA:2848:G:O5'	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DB:28:C:N3	56:DB:56:G:O6	2.37	0.56
28:DD:100:LEU:HD12	28:DD:100:LEU:O	2.05	0.56
30:DF:51:ASN:O	30:DF:52:ALA:C	2.48	0.56
31:DG:10:VAL:HG23	31:DG:14:VAL:HB	1.86	0.56
31:DG:106:LEU:HD13	31:DG:150:TYR:HB3	1.87	0.56
31:DG:120:ILE:HD12	31:DG:140:ILE:HG23	1.86	0.56
32:DH:32:PRO:O	32:DH:33:GLN:CB	2.52	0.56
33:DI:35:MET:O	33:DI:37:PHE:N	2.39	0.56
34:DJ:30:THR:HG22	34:DJ:31:GLU:N	2.19	0.56
34:DJ:101:ILE:O	34:DJ:105:VAL:HG23	2.05	0.56
36:DL:10:GLU:OE1	36:DL:10:GLU:CA	2.53	0.56
44:DT:51:PHE:O	44:DT:52:GLU:C	2.49	0.56
46:DV:75:GLN:HB2	46:DV:92:VAL:HG23	1.88	0.56
52:D1:49:LYS:O	52:D1:50:GLU:HB3	2.05	0.56
1:AA:198:G:C5	1:AA:199:A:N7	2.74	0.56
1:AA:500:G:C6	1:AA:546:A:C2	2.93	0.56
1:AA:714:G:H2'	1:AA:715:A:C8	2.41	0.56
1:AA:1054:C:H4'	1:AA:1055:A:OP1	2.04	0.56
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.67	0.56
1:AA:1502:A:N7	1:AA:1504:G:C4	2.73	0.56
2:AB:39:ILE:N	2:AB:39:ILE:HD13	2.20	0.56
5:AE:119:VAL:HG21	5:AE:122:VAL:HG11	1.87	0.56
9:AI:43:ALA:N	9:AI:45:MET:SD	2.78	0.56
11:AK:15:VAL:O	11:AK:16:SER:CB	2.54	0.56
12:AL:113:ARG:NH2	12:AL:120:ARG:HG2	2.20	0.56
17:AQ:16:MET:HG2	17:AQ:19:SER:CB	2.36	0.56
1:BA:558:G:H8	1:BA:558:G:O5'	1.88	0.56
1:BA:601:G:O2'	1:BA:602:A:H5'	2.06	0.56
1:BA:939:G:C6	1:BA:940:C:C4	2.94	0.56
1:BA:1182:G:C5'	1:BA:1184:G:H5"	2.36	0.56
1:BA:1250:A:O2'	1:BA:1251:A:H5'	2.06	0.56
1:BA:1347:G:C8	9:BI:108:ARG:HB3	2.40	0.56
5:BE:153:ALA:HA	5:BE:156:ARG:C	2.30	0.56
9:BI:106:ASP:OD2	9:BI:108:ARG:HG3	2.06	0.56
25:CA:363:G:H2'	25:CA:364:C:C6	2.40	0.56
25:CA:1536:C:O4'	25:CA:1537:G:C2	2.58	0.56
25:CA:1734:G:C4	25:CA:1735:A:C8	2.93	0.56
25:CA:2009:A:OP1	43:CS:41:LYS:HE2	2.06	0.56
25:CA:2164:C:H3'	25:CA:2165:C:C6	2.40	0.56
25:CA:2360:G:H1'	36:CL:60:ARG:HD3	1.87	0.56
25:CA:2786:U:C2'	25:CA:2787:C:H5'	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2886:A:C2	25:CA:2887:A:H1'	2.40	0.56
25:CA:2897:U:H2'	25:CA:2898:U:C6	2.41	0.56
27:CC:161:VAL:HG22	27:CC:175:LEU:HD23	1.87	0.56
30:CF:56:LEU:CD1	30:CF:64:PRO:HB3	2.34	0.56
33:CI:18:ASN:ND2	33:CI:27:LEU:HD21	2.20	0.56
34:CJ:88:THR:O	34:CJ:89:PHE:C	2.47	0.56
36:CL:79:LEU:O	36:CL:82:LEU:HD22	2.05	0.56
36:CL:81:ASP:C	36:CL:83:ALA:H	2.14	0.56
41:CQ:13:HIS:O	41:CQ:14:LYS:C	2.48	0.56
25:DA:60:G:C4	25:DA:74:A:N1	2.74	0.56
25:DA:480:A:OP2	45:DU:43:LYS:CE	2.53	0.56
25:DA:1105:U:H2'	25:DA:1106:G:H8	1.70	0.56
25:DA:2105:U:C5	25:DA:2106:U:C5	2.93	0.56
25:DA:2204:G:C4	25:DA:2205:A:C8	2.93	0.56
27:DC:159:THR:H	27:DC:194:VAL:HG13	1.70	0.56
31:DG:1:SER:C	31:DG:3:VAL:N	2.60	0.56
34:DJ:117:ALA:C	34:DJ:119:PHE:N	2.62	0.56
38:DN:86:ARG:HD3	38:DN:117:ASP:OD2	2.06	0.56
40:DP:100:ARG:C	40:DP:101:GLU:HG2	2.31	0.56
1:AA:53:A:H2'	1:AA:54:C:O4'	2.04	0.56
1:AA:55:A:C4	1:AA:56:U:C6	2.94	0.56
1:AA:482:A:H2'	1:AA:483:C:O4'	2.05	0.56
1:AA:707:U:H2'	1:AA:708:C:C6	2.40	0.56
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.88	0.56
1:AA:1134:G:C2	1:AA:1135:U:H1'	2.40	0.56
1:AA:1299:A:H2'	1:AA:1299:A:N3	2.19	0.56
1:AA:1299:A:C2	1:AA:1301:U:N3	2.74	0.56
3:AC:135:ARG:O	3:AC:136:ALA:C	2.48	0.56
4:AD:7:LYS:NZ	4:AD:21:LYS:HG3	2.20	0.56
4:AD:48:SER:O	4:AD:52:VAL:HG13	2.05	0.56
9:AI:18:VAL:HA	9:AI:64:ILE:HG22	1.88	0.56
10:AJ:32:THR:HG23	10:AJ:33:GLY:N	2.21	0.56
19:AS:10:ILE:HG21	19:AS:40:PHE:CE2	2.41	0.56
21:AU:33:ARG:CZ	21:AU:34:ARG:HB2	2.35	0.56
22:AV:52:G:C6	22:AV:63:G:C6	2.94	0.56
1:BA:71:A:C2'	1:BA:72:A:O5'	2.54	0.56
1:BA:188:C:O2	1:BA:188:C:C2'	2.52	0.56
1:BA:374:A:O2'	1:BA:375:U:H5'	2.05	0.56
1:BA:622:A:H3'	1:BA:623:C:H6	1.70	0.56
1:BA:1061:G:N7	1:BA:1062:U:C5	2.74	0.56
1:BA:1348:U:O3'	9:BI:121:ARG:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1364:U:H2'	1:BA:1364:U:O2	2.04	0.56
1:BA:1537:U:H3'	1:BA:1538:C:C6	2.40	0.56
2:BB:59:ILE:HD12	2:BB:60:ALA:N	2.21	0.56
2:BB:63:LYS:C	2:BB:63:LYS:CD	2.78	0.56
2:BB:86:CYS:C	2:BB:88:GLN:H	2.14	0.56
3:BC:110:LEU:CD2	3:BC:110:LEU:N	2.68	0.56
4:BD:58:GLN:O	4:BD:62:ARG:HG2	2.05	0.56
5:BE:21:SER:HB2	5:BE:30:PHE:CE2	2.40	0.56
7:BG:7:GLY:O	7:BG:8:GLN:HB3	2.04	0.56
7:BG:70:PRO:HA	7:BG:137:ARG:HG3	1.87	0.56
7:BG:79:VAL:HG12	7:BG:80:GLY:H	1.70	0.56
9:BI:7:GLY:CA	9:BI:84:ARG:HB3	2.36	0.56
25:CA:31:C:O3'	25:CA:1238:G:H5"	2.05	0.56
25:CA:1470:A:N6	25:CA:1521:G:H1'	2.20	0.56
25:CA:1494:A:C6	25:CA:1495:A:C6	2.93	0.56
25:CA:1678:A:N7	60:CA:3441:HOH:O	2.33	0.56
25:CA:2223:G:C2'	25:CA:2224:G:H5'	2.35	0.56
25:CA:2256:G:H2'	25:CA:2257:U:O5'	2.05	0.56
28:CD:100:LEU:O	28:CD:100:LEU:HD12	2.04	0.56
38:CN:13:ASN:C	38:CN:13:ASN:ND2	2.61	0.56
39:CO:31:THR:HG22	39:CO:33:ARG:N	2.21	0.56
39:CO:71:ALA:HB1	39:CO:106:LEU:HB2	1.87	0.56
46:CV:39:ALA:O	46:CV:40:ILE:HD13	2.05	0.56
25:DA:38:A:H2'	25:DA:39:G:O4'	2.05	0.56
25:DA:691:C:C2'	25:DA:692:C:H5'	2.36	0.56
25:DA:1167:C:H2'	25:DA:1168:G:H5"	1.88	0.56
25:DA:1429:G:C4	25:DA:1568:G:C2	2.94	0.56
25:DA:1473:G:O2'	25:DA:1474:U:H5'	2.05	0.56
25:DA:2060:A:H3'	29:DE:63:LYS:HZ1	1.71	0.56
33:DI:96:LYS:HG2	33:DI:138:VAL:HG22	1.87	0.56
36:DL:68:SER:O	36:DL:69:ARG:CB	2.53	0.56
41:DQ:31:TYR:C	41:DQ:31:TYR:CD2	2.84	0.56
46:DV:56:PHE:CE1	46:DV:61:LEU:CD2	2.89	0.56
57:DW:22:PHE:N	57:DW:22:PHE:CD2	2.72	0.56
1:AA:1165:U:C2'	1:AA:1166:G:H5'	2.36	0.56
1:AA:1267:C:C5	1:AA:1268:G:C5	2.94	0.56
1:AA:1308:U:O2'	1:AA:1309:G:H5'	2.06	0.56
2:AB:125:PHE:N	2:AB:125:PHE:HD2	2.02	0.56
4:AD:120:LYS:C	4:AD:122:ILE:HD13	2.31	0.56
5:AE:81:GLN:NE2	5:AE:149:PRO:HD3	2.21	0.56
1:BA:143:A:C5'	1:BA:144:G:H5'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:166:U:O2'	1:BA:167:A:H5'	2.05	0.56
1:BA:459:A:H2'	1:BA:460:A:C1'	2.36	0.56
1:BA:543:U:O2'	1:BA:544:G:H5'	2.06	0.56
1:BA:718:A:H5'	11:BK:118:ASN:HD21	1.70	0.56
1:BA:1261:A:N3	1:BA:1262:C:C5	2.72	0.56
1:BA:1261:A:H1'	1:BA:1283:U:H5'	1.88	0.56
1:BA:1421:G:C2	1:BA:1422:G:C8	2.94	0.56
2:BB:53:LEU:HA	2:BB:56:LEU:HB3	1.87	0.56
2:BB:65:LYS:N	2:BB:65:LYS:HD2	2.20	0.56
2:BB:134:LEU:O	2:BB:136:ARG:N	2.39	0.56
5:BE:15:ILE:HD11	5:BE:112:ALA:CB	2.36	0.56
5:BE:105:ILE:HD11	5:BE:123:LEU:HD23	1.87	0.56
10:BJ:56:HIS:O	10:BJ:57:VAL:HG12	2.05	0.56
12:BL:49:ARG:NH1	12:BL:88:ASP:OD1	2.38	0.56
13:BM:22:TYR:O	13:BM:65:GLU:N	2.38	0.56
21:BU:9:GLU:HG3	21:BU:10:PRO:CD	2.36	0.56
25:CA:611:C:H2'	25:CA:612:G:H5'	1.87	0.56
25:CA:660:C:OP1	29:CE:94:GLN:HB2	2.06	0.56
25:CA:1130:U:C2	25:CA:2025:C:H5'	2.41	0.56
25:CA:1791:A:H5"	27:CC:204:LEU:HD23	1.87	0.56
25:CA:1860:G:O2'	25:CA:1861:G:H5'	2.06	0.56
25:CA:1894:C:H2'	25:CA:1895:C:C6	2.40	0.56
25:CA:2196:C:O2'	25:CA:2197:U:H5'	2.05	0.56
25:CA:2211:A:C2'	25:CA:2212:A:OP1	2.54	0.56
25:CA:2473:U:C6	25:CA:2474:U:C5	2.94	0.56
25:CA:2851:A:N6	25:CA:2852:G:C6	2.73	0.56
31:CG:173:ALA:O	31:CG:174:LYS:CB	2.52	0.56
36:CL:120:VAL:HG22	36:CL:121:THR:N	2.21	0.56
25:DA:1418:G:C2	25:DA:1579:A:N7	2.73	0.56
25:DA:1474:U:C4	25:DA:1475:G:N2	2.73	0.56
25:DA:1923:U:H2'	25:DA:1924:C:C6	2.41	0.56
25:DA:2201:G:C6	25:DA:2202:U:C4	2.93	0.56
25:DA:2294:G:N1	25:DA:2295:C:C2	2.74	0.56
25:DA:2444:G:OP2	29:DE:63:LYS:HE2	2.05	0.56
25:DA:2591:C:H2'	25:DA:2592:G:C8	2.40	0.56
27:DC:246:PRO:HG2	27:DC:247:TRP:CZ3	2.40	0.56
33:DI:104:GLN:O	33:DI:105:LEU:CB	2.53	0.56
34:DJ:35:ARG:HG2	34:DJ:40:HIS:HD2	1.71	0.56
36:DL:61:LEU:O	54:D3:12:ARG:HD3	2.05	0.56
37:DM:26:VAL:HG12	37:DM:104:GLU:OE2	2.06	0.56
39:DO:7:ARG:HG3	39:DO:96:GLY:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:50:LEU:CD1	44:DT:50:LEU:N	2.68	0.56
1:AA:408:A:C2'	1:AA:409:U:H5'	2.36	0.56
1:AA:691:G:O6	11:AK:52:ARG:NH2	2.39	0.56
1:AA:1004:A:C2	1:AA:1026:G:C2	2.94	0.56
1:AA:1322:C:O2	1:AA:1322:C:O5'	2.23	0.56
13:AM:5:GLY:C	13:AM:7:ASN:H	2.13	0.56
1:BA:677:U:C2'	1:BA:678:U:H5'	2.36	0.56
1:BA:1377:A:C2'	7:BG:1:PRO:HG2	2.36	0.56
2:BB:47:PRO:O	2:BB:50:ASN:HB2	2.06	0.56
3:BC:154:GLY:O	3:BC:156:LEU:N	2.39	0.56
5:BE:153:ALA:O	5:BE:156:ARG:N	2.39	0.56
6:BF:70:VAL:HG23	6:BF:71:ILE:N	2.20	0.56
10:BJ:73:LEU:HD22	10:BJ:75:ASP:HB2	1.88	0.56
11:BK:124:LYS:O	21:BU:33:ARG:NE	2.35	0.56
12:BL:64:SER:OG	12:BL:96:THR:HG23	2.06	0.56
25:CA:1073:A:N7	25:CA:1074:G:C8	2.73	0.56
25:CA:1084:A:H5"	25:CA:1085:A:OP2	2.06	0.56
25:CA:1484:U:O2	25:CA:1484:U:H2'	2.04	0.56
25:CA:1613:G:H2'	60:CA:3313:HOH:O	2.02	0.56
25:CA:2146:C:H5'	25:CA:2147:A:C5	2.41	0.56
25:CA:2661:G:C6	25:CA:2662:A:C2	2.94	0.56
29:CE:4:VAL:HA	29:CE:11:ALA:HA	1.86	0.56
40:CP:27:VAL:HG22	40:CP:83:ILE:HG13	1.87	0.56
49:CY:28:LEU:O	49:CY:29:ARG:C	2.49	0.56
50:CZ:6:ILE:HD11	50:CZ:47:ILE:HD11	1.86	0.56
52:C1:33:LEU:N	52:C1:51:ALA:HB3	2.21	0.56
25:DA:237:C:O2'	25:DA:238:C:H5'	2.06	0.56
25:DA:1077:A:H2	25:DA:1088:A:C2	2.24	0.56
25:DA:2098:U:H2'	25:DA:2099:U:H5'	1.88	0.56
25:DA:2286:G:C4'	25:DA:2287:A:O5'	2.51	0.56
25:DA:2742:G:O2'	25:DA:2743:U:H5'	2.06	0.56
56:DB:34:A:H2'	56:DB:35:C:OP2	2.05	0.56
36:DL:77:ILE:HD11	36:DL:101:ILE:HG21	1.88	0.56
39:DO:55:GLU:O	39:DO:56:LYS:C	2.49	0.56
41:DQ:71:ASN:OD1	41:DQ:106:THR:HG23	2.04	0.56
48:DX:38:TRP:HB2	48:DX:45:PHE:HE2	1.71	0.56
50:DZ:26:LEU:HD21	50:DZ:46:MET:HB2	1.88	0.56
1:AA:89:U:O2'	1:AA:90:C:C5'	2.54	0.56
1:AA:108:G:C5'	1:AA:108:G:N3	2.69	0.56
3:AC:52:SER:HB2	3:AC:113:LYS:HB3	1.88	0.56
9:AI:98:ARG:HA	9:AI:103:VAL:CG2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:59:LYS:HZ2	10:AJ:59:LYS:N	2.03	0.56
16:AP:6:LEU:CD2	16:AP:70:ARG:HG3	2.35	0.56
17:AQ:10:ARG:HH21	17:AQ:55:GLY:HA2	1.71	0.56
22:AV:20:U:H2'	22:AV:20:U:O2	2.05	0.56
1:BA:110:C:N4	1:BA:111:G:C6	2.73	0.56
1:BA:112:G:C2'	1:BA:113:G:H5'	2.35	0.56
1:BA:188:C:O2	1:BA:189:A:C8	2.58	0.56
1:BA:587:G:H4'	8:BH:3:GLN:CB	2.36	0.56
1:BA:587:G:H4'	8:BH:3:GLN:HB3	1.88	0.56
1:BA:866:C:C4	1:BA:867:G:H1'	2.41	0.56
1:BA:867:G:H2'	1:BA:868:C:C6	2.40	0.56
1:BA:1160:G:O2'	1:BA:1161:C:H6	1.89	0.56
2:BB:67:LEU:HD12	2:BB:153:MET:HE1	1.88	0.56
3:BC:64:ARG:O	3:BC:65:VAL:HB	2.05	0.56
3:BC:133:MET:O	3:BC:137:VAL:HG23	2.05	0.56
4:BD:137:SER:HB2	4:BD:138:PRO:HD2	1.88	0.56
4:BD:150:LYS:O	4:BD:151:GLN:OE1	2.23	0.56
8:BH:31:LEU:O	8:BH:32:LYS:C	2.48	0.56
8:BH:110:MET:HB3	8:BH:114:ALA:CB	2.36	0.56
11:BK:123:PRO:O	11:BK:124:LYS:C	2.49	0.56
13:BM:76:ILE:O	13:BM:80:MET:HG3	2.05	0.56
20:BT:34:VAL:O	20:BT:35:TYR:C	2.49	0.56
25:CA:32:C:O2'	25:CA:33:C:H5'	2.05	0.56
25:CA:150:U:H2'	25:CA:151:C:C6	2.40	0.56
25:CA:2182:U:H2'	25:CA:2183:A:C8	2.40	0.56
25:CA:2325:G:H5"	25:CA:2326:C:OP2	2.06	0.56
25:CA:2590:A:O3'	27:CC:237:ARG:NH1	2.39	0.56
25:CA:2732:G:C3'	25:CA:2733:A:H5'	2.36	0.56
30:CF:121:PHE:CZ	30:CF:127:TYR:HB2	2.41	0.56
31:CG:163:TYR:HB2	31:CG:166:GLU:CB	2.36	0.56
33:CI:132:ALA:HB1	33:CI:137:LEU:HD12	1.88	0.56
43:CS:4:ILE:HG23	43:CS:106:VAL:HG22	1.88	0.56
50:CZ:23:LEU:HD11	50:CZ:53:MET:HE2	1.87	0.56
50:CZ:34:THR:HG22	50:CZ:35:VAL:N	2.21	0.56
25:DA:65:U:C2	25:DA:66:C:C5	2.93	0.56
25:DA:320:A:H4'	25:DA:322:A:N7	2.21	0.56
25:DA:511:U:C3'	25:DA:512:G:H5'	2.35	0.56
25:DA:545:U:H1'	25:DA:548:G:OP2	2.06	0.56
25:DA:1126:A:H4'	25:DA:1127:A:O5'	2.06	0.56
25:DA:1224:U:H4'	42:DR:88:GLY:O	2.05	0.56
25:DA:1292:G:O2'	25:DA:1293:C:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1494:A:C2	25:DA:1495:A:C5	2.93	0.56
25:DA:1562:U:O2	25:DA:1563:U:C6	2.58	0.56
25:DA:2223:G:C3'	25:DA:2224:G:H5'	2.35	0.56
25:DA:2556:C:H2'	25:DA:2557:G:O5'	2.06	0.56
28:DD:101:PHE:O	28:DD:180:VAL:HG21	2.06	0.56
29:DE:48:THR:O	29:DE:52:VAL:HG23	2.06	0.56
29:DE:143:LEU:HB3	29:DE:146:VAL:HG11	1.87	0.56
30:DF:72:SER:HB2	30:DF:80:GLN:HB3	1.88	0.56
30:DF:175:PRO:O	30:DF:176:PHE:HB2	2.05	0.56
37:DM:82:MET:HE2	37:DM:82:MET:HA	1.86	0.56
40:DP:12:MET:HB3	40:DP:76:HIS:CE1	2.41	0.56
40:DP:91:VAL:HG21	40:DP:96:LEU:HD21	1.87	0.56
42:DR:61:ALA:HB2	42:DR:98:ILE:HA	1.87	0.56
44:DT:74:ILE:HD12	44:DT:74:ILE:C	2.31	0.56
52:D1:31:GLU:O	52:D1:31:GLU:HG2	2.04	0.56
54:D3:31:ILE:O	54:D3:35:LYS:HD2	2.06	0.56
1:AA:270:A:C5	1:AA:271:C:C4	2.94	0.56
1:AA:542:G:C2	1:AA:543:U:C6	2.94	0.56
1:AA:647:C:O2'	1:AA:648:A:H5'	2.06	0.56
1:AA:696:A:H8	1:AA:696:A:O5'	1.88	0.56
1:AA:1142:G:C2	1:AA:1143:G:C1'	2.84	0.56
1:AA:1277:C:H2'	1:AA:1279:G:H8	1.71	0.56
9:AI:71:ILE:HG22	9:AI:72:SER:N	2.21	0.56
12:AL:43:LYS:HB2	12:AL:44:PRO:HD3	1.86	0.56
13:AM:113:LYS:HB3	13:AM:114:PRO:HD3	1.88	0.56
14:AN:3:GLN:HA	14:AN:6:LYS:HE2	1.88	0.56
14:AN:100:SER:O	14:AN:101:TRP:HB3	2.05	0.56
21:AU:9:GLU:OE1	21:AU:10:PRO:HG3	2.06	0.56
21:AU:13:VAL:CG1	21:AU:15:LEU:CD2	2.78	0.56
1:BA:96:U:O2'	1:BA:97:G:O5'	2.24	0.56
1:BA:708:C:H2'	1:BA:709:U:C6	2.41	0.56
1:BA:994:A:N7	1:BA:1216:A:H4'	2.21	0.56
1:BA:1000:A:C2	1:BA:1041:G:N2	2.73	0.56
1:BA:1055:A:H5"	1:BA:1056:U:OP2	2.06	0.56
1:BA:1097:C:H2'	1:BA:1098:C:C6	2.41	0.56
1:BA:1292:G:C6	1:BA:1293:C:N4	2.74	0.56
3:BC:154:GLY:O	3:BC:156:LEU:HD12	2.06	0.56
14:BN:73:PHE:CZ	14:BN:78:GLY:HA2	2.41	0.56
16:BP:48:GLU:CG	16:BP:49:GLY:H	2.19	0.56
25:CA:870:U:H2'	25:CA:871:U:H5'	1.86	0.56
25:CA:1419:A:O2'	25:CA:1420:A:H5"	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1925:C:H4'	25:CA:1926:U:C6	2.41	0.56
25:CA:2076:U:O4'	25:CA:2076:U:O2	2.24	0.56
25:CA:2376:A:N3	39:CO:111:ARG:NH1	2.53	0.56
26:CB:55:U:O2	26:CB:55:U:H2'	2.05	0.56
26:CB:106:G:H2'	26:CB:107:G:O4'	2.06	0.56
30:CF:76:PHE:C	30:CF:77:LYS:HG3	2.30	0.56
31:CG:19:ASN:C	31:CG:22:VAL:HG23	2.31	0.56
32:CH:59:ALA:HA	32:CH:62:LEU:CD2	2.35	0.56
36:CL:85:VAL:HB	36:CL:94:THR:HG23	1.87	0.56
44:CT:14:PRO:HD2	49:CY:33:ALA:HB1	1.88	0.56
25:DA:59:U:H6	25:DA:59:U:H3'	1.71	0.56
25:DA:920:A:H2'	25:DA:921:C:C6	2.40	0.56
25:DA:1494:A:N1	25:DA:1495:A:C5	2.74	0.56
25:DA:1551:A:N6	25:DA:1552:A:C2	2.74	0.56
25:DA:1867:G:H2'	25:DA:1868:C:H5'	1.88	0.56
25:DA:2345:G:OP2	52:D1:45:HIS:HE1	1.88	0.56
25:DA:2473:U:H5"	25:DA:2474:U:OP2	2.05	0.56
28:DD:44:GLY:O	28:DD:45:TYR:HB3	2.06	0.56
30:DF:16:MET:O	30:DF:20:ASN:HA	2.06	0.56
33:DI:74:PRO:HG2	33:DI:77:VAL:CG2	2.34	0.56
34:DJ:43:GLU:CD	34:DJ:43:GLU:H	2.13	0.56
35:DK:120:PRO:O	35:DK:121:GLU:HB2	2.06	0.56
36:DL:2:ARG:HA	36:DL:5:THR:HG23	1.88	0.56
52:D1:3:GLY:O	52:D1:5:ARG:N	2.39	0.56
1:AA:410:G:C4'	1:AA:411:A:OP1	2.53	0.56
1:AA:868:C:H2'	1:AA:869:G:H5'	1.86	0.56
1:AA:937:A:C2	1:AA:1379:G:C6	2.94	0.56
1:AA:1101:A:H1'	1:AA:1102:A:O4'	2.05	0.56
3:AC:39:ARG:O	3:AC:40:GLN:C	2.49	0.56
3:AC:154:GLY:HA3	3:AC:162:ALA:HB1	1.88	0.56
4:AD:10:LEU:CD2	4:AD:62:ARG:HD3	2.36	0.56
4:AD:97:LEU:HD23	4:AD:117:VAL:HG11	1.88	0.56
4:AD:147:LYS:O	4:AD:148:ALA:C	2.49	0.56
4:AD:169:TRP:CD1	4:AD:185:PRO:HD3	2.41	0.56
8:AH:46:GLU:O	8:AH:47:ASP:CB	2.54	0.56
14:AN:15:LEU:N	14:AN:15:LEU:HD23	2.20	0.56
14:AN:20:PHE:CD2	14:AN:24:ALA:HB3	2.40	0.56
14:AN:35:ALA:HB2	14:AN:41:ARG:HB3	1.88	0.56
1:BA:108:G:O4'	1:BA:108:G:N3	2.39	0.56
1:BA:188:C:O2	1:BA:189:A:C1'	2.54	0.56
1:BA:1014:A:H2'	1:BA:1015:G:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1166:G:H2'	1:BA:1168:U:OP2	2.06	0.56
1:BA:1325:C:O2'	1:BA:1326:U:H5'	2.06	0.56
1:BA:1451:U:O5'	1:BA:1452:C:H5	1.89	0.56
2:BB:82:ALA:HA	2:BB:85:SER:HB3	1.88	0.56
3:BC:89:VAL:HA	3:BC:92:ASP:OD1	2.06	0.56
3:BC:149:LYS:HB3	3:BC:168:ARG:CG	2.35	0.56
8:BH:20:ASN:HA	8:BH:64:TYR:HE2	1.71	0.56
10:BJ:48:ARG:HH11	10:BJ:48:ARG:HG2	1.71	0.56
14:BN:15:LEU:O	14:BN:55:SER:HB2	2.06	0.56
19:BS:35:ARG:HH21	19:BS:74:ALA:HB3	1.70	0.56
21:BU:25:ALA:HB3	23:BX:8:A:H5'	1.88	0.56
25:CA:229:C:H2'	25:CA:230:G:O5'	2.05	0.56
25:CA:435:C:H2'	25:CA:436:C:H5'	1.88	0.56
25:CA:703:U:O4	25:CA:704:G:C6	2.59	0.56
25:CA:1183:U:H2'	25:CA:1184:U:C6	2.41	0.56
25:CA:1531:C:H2'	25:CA:1532:A:C8	2.41	0.56
25:CA:1742:U:C2'	25:CA:1743:G:O5'	2.54	0.56
34:CJ:64:VAL:CG1	34:CJ:68:LYS:HB2	2.35	0.56
48:CX:3:VAL:HG13	48:CX:10:ARG:HB3	1.86	0.56
52:C1:50:GLU:O	52:C1:51:ALA:HB2	2.05	0.56
25:DA:120:U:H5"	25:DA:122:G:OP2	2.06	0.56
25:DA:333:G:H2'	25:DA:334:C:H6	1.71	0.56
25:DA:464:U:H5'	53:D2:5:PHE:CD2	2.41	0.56
25:DA:536:G:H2'	25:DA:537:G:O5'	2.05	0.56
25:DA:1111:A:H4'	25:DA:1112:G:OP1	2.05	0.56
25:DA:1356:G:H2'	25:DA:1357:C:H6	1.71	0.56
25:DA:1446:C:H2'	25:DA:1447:C:C6	2.40	0.56
25:DA:1525:A:N7	25:DA:1526:C:C5	2.74	0.56
25:DA:1648:U:H2'	25:DA:1649:G:O4'	2.07	0.56
25:DA:2800:A:H3'	25:DA:2801:G:H5'	1.87	0.56
56:DB:74:U:O2	46:DV:29:ILE:CD1	2.54	0.56
27:DC:198:GLU:O	27:DC:199:HIS:C	2.48	0.56
30:DF:57:ALA:O	30:DF:60:SER:O	2.24	0.56
32:DH:5:LEU:O	32:DH:6:LEU:HD12	2.06	0.56
32:DH:119:ASN:N	32:DH:120:GLY:CA	2.69	0.56
34:DJ:17:VAL:HG22	34:DJ:55:ILE:HB	1.86	0.56
36:DL:127:VAL:HG13	36:DL:131:ALA:HB1	1.88	0.56
42:DR:39:LEU:CA	42:DR:49:ILE:CG2	2.83	0.56
43:DS:29:VAL:HG11	43:DS:55:ILE:HD13	1.88	0.56
44:DT:3:ARG:N	44:DT:3:ARG:HD2	2.21	0.56
50:DZ:36:GLU:O	50:DZ:37:ARG:HD3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:499:A:N6	1:AA:547:A:H5"	2.21	0.55
1:AA:573:A:P	60:AA:1737:HOH:O	2.64	0.55
1:AA:918:A:C6	1:AA:919:A:C6	2.94	0.55
1:AA:1060:U:C1'	10:AJ:54:SER:HB2	2.36	0.55
1:AA:1279:G:H5"	10:AJ:9:ARG:HH22	1.71	0.55
2:AB:19:THR:HB	2:AB:36:LYS:O	2.06	0.55
2:AB:113:LEU:O	2:AB:117:GLU:HG2	2.05	0.55
5:AE:120:HIS:O	5:AE:121:ASN:CB	2.54	0.55
8:AH:13:ILE:O	8:AH:14:ARG:C	2.48	0.55
11:AK:93:GLU:OE2	21:AU:20:ARG:NH2	2.39	0.55
13:AM:113:LYS:HB2	13:AM:114:PRO:HD3	1.87	0.55
15:AO:10:ILE:O	15:AO:14:PHE:HD1	1.89	0.55
1:BA:100:G:C8	1:BA:101:A:C8	2.95	0.55
1:BA:114:U:H2'	1:BA:115:G:H5'	1.88	0.55
1:BA:511:C:H1'	1:BA:512:U:C6	2.41	0.55
1:BA:620:C:C1'	4:BD:131:ILE:HD13	2.36	0.55
1:BA:924:C:O2'	1:BA:1502:A:N1	2.33	0.55
1:BA:1375:A:H2'	1:BA:1376:U:H5'	1.88	0.55
2:BB:207:ARG:HB3	2:BB:211:LEU:HD13	1.87	0.55
2:BB:207:ARG:O	2:BB:209:VAL:N	2.38	0.55
3:BC:58:ARG:HA	3:BC:63:ILE:HA	1.87	0.55
4:BD:144:ILE:HG21	4:BD:149:LYS:HA	1.88	0.55
7:BG:105:GLU:HA	7:BG:108:ARG:HB2	1.87	0.55
16:BP:6:LEU:HD23	16:BP:17:TYR:CG	2.41	0.55
17:BQ:11:VAL:O	17:BQ:22:VAL:HA	2.06	0.55
19:BS:10:ILE:HG21	19:BS:40:PHE:CE2	2.42	0.55
25:CA:84:A:N3	25:CA:85:G:H1'	2.21	0.55
25:CA:358:U:H2'	25:CA:359:G:C8	2.41	0.55
25:CA:415:A:C2	25:CA:416:U:O2	2.58	0.55
25:CA:1340:U:O4'	25:CA:1340:U:O2	2.13	0.55
25:CA:1452:G:H5"	25:CA:1452:G:C8	2.41	0.55
25:CA:1871:A:C8	25:CA:1872:A:N1	2.74	0.55
25:CA:2144:G:O2'	25:CA:2147:A:N1	2.38	0.55
25:CA:2276:G:C2'	25:CA:2277:G:H5'	2.36	0.55
28:CD:12:THR:HG22	28:CD:13:ARG:H	1.71	0.55
32:CH:14:SER:OG	32:CH:17:ASP:HB2	2.06	0.55
33:CI:91:LYS:HB3	33:CI:94:LYS:HG3	1.87	0.55
33:CI:101:SER:HB3	33:CI:104:GLN:CG	2.37	0.55
41:CQ:26:ALA:HB1	41:CQ:33:VAL:HG21	1.89	0.55
41:CQ:75:TYR:CZ	41:CQ:79:ILE:HG13	2.41	0.55
49:CY:18:LEU:O	49:CY:22:LEU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:C3:31:ILE:CG2	54:C3:34:LYS:HE3	2.36	0.55
25:DA:391:A:C2	25:DA:411:G:C5	2.93	0.55
25:DA:621:A:OP2	25:DA:622:G:OP2	2.23	0.55
25:DA:1049:C:H2'	25:DA:1050:A:H5'	1.87	0.55
25:DA:1105:U:O2	25:DA:1106:G:N7	2.38	0.55
25:DA:1317:G:N2	25:DA:1336:A:C4	2.74	0.55
25:DA:1378:A:C2	25:DA:1380:G:C8	2.94	0.55
25:DA:2792:A:C2	25:DA:2793:C:C6	2.94	0.55
28:DD:16:THR:OG1	28:DD:20:VAL:HB	2.07	0.55
28:DD:55:LYS:HG3	28:DD:77:ARG:HA	1.88	0.55
31:DG:15:ASP:HB2	31:DG:26:LYS:HG2	1.88	0.55
33:DI:120:ASP:O	33:DI:123:ALA:HB3	2.06	0.55
43:DS:66:ILE:CD1	43:DS:66:ILE:N	2.69	0.55
54:D3:22:LYS:HA	54:D3:47:ALA:O	2.06	0.55
1:AA:91:U:C6	1:AA:92:U:C6	2.94	0.55
1:AA:138:G:H2'	1:AA:139:A:H5'	1.87	0.55
1:AA:299:G:N1	1:AA:300:A:C2	2.74	0.55
1:AA:404:G:N7	4:AD:1:ALA:N	2.54	0.55
1:AA:626:G:H2'	1:AA:627:G:H5'	1.88	0.55
1:AA:771:G:C2'	1:AA:772:U:H5'	2.36	0.55
1:AA:1243:C:H2'	1:AA:1244:G:C8	2.42	0.55
1:AA:1294:G:C6	1:AA:1295:U:C4	2.95	0.55
1:AA:1319:A:OP1	19:AS:4:LEU:HD21	2.06	0.55
2:AB:71:THR:O	2:AB:72:LYS:CB	2.55	0.55
2:AB:73:ARG:O	2:AB:74:ALA:HB2	2.06	0.55
2:AB:209:VAL:O	2:AB:211:LEU:N	2.40	0.55
5:AE:76:ASN:O	5:AE:77:ASN:CB	2.55	0.55
12:AL:101:LEU:N	12:AL:101:LEU:HD13	2.21	0.55
19:AS:50:VAL:HG21	19:AS:70:LEU:O	2.06	0.55
1:BA:401:C:O2'	1:BA:621:A:N3	2.38	0.55
1:BA:525:C:H2'	1:BA:526:C:H5'	1.88	0.55
1:BA:687:A:C5	1:BA:701:U:C5	2.94	0.55
1:BA:981:U:H2'	1:BA:982:U:C5	2.41	0.55
1:BA:987:G:C2	1:BA:1219:A:C2	2.94	0.55
1:BA:1314:C:H2'	1:BA:1315:U:H6	1.72	0.55
2:BB:150:ILE:O	2:BB:151:LYS:C	2.49	0.55
2:BB:222:GLU:OE2	2:BB:225:SER:HA	2.05	0.55
4:BD:45:PRO:O	4:BD:46:ARG:C	2.50	0.55
8:BH:12:ARG:HD3	8:BH:26:MET:HE2	1.87	0.55
12:BL:20:VAL:N	12:BL:21:PRO:HD2	2.21	0.55
13:BM:90:HIS:O	13:BM:92:ARG:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BR:59:LYS:O	18:BR:62:ARG:HB2	2.05	0.55
25:CA:554:U:O2'	25:CA:555:G:H5'	2.06	0.55
25:CA:960:A:O3'	25:CA:961:C:H3'	2.06	0.55
25:CA:1078:U:H5"	25:CA:1079:C:OP1	2.07	0.55
25:CA:2144:G:C2'	25:CA:2147:A:H61	2.18	0.55
25:CA:2219:U:H2'	25:CA:2220:U:O5'	2.06	0.55
25:CA:2365:G:H2'	25:CA:2366:A:C8	2.42	0.55
60:CA:3293:HOH:O	29:CE:98:LYS:HE2	2.07	0.55
30:CF:43:ILE:HG22	30:CF:82:TYR:CE1	2.41	0.55
30:CF:48:LEU:HA	30:CF:51:ASN:CG	2.31	0.55
31:CG:154:GLU:OE2	31:CG:157:LYS:HB2	2.06	0.55
32:CH:129:GLU:HG2	32:CH:143:ILE:HG13	1.89	0.55
33:CI:24:GLY:O	33:CI:27:LEU:HD23	2.06	0.55
34:CJ:4:PHE:C	34:CJ:4:PHE:CD1	2.84	0.55
34:CJ:80:HIS:HB3	34:CJ:81:ILE:CG2	2.34	0.55
39:CO:94:ARG:O	39:CO:96:GLY:N	2.39	0.55
49:CY:18:LEU:O	49:CY:22:LEU:CB	2.54	0.55
25:DA:7:G:H4'	34:DJ:15:TRP:CZ2	2.41	0.55
25:DA:104:A:C5	25:DA:105:C:C5	2.94	0.55
25:DA:503:A:H5'	25:DA:505:A:OP1	2.06	0.55
25:DA:962:G:H21	25:DA:2250:G:H1	1.54	0.55
25:DA:979:A:H2'	25:DA:982:C:H42	1.70	0.55
25:DA:1022:G:O6	34:DJ:68:LYS:HE2	2.05	0.55
25:DA:1181:U:H5"	25:DA:1182:G:OP2	2.06	0.55
25:DA:1773:A:N7	25:DA:1829:A:H1'	2.22	0.55
25:DA:2148:G:H2'	25:DA:2149:U:H6	1.71	0.55
25:DA:2250:G:OP1	37:DM:84:LYS:NZ	2.39	0.55
25:DA:2311:A:C2	30:DF:84:ILE:HD11	2.41	0.55
25:DA:2441:U:OP1	25:DA:2441:U:H4'	2.05	0.55
25:DA:2748:A:C4	25:DA:2749:A:C8	2.94	0.55
25:DA:2813:A:H2'	25:DA:2814:A:C8	2.41	0.55
27:DC:231:HIS:NE2	27:DC:243:PRO:HA	2.20	0.55
29:DE:130:LYS:O	29:DE:131:THR:C	2.49	0.55
33:DI:98:GLY:C	33:DI:137:LEU:HA	2.31	0.55
41:DQ:81:GLY:HA2	41:DQ:116:LEU:HD13	1.88	0.55
46:DV:63:ILE:O	46:DV:65:VAL:HG12	2.06	0.55
54:D3:10:ALA:C	54:D3:12:ARG:H	2.15	0.55
1:AA:52:C:O2'	1:AA:53:A:H5'	2.07	0.55
1:AA:113:G:C6	1:AA:315:A:N6	2.74	0.55
1:AA:589:U:H2'	1:AA:590:U:H6	1.71	0.55
1:AA:1314:C:OP2	19:AS:5:LYS:NZ	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1322:C:O2	1:AA:1322:C:O4'	2.19	0.55
2:AB:70:GLY:CA	2:AB:163:ILE:HG22	2.35	0.55
3:AC:5:HIS:CD2	3:AC:8:GLY:H	2.25	0.55
6:AF:64:VAL:HG12	6:AF:65:GLU:N	2.22	0.55
10:AJ:87:LEU:C	10:AJ:87:LEU:HD13	2.32	0.55
1:BA:35:G:H2'	1:BA:36:C:C6	2.41	0.55
1:BA:100:G:C5	1:BA:101:A:C5	2.94	0.55
1:BA:175:C:H2'	1:BA:176:C:C6	2.42	0.55
1:BA:211:G:C2'	1:BA:212:G:O4'	2.54	0.55
1:BA:279:A:H4'	1:BA:281:G:C8	2.42	0.55
1:BA:306:A:C2'	1:BA:307:C:H5'	2.36	0.55
1:BA:417:G:C5	1:BA:418:C:C4	2.93	0.55
1:BA:451:A:H5'	16:BP:70:ARG:HH12	1.71	0.55
1:BA:978:A:N7	1:BA:1318:A:N6	2.54	0.55
1:BA:1491:G:O2'	1:BA:1492:A:O5'	2.25	0.55
2:BB:172:ILE:HG22	2:BB:176:ASN:OD1	2.06	0.55
3:BC:129:PHE:CE2	3:BC:156:LEU:HD23	2.41	0.55
4:BD:86:GLY:CA	4:BD:196:GLU:HB3	2.37	0.55
7:BG:68:VAL:O	7:BG:70:PRO:HD3	2.06	0.55
9:BI:25:GLY:H	9:BI:58:GLU:CA	2.19	0.55
25:CA:236:C:H2'	25:CA:237:C:H6	1.71	0.55
25:CA:611:C:C2'	25:CA:612:G:H5'	2.36	0.55
26:CB:41:G:C6	30:CF:68:LYS:HE2	2.42	0.55
26:CB:64:G:H2'	26:CB:65:U:C6	2.41	0.55
27:CC:182:LYS:O	27:CC:183:VAL:HG23	2.06	0.55
30:CF:142:TYR:HA	30:CF:145:VAL:HG13	1.87	0.55
31:CG:86:LEU:HD11	31:CG:132:LEU:HD12	1.88	0.55
33:CI:46:ASP:CA	33:CI:50:LYS:HD2	2.35	0.55
49:CY:18:LEU:CD2	49:CY:22:LEU:HD22	2.35	0.55
25:DA:77:G:OP1	49:DY:52:ARG:HD3	2.06	0.55
25:DA:631:A:N3	25:DA:2415:G:O2'	2.39	0.55
25:DA:680:C:H2'	25:DA:681:G:C8	2.40	0.55
25:DA:817:C:P	60:DA:3585:HOH:O	2.63	0.55
25:DA:863:A:C2'	25:DA:864:G:O5'	2.54	0.55
25:DA:1355:G:C2	25:DA:1356:G:C8	2.95	0.55
25:DA:1542:U:C2'	25:DA:1543:G:O5'	2.54	0.55
25:DA:1726:C:H2'	25:DA:1727:C:H6	1.70	0.55
25:DA:1783:A:N1	25:DA:2587:A:H2'	2.21	0.55
25:DA:2025:C:P	60:DA:3477:HOH:O	2.64	0.55
25:DA:2221:G:C2'	25:DA:2222:C:H5'	2.36	0.55
25:DA:2660:A:H2'	25:DA:2661:G:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2730:C:C2'	25:DA:2731:G:O5'	2.54	0.55
25:DA:2884:U:O2	25:DA:2884:U:O5'	2.23	0.55
56:DB:60:C:H2'	56:DB:61:G:H5'	1.88	0.55
56:DB:63:C:O2'	56:DB:64:G:O5'	2.24	0.55
33:DI:3:LYS:HD2	33:DI:4:VAL:H	1.72	0.55
37:DM:2:LEU:HD12	37:DM:2:LEU:N	2.20	0.55
42:DR:66:HIS:CE1	42:DR:94:THR:CG2	2.88	0.55
44:DT:26:LYS:HG2	44:DT:26:LYS:O	2.06	0.55
46:DV:51:GLN:HB3	46:DV:56:PHE:CE2	2.42	0.55
48:DX:32:LEU:O	48:DX:33:HIS:CD2	2.60	0.55
51:D0:54:ILE:CG2	51:D0:55:ALA:N	2.70	0.55
1:AA:246:A:H4'	1:AA:247:G:OP1	2.07	0.55
1:AA:353:A:H2'	1:AA:354:G:OP2	2.05	0.55
4:AD:57:LYS:C	4:AD:57:LYS:HD2	2.32	0.55
4:AD:167:PRO:CG	4:AD:170:LEU:HD11	2.37	0.55
4:AD:169:TRP:NE1	4:AD:185:PRO:CG	2.66	0.55
5:AE:152:VAL:HG22	5:AE:153:ALA:N	2.21	0.55
6:AF:86:ARG:CG	6:AF:86:ARG:NH1	2.69	0.55
10:AJ:5:ARG:HE	10:AJ:79:PRO:HG3	1.71	0.55
10:AJ:100:ILE:HG13	10:AJ:101:SER:N	2.22	0.55
11:AK:50:GLY:O	11:AK:51:PHE:CD2	2.58	0.55
11:AK:110:THR:HG23	21:AU:4:LYS:HB3	1.87	0.55
13:AM:94:LEU:CB	13:AM:95:PRO:CD	2.83	0.55
16:AP:75:ILE:O	16:AP:77:GLU:N	2.39	0.55
19:AS:40:PHE:O	19:AS:43:MET:HG3	2.06	0.55
1:BA:349:A:O2'	1:BA:350:G:H5'	2.06	0.55
1:BA:403:C:O2'	1:BA:404:G:H5'	2.07	0.55
1:BA:935:A:C2	1:BA:936:C:C2	2.94	0.55
1:BA:1093:A:C2	1:BA:1095:U:H4'	2.41	0.55
1:BA:1273:C:C5	1:BA:1274:A:N7	2.74	0.55
1:BA:1379:G:O6	7:BG:1:PRO:HD2	2.06	0.55
2:BB:21:TYR:O	2:BB:22:TRP:C	2.48	0.55
2:BB:95:TRP:CE3	2:BB:96:LEU:C	2.85	0.55
2:BB:180:ILE:HG22	2:BB:181:PRO:O	2.07	0.55
4:BD:3:TYR:CE1	4:BD:5:GLY:HA3	2.41	0.55
4:BD:31:CYS:O	4:BD:32:LYS:CB	2.54	0.55
4:BD:195:ASN:HB3	4:BD:197:HIS:CD2	2.41	0.55
5:BE:140:ILE:C	5:BE:142:GLY:H	2.12	0.55
5:BE:150:GLU:CG	5:BE:151:MET:SD	2.95	0.55
7:BG:137:ARG:NH2	7:BG:138:GLU:HG2	2.21	0.55
15:BO:77:TYR:O	15:BO:80:LEU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BQ:15:LYS:O	17:BQ:16:MET:SD	2.65	0.55
18:BR:24:ASP:O	18:BR:27:THR:N	2.39	0.55
22:BV:54:U:O5'	22:BV:54:U:H6	1.90	0.55
22:BV:74:C:H5'	22:BV:75:C:OP2	2.07	0.55
25:CA:100:U:C2	25:CA:101:A:N6	2.75	0.55
25:CA:545:U:O5'	25:CA:545:U:O2	2.25	0.55
25:CA:806:C:O2	25:CA:2444:G:O2'	2.25	0.55
25:CA:851:C:H2'	25:CA:852:U:C6	2.40	0.55
25:CA:1057:A:C5	25:CA:1086:A:H2'	2.41	0.55
25:CA:1707:G:O2'	25:CA:1708:C:H5'	2.07	0.55
25:CA:2305:U:H3	30:CF:150:GLY:HA3	1.67	0.55
25:CA:2519:U:C5	25:CA:2541:A:C6	2.94	0.55
25:CA:2571:U:O2'	28:CD:151:THR:HG22	2.06	0.55
25:CA:2846:G:H2'	25:CA:2847:U:O4'	2.07	0.55
29:CE:108:ILE:HD12	36:CL:2:ARG:HH12	1.71	0.55
30:CF:16:MET:CA	30:CF:16:MET:HE3	2.37	0.55
30:CF:37:MET:HE3	30:CF:56:LEU:HD23	1.87	0.55
33:CI:6:ALA:HB1	33:CI:60:VAL:HG23	1.88	0.55
33:CI:102:ARG:N	33:CI:141:ASP:HA	2.21	0.55
45:CU:42:LYS:HZ3	45:CU:42:LYS:HB2	1.70	0.55
45:CU:97:SER:O	45:CU:98:ASN:CB	2.54	0.55
46:CV:93:ARG:O	46:CV:94:ALA:HB2	2.05	0.55
54:C3:16:THR:HG23	54:C3:20:GLY:O	2.06	0.55
25:DA:614:A:O2'	25:DA:615:U:OP2	2.24	0.55
25:DA:665:U:N3	25:DA:666:A:N7	2.55	0.55
25:DA:1184:U:O2'	25:DA:1185:G:H5'	2.06	0.55
25:DA:1497:U:H3'	25:DA:1498:C:H6	1.71	0.55
25:DA:1906:G:H5"	25:DA:1929:G:O2'	2.06	0.55
25:DA:2032:G:C2	28:DD:150:GLN:HG2	2.42	0.55
25:DA:2078:C:H2'	25:DA:2079:U:O4'	2.06	0.55
25:DA:2204:G:H2'	25:DA:2205:A:H8	1.72	0.55
25:DA:2554:U:C4	25:DA:2555:U:O4	2.59	0.55
31:DG:144:ALA:O	31:DG:145:ALA:C	2.49	0.55
33:DI:102:ARG:O	33:DI:106:GLN:HB2	2.07	0.55
34:DJ:140:LEU:HD12	34:DJ:140:LEU:C	2.32	0.55
35:DK:20:MET:HE3	35:DK:22:ILE:HG22	1.87	0.55
36:DL:119:PRO:HG3	36:DL:138:ALA:O	2.06	0.55
52:D1:24:LYS:HG3	52:D1:25:ASN:N	2.20	0.55
1:AA:504:C:O4'	1:AA:510:A:C2	2.59	0.55
1:AA:769:G:H2'	1:AA:770:C:O5'	2.07	0.55
1:AA:1102:A:O2'	1:AA:1103:C:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1222:G:C6	1:AA:1223:C:C4	2.95	0.55
1:AA:1253:G:H1'	1:AA:1355:G:O2'	2.07	0.55
1:AA:1313:U:P	19:AS:5:LYS:CB	2.94	0.55
1:AA:1462:C:H2'	1:AA:1463:U:C6	2.41	0.55
2:AB:116:LEU:HG	2:AB:140:LEU:CD1	2.37	0.55
2:AB:147:LEU:C	2:AB:150:ILE:HG22	2.32	0.55
2:AB:147:LEU:C	2:AB:150:ILE:CG2	2.79	0.55
4:AD:3:TYR:CD1	4:AD:3:TYR:O	2.60	0.55
4:AD:16:THR:HG22	4:AD:17:ASP:C	2.30	0.55
4:AD:24:VAL:C	4:AD:25:ARG:O	2.49	0.55
5:AE:132:PRO:HA	5:AE:135:VAL:CG1	2.36	0.55
6:AF:21:MET:O	6:AF:22:ILE:C	2.47	0.55
8:AH:4:ASP:HB2	8:AH:80:PRO:CG	2.36	0.55
8:AH:33:VAL:HG12	8:AH:34:ALA:N	2.21	0.55
10:AJ:33:GLY:HA3	10:AJ:83:THR:CB	2.37	0.55
11:AK:30:ILE:CB	11:AK:45:THR:HG22	2.37	0.55
11:AK:91:GLY:O	11:AK:95:THR:CG2	2.54	0.55
13:AM:21:ILE:HG22	13:AM:22:TYR:O	2.06	0.55
21:AU:35:GLU:OE2	21:AU:37:TYR:HD1	1.90	0.55
21:AU:39:LYS:N	21:AU:40:PRO:HD2	2.21	0.55
1:BA:76:G:N2	1:BA:95:C:C2	2.74	0.55
1:BA:149:A:C2'	1:BA:150:U:H5'	2.36	0.55
1:BA:389:A:C6	1:BA:390:U:H1'	2.42	0.55
1:BA:687:A:C4	1:BA:701:U:H5	2.25	0.55
1:BA:791:G:C2'	1:BA:792:A:H5'	2.36	0.55
1:BA:1141:C:O2'	1:BA:1142:G:O5'	2.23	0.55
1:BA:1299:A:C6	1:BA:1301:U:O2	2.60	0.55
1:BA:1368:A:H2'	1:BA:1369:C:C6	2.40	0.55
6:BF:18:VAL:HG12	6:BF:19:PRO:N	2.21	0.55
8:BH:7:ALA:HB2	8:BH:76:ARG:HD2	1.88	0.55
9:BI:126:PHE:CD2	9:BI:126:PHE:C	2.81	0.55
12:BL:13:ARG:C	12:BL:14:LYS:O	2.47	0.55
12:BL:43:LYS:HB2	12:BL:44:PRO:HD3	1.89	0.55
14:BN:83:LYS:HE2	14:BN:83:LYS:HA	1.87	0.55
18:BR:39:VAL:HG13	18:BR:40:PRO:HD2	1.88	0.55
25:CA:1167:C:C2'	25:CA:1168:G:H5"	2.35	0.55
25:CA:1243:C:C2'	25:CA:1244:A:O5'	2.53	0.55
25:CA:1266:G:O6	43:CS:13:SER:HB3	2.06	0.55
25:CA:1458:U:H4'	25:CA:1459:G:O5'	2.06	0.55
25:CA:2392:A:H5'	54:C3:27:ASN:OD1	2.07	0.55
25:CA:2751:G:C4	31:CG:2:ARG:CD	2.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CB:30:C:H2'	26:CB:31:C:H5'	1.88	0.55
27:CC:123:ILE:HG22	27:CC:123:ILE:O	2.06	0.55
28:CD:2:ILE:HD13	28:CD:90:PHE:CE1	2.42	0.55
29:CE:48:THR:C	29:CE:50:ALA:H	2.15	0.55
30:CF:42:ALA:CB	30:CF:45:ASP:O	2.54	0.55
30:CF:107:VAL:HG12	30:CF:108:PRO:CD	2.36	0.55
32:CH:14:SER:HB3	32:CH:17:ASP:OD2	2.05	0.55
32:CH:60:GLU:O	32:CH:63:ALA:HB3	2.06	0.55
34:CJ:29:ALA:HA	34:CJ:32:LEU:HB2	1.89	0.55
46:CV:4:ILE:HD11	46:CV:56:PHE:HE1	1.71	0.55
25:DA:133:U:H3'	25:DA:133:U:C6	2.41	0.55
25:DA:182:A:C5	25:DA:183:C:C4	2.94	0.55
25:DA:659:G:H4'	29:DE:95:LYS:HD3	1.89	0.55
25:DA:674:G:H1'	29:DE:69:ARG:HD3	1.88	0.55
25:DA:1045:C:H4'	25:DA:1047:G:N7	2.21	0.55
25:DA:2249:U:H4'	25:DA:2250:G:OP2	2.06	0.55
25:DA:2403:C:N3	25:DA:2404:U:C5	2.74	0.55
56:DB:62:C:C2	56:DB:63:C:C5	2.95	0.55
29:DE:193:VAL:O	29:DE:197:GLU:HB2	2.06	0.55
31:DG:148:ARG:HA	31:DG:161:VAL:HG11	1.89	0.55
32:DH:3:VAL:HA	32:DH:39:ALA:N	2.21	0.55
32:DH:25:TYR:CZ	32:DH:30:LEU:HD11	2.42	0.55
34:DJ:3:THR:HG23	34:DJ:4:PHE:N	2.22	0.55
36:DL:119:PRO:CA	36:DL:138:ALA:O	2.55	0.55
41:DQ:51:GLN:O	41:DQ:52:ARG:C	2.46	0.55
44:DT:61:LEU:C	44:DT:61:LEU:HD12	2.31	0.55
1:AA:976:G:H5'	1:AA:977:A:OP1	2.07	0.55
1:AA:1168:U:O2	1:AA:1168:U:C2'	2.53	0.55
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.70	0.55
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.87	0.55
3:AC:154:GLY:CA	3:AC:162:ALA:HB1	2.37	0.55
3:AC:164:THR:O	3:AC:165:GLU:HB2	2.06	0.55
6:AF:3:HIS:H	6:AF:92:THR:HG23	1.72	0.55
9:AI:51:LEU:HA	9:AI:54:VAL:CG2	2.36	0.55
9:AI:90:ASP:OD2	9:AI:93:LEU:HG	2.06	0.55
13:AM:106:ARG:NH1	13:AM:106:ARG:HG2	2.22	0.55
19:AS:50:VAL:CG2	19:AS:70:LEU:HD13	2.36	0.55
20:AT:7:LYS:O	20:AT:10:ALA:HB3	2.06	0.55
20:AT:46:ALA:O	20:AT:47:GLN:C	2.48	0.55
1:BA:375:U:C4	1:BA:376:G:N7	2.74	0.55
1:BA:1088:G:C4	1:BA:1089:G:C8	2.93	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1124:G:O2'	1:BA:1145:A:N6	2.39	0.55
1:BA:1148:U:C5	1:BA:1149:C:C4	2.95	0.55
1:BA:1148:U:H2'	1:BA:1149:C:O4'	2.05	0.55
1:BA:1518:A:C2	1:BA:1519:A:C2	2.95	0.55
3:BC:39:ARG:HG2	3:BC:54:ILE:HD11	1.87	0.55
4:BD:10:LEU:HD23	4:BD:10:LEU:N	2.21	0.55
6:BF:88:MET:CE	18:BR:63:TYR:CD2	2.90	0.55
7:BG:106:ALA:HB1	7:BG:122:GLU:HG3	1.88	0.55
7:BG:123:LEU:O	7:BG:126:ALA:HB3	2.07	0.55
8:BH:87:ARG:O	8:BH:88:LYS:HB3	2.06	0.55
9:BI:117:LEU:N	9:BI:117:LEU:CD1	2.70	0.55
15:BO:25:GLU:OE2	15:BO:76:ARG:HB3	2.07	0.55
20:BT:85:LEU:O	20:BT:85:LEU:HG	2.07	0.55
21:BU:24:LYS:HG2	21:BU:25:ALA:N	2.21	0.55
25:CA:45:G:C4'	25:CA:46:G:H5'	2.36	0.55
25:CA:213:A:C2	25:CA:214:G:C5	2.95	0.55
25:CA:415:A:C2	25:CA:2409:G:C2	2.94	0.55
25:CA:1045:C:O5'	25:CA:1046:A:H5'	2.07	0.55
25:CA:1073:A:H3'	25:CA:1074:G:H5'	1.86	0.55
25:CA:1178:C:C2'	25:CA:1179:G:N7	2.69	0.55
25:CA:1495:A:O2'	25:CA:1496:A:H5'	2.07	0.55
25:CA:1830:C:H6	25:CA:1830:C:O5'	1.89	0.55
25:CA:2163:A:H3'	25:CA:2164:C:H4'	1.89	0.55
25:CA:2313:C:H3'	25:CA:2313:C:H6	1.71	0.55
25:CA:2375:G:O2'	25:CA:2377:A:N7	2.32	0.55
25:CA:2544:G:O2'	25:CA:2545:G:H5'	2.06	0.55
25:CA:2704:C:H3'	25:CA:2705:A:H8	1.71	0.55
25:CA:2747:G:O2'	31:CG:66:THR:HG22	2.07	0.55
28:CD:39:ASP:OD1	28:CD:46:ARG:HD2	2.06	0.55
28:CD:101:PHE:CE2	28:CD:203:VAL:HG12	2.41	0.55
29:CE:109:LEU:O	29:CE:110:SER:C	2.47	0.55
31:CG:37:ASN:O	31:CG:38:ASP:HB3	2.04	0.55
32:CH:2:GLN:O	32:CH:19:VAL:O	2.24	0.55
32:CH:129:GLU:HA	32:CH:142:VAL:O	2.06	0.55
39:CO:12:THR:O	39:CO:13:ARG:C	2.46	0.55
40:CP:102:ARG:CD	40:CP:106:ALA:O	2.55	0.55
25:DA:108:G:O2'	25:DA:109:C:H5'	2.06	0.55
25:DA:363:G:H2'	25:DA:364:C:H6	1.71	0.55
25:DA:729:G:H2'	25:DA:1775:U:H1'	1.87	0.55
25:DA:996:A:H4'	41:DQ:90:ASP:OD1	2.07	0.55
25:DA:1315:C:C2	25:DA:1338:G:N2	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1346:G:C2'	25:DA:1347:A:O5'	2.54	0.55
25:DA:1483:G:C2	25:DA:1484:U:C6	2.95	0.55
25:DA:1717:A:C2	25:DA:1718:G:H1'	2.42	0.55
25:DA:1748:C:H2'	25:DA:1749:A:O5'	2.07	0.55
25:DA:1936:A:H2	25:DA:1943:U:N3	2.05	0.55
25:DA:2014:A:H2'	25:DA:2015:A:C8	2.42	0.55
25:DA:2747:G:O6	25:DA:2755:C:H5"	2.06	0.55
56:DB:20:G:C2'	56:DB:21:G:H5'	2.37	0.55
56:DB:51:G:C8	39:DO:64:TYR:HE2	2.24	0.55
29:DE:5:LEU:O	29:DE:7:ASP:N	2.39	0.55
33:DI:14:ALA:HB1	33:DI:45:THR:HG21	1.87	0.55
40:DP:81:ASP:OD2	40:DP:81:ASP:O	2.24	0.55
44:DT:32:LEU:O	44:DT:34:VAL:CG1	2.54	0.55
57:DW:46:ASN:HB3	57:DW:59:ALA:HB3	1.88	0.55
1:AA:373:A:C4	1:AA:482:A:N7	2.75	0.55
1:AA:377:G:OP1	16:AP:5:ARG:HD3	2.07	0.55
1:AA:1107:C:C5	1:AA:1108:G:C8	2.94	0.55
1:AA:1202:U:H2'	1:AA:1203:C:O4'	2.07	0.55
1:AA:1226:C:C5	13:AM:102:LYS:HB2	2.42	0.55
2:AB:147:LEU:CD2	2:AB:150:ILE:HG21	2.35	0.55
2:AB:206:ILE:HD13	2:AB:207:ARG:H	1.72	0.55
7:AG:134:VAL:CG2	7:AG:135:LYS:N	2.69	0.55
8:AH:28:SER:HB3	8:AH:56:PRO:HB3	1.89	0.55
15:AO:63:ARG:NH1	15:AO:87:ARG:NH2	2.55	0.55
16:AP:50:THR:O	16:AP:50:THR:HG22	2.06	0.55
19:AS:19:GLU:C	19:AS:21:ALA:H	2.14	0.55
1:BA:84:U:O2'	1:BA:85:U:H5'	2.07	0.55
1:BA:307:C:H2'	1:BA:308:C:O5'	2.07	0.55
1:BA:928:G:O2'	1:BA:929:G:H5'	2.06	0.55
1:BA:1007:U:H2'	1:BA:1008:U:C5'	2.36	0.55
1:BA:1124:G:N2	1:BA:1127:G:N2	2.55	0.55
1:BA:1160:G:C2	1:BA:1161:C:C2	2.95	0.55
1:BA:1172:C:H2'	1:BA:1173:U:C6	2.41	0.55
1:BA:1276:G:C4	1:BA:1277:C:C5	2.95	0.55
1:BA:1317:C:H2'	1:BA:1318:A:O4'	2.07	0.55
1:BA:1375:A:C2'	1:BA:1376:U:H5'	2.37	0.55
6:BF:1:MET:HE1	6:BF:67:PRO:HB3	1.89	0.55
6:BF:25:TYR:O	6:BF:26:THR:C	2.49	0.55
9:BI:26:LYS:O	9:BI:62:LEU:HD23	2.07	0.55
11:BK:121:ARG:NH1	21:BU:35:GLU:HG2	2.22	0.55
12:BL:89:LEU:CB	12:BL:92:VAL:HG21	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:44:ALA:HA	14:BN:47:LYS:HG3	1.89	0.55
14:BN:91:GLY:O	14:BN:93:ILE:N	2.40	0.55
16:BP:38:PHE:C	16:BP:38:PHE:CD1	2.84	0.55
25:CA:280:U:H2'	25:CA:281:C:C6	2.42	0.55
25:CA:907:G:H2'	25:CA:908:C:H5'	1.89	0.55
25:CA:1063:G:H4'	33:CI:76:ALA:CB	2.36	0.55
25:CA:1171:G:C2	25:CA:1172:C:O2	2.60	0.55
25:CA:1503:A:C2	25:CA:1504:A:C4	2.94	0.55
25:CA:1863:G:C2	25:CA:1880:U:O2	2.60	0.55
25:CA:2334:U:H4'	25:CA:2335:A:OP2	2.06	0.55
25:CA:2647:U:O2'	25:CA:2648:G:H5'	2.07	0.55
27:CC:124:LYS:HB2	27:CC:125:PRO:HD2	1.89	0.55
27:CC:128:THR:C	27:CC:129:LEU:CD2	2.79	0.55
27:CC:129:LEU:N	27:CC:129:LEU:CD2	2.70	0.55
27:CC:161:VAL:HG12	27:CC:162:GLN:N	2.20	0.55
27:CC:195:GLY:O	27:CC:196:ASN:O	2.25	0.55
29:CE:150:THR:HG22	29:CE:170:ARG:O	2.06	0.55
38:CN:49:GLU:N	38:CN:50:PRO:CD	2.70	0.55
39:CO:27:VAL:HG12	39:CO:93:ASP:HB3	1.87	0.55
40:CP:36:LYS:HE3	40:CP:38:ARG:HE	1.72	0.55
25:DA:402:A:C2'	25:DA:403:U:H5'	2.36	0.55
25:DA:1241:A:C8	25:DA:1242:U:C5	2.94	0.55
25:DA:1392:A:C5	25:DA:1393:A:N6	2.75	0.55
25:DA:1436:G:C2'	25:DA:1437:C:O5'	2.55	0.55
25:DA:1606:C:H3'	25:DA:1606:C:H6	1.70	0.55
25:DA:2262:U:C2'	25:DA:2263:C:H5'	2.37	0.55
25:DA:2292:U:C2	25:DA:2293:G:C8	2.94	0.55
25:DA:2523:G:O2'	25:DA:2524:G:H5'	2.07	0.55
27:DC:158:GLY:N	27:DC:194:VAL:HG22	2.21	0.55
29:DE:109:LEU:HD13	29:DE:180:LEU:CD1	2.37	0.55
30:DF:121:PHE:HB3	30:DF:162:ASP:HB2	1.88	0.55
31:DG:26:LYS:O	31:DG:27:GLY:O	2.25	0.55
33:DI:7:TYR:HB3	33:DI:58:ILE:O	2.06	0.55
36:DL:96:LYS:HE2	36:DL:103:ILE:O	2.06	0.55
40:DP:60:VAL:O	40:DP:70:GLU:HA	2.07	0.55
57:DW:32:ILE:HG23	57:DW:54:THR:HG23	1.88	0.55
55:D4:25:VAL:HB	55:D4:35:GLN:HG3	1.88	0.55
1:AA:5:U:C2	1:AA:5:U:OP1	2.60	0.55
1:AA:570:G:H1'	1:AA:820:U:C4	2.42	0.55
1:AA:1153:G:C6	1:AA:1154:G:N7	2.74	0.55
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:55:GLU:HA	2:AB:58:LYS:HB3	1.87	0.55
2:AB:138:ARG:HG3	2:AB:139:GLU:H	1.72	0.55
5:AE:45:VAL:O	5:AE:70:MET:CG	2.54	0.55
6:AF:42:TRP:CZ2	6:AF:61:LEU:HB2	2.42	0.55
11:AK:111:ASP:O	21:AU:3:ILE:CG2	2.55	0.55
13:AM:28:ARG:CZ	13:AM:62:PHE:CB	2.85	0.55
24:AY:131:ASN:O	24:AY:135:ASP:OD2	2.24	0.55
1:BA:148:G:O2'	1:BA:1446:A:N3	2.39	0.55
1:BA:420:U:H2'	1:BA:421:U:H5"	1.88	0.55
1:BA:474:G:C5	1:BA:475:C:C5	2.95	0.55
1:BA:786:G:C2	1:BA:787:A:H1'	2.42	0.55
1:BA:972:C:H2'	10:BJ:57:VAL:HG23	1.89	0.55
1:BA:1012:A:C2	1:BA:1018:G:C2	2.95	0.55
1:BA:1192:C:C5	1:BA:1193:G:C8	2.95	0.55
1:BA:1211:U:C2'	1:BA:1212:U:OP2	2.54	0.55
1:BA:1262:C:C5	1:BA:1263:C:C4	2.95	0.55
2:BB:94:ARG:NE	2:BB:94:ARG:H	2.05	0.55
8:BH:7:ALA:CB	8:BH:76:ARG:HG3	2.37	0.55
8:BH:79:ARG:HB2	8:BH:80:PRO:HD3	1.87	0.55
9:BI:16:ALA:HB2	9:BI:66:VAL:HG23	1.88	0.55
10:BJ:34:ALA:HB3	10:BJ:78:GLU:HG2	1.89	0.55
13:BM:1:ALA:CB	13:BM:9:PRO:O	2.55	0.55
15:BO:24:THR:O	15:BO:25:GLU:C	2.50	0.55
15:BO:69:LEU:CD2	15:BO:69:LEU:C	2.80	0.55
22:BV:75:C:H3'	22:BV:76:A:H3'	1.89	0.55
25:CA:282:A:H2'	25:CA:283:G:H8	1.72	0.55
25:CA:1441:G:H2'	25:CA:1442:U:H6	1.72	0.55
25:CA:1762:A:H8	25:CA:1762:A:O5'	1.90	0.55
25:CA:2751:G:C4	31:CG:2:ARG:HD2	2.42	0.55
31:CG:8:VAL:HG12	31:CG:49:LEU:O	2.06	0.55
31:CG:68:ARG:O	31:CG:68:ARG:HD3	2.06	0.55
32:CH:122:LEU:HD13	32:CH:128:HIS:CD2	2.42	0.55
25:DA:90:U:H3'	25:DA:91:A:C8	2.42	0.55
25:DA:126:A:O5'	53:D2:19:ARG:HG3	2.06	0.55
25:DA:1063:G:H3'	25:DA:1064:C:H6	1.70	0.55
25:DA:1425:G:H2'	25:DA:1426:G:C8	2.41	0.55
25:DA:1436:G:H2'	25:DA:1437:C:O5'	2.07	0.55
25:DA:1459:G:O2'	25:DA:1460:U:H2'	2.06	0.55
25:DA:1946:U:C2'	25:DA:1947:C:H5'	2.37	0.55
25:DA:2193:G:C2	25:DA:2194:U:C5	2.95	0.55
25:DA:2207:C:N3	25:DA:2218:G:C2	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2271:G:H8	25:DA:2271:G:O5'	1.90	0.55
25:DA:2776:A:C6	25:DA:2778:A:C6	2.95	0.55
56:DB:9:G:OP1	39:DO:15:ARG:HD2	2.07	0.55
27:DC:32:LEU:O	27:DC:63:ILE:HD12	2.06	0.55
27:DC:236:GLY:O	27:DC:237:ARG:HB2	2.07	0.55
30:DF:7:TYR:O	30:DF:12:VAL:HG23	2.06	0.55
30:DF:126:ASN:OD1	30:DF:156:THR:HA	2.07	0.55
31:DG:67:ALA:O	31:DG:68:ARG:C	2.50	0.55
32:DH:9:VAL:HG22	32:DH:35:LYS:CE	2.36	0.55
32:DH:14:SER:C	32:DH:15:LEU:CD2	2.79	0.55
32:DH:32:PRO:HG3	48:DX:38:TRP:HB3	1.88	0.55
33:DI:57:VAL:HG12	33:DI:58:ILE:N	2.22	0.55
33:DI:93:ASN:HD21	33:DI:134:SER:HA	1.72	0.55
36:DL:77:ILE:HG22	36:DL:78:ARG:O	2.06	0.55
42:DR:39:LEU:N	42:DR:39:LEU:HD12	2.21	0.55
1:AA:142:G:H5'	1:AA:143:A:OP2	2.07	0.55
1:AA:175:C:C2'	1:AA:176:C:H5'	2.37	0.55
1:AA:694:A:H2'	1:AA:695:A:O5'	2.07	0.55
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.36	0.55
1:AA:1294:G:N3	1:AA:1294:G:H2'	2.21	0.55
2:AB:86:CYS:HB2	2:AB:88:GLN:OE1	2.05	0.55
3:AC:141:MET:HE1	3:AC:147:GLY:CA	2.36	0.55
5:AE:105:ILE:HD11	5:AE:123:LEU:HB3	1.89	0.55
9:AI:46:VAL:O	9:AI:49:GLN:HB2	2.06	0.55
13:AM:2:ARG:HG3	13:AM:3:ILE:N	2.19	0.55
13:AM:106:ARG:HG2	13:AM:106:ARG:HH11	1.71	0.55
1:BA:82:G:C6	1:BA:83:C:C2	2.94	0.55
1:BA:486:U:H2'	1:BA:486:U:O2	2.07	0.55
1:BA:652:U:H1'	1:BA:653:U:C5	2.42	0.55
1:BA:1157:A:C6	1:BA:1180:A:C5	2.94	0.55
1:BA:1261:A:C4	1:BA:1262:C:C6	2.95	0.55
2:BB:139:GLU:C	2:BB:143:LEU:CD2	2.80	0.55
3:BC:96:VAL:HB	3:BC:97:PRO:HD2	1.88	0.55
5:BE:100:GLU:O	5:BE:100:GLU:CD	2.49	0.55
6:BF:14:GLN:C	6:BF:16:GLU:N	2.64	0.55
6:BF:46:GLN:HA	6:BF:56:LYS:CG	2.37	0.55
9:BI:33:SER:HB3	9:BI:36:GLN:CD	2.31	0.55
11:BK:76:TYR:CD1	11:BK:76:TYR:N	2.75	0.55
20:BT:27:MET:O	20:BT:31:ILE:HG13	2.07	0.55
21:BU:3:ILE:HA	21:BU:19:LYS:HZ1	1.72	0.55
25:CA:188:G:H2'	25:CA:189:G:H5'	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1071:G:H8	25:CA:1071:G:OP2	1.90	0.55
25:CA:1248:G:OP1	41:CQ:1:ALA:N	2.39	0.55
25:CA:1932:A:H2'	25:CA:1933:G:O4'	2.07	0.55
25:CA:2619:C:OP1	28:CD:157:LYS:HE2	2.06	0.55
31:CG:8:VAL:HG12	31:CG:49:LEU:HB2	1.88	0.55
31:CG:150:TYR:O	31:CG:151:ARG:HB2	2.07	0.55
33:CI:18:ASN:CB	33:CI:37:PHE:HB3	2.35	0.55
35:CK:90:ASN:O	35:CK:91:SER:HB3	2.06	0.55
39:CO:24:THR:HG22	39:CO:42:PRO:CD	2.37	0.55
39:CO:31:THR:O	39:CO:102:ARG:NH1	2.37	0.55
49:CY:22:LEU:O	49:CY:23:ARG:C	2.48	0.55
52:C1:16:THR:CG2	52:C1:41:VAL:HG11	2.36	0.55
25:DA:666:A:C4	25:DA:667:U:C5	2.94	0.55
25:DA:753:A:H2'	25:DA:754:U:C6	2.42	0.55
25:DA:962:G:O2'	25:DA:963:U:H5'	2.06	0.55
25:DA:1744:A:H3'	25:DA:1745:A:H8	1.71	0.55
25:DA:1794:A:O4'	25:DA:1900:A:C2	2.60	0.55
56:DB:89:U:OP2	56:DB:89:U:C4'	2.55	0.55
29:DE:175:ILE:O	29:DE:175:ILE:HG13	2.06	0.55
30:DF:7:TYR:HA	30:DF:11:VAL:CB	2.35	0.55
31:DG:120:ILE:HG21	31:DG:140:ILE:HG22	1.89	0.55
39:DO:75:GLY:HA3	39:DO:106:LEU:HD23	1.89	0.55
45:DU:44:HIS:CD2	45:DU:57:ILE:HG12	2.41	0.55
49:DY:9:LYS:H	49:DY:12:GLU:CG	2.19	0.55
55:D4:26:ILE:HD13	55:D4:26:ILE:N	2.21	0.55
1:AA:55:A:C2	1:AA:56:U:H1'	2.42	0.55
1:AA:188:C:O2	1:AA:188:C:H2'	2.05	0.55
1:AA:257:G:C2	1:AA:258:G:C5	2.95	0.55
1:AA:985:C:C2	1:AA:1221:G:N2	2.75	0.55
1:AA:1080:A:OP1	5:AE:51:LYS:CE	2.55	0.55
2:AB:22:TRP:HA	2:AB:189:ASN:HA	1.89	0.55
5:AE:64:GLU:OE2	5:AE:68:ARG:NH2	2.40	0.55
9:AI:66:VAL:O	9:AI:66:VAL:HG13	2.06	0.55
9:AI:85:ALA:C	9:AI:87:MET:N	2.64	0.55
17:AQ:58:VAL:HG22	17:AQ:60:ILE:HD13	1.89	0.55
1:BA:29:U:O2'	1:BA:30:U:H5'	2.06	0.55
1:BA:501:C:H2'	1:BA:502:A:C8	2.41	0.55
1:BA:690:G:H2'	1:BA:691:G:O4'	2.07	0.55
1:BA:764:C:H2'	1:BA:765:G:H8	1.72	0.55
1:BA:1103:C:C4	1:BA:1104:G:N7	2.75	0.55
1:BA:1255:G:N1	1:BA:1279:G:C8	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:176:THR:HG22	3:BC:178:ARG:HG3	1.89	0.55
3:BC:178:ARG:O	3:BC:205:GLU:O	2.25	0.55
4:BD:25:ARG:HH11	4:BD:30:LYS:HE3	1.72	0.55
7:BG:87:PRO:HB3	7:BG:144:ALA:CB	2.37	0.55
8:BH:100:ILE:HG22	8:BH:112:ASP:OD1	2.07	0.55
9:BI:90:ASP:OD2	9:BI:93:LEU:HG	2.07	0.55
25:CA:543:G:H1'	25:CA:551:G:N2	2.21	0.55
25:CA:1452:G:O2'	25:CA:1453:A:OP1	2.25	0.55
25:CA:1626:A:H8	25:CA:1626:A:OP2	1.90	0.55
25:CA:2139:U:H2'	25:CA:2140:G:H8	1.72	0.55
25:CA:2313:C:H3'	25:CA:2313:C:C6	2.42	0.55
27:CC:24:HIS:CD2	27:CC:79:ARG:CZ	2.90	0.55
29:CE:131:THR:HG22	29:CE:160:ALA:C	2.30	0.55
30:CF:48:LEU:O	30:CF:51:ASN:N	2.39	0.55
30:CF:62:GLN:HE22	30:CF:94:ARG:HD3	1.72	0.55
31:CG:26:LYS:HB3	31:CG:31:GLU:HG3	1.88	0.55
32:CH:9:VAL:O	32:CH:10:ALA:O	2.25	0.55
39:CO:56:LYS:O	39:CO:57:ALA:C	2.51	0.55
25:DA:404:A:H1'	25:DA:405:U:P	2.47	0.55
25:DA:415:A:C5	25:DA:416:U:C5	2.95	0.55
25:DA:1414:C:C2	25:DA:1415:U:H5	2.25	0.55
25:DA:1973:G:C2'	25:DA:1974:C:H5'	2.37	0.55
25:DA:2007:U:H2'	25:DA:2008:C:O5'	2.07	0.55
25:DA:2138:G:C5	25:DA:2154:A:C2	2.95	0.55
25:DA:2188:U:H2'	25:DA:2189:U:C1'	2.37	0.55
25:DA:2585:U:O2'	25:DA:2586:U:O5'	2.24	0.55
25:DA:2722:G:H2'	25:DA:2723:C:C6	2.42	0.55
25:DA:2784:U:O2'	25:DA:2785:C:H5'	2.07	0.55
56:DB:15:A:C5	56:DB:109:A:C2	2.95	0.55
27:DC:32:LEU:O	27:DC:63:ILE:CD1	2.55	0.55
31:DG:10:VAL:HG23	31:DG:14:VAL:CG1	2.37	0.55
32:DH:27:ARG:HE	48:DX:59:ASP:HA	1.72	0.55
36:DL:136:GLU:HA	36:DL:140:GLY:HA3	1.89	0.55
37:DM:36:VAL:O	37:DM:98:PRO:HB3	2.07	0.55
40:DP:58:PHE:N	40:DP:58:PHE:CD2	2.75	0.55
45:DU:8:ASP:HB3	45:DU:24:VAL:HG23	1.88	0.55
49:DY:31:GLN:HG2	49:DY:37:LEU:HB2	1.88	0.55
52:D1:42:VAL:CG1	52:D1:44:GLN:HB2	2.36	0.55
1:AA:160:A:H1'	1:AA:344:A:C5	2.42	0.54
1:AA:198:G:O2'	1:AA:199:A:H5'	2.06	0.54
1:AA:375:U:C4	1:AA:376:G:N7	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:429:U:O2	1:AA:430:A:H5”	2.07	0.54
1:AA:987:G:O2’	1:AA:988:G:H5’	2.07	0.54
1:AA:1205:U:O2	1:AA:1205:U:H2’	2.07	0.54
1:AA:1308:U:OP2	13:AM:97:ARG:HG2	2.07	0.54
2:AB:103:TRP:CZ2	2:AB:153:MET:HG2	2.42	0.54
3:AC:12:GLY:C	3:AC:13:ILE:HG23	2.33	0.54
3:AC:21:TRP:CD1	3:AC:58:ARG:HD3	2.42	0.54
4:AD:61:ARG:HG3	4:AD:71:PHE:CD2	2.42	0.54
8:AH:62:LEU:H	8:AH:62:LEU:HD22	1.72	0.54
8:AH:93:LYS:HD3	8:AH:96:ALA:O	2.06	0.54
8:AH:124:ILE:O	8:AH:124:ILE:CG1	2.55	0.54
10:AJ:7:ARG:CB	10:AJ:75:ASP:OD1	2.54	0.54
22:AV:60:U:H5”	22:AV:61:C:C5	2.41	0.54
1:BA:462:G:C6	1:BA:463:U:C5	2.95	0.54
1:BA:958:A:C6	1:BA:959:A:N1	2.75	0.54
1:BA:1269:A:C8	1:BA:1270:G:C1’	2.90	0.54
1:BA:1323:G:O2’	1:BA:1324:A:H5’	2.07	0.54
1:BA:1364:U:O2	1:BA:1364:U:C2’	2.54	0.54
1:BA:1458:G:OP1	20:BT:29:THR:HG21	2.07	0.54
4:BD:178:GLU:HG2	4:BD:179:GLY:N	2.17	0.54
7:BG:136:LYS:O	7:BG:139:ASP:HB2	2.07	0.54
9:BI:35:GLU:CD	9:BI:35:GLU:H	2.13	0.54
10:BJ:87:LEU:C	10:BJ:87:LEU:CD2	2.80	0.54
11:BK:15:VAL:O	11:BK:16:SER:CB	2.55	0.54
11:BK:29:THR:HG21	11:BK:91:GLY:HA3	1.89	0.54
13:BM:77:LYS:HA	13:BM:80:MET:CE	2.36	0.54
25:CA:587:C:O2	36:CL:33:ARG:NH2	2.40	0.54
25:CA:1096:A:H2’	25:CA:1097:U:O4’	2.07	0.54
25:CA:1416:G:O2’	25:CA:1417:C:C6	2.59	0.54
25:CA:1480:C:H2’	25:CA:1481:U:O4’	2.08	0.54
25:CA:1838:C:C2	25:CA:1898:U:H5	2.25	0.54
28:CD:26:VAL:CG1	28:CD:186:LEU:HD13	2.36	0.54
29:CE:7:ASP:C	29:CE:9:GLN:N	2.65	0.54
30:CF:96:TRP:O	30:CF:99:PHE:N	2.40	0.54
31:CG:10:VAL:O	31:CG:47:ASN:ND2	2.40	0.54
44:CT:35:ALA:O	44:CT:38:ALA:CB	2.55	0.54
46:CV:2:PHE:HD1	46:CV:50:MET:CE	2.20	0.54
49:CY:18:LEU:CD2	49:CY:22:LEU:CD2	2.85	0.54
50:CZ:9:THR:HG22	50:CZ:10:ARG:HG3	1.88	0.54
54:C3:15:LYS:HG3	54:C3:16:THR:N	2.21	0.54
25:DA:41:C:H2’	25:DA:42:A:O5’	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:157:C:C5	25:DA:158:U:C5	2.95	0.54
25:DA:1145:C:H2'	25:DA:1146:C:H6	1.72	0.54
25:DA:1227:G:C2'	25:DA:1228:G:H5'	2.37	0.54
25:DA:1475:G:HO2'	25:DA:1476:U:P	2.30	0.54
25:DA:1498:C:H2'	25:DA:1499:C:C6	2.42	0.54
25:DA:1734:G:H2'	25:DA:1735:A:H8	1.71	0.54
25:DA:2002:G:OP1	38:DN:17:ARG:NH1	2.40	0.54
25:DA:2111:U:H5'	25:DA:2112:G:OP2	2.07	0.54
25:DA:2137:U:O4	25:DA:2154:A:N1	2.40	0.54
25:DA:2683:C:H2'	25:DA:2684:U:H6	1.71	0.54
25:DA:2729:G:O2'	25:DA:2730:C:H5'	2.07	0.54
25:DA:2834:G:H2'	25:DA:2879:A:N6	2.22	0.54
56:DB:43:C:H1'	30:DF:89:THR:HG21	1.88	0.54
33:DI:98:GLY:O	33:DI:137:LEU:HA	2.07	0.54
34:DJ:69:ARG:O	34:DJ:89:PHE:HB3	2.07	0.54
38:DN:33:ILE:O	38:DN:33:ILE:CG2	2.54	0.54
38:DN:106:ASP:OD1	38:DN:106:ASP:C	2.50	0.54
40:DP:113:LEU:O	40:DP:113:LEU:CG	2.55	0.54
49:DY:1:MET:O	49:DY:2:LYS:C	2.50	0.54
1:AA:20:U:C2'	1:AA:21:G:H5'	2.38	0.54
1:AA:93:U:H2'	1:AA:94:G:C5'	2.37	0.54
1:AA:417:G:C6	1:AA:418:C:C4	2.96	0.54
1:AA:1038:C:H2'	1:AA:1039:G:H5'	1.89	0.54
1:AA:1130:A:H1'	1:AA:1146:A:C2	2.42	0.54
2:AB:56:LEU:C	2:AB:56:LEU:CD2	2.80	0.54
2:AB:93:HIS:ND1	2:AB:145:ASN:HB2	2.22	0.54
2:AB:110:ILE:HD11	2:AB:147:LEU:CD2	2.37	0.54
3:AC:15:LYS:HG3	3:AC:16:PRO:CD	2.37	0.54
3:AC:63:ILE:HG22	3:AC:96:VAL:CG2	2.37	0.54
3:AC:109:GLU:CD	3:AC:109:GLU:H	2.15	0.54
4:AD:8:LEU:CD2	4:AD:21:LYS:HB2	2.36	0.54
4:AD:94:GLU:HG2	4:AD:185:PRO:HG2	1.89	0.54
4:AD:169:TRP:CD1	4:AD:185:PRO:HG3	2.41	0.54
11:AK:111:ASP:O	21:AU:3:ILE:HG22	2.07	0.54
13:AM:28:ARG:NH1	13:AM:62:PHE:HB3	2.22	0.54
14:AN:3:GLN:OE1	14:AN:6:LYS:HE3	2.07	0.54
16:AP:67:ILE:HG13	16:AP:71:VAL:CG1	2.37	0.54
18:AR:50:TYR:O	18:AR:54:LEU:HB2	2.05	0.54
20:AT:82:ILE:HG13	20:AT:83:ASN:H	1.73	0.54
22:AV:18:G:H1	22:AV:55:U:H1'	1.73	0.54
22:AV:24:G:H2'	22:AV:25:C:O5'	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:376:G:H5"	16:BP:5:ARG:HB2	1.89	0.54
1:BA:403:C:H5'	4:BD:131:ILE:HG23	1.88	0.54
1:BA:471:U:C2'	1:BA:472:U:H5'	2.37	0.54
1:BA:583:A:H2'	1:BA:584:G:O4'	2.07	0.54
1:BA:594:U:H2'	1:BA:595:A:C8	2.42	0.54
1:BA:824:G:H1'	8:BH:1:SER:N	2.22	0.54
1:BA:954:G:C2	1:BA:1228:C:N3	2.75	0.54
1:BA:1060:U:H5"	10:BJ:53:ILE:HG12	1.88	0.54
1:BA:1386:G:N2	1:BA:1387:G:C4	2.75	0.54
1:BA:1489:G:C4	1:BA:1490:U:C5	2.95	0.54
2:BB:112:ARG:O	2:BB:113:LEU:C	2.51	0.54
3:BC:119:ILE:HD11	3:BC:136:ALA:CB	2.38	0.54
17:BQ:31:PRO:HB2	17:BQ:32:ILE:HD12	1.88	0.54
25:CA:368:A:N7	25:CA:369:U:C5	2.75	0.54
25:CA:581:C:OP1	41:CQ:32:ARG:HG3	2.07	0.54
25:CA:1291:C:C2'	25:CA:1292:G:H5'	2.36	0.54
25:CA:1434:A:O2'	25:CA:1435:G:C8	2.56	0.54
25:CA:1538:G:H8	25:CA:1538:G:OP2	1.88	0.54
25:CA:1669:A:H5"	25:CA:1670:C:OP2	2.08	0.54
25:CA:2571:U:O2'	28:CD:151:THR:CG2	2.55	0.54
33:CI:61:TYR:OH	33:CI:67:THR:OG1	2.25	0.54
46:CV:2:PHE:CD1	46:CV:50:MET:HE2	2.41	0.54
25:DA:295:G:C5	25:DA:344:A:C2	2.94	0.54
25:DA:956:G:OP2	37:DM:86:LYS:NZ	2.40	0.54
25:DA:1474:U:H2'	25:DA:1475:G:C5'	2.37	0.54
25:DA:1588:G:H2'	25:DA:1589:U:C6	2.42	0.54
25:DA:1735:A:H2'	25:DA:1736:U:O4'	2.07	0.54
25:DA:2158:A:H4'	25:DA:2159:G:OP1	2.01	0.54
25:DA:2311:A:O2'	25:DA:2312:U:P	2.65	0.54
25:DA:2685:G:H2'	25:DA:2686:G:H8	1.73	0.54
30:DF:135:ILE:C	30:DF:137:PHE:N	2.64	0.54
31:DG:171:LYS:HG3	31:DG:172:GLU:N	2.22	0.54
32:DH:4:ILE:HG22	32:DH:5:LEU:N	2.22	0.54
32:DH:62:LEU:HB2	32:DH:135:HIS:CE1	2.43	0.54
35:DK:47:ILE:HB	35:DK:48:PRO:CD	2.37	0.54
35:DK:120:PRO:HG2	40:DP:65:ASN:ND2	2.22	0.54
37:DM:7:THR:HG21	37:DM:92:TRP:HH2	1.72	0.54
37:DM:118:LYS:HE2	37:DM:118:LYS:HA	1.89	0.54
39:DO:117:PHE:CD1	39:DO:117:PHE:C	2.85	0.54
42:DR:102:SER:O	42:DR:103:ALA:O	2.25	0.54
44:DT:29:THR:OG1	44:DT:86:THR:CG2	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DX:32:LEU:HD23	48:DX:49:ARG:NE	2.22	0.54
1:AA:346:G:H8	40:CP:36:LYS:HE2	1.71	0.54
1:AA:1160:G:O2'	1:AA:1161:C:O5'	2.23	0.54
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.49	0.54
1:AA:1411:C:O2'	1:AA:1412:C:H5'	2.08	0.54
2:AB:132:GLU:O	2:AB:136:ARG:HB2	2.08	0.54
2:AB:159:ALA:HA	2:AB:181:PRO:HD2	1.89	0.54
2:AB:193:ASP:C	2:AB:195:VAL:H	2.14	0.54
3:AC:59:PRO:O	3:AC:60:ALA:HB3	2.06	0.54
3:AC:155:ARG:HD3	3:AC:192:TYR:O	2.06	0.54
5:AE:17:VAL:HA	5:AE:33:THR:O	2.07	0.54
7:AG:91:ARG:HE	7:AG:93:VAL:CG2	2.21	0.54
8:AH:58:LEU:HD11	8:AH:60:LEU:HD21	1.88	0.54
8:AH:59:GLU:C	8:AH:59:GLU:OE2	2.49	0.54
9:AI:33:SER:HB3	9:AI:36:GLN:CG	2.37	0.54
10:AJ:27:GLU:O	10:AJ:30:LYS:HG2	2.07	0.54
11:AK:52:ARG:N	11:AK:55:ARG:HB2	2.22	0.54
13:AM:10:ASP:CG	13:AM:11:HIS:N	2.65	0.54
15:AO:7:THR:O	15:AO:11:VAL:HG23	2.07	0.54
16:AP:42:ILE:HG22	16:AP:42:ILE:O	2.08	0.54
21:AU:34:ARG:O	21:AU:35:GLU:C	2.51	0.54
1:BA:8:A:N6	4:BD:205:LYS:HB3	2.21	0.54
1:BA:71:A:H2'	1:BA:72:A:O5'	2.06	0.54
1:BA:791:G:C6	1:BA:792:A:N7	2.75	0.54
1:BA:1258:G:O2'	1:BA:1259:C:H5'	2.08	0.54
2:BB:220:VAL:O	2:BB:222:GLU:N	2.39	0.54
3:BC:18:ASN:OD1	3:BC:53:ARG:NE	2.41	0.54
3:BC:152:VAL:O	3:BC:164:THR:O	2.25	0.54
10:BJ:27:GLU:HA	10:BJ:30:LYS:HG2	1.89	0.54
11:BK:107:THR:HG22	11:BK:108:ASN:CG	2.32	0.54
14:BN:46:LEU:O	14:BN:49:GLN:HB2	2.07	0.54
16:BP:19:VAL:HG13	16:BP:37:GLY:C	2.32	0.54
16:BP:46:LYS:HD3	16:BP:48:GLU:H	1.72	0.54
18:BR:44:THR:O	18:BR:46:THR:HG22	2.07	0.54
22:BV:36:A:C2	23:BX:17:U:C2	2.95	0.54
25:CA:158:U:H2'	25:CA:158:U:O2	2.07	0.54
25:CA:449:A:H2'	25:CA:450:G:H5'	1.89	0.54
25:CA:877:A:C6	25:CA:899:A:C6	2.96	0.54
25:CA:1079:C:H2'	25:CA:1080:A:H8	1.73	0.54
25:CA:2086:U:H2'	25:CA:2087:G:C8	2.42	0.54
27:CC:149:LYS:HD3	27:CC:152:GLN:OE1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:190:ALA:C	29:CE:192:ALA:N	2.63	0.54
30:CF:173:ASP:O	30:CF:174:PHE:C	2.51	0.54
31:CG:41:GLU:HB2	31:CG:54:ARG:NH2	2.22	0.54
33:CI:17:ALA:HA	33:CI:41:PHE:CZ	2.43	0.54
33:CI:73:PRO:HB2	33:CI:77:VAL:HG21	1.89	0.54
38:CN:41:ALA:HB1	38:CN:97:ILE:HD13	1.89	0.54
43:CS:57:ASN:O	43:CS:61:ASN:HB2	2.07	0.54
25:DA:107:G:O2'	25:DA:108:G:H5'	2.07	0.54
25:DA:740:C:H5'	25:DA:1784:A:C3'	2.37	0.54
25:DA:752:A:H62	25:DA:2609:U:H3	1.55	0.54
25:DA:1203:U:O4	25:DA:1204:A:C6	2.60	0.54
25:DA:1313:U:H2'	25:DA:1610:A:C2	2.42	0.54
25:DA:1469:A:H2'	25:DA:1469:A:N3	2.21	0.54
25:DA:1502:A:C2	25:DA:1503:A:C4	2.95	0.54
25:DA:1578:U:H2'	25:DA:1579:A:O5'	2.07	0.54
27:DC:51:ARG:NH1	27:DC:246:PRO:HG3	2.22	0.54
28:DD:142:VAL:HG23	28:DD:144:GLY:H	1.72	0.54
29:DE:131:THR:O	29:DE:134:LEU:N	2.40	0.54
29:DE:148:ILE:CD1	29:DE:187:VAL:HG11	2.36	0.54
36:DL:128:THR:OG1	36:DL:131:ALA:HB2	2.08	0.54
39:DO:40:ILE:HG22	39:DO:41:ALA:N	2.23	0.54
42:DR:86:GLN:O	42:DR:86:GLN:HG3	2.07	0.54
44:DT:30:ILE:HD11	44:DT:32:LEU:HD23	1.88	0.54
49:DY:11:VAL:HG13	49:DY:15:ASN:OD1	2.07	0.54
1:AA:109:A:C6	1:AA:326:G:C6	2.95	0.54
1:AA:240:G:OP1	1:AA:240:G:C4'	2.56	0.54
1:AA:955:U:C5	1:AA:956:U:C5	2.95	0.54
1:AA:1234:C:C2'	1:AA:1235:U:H5'	2.38	0.54
1:AA:1271:A:OP1	1:AA:1314:C:H4'	2.08	0.54
1:AA:1314:C:OP2	19:AS:5:LYS:HD3	2.08	0.54
2:AB:137:THR:HA	2:AB:140:LEU:HB2	1.88	0.54
9:AI:20:ILE:HD11	9:AI:85:ALA:HB3	1.88	0.54
9:AI:46:VAL:CG2	9:AI:75:ALA:HB1	2.38	0.54
10:AJ:40:ILE:HG21	10:AJ:73:LEU:HD12	1.89	0.54
11:AK:114:PRO:O	11:AK:115:ILE:HD13	2.07	0.54
13:AM:80:MET:HG2	13:AM:91:ARG:NH2	2.22	0.54
18:AR:32:ILE:HA	18:AR:39:VAL:HG23	1.89	0.54
1:BA:73:C:O2'	1:BA:74:A:O5'	2.25	0.54
1:BA:157:U:O2'	1:BA:158:G:H5'	2.08	0.54
1:BA:417:G:C6	1:BA:418:C:C4	2.95	0.54
1:BA:747:A:N6	1:BA:748:G:C6	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:787:A:N1	1:BA:795:C:N4	2.54	0.54
1:BA:1022:A:C5	1:BA:1023:U:C5	2.96	0.54
1:BA:1053:G:N2	1:BA:1056:U:C5	2.75	0.54
1:BA:1179:A:H4'	9:BI:104:THR:HA	1.90	0.54
1:BA:1251:A:O2'	1:BA:1252:A:H5'	2.06	0.54
1:BA:1291:U:H4'	9:BI:41:GLU:OE2	2.08	0.54
4:BD:196:GLU:CD	4:BD:196:GLU:H	2.14	0.54
5:BE:80:LEU:N	5:BE:80:LEU:HD13	2.22	0.54
12:BL:71:HIS:ND1	12:BL:71:HIS:C	2.65	0.54
13:BM:70:ARG:O	13:BM:74:MET:HB2	2.08	0.54
16:BP:50:THR:HG22	16:BP:50:THR:O	2.06	0.54
19:BS:62:THR:HB	19:BS:65:MET:CG	2.37	0.54
20:BT:53:MET:HE1	20:BT:57:VAL:HG21	1.90	0.54
20:BT:66:ILE:HG23	20:BT:67:HIS:H	1.72	0.54
25:CA:547:A:C8	25:CA:548:G:N3	2.75	0.54
25:CA:587:C:O2'	36:CL:19:LEU:HD11	2.07	0.54
25:CA:1051:G:H5'	25:CA:1052:C:OP2	2.07	0.54
25:CA:1212:G:H1'	25:CA:1236:G:N2	2.23	0.54
25:CA:1486:U:O2	25:CA:1504:A:C2	2.60	0.54
25:CA:1507:C:N4	25:CA:1508:A:C2	2.75	0.54
25:CA:1588:G:C5	25:CA:1589:U:C5	2.95	0.54
25:CA:1936:A:H3'	25:CA:1937:A:H5'	1.89	0.54
25:CA:2534:A:H2'	25:CA:2535:G:O5'	2.07	0.54
27:CC:161:VAL:HG13	27:CC:173:LEU:HB3	1.88	0.54
28:CD:86:GLU:CA	28:CD:86:GLU:OE1	2.54	0.54
29:CE:19:PHE:CE1	29:CE:109:LEU:HD23	2.42	0.54
44:CT:7:LEU:HD22	44:CT:46:ALA:HA	1.88	0.54
46:CV:2:PHE:HD1	46:CV:50:MET:HE3	1.71	0.54
46:CV:6:ALA:HB1	46:CV:40:ILE:CG2	2.38	0.54
51:C0:54:ILE:CG2	51:C0:55:ALA:N	2.58	0.54
25:DA:1433:A:H2'	25:DA:1434:A:C1'	2.37	0.54
25:DA:1468:U:C2	25:DA:1525:A:C2	2.95	0.54
25:DA:1703:G:H2'	25:DA:1704:C:C6	2.43	0.54
25:DA:2024:G:H2'	25:DA:2025:C:O4'	2.08	0.54
25:DA:2053:G:N2	25:DA:2054:A:H1'	2.22	0.54
25:DA:2144:G:N3	25:DA:2146:C:O2	2.41	0.54
25:DA:2177:C:N4	25:DA:2178:C:H41	2.05	0.54
25:DA:2221:G:C4	25:DA:2222:C:C5	2.96	0.54
25:DA:2364:C:C2'	25:DA:2365:G:H5'	2.38	0.54
25:DA:2660:A:C2	25:DA:2661:G:C4	2.96	0.54
25:DA:2808:G:N1	25:DA:2891:U:C5	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DD:101:PHE:HD1	28:DD:104:VAL:HG11	1.73	0.54
29:DE:143:LEU:HB3	29:DE:146:VAL:CG1	2.37	0.54
29:DE:187:VAL:O	29:DE:187:VAL:CG1	2.55	0.54
31:DG:128:THR:O	31:DG:129:GLU:HG2	2.07	0.54
35:DK:4:GLU:O	35:DK:5:GLN:CB	2.55	0.54
35:DK:114:LYS:HD2	35:DK:118:LEU:HD21	1.89	0.54
39:DO:40:ILE:HG21	39:DO:44:GLY:HA2	1.90	0.54
1:AA:8:A:H5'	5:AE:124:ALA:O	2.07	0.54
1:AA:85:U:H4'	1:AA:86:G:OP1	2.06	0.54
1:AA:257:G:N2	1:AA:258:G:C4	2.76	0.54
1:AA:293:G:C5	1:AA:294:U:C5	2.95	0.54
1:AA:303:A:H2'	1:AA:304:U:O4'	2.08	0.54
1:AA:376:G:H2'	1:AA:377:G:C8	2.41	0.54
1:AA:1161:C:O2	1:AA:1176:A:C2	2.60	0.54
1:AA:1215:G:H2'	1:AA:1216:A:H5'	1.90	0.54
1:AA:1245:C:H2'	1:AA:1246:A:O4'	2.08	0.54
1:AA:1504:G:H4'	1:AA:1505:G:C4	2.43	0.54
5:AE:20:VAL:O	5:AE:20:VAL:CG2	2.55	0.54
6:AF:3:HIS:HB2	6:AF:92:THR:HG23	1.89	0.54
6:AF:43:GLY:HA2	6:AF:58:HIS:NE2	2.22	0.54
8:AH:100:ILE:HD11	8:AH:128:VAL:HG23	1.90	0.54
17:AQ:15:LYS:C	17:AQ:15:LYS:HD2	2.33	0.54
1:BA:190:A:H2'	1:BA:191:G:O5'	2.07	0.54
1:BA:404:G:O2'	1:BA:405:U:H5'	2.08	0.54
1:BA:467:U:H3'	1:BA:468:A:C5'	2.38	0.54
1:BA:564:C:C4	1:BA:565:U:C4	2.96	0.54
1:BA:605:U:O2'	1:BA:606:G:H5'	2.08	0.54
1:BA:628:G:H2'	1:BA:629:A:H8	1.70	0.54
1:BA:775:G:H2'	1:BA:776:G:O4'	2.08	0.54
1:BA:846:G:C2'	1:BA:847:G:H5'	2.38	0.54
1:BA:905:U:H2'	1:BA:906:A:H5'	1.88	0.54
1:BA:949:A:C4	1:BA:1233:G:N2	2.75	0.54
1:BA:1070:U:H2'	1:BA:1071:C:H6	1.72	0.54
2:BB:72:LYS:O	2:BB:74:ALA:N	2.40	0.54
4:BD:25:ARG:O	4:BD:26:ALA:CB	2.55	0.54
10:BJ:26:VAL:HG21	10:BJ:39:PRO:HD3	1.90	0.54
11:BK:14:GLN:C	11:BK:14:GLN:HE21	2.15	0.54
12:BL:65:TYR:O	12:BL:96:THR:OG1	2.24	0.54
13:BM:94:LEU:HB3	13:BM:95:PRO:HD2	1.88	0.54
16:BP:11:ALA:O	16:BP:12:LYS:C	2.50	0.54
17:BQ:12:VAL:HG11	17:BQ:21:VAL:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:998:C:C2'	25:CA:999:U:O5'	2.56	0.54
25:CA:1379:U:OP1	25:CA:1379:U:C6	2.61	0.54
25:CA:1783:A:H5'	25:CA:2608:G:H4'	1.89	0.54
25:CA:2006:C:H6	25:CA:2006:C:O5'	1.91	0.54
25:CA:2141:G:C2	25:CA:2142:A:H1'	2.43	0.54
25:CA:2331:G:O4'	47:CW:38:GLY:HA3	2.07	0.54
25:CA:2492:U:H2'	25:CA:2493:U:H5'	1.88	0.54
25:CA:2585:U:HO2'	25:CA:2586:U:P	2.30	0.54
25:CA:2870:C:C5	25:CA:2871:U:C5	2.96	0.54
30:CF:90:LEU:C	30:CF:95:MET:HB2	2.32	0.54
40:CP:30:TRP:CZ3	40:CP:39:LEU:HD13	2.43	0.54
41:CQ:60:TRP:O	41:CQ:61:ILE:C	2.51	0.54
51:C0:47:TYR:CE2	51:C0:52:LYS:HB2	2.42	0.54
25:DA:14:A:C6	25:DA:526:A:C2	2.96	0.54
25:DA:230:G:N1	25:DA:231:A:C5	2.76	0.54
25:DA:318:C:O2'	25:DA:319:G:H5'	2.07	0.54
25:DA:404:A:C4'	25:DA:405:U:OP2	2.54	0.54
25:DA:548:G:O2'	25:DA:549:G:C6	2.61	0.54
25:DA:832:U:H2'	25:DA:833:A:H8	1.73	0.54
25:DA:995:C:OP2	41:DQ:52:ARG:NH1	2.40	0.54
25:DA:1010:A:H1'	25:DA:1153:C:H1'	1.88	0.54
25:DA:1061:U:H5"	25:DA:1061:U:O2	2.08	0.54
25:DA:1538:G:O2'	25:DA:1539:U:H5'	2.08	0.54
25:DA:2019:A:H4'	41:DQ:33:VAL:HG21	1.90	0.54
25:DA:2072:C:H5"	25:DA:2072:C:C6	2.40	0.54
25:DA:2311:A:O2'	25:DA:2312:U:O4'	2.25	0.54
25:DA:2692:G:H1'	25:DA:2847:U:H1'	1.89	0.54
25:DA:2769:U:H2'	25:DA:2769:U:O2	2.07	0.54
29:DE:189:THR:O	29:DE:192:ALA:HB3	2.07	0.54
32:DH:4:ILE:CG2	32:DH:17:ASP:N	2.70	0.54
36:DL:89:VAL:O	36:DL:89:VAL:HG13	2.08	0.54
36:DL:110:VAL:HB	36:DL:127:VAL:HG13	1.89	0.54
45:DU:93:ARG:C	45:DU:102:ILE:HD12	2.32	0.54
49:DY:8:GLU:CA	49:DY:12:GLU:HG3	2.38	0.54
1:AA:73:C:O2'	1:AA:74:A:H5"	2.08	0.54
1:AA:428:G:H4'	1:AA:429:U:OP1	2.07	0.54
1:AA:683:G:O2'	1:AA:684:U:H5'	2.07	0.54
1:AA:827:U:H5"	1:AA:828:U:OP2	2.08	0.54
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.41	0.54
1:AA:1299:A:C6	1:AA:1301:U:O2	2.60	0.54
1:AA:1397:C:HO2'	1:AA:1398:A:P	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:34:ARG:NE	2:AB:34:ARG:CA	2.71	0.54
2:AB:53:LEU:CD1	2:AB:56:LEU:HD12	2.38	0.54
2:AB:54:ALA:O	2:AB:58:LYS:HB2	2.07	0.54
2:AB:67:LEU:HB3	2:AB:160:LEU:HD23	1.90	0.54
2:AB:205:ALA:O	2:AB:207:ARG:N	2.41	0.54
7:AG:70:PRO:HG3	7:AG:102:TRP:CH2	2.43	0.54
8:AH:74:ILE:HD13	8:AH:128:VAL:HG22	1.86	0.54
11:AK:110:THR:HG23	21:AU:4:LYS:CB	2.38	0.54
14:AN:30:ILE:HG23	14:AN:45:VAL:HB	1.88	0.54
14:AN:41:ARG:HG3	14:AN:42:TRP:CE3	2.42	0.54
15:AO:23:SER:HB3	15:AO:26:VAL:CG2	2.37	0.54
17:AQ:16:MET:HG2	17:AQ:19:SER:HB3	1.88	0.54
21:AU:25:ALA:O	21:AU:26:GLY:C	2.50	0.54
23:AX:10:G:C5	23:AX:11:U:C4	2.96	0.54
1:BA:194:C:H3'	60:BA:1716:HOH:O	2.08	0.54
1:BA:660:C:C2	1:BA:661:G:C8	2.95	0.54
1:BA:929:G:C6	1:BA:930:C:C4	2.95	0.54
1:BA:977:A:N3	1:BA:977:A:C2'	2.71	0.54
1:BA:1244:G:N1	1:BA:1294:G:N1	2.56	0.54
2:BB:14:HIS:C	2:BB:14:HIS:ND1	2.65	0.54
3:BC:84:GLU:HG3	3:BC:85:LYS:H	1.72	0.54
4:BD:32:LYS:O	4:BD:32:LYS:HG3	2.07	0.54
4:BD:32:LYS:HB2	4:BD:32:LYS:NZ	2.22	0.54
4:BD:172:VAL:O	4:BD:178:GLU:O	2.26	0.54
5:BE:148:SER:HB2	5:BE:151:MET:HG2	1.89	0.54
8:BH:85:TYR:C	8:BH:86:LYS:HD2	2.33	0.54
9:BI:43:ALA:HB1	9:BI:46:VAL:CG2	2.36	0.54
10:BJ:36:VAL:HG22	10:BJ:76:ILE:HG12	1.90	0.54
10:BJ:59:LYS:O	10:BJ:62:ARG:HD2	2.08	0.54
11:BK:22:ILE:HD11	11:BK:85:VAL:HG13	1.89	0.54
11:BK:107:THR:HG22	11:BK:108:ASN:ND2	2.22	0.54
12:BL:86:VAL:HG11	12:BL:89:LEU:CD2	2.37	0.54
13:BM:22:TYR:HB3	13:BM:65:GLU:HA	1.90	0.54
14:BN:7:ALA:O	14:BN:8:ARG:C	2.51	0.54
20:BT:68:LYS:HB3	20:BT:69:ASN:OD1	2.07	0.54
20:BT:73:ARG:O	20:BT:74:HIS:C	2.51	0.54
25:CA:90:U:H2'	25:CA:91:A:C8	2.41	0.54
25:CA:301:G:C4	25:CA:302:C:C5	2.96	0.54
25:CA:981:A:P	60:CA:3598:HOH:O	2.58	0.54
25:CA:1851:U:H2'	25:CA:1852:U:O5'	2.07	0.54
25:CA:1908:C:C5'	25:CA:1909:C:OP2	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1926:U:H2'	25:CA:1926:U:O2	2.06	0.54
25:CA:2127:G:N2	25:CA:2161:C:O2	2.40	0.54
25:CA:2170:A:OP2	25:CA:2170:A:C8	2.61	0.54
25:CA:2318:G:C6	25:CA:2319:G:C6	2.95	0.54
25:CA:2346:A:C3'	25:CA:2347:C:C5'	2.81	0.54
25:CA:2602:A:C4'	25:CA:2603:G:OP2	2.53	0.54
27:CC:265:PHE:N	27:CC:265:PHE:CD1	2.75	0.54
27:CC:270:ARG:HH11	27:CC:270:ARG:HG2	1.71	0.54
33:CI:57:VAL:CG1	33:CI:58:ILE:N	2.71	0.54
33:CI:59:THR:HG22	33:CI:61:TYR:CZ	2.43	0.54
34:CJ:65:THR:O	34:CJ:68:LYS:HG3	2.07	0.54
39:CO:24:THR:HG22	39:CO:42:PRO:HG3	1.89	0.54
44:CT:67:VAL:HG22	44:CT:76:ARG:HG3	1.90	0.54
25:DA:9:G:C6	25:DA:2629:U:C5	2.96	0.54
25:DA:82:U:H2'	25:DA:83:A:C8	2.42	0.54
25:DA:298:G:H8	25:DA:298:G:O5'	1.91	0.54
25:DA:528:A:C2	25:DA:2043:C:H5'	2.42	0.54
25:DA:623:C:H2'	25:DA:624:C:C6	2.42	0.54
25:DA:1090:A:C2	25:DA:1102:C:O2	2.60	0.54
25:DA:1324:G:C2	25:DA:1328:A:N1	2.76	0.54
25:DA:1607:C:H4'	25:DA:1608:A:O5'	2.08	0.54
25:DA:2104:C:C2	25:DA:2186:G:N2	2.75	0.54
25:DA:2196:C:O2'	25:DA:2197:U:H5'	2.08	0.54
25:DA:2291:U:H2'	25:DA:2292:U:C5	2.43	0.54
27:DC:251:THR:CG2	27:DC:252:LYS:N	2.69	0.54
31:DG:83:THR:OG1	31:DG:133:LYS:HG2	2.08	0.54
35:DK:20:MET:HE3	35:DK:21:CYS:O	2.08	0.54
39:DO:31:THR:HG23	39:DO:32:PRO:CD	2.36	0.54
43:DS:9:HIS:CD2	43:DS:9:HIS:N	2.76	0.54
49:DY:32:ALA:O	49:DY:35:GLY:HA2	2.07	0.54
1:AA:81:A:H2'	1:AA:82:G:H5'	1.90	0.54
1:AA:86:G:O4'	1:AA:86:G:N3	2.40	0.54
1:AA:128:G:O2'	1:AA:129:A:H5'	2.07	0.54
1:AA:209:U:H4'	1:AA:210:C:OP2	2.06	0.54
1:AA:338:A:N1	1:AA:351:G:O6	2.41	0.54
1:AA:832:G:H2'	1:AA:833:G:H5'	1.88	0.54
1:AA:1244:G:O2'	1:AA:1245:C:H5'	2.07	0.54
1:AA:1247:U:O2'	1:AA:1248:A:H5'	2.08	0.54
3:AC:59:PRO:CB	10:AJ:94:ALA:HB1	2.38	0.54
4:AD:57:LYS:HG2	4:AD:202:LEU:HD22	1.90	0.54
4:AD:144:ILE:HD13	4:AD:177:MET:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:136:VAL:O	5:AE:137:ARG:HB3	2.06	0.54
6:AF:10:VAL:HG13	6:AF:11:HIS:N	2.23	0.54
9:AI:95:SER:CA	9:AI:98:ARG:HB2	2.35	0.54
10:AJ:18:ILE:HG12	10:AJ:72:ARG:HG3	1.90	0.54
19:AS:12:LEU:O	19:AS:13:HIS:C	2.51	0.54
1:BA:175:C:C2'	1:BA:176:C:H5'	2.38	0.54
1:BA:363:A:C6	1:BA:364:A:C6	2.96	0.54
1:BA:394:G:H2'	1:BA:395:C:H6	1.72	0.54
1:BA:666:G:H5'	1:BA:726:C:H1'	1.90	0.54
1:BA:1237:C:H2'	1:BA:1336:C:C5	2.42	0.54
1:BA:1363:A:C5	1:BA:1365:G:C6	2.96	0.54
1:BA:1460:C:H2'	1:BA:1461:G:O5'	2.07	0.54
3:BC:164:THR:O	3:BC:165:GLU:HB3	2.08	0.54
4:BD:33:ILE:O	4:BD:34:GLU:CB	2.54	0.54
7:BG:115:MET:HA	7:BG:118:ARG:HD3	1.90	0.54
7:BG:135:LYS:HE2	7:BG:139:ASP:OD1	2.08	0.54
9:BI:97:LEU:O	9:BI:103:VAL:HG13	2.07	0.54
12:BL:73:LEU:CD1	12:BL:79:ILE:HG21	2.37	0.54
25:CA:277:G:H4'	25:CA:278:A:N6	2.22	0.54
25:CA:1246:A:H2'	25:CA:1247:A:O5'	2.08	0.54
25:CA:1371:G:O2'	25:CA:1372:U:H5'	2.07	0.54
25:CA:1889:A:H1'	25:CA:2086:U:O2'	2.08	0.54
25:CA:2019:A:C2'	25:CA:2020:A:O5'	2.56	0.54
25:CA:2458:G:C2	25:CA:2490:G:N2	2.76	0.54
26:CB:43:C:H5"	26:CB:44:G:OP2	2.07	0.54
39:CO:93:ASP:C	39:CO:95:SER:H	2.16	0.54
40:CP:111:GLU:HG3	40:CP:112:ARG:N	2.23	0.54
25:DA:120:U:O4'	25:DA:149:A:C8	2.61	0.54
25:DA:279:A:C5	25:DA:280:U:C5	2.95	0.54
25:DA:792:A:C3'	25:DA:793:A:H5'	2.37	0.54
25:DA:1062:G:C5	25:DA:1088:A:H2'	2.43	0.54
25:DA:1998:A:H2'	25:DA:1999:C:H6	1.73	0.54
25:DA:2179:C:C2	25:DA:2180:U:C6	2.96	0.54
25:DA:2221:G:C5	25:DA:2222:C:C5	2.96	0.54
25:DA:2248:C:H2'	25:DA:2249:U:H5'	1.90	0.54
25:DA:2392:A:C2	25:DA:2393:U:C2	2.96	0.54
30:DF:103:ILE:O	30:DF:108:PRO:HD3	2.07	0.54
37:DM:107:GLY:C	37:DM:108:VAL:CG2	2.81	0.54
40:DP:74:GLN:O	40:DP:77:SER:CB	2.56	0.54
44:DT:2:ILE:HG23	44:DT:3:ARG:O	2.07	0.54
44:DT:14:PRO:CD	49:DY:33:ALA:HB1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:424:G:O2'	1:AA:425:G:H5'	2.08	0.54
1:AA:980:C:C5	1:AA:981:U:C4	2.95	0.54
1:AA:1451:U:H5"	1:AA:1452:C:C5	2.42	0.54
4:AD:75:TYR:CG	4:AD:203:TYR:HD1	2.26	0.54
5:AE:33:THR:HB	5:AE:49:TYR:CE2	2.42	0.54
8:AH:24:VAL:O	8:AH:24:VAL:HG13	2.07	0.54
9:AI:44:ARG:N	9:AI:45:MET:SD	2.80	0.54
10:AJ:91:ASP:C	10:AJ:92:LEU:HG	2.33	0.54
12:AL:2:THR:CG2	12:AL:4:ASN:CB	2.86	0.54
14:AN:87:ALA:HA	14:AN:90:ARG:HH12	1.72	0.54
16:AP:5:ARG:HA	16:AP:68:SER:OG	2.08	0.54
19:AS:39:ILE:CD1	19:AS:70:LEU:HD22	2.38	0.54
21:AU:3:ILE:HD13	21:AU:19:LYS:HE3	1.90	0.54
24:AY:14:MET:O	24:AY:17:CYS:HB2	2.07	0.54
1:BA:146:G:C2'	1:BA:147:G:H5'	2.38	0.54
1:BA:220:G:O2'	1:BA:221:C:H5'	2.07	0.54
1:BA:1219:A:H2'	1:BA:1220:G:H8	1.73	0.54
2:BB:53:LEU:HA	2:BB:56:LEU:CB	2.38	0.54
2:BB:207:ARG:O	2:BB:210:THR:N	2.41	0.54
4:BD:167:PRO:HG2	4:BD:170:LEU:HD11	1.90	0.54
4:BD:178:GLU:CG	4:BD:179:GLY:N	2.70	0.54
5:BE:106:ALA:HB1	5:BE:124:ALA:CB	2.38	0.54
6:BF:13:ASP:C	6:BF:15:SER:H	2.16	0.54
10:BJ:67:ILE:HG12	14:BN:96:LEU:CA	2.37	0.54
10:BJ:78:GLU:O	10:BJ:78:GLU:CG	2.56	0.54
11:BK:123:PRO:O	11:BK:125:LYS:N	2.41	0.54
14:BN:26:LEU:O	14:BN:27:LYS:HB3	2.08	0.54
23:BX:10:G:O2'	23:BX:11:U:H5'	2.07	0.54
25:CA:717:C:H2'	25:CA:718:A:H5'	1.89	0.54
25:CA:1100:C:H2'	25:CA:1101:U:C6	2.43	0.54
25:CA:1645:G:H5"	25:CA:1646:C:H5'	1.90	0.54
25:CA:2145:C:H6	25:CA:2145:C:H3'	1.73	0.54
25:CA:2218:G:C6	25:CA:2219:U:C4	2.96	0.54
25:CA:2748:A:C2	25:CA:2757:A:C4	2.96	0.54
26:CB:33:G:H2'	26:CB:34:A:H5'	1.89	0.54
29:CE:108:ILE:HD12	29:CE:108:ILE:O	2.08	0.54
29:CE:177:PRO:O	29:CE:178:VAL:C	2.51	0.54
31:CG:130:ILE:HG22	31:CG:131:VAL:H	1.73	0.54
32:CH:135:HIS:HD2	32:CH:138:VAL:HG23	1.73	0.54
35:CK:9:ASN:O	35:CK:83:ALA:HA	2.08	0.54
35:CK:55:GLY:O	35:CK:56:ASP:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CL:28:GLY:C	36:CL:29:LYS:O	2.51	0.54
37:CM:55:ARG:HH21	37:CM:55:ARG:CG	2.20	0.54
37:CM:125:PRO:C	37:CM:126:ILE:HG23	2.33	0.54
25:DA:591:U:H1'	54:D3:1:PRO:N	2.23	0.54
25:DA:630:G:H3'	25:DA:631:A:C5'	2.37	0.54
25:DA:792:A:C4'	25:DA:793:A:H5'	2.38	0.54
25:DA:1047:G:C4'	25:DA:1048:A:H5'	2.37	0.54
25:DA:1494:A:H2'	25:DA:1495:A:C8	2.43	0.54
25:DA:1563:U:O2'	25:DA:1564:C:H5'	2.07	0.54
25:DA:1629:U:O2	25:DA:2698:U:H5"	2.08	0.54
25:DA:2217:G:C2'	25:DA:2218:G:H5'	2.38	0.54
25:DA:2309:A:C5	25:DA:2310:C:C4	2.96	0.54
25:DA:2673:G:C2	25:DA:2674:G:C8	2.96	0.54
25:DA:2730:C:O2'	25:DA:2731:G:C5'	2.55	0.54
56:DB:65:U:C4	56:DB:108:A:C4	2.96	0.54
27:DC:16:VAL:H	27:DC:203:VAL:HG22	1.71	0.54
31:DG:75:VAL:C	31:DG:77:GLY:N	2.64	0.54
32:DH:120:GLY:O	32:DH:121:VAL:C	2.50	0.54
33:DI:6:ALA:O	33:DI:58:ILE:HB	2.08	0.54
37:DM:41:LEU:HD21	37:DM:124:LEU:HD13	1.90	0.54
37:DM:57:VAL:O	37:DM:58:LYS:HB2	2.08	0.54
38:DN:51:LEU:CD1	38:DN:70:THR:HG22	2.38	0.54
39:DO:33:ARG:O	39:DO:34:HIS:CD2	2.61	0.54
44:DT:10:VAL:HG12	44:DT:11:LEU:HD23	1.89	0.54
48:DX:32:LEU:HD23	48:DX:49:ARG:CZ	2.36	0.54
53:D2:44:VAL:HG12	53:D2:44:VAL:O	2.08	0.54
1:AA:451:A:OP2	16:AP:70:ARG:NH2	2.41	0.54
1:AA:452:A:N6	1:AA:480:U:H3	2.05	0.54
1:AA:1060:U:H5"	10:AJ:53:ILE:HG23	1.89	0.54
1:AA:1323:G:C2	1:AA:1324:A:C4	2.95	0.54
4:AD:146:GLU:HA	4:AD:149:LYS:HD2	1.89	0.54
5:AE:106:ALA:O	5:AE:111:ARG:NH2	2.41	0.54
6:AF:20:GLY:O	6:AF:23:GLU:HB3	2.07	0.54
6:AF:71:ILE:HG13	6:AF:72:ASP:N	2.23	0.54
8:AH:76:ARG:NE	8:AH:78:SER:O	2.41	0.54
10:AJ:28:THR:O	10:AJ:32:THR:CG2	2.55	0.54
12:AL:87:LYS:O	12:AL:87:LYS:HG3	2.07	0.54
13:AM:94:LEU:HB3	13:AM:95:PRO:CD	2.38	0.54
24:AY:59:THR:HG22	24:AY:60:VAL:C	2.33	0.54
1:BA:16:A:C2	1:BA:17:U:C6	2.95	0.54
1:BA:49:U:O2	1:BA:362:G:H1'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:209:U:C4'	1:BA:210:C:OP2	2.56	0.54
1:BA:261:U:C5	20:BT:73:ARG:CZ	2.91	0.54
1:BA:270:A:C6	1:BA:271:C:C4	2.96	0.54
1:BA:620:C:C2	4:BD:131:ILE:HG12	2.43	0.54
1:BA:1002:G:C2	1:BA:1039:G:C2	2.96	0.54
1:BA:1207:G:H2'	1:BA:1208:C:O4'	2.07	0.54
1:BA:1269:A:C8	1:BA:1270:G:H1'	2.42	0.54
1:BA:1324:A:C6	1:BA:1325:C:C4	2.96	0.54
2:BB:96:LEU:O	2:BB:99:MET:HG2	2.07	0.54
4:BD:71:PHE:CE1	4:BD:199:ILE:HD11	2.42	0.54
7:BG:99:ALA:O	7:BG:103:ILE:HG13	2.08	0.54
9:BI:27:ILE:HG23	9:BI:62:LEU:HG	1.89	0.54
12:BL:19:ASN:H	12:BL:19:ASN:ND2	2.05	0.54
25:CA:1085:A:C5	25:CA:1086:A:N1	2.76	0.54
25:CA:2615:U:C2	51:C0:3:GLN:HA	2.43	0.54
28:CD:13:ARG:O	28:CD:14:ILE:HD13	2.08	0.54
29:CE:118:LEU:HD11	29:CE:188:MET:HG3	1.88	0.54
29:CE:128:ALA:HB1	29:CE:129:PRO:CD	2.38	0.54
33:CI:32:VAL:HG21	33:CI:58:ILE:HG23	1.90	0.54
33:CI:57:VAL:O	33:CI:58:ILE:HD13	2.07	0.54
35:CK:28:SER:C	35:CK:30:ARG:H	2.15	0.54
36:CL:104:GLN:OE1	36:CL:104:GLN:HA	2.08	0.54
41:CQ:88:GLU:H	42:CR:49:ILE:CD1	2.21	0.54
47:CW:37:ARG:O	47:CW:53:HIS:ND1	2.41	0.54
52:C1:16:THR:HG21	52:C1:41:VAL:CB	2.35	0.54
25:DA:197:A:N6	25:DA:2430:A:H2'	2.23	0.54
25:DA:200:U:C4	25:DA:248:G:C2	2.96	0.54
25:DA:715:A:OP1	25:DA:715:A:H8	1.91	0.54
25:DA:845:A:H3'	25:DA:845:A:N3	2.23	0.54
25:DA:871:U:H4'	37:DM:68:PHE:CD2	2.43	0.54
25:DA:1077:A:C2	25:DA:1088:A:C2	2.96	0.54
25:DA:1233:C:C2'	25:DA:1234:U:O5'	2.56	0.54
25:DA:1276:A:H5"	25:DA:1276:A:C8	2.43	0.54
25:DA:1276:A:H5"	25:DA:1276:A:H8	1.73	0.54
25:DA:1494:A:C4	25:DA:1495:A:C8	2.96	0.54
25:DA:1693:U:H4'	25:DA:1694:C:OP2	2.07	0.54
25:DA:1704:C:H2'	25:DA:1705:A:C8	2.43	0.54
25:DA:1758:U:C5	25:DA:2696:U:H5'	2.43	0.54
25:DA:1870:C:C3'	25:DA:1871:A:H5'	2.38	0.54
25:DA:2020:A:C2	25:DA:2022:U:O4'	2.61	0.54
25:DA:2097:A:C5	25:DA:2098:U:C5	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2233:U:H2'	25:DA:2234:G:C8	2.43	0.54
25:DA:2531:A:H4'	31:DG:156:TYR:CD1	2.42	0.54
25:DA:2816:G:O3'	38:DN:99:LYS:HE2	2.08	0.54
28:DD:101:PHE:HA	28:DD:104:VAL:CG1	2.38	0.54
29:DE:109:LEU:HD13	29:DE:180:LEU:HD13	1.89	0.54
30:DF:131:VAL:O	30:DF:131:VAL:HG23	2.08	0.54
31:DG:37:ASN:HB3	31:DG:40:VAL:HG23	1.90	0.54
32:DH:21:VAL:O	32:DH:22:LYS:C	2.51	0.54
33:DI:74:PRO:O	33:DI:78:LEU:HD12	2.07	0.54
33:DI:79:LEU:HD13	33:DI:135:MET:SD	2.48	0.54
33:DI:121:ILE:HG23	33:DI:124:MET:HE1	1.90	0.54
35:DK:108:ARG:O	35:DK:109:SER:HB3	2.08	0.54
36:DL:28:GLY:C	36:DL:29:LYS:O	2.50	0.54
36:DL:76:GLU:O	36:DL:76:GLU:CG	2.56	0.54
36:DL:81:ASP:O	36:DL:82:LEU:CB	2.54	0.54
36:DL:123:ARG:HG3	36:DL:143:GLU:HG3	1.90	0.54
38:DN:86:ARG:HD2	38:DN:117:ASP:OD2	2.07	0.54
40:DP:51:ASN:O	40:DP:52:ARG:HD3	2.08	0.54
40:DP:53:GLY:O	40:DP:56:SER:OG	2.26	0.54
41:DQ:61:ILE:HG23	41:DQ:75:TYR:CE1	2.43	0.54
49:DY:28:LEU:HD13	49:DY:46:VAL:HG21	1.89	0.54
52:D1:46:VAL:CG1	52:D1:47:ILE:N	2.70	0.54
1:AA:9:G:O2'	1:AA:10:A:H5'	2.08	0.54
1:AA:374:A:O4'	1:AA:481:G:N2	2.41	0.54
1:AA:464:U:N3	1:AA:466:A:C5'	2.71	0.54
1:AA:510:A:H5"	1:AA:511:C:P	2.48	0.54
1:AA:549:C:H2'	1:AA:550:G:O5'	2.08	0.54
1:AA:791:G:C6	1:AA:792:A:N7	2.76	0.54
1:AA:850:U:H2'	1:AA:851:G:H5"	1.90	0.54
1:AA:943:U:H2'	1:AA:944:G:C5'	2.37	0.54
1:AA:1007:U:H2'	1:AA:1008:U:H5'	1.89	0.54
1:AA:1201:A:H1'	1:AA:1202:U:OP2	2.07	0.54
1:AA:1305:G:H2'	1:AA:1331:G:N2	2.23	0.54
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.73	0.54
2:AB:130:LYS:HE2	2:AB:130:LYS:HA	1.90	0.54
3:AC:54:ILE:HD12	3:AC:54:ILE:C	2.32	0.54
3:AC:57:GLU:HG3	3:AC:64:ARG:CB	2.38	0.54
3:AC:105:VAL:C	3:AC:106:ARG:O	2.51	0.54
5:AE:40:ASP:OD1	5:AE:40:ASP:C	2.51	0.54
5:AE:71:ILE:HG21	5:AE:144:GLU:HB2	1.90	0.54
5:AE:96:GLN:HB2	5:AE:123:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:13:ILE:HG22	8:AH:14:ARG:N	2.22	0.54
10:AJ:34:ALA:O	10:AJ:35:GLN:HB2	2.08	0.54
12:AL:2:THR:HG22	12:AL:4:ASN:HB2	1.90	0.54
17:AQ:40:THR:HG22	17:AQ:41:THR:N	2.23	0.54
19:AS:80:ARG:HA	19:AS:80:ARG:HE	1.73	0.54
21:AU:16:ARG:C	21:AU:18:PHE:H	2.15	0.54
24:AY:25:ILE:HG22	24:AY:26:SER:N	2.22	0.54
1:BA:96:U:O2'	1:BA:97:G:C5'	2.56	0.54
1:BA:557:G:H5"	1:BA:558:G:OP2	2.08	0.54
1:BA:699:C:C2'	1:BA:700:G:H5'	2.37	0.54
1:BA:960:U:H2'	1:BA:1225:A:H62	1.73	0.54
1:BA:979:C:C6	1:BA:980:C:C5	2.96	0.54
1:BA:1050:G:N2	1:BA:1209:C:O2	2.41	0.54
1:BA:1253:G:C2	1:BA:1285:A:N6	2.76	0.54
1:BA:1302:C:OP1	13:BM:12:LYS:HE2	2.08	0.54
3:BC:18:ASN:HA	3:BC:55:VAL:HG13	1.89	0.54
3:BC:117:ASP:O	3:BC:120:THR:HG22	2.07	0.54
4:BD:168:THR:CG2	4:BD:183:ARG:HH21	2.20	0.54
4:BD:187:ARG:O	4:BD:190:LEU:HD12	2.08	0.54
5:BE:14:LEU:HD12	5:BE:14:LEU:O	2.08	0.54
6:BF:38:ARG:NH1	6:BF:61:LEU:HD21	2.23	0.54
9:BI:16:ALA:HB1	9:BI:65:THR:O	2.08	0.54
9:BI:26:LYS:O	9:BI:62:LEU:CD2	2.56	0.54
12:BL:33:CYS:CA	12:BL:54:VAL:HA	2.29	0.54
13:BM:15:VAL:O	13:BM:18:LEU:HB2	2.08	0.54
17:BQ:11:VAL:O	17:BQ:12:VAL:CB	2.55	0.54
21:BU:3:ILE:HG23	21:BU:19:LYS:HE3	1.90	0.54
25:CA:31:C:C2'	25:CA:32:C:H5'	2.38	0.54
25:CA:64:A:H2'	25:CA:65:U:C6	2.43	0.54
25:CA:213:A:C2	25:CA:214:G:C4	2.96	0.54
25:CA:285:G:C6	25:CA:286:U:C4	2.96	0.54
25:CA:559:G:C2'	25:CA:560:C:H5'	2.38	0.54
25:CA:864:G:O2'	25:CA:865:C:H5'	2.08	0.54
25:CA:995:C:O2'	25:CA:996:A:P	2.66	0.54
25:CA:1744:A:H3'	25:CA:1745:A:H8	1.72	0.54
25:CA:1838:C:N1	25:CA:1898:U:H5	2.05	0.54
25:CA:1867:G:O2'	25:CA:1868:C:H5'	2.07	0.54
25:CA:2287:A:C8	25:CA:2289:G:C8	2.96	0.54
25:CA:2870:C:C2'	25:CA:2871:U:H5'	2.38	0.54
26:CB:64:G:C5	26:CB:65:U:C4	2.96	0.54
30:CF:80:GLN:CD	30:CF:81:GLY:N	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CH:59:ALA:HA	32:CH:62:LEU:HD23	1.89	0.54
32:CH:117:LEU:HD21	32:CH:121:VAL:N	2.22	0.54
33:CI:121:ILE:HG23	33:CI:124:MET:SD	2.48	0.54
25:DA:7:G:H5"	34:DJ:123:LYS:NZ	2.23	0.54
25:DA:39:G:H1'	29:DE:43:THR:HG21	1.90	0.54
25:DA:45:G:C5'	25:DA:46:G:H5'	2.37	0.54
25:DA:893:C:H2'	25:DA:894:U:O4'	2.08	0.54
25:DA:954:G:C5	25:DA:955:U:C5	2.95	0.54
25:DA:1096:A:C2'	25:DA:1097:U:H5"	2.38	0.54
25:DA:1153:C:H5"	41:DQ:61:ILE:HD13	1.89	0.54
25:DA:2642:G:N2	25:DA:2773:C:C2	2.76	0.54
25:DA:2757:A:N3	25:DA:2757:A:H2'	2.23	0.54
56:DB:74:U:H2'	56:DB:75:G:O4'	2.08	0.54
56:DB:104:A:H2'	56:DB:105:G:O4'	2.08	0.54
27:DC:73:ILE:HG22	27:DC:74:PRO:O	2.08	0.54
27:DC:181:ARG:HG2	27:DC:181:ARG:O	2.08	0.54
29:DE:83:VAL:CG1	29:DE:86:ALA:HA	2.38	0.54
30:DF:52:ALA:HB2	30:DF:149:ARG:HD2	1.90	0.54
31:DG:18:ILE:O	31:DG:18:ILE:HG22	2.08	0.54
41:DQ:98:ALA:HB2	41:DQ:105:PHE:CE2	2.42	0.54
45:DU:73:ASN:HA	45:DU:95:PHE:CE2	2.43	0.54
49:DY:21:LEU:O	49:DY:22:LEU:C	2.51	0.54
54:D3:35:LYS:O	54:D3:40:LYS:HE2	2.08	0.54
1:AA:324:G:N2	1:AA:326:G:H3'	2.22	0.53
1:AA:622:A:C8	1:AA:623:C:C5	2.96	0.53
1:AA:988:G:C6	1:AA:989:U:N3	2.76	0.53
1:AA:1060:U:C5'	10:AJ:53:ILE:HG23	2.37	0.53
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.38	0.53
2:AB:110:ILE:HD12	2:AB:147:LEU:HD13	1.90	0.53
3:AC:174:LEU:O	3:AC:174:LEU:HD12	2.08	0.53
4:AD:24:VAL:O	4:AD:25:ARG:O	2.25	0.53
5:AE:113:VAL:HG22	5:AE:114:LEU:N	2.22	0.53
7:AG:55:LYS:O	7:AG:60:ALA:HB2	2.08	0.53
7:AG:93:VAL:O	7:AG:96:ASN:OD1	2.25	0.53
10:AJ:6:ILE:HD12	10:AJ:76:ILE:O	2.08	0.53
10:AJ:65:TYR:HA	14:AN:98:LYS:HA	1.91	0.53
11:AK:124:LYS:O	21:AU:33:ARG:NE	2.40	0.53
14:AN:89:MET:HE1	14:AN:98:LYS:CD	2.38	0.53
21:AU:28:LEU:HD23	21:AU:28:LEU:C	2.33	0.53
24:AY:152:ASP:O	24:AY:153:ASP:C	2.49	0.53
1:BA:83:C:OP1	1:BA:83:C:H4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:244:U:H4'	1:BA:245:U:H5"	1.89	0.53
1:BA:417:G:C6	1:BA:418:C:N3	2.76	0.53
1:BA:446:G:H2'	1:BA:447:G:O5'	2.07	0.53
1:BA:1073:U:O2	1:BA:1073:U:C2'	2.53	0.53
1:BA:1128:C:H4'	1:BA:1148:U:O2	2.07	0.53
1:BA:1285:A:H4'	1:BA:1286:U:N3	2.22	0.53
1:BA:1302:C:C5	13:BM:16:ILE:CD1	2.91	0.53
1:BA:1386:G:N3	1:BA:1387:G:C8	2.76	0.53
1:BA:1424:U:C4	1:BA:1425:U:C4	2.96	0.53
3:BC:83:VAL:HA	3:BC:86:LEU:HD12	1.89	0.53
4:BD:43:ARG:HA	4:BD:43:ARG:CZ	2.38	0.53
5:BE:82:HIS:NE2	5:BE:146:MET:HG3	2.23	0.53
6:BF:96:VAL:O	6:BF:97:THR:HG23	2.07	0.53
7:BG:34:LYS:CB	7:BG:37:THR:CG2	2.86	0.53
9:BI:53:LEU:C	9:BI:54:VAL:HG22	2.33	0.53
10:BJ:53:ILE:HG12	10:BJ:53:ILE:O	2.07	0.53
11:BK:109:ILE:HG22	21:BU:16:ARG:CZ	2.38	0.53
14:BN:35:ALA:CB	14:BN:41:ARG:CG	2.85	0.53
15:BO:86:LEU:C	15:BO:88:ARG:H	2.14	0.53
16:BP:39:PHE:O	16:BP:41:PRO:HD3	2.08	0.53
21:BU:3:ILE:N	21:BU:18:PHE:CD1	2.77	0.53
25:CA:1084:A:H2'	25:CA:1085:A:C8	2.43	0.53
25:CA:1409:U:H2'	25:CA:1410:G:O4'	2.08	0.53
25:CA:1799:G:H4'	25:CA:1800:C:O5'	2.07	0.53
25:CA:1838:C:N4	25:CA:1899:A:C4	2.76	0.53
25:CA:1954:G:O2'	25:CA:1956:U:O4	2.19	0.53
25:CA:2091:C:O2'	48:CX:55:MET:HE3	2.08	0.53
25:CA:2128:G:C2'	25:CA:2129:C:H5'	2.38	0.53
25:CA:2156:G:H3'	25:CA:2157:G:C8	2.43	0.53
25:CA:2303:G:C5	25:CA:2304:G:N7	2.77	0.53
25:CA:2383:G:O2'	25:CA:2384:U:H5'	2.08	0.53
25:CA:2592:G:C6	25:CA:2593:U:C4	2.96	0.53
29:CE:23:PHE:HB2	29:CE:111:GLU:HG2	1.90	0.53
30:CF:69:ALA:HB2	30:CF:82:TYR:O	2.08	0.53
33:CI:18:ASN:ND2	33:CI:27:LEU:CD2	2.71	0.53
49:CY:18:LEU:HG	49:CY:22:LEU:HB2	1.90	0.53
52:C1:10:LEU:HA	52:C1:49:LYS:O	2.08	0.53
25:DA:60:G:H1'	25:DA:61:C:OP1	2.07	0.53
25:DA:78:U:OP2	49:DY:2:LYS:HD3	2.07	0.53
25:DA:91:A:H4'	25:DA:92:U:O5'	2.09	0.53
25:DA:141:G:C5	44:DT:1:MET:HE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:417:C:C2	25:DA:418:C:C5	2.96	0.53
25:DA:718:A:H2'	25:DA:719:C:H5'	1.90	0.53
25:DA:1056:G:C2	25:DA:1102:C:C5	2.95	0.53
25:DA:1140:C:H5'	34:DJ:26:GLY:HA3	1.90	0.53
25:DA:1463:C:H2'	25:DA:1464:G:O4'	2.09	0.53
25:DA:1467:U:C2'	25:DA:1468:U:O5'	2.56	0.53
25:DA:1495:A:H1'	25:DA:1579:A:H5'	1.90	0.53
25:DA:1708:C:H2'	25:DA:1709:U:C6	2.43	0.53
25:DA:1912:A:C8	25:DA:1918:A:C2	2.96	0.53
25:DA:2648:G:C5	25:DA:2649:C:C5	2.96	0.53
25:DA:2673:G:N3	25:DA:2674:G:C8	2.76	0.53
25:DA:2707:U:O2	25:DA:2707:U:C2'	2.54	0.53
25:DA:2833:U:H4'	25:DA:2834:G:OP2	2.08	0.53
33:DI:30:GLN:HG2	33:DI:31:GLY:H	1.73	0.53
33:DI:33:ASN:HB3	33:DI:36:GLU:HG2	1.89	0.53
34:DJ:95:ARG:HG2	34:DJ:96:ARG:N	2.22	0.53
39:DO:49:VAL:CG1	39:DO:81:ARG:HB3	2.37	0.53
1:AA:805:C:C2'	1:AA:806:C:H5'	2.38	0.53
1:AA:1233:G:OP2	9:AI:125:GLN:HB2	2.06	0.53
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.73	0.53
1:AA:1430:A:OP2	1:AA:1430:A:C8	2.61	0.53
1:AA:1502:A:N7	1:AA:1504:G:N3	2.57	0.53
2:AB:65:LYS:O	2:AB:158:ASP:HB2	2.08	0.53
4:AD:2:ARG:NE	4:AD:114:ARG:HD3	2.23	0.53
4:AD:47:LEU:HD23	4:AD:47:LEU:O	2.08	0.53
7:AG:45:ALA:HB1	7:AG:119:LEU:HB3	1.90	0.53
7:AG:103:ILE:O	7:AG:104:VAL:C	2.51	0.53
7:AG:143:MET:HA	7:AG:143:MET:HE3	1.90	0.53
10:AJ:61:ALA:O	10:AJ:62:ARG:HB2	2.07	0.53
11:AK:86:LYS:HG3	11:AK:113:THR:HA	1.90	0.53
13:AM:18:LEU:HD11	13:AM:32:ILE:HG21	1.89	0.53
14:AN:25:GLU:C	14:AN:28:ALA:H	2.15	0.53
19:AS:28:LYS:HB3	19:AS:29:PRO:CD	2.38	0.53
20:AT:81:GLN:HA	20:AT:84:LYS:HG2	1.89	0.53
22:AV:24:G:O2'	22:AV:25:C:H5'	2.08	0.53
1:BA:186:C:C4'	20:BT:75:LYS:HD2	2.39	0.53
1:BA:189:A:H2'	1:BA:190:A:C5'	2.37	0.53
1:BA:210:C:H5'	1:BA:211:G:C4	2.43	0.53
1:BA:527:G:O2'	1:BA:535:A:N1	2.31	0.53
1:BA:731:G:H5'	1:BA:766:A:H4'	1.89	0.53
1:BA:830:G:O2'	1:BA:831:A:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1113:C:C2	1:BA:1114:C:C6	2.97	0.53
1:BA:1318:A:O2'	19:BS:36:ARG:HD3	2.08	0.53
2:BB:52:ALA:C	2:BB:53:LEU:HD22	2.32	0.53
2:BB:53:LEU:HD21	2:BB:212:TYR:CE2	2.44	0.53
2:BB:114:LYS:O	2:BB:116:LEU:N	2.41	0.53
2:BB:163:ILE:CG1	2:BB:203:ASP:HB2	2.38	0.53
3:BC:5:HIS:CE1	3:BC:183:TYR:HE2	2.26	0.53
7:BG:24:LYS:HB3	7:BG:100:MET:HE1	1.90	0.53
9:BI:11:ARG:NH1	9:BI:106:ASP:HB3	2.24	0.53
11:BK:17:ASP:HB2	11:BK:80:ASN:O	2.08	0.53
13:BM:18:LEU:CG	13:BM:33:LEU:HD21	2.38	0.53
14:BN:16:ALA:HA	14:BN:55:SER:O	2.09	0.53
14:BN:25:GLU:OE1	14:BN:26:LEU:HD23	2.08	0.53
14:BN:62:ASN:OD1	14:BN:73:PHE:CE1	2.62	0.53
22:BV:51:U:H2'	22:BV:52:G:C8	2.43	0.53
25:CA:1090:A:C6	25:CA:1091:G:N7	2.76	0.53
25:CA:1462:C:C2'	25:CA:1463:C:C5'	2.86	0.53
25:CA:1478:G:H1	25:CA:1513:U:H3	1.56	0.53
25:CA:1881:C:C4	25:CA:1882:U:C5	2.95	0.53
25:CA:2723:C:H2'	25:CA:2724:U:O5'	2.08	0.53
28:CD:38:LYS:HB3	28:CD:43:ASP:CB	2.38	0.53
28:CD:96:ILE:CG2	28:CD:97:SER:N	2.71	0.53
30:CF:69:ALA:HA	30:CF:84:ILE:HG21	1.89	0.53
39:CO:30:ARG:HG2	39:CO:31:THR:N	2.22	0.53
40:CP:96:LEU:N	40:CP:96:LEU:HD23	2.23	0.53
54:C3:16:THR:HG23	54:C3:20:GLY:C	2.33	0.53
25:DA:263:G:H1'	25:DA:430:A:N3	2.24	0.53
25:DA:277:G:H2'	25:DA:278:A:OP2	2.07	0.53
25:DA:1089:A:H5"	25:DA:1090:A:OP2	2.08	0.53
25:DA:2207:C:H2'	25:DA:2208:C:H6	1.73	0.53
25:DA:2293:G:C2'	25:DA:2294:G:H5'	2.38	0.53
25:DA:2485:G:H5"	37:DM:45:GLN:HE21	1.72	0.53
25:DA:2579:C:O2'	25:DA:2580:U:H5'	2.08	0.53
28:DD:133:THR:HG23	28:DD:134:HIS:CD2	2.43	0.53
31:DG:30:GLY:C	31:DG:78:VAL:CG1	2.81	0.53
33:DI:7:TYR:HA	33:DI:58:ILE:HB	1.91	0.53
40:DP:32:VAL:C	40:DP:34:GLY:H	2.16	0.53
40:DP:77:SER:HB3	40:DP:80:VAL:HG12	1.90	0.53
44:DT:45:ALA:O	44:DT:48:GLN:HB2	2.08	0.53
49:DY:11:VAL:CG1	49:DY:11:VAL:O	2.56	0.53
1:AA:38:G:C2	1:AA:397:A:C2	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:64:G:N2	1:AA:67:C:C4	2.75	0.53
1:AA:437:U:H2'	1:AA:438:U:H5'	1.89	0.53
1:AA:533:A:C2	1:AA:536:C:C5	2.97	0.53
1:AA:1108:G:H5'	3:AC:175:HIS:CD2	2.44	0.53
1:AA:1167:A:N7	1:AA:1169:A:C6	2.76	0.53
1:AA:1211:U:H1'	1:AA:1213:A:C2	2.44	0.53
1:AA:1539:C:H1'	23:AX:7:G:N2	2.24	0.53
2:AB:24:PRO:C	2:AB:26:MET:H	2.16	0.53
2:AB:63:LYS:C	2:AB:65:LYS:HE2	2.33	0.53
3:AC:28:PHE:C	3:AC:28:PHE:CD2	2.87	0.53
3:AC:64:ARG:O	3:AC:65:VAL:HB	2.07	0.53
3:AC:168:ARG:O	3:AC:168:ARG:NE	2.41	0.53
6:AF:6:ILE:HA	6:AF:89:VAL:HA	1.89	0.53
8:AH:65:PHE:C	8:AH:65:PHE:CD1	2.82	0.53
8:AH:100:ILE:CD1	8:AH:128:VAL:HG23	2.39	0.53
14:AN:20:PHE:C	14:AN:22:LYS:N	2.66	0.53
15:AO:18:ALA:O	15:AO:19:ASN:HB2	2.07	0.53
22:AV:27:G:O2'	22:AV:28:G:H5'	2.09	0.53
23:AX:14:A:N6	23:AX:15:A:N1	2.57	0.53
24:AY:53:ARG:HH22	24:AY:54:GLN:NE2	2.06	0.53
1:BA:923:A:H8	1:BA:923:A:O5'	1.91	0.53
1:BA:931:C:H2'	1:BA:932:C:H6	1.74	0.53
1:BA:982:U:O2	1:BA:983:A:N1	2.41	0.53
1:BA:1126:U:C1'	1:BA:1281:C:C6	2.91	0.53
4:BD:144:ILE:HG22	4:BD:145:ARG:O	2.08	0.53
6:BF:70:VAL:HA	6:BF:73:GLU:OE1	2.09	0.53
8:BH:85:TYR:O	8:BH:86:LYS:HD2	2.09	0.53
10:BJ:40:ILE:HG23	10:BJ:41:PRO:HD2	1.91	0.53
10:BJ:71:LEU:O	10:BJ:72:ARG:HD3	2.08	0.53
12:BL:74:GLN:O	12:BL:76:HIS:N	2.41	0.53
12:BL:107:LYS:O	12:BL:108:ASP:HB2	2.09	0.53
13:BM:3:ILE:O	13:BM:5:GLY:N	2.42	0.53
13:BM:6:ILE:HD12	13:BM:6:ILE:N	2.23	0.53
13:BM:15:VAL:HG13	13:BM:40:GLU:HA	1.89	0.53
16:BP:6:LEU:HD12	16:BP:71:VAL:HG23	1.90	0.53
16:BP:39:PHE:C	16:BP:39:PHE:CD1	2.84	0.53
17:BQ:13:SER:O	17:BQ:20:ILE:CD1	2.56	0.53
17:BQ:30:HIS:CD2	17:BQ:31:PRO:HD2	2.43	0.53
20:BT:69:ASN:O	20:BT:72:ALA:N	2.41	0.53
22:BV:51:U:H2'	22:BV:52:G:H8	1.72	0.53
25:CA:1563:U:H2'	25:CA:1564:C:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1784:A:OP2	60:CA:3703:HOH:O	2.18	0.53
25:CA:2522:U:C2'	25:CA:2523:G:H5'	2.38	0.53
27:CC:22:GLU:O	27:CC:22:GLU:HG3	2.09	0.53
27:CC:124:LYS:CB	27:CC:125:PRO:HD2	2.39	0.53
28:CD:86:GLU:OE1	28:CD:86:GLU:HA	2.08	0.53
32:CH:7:ASP:CA	32:CH:15:LEU:HD22	2.38	0.53
32:CH:80:ILE:HD12	32:CH:144:VAL:CG1	2.39	0.53
32:CH:100:ALA:O	32:CH:104:THR:HG23	2.08	0.53
36:CL:47:ARG:HG2	36:CL:47:ARG:NH2	2.23	0.53
37:CM:72:PRO:HB3	37:CM:92:TRP:CZ3	2.43	0.53
37:CM:113:ALA:O	37:CM:116:ALA:N	2.40	0.53
45:CU:82:VAL:HG12	45:CU:83:GLY:N	2.22	0.53
25:DA:121:G:H2'	25:DA:122:G:H8	1.72	0.53
25:DA:149:A:C2	25:DA:150:U:C6	2.97	0.53
25:DA:543:G:C5'	25:DA:543:G:H8	2.22	0.53
25:DA:1171:G:N2	25:DA:1178:C:O2	2.41	0.53
25:DA:1844:C:O3'	27:DC:255:LYS:HE3	2.08	0.53
25:DA:2057:G:P	60:DA:3492:HOH:O	2.65	0.53
25:DA:2104:C:O2	25:DA:2186:G:N2	2.41	0.53
25:DA:2236:U:C2'	25:DA:2237:G:H5'	2.37	0.53
25:DA:2277:G:H2'	25:DA:2278:A:H5"	1.89	0.53
56:DB:30:C:H1'	56:DB:57:A:H61	1.74	0.53
27:DC:76:VAL:HG23	27:DC:112:GLY:O	2.08	0.53
28:DD:101:PHE:HA	28:DD:104:VAL:HG13	1.90	0.53
32:DH:3:VAL:O	32:DH:19:VAL:CG2	2.56	0.53
32:DH:9:VAL:CG2	32:DH:35:LYS:CE	2.86	0.53
33:DI:116:MET:CE	33:DI:128:ILE:HD11	2.39	0.53
34:DJ:29:ALA:O	34:DJ:30:THR:C	2.52	0.53
36:DL:109:LYS:HB3	36:DL:111:ILE:CD1	2.39	0.53
49:DY:12:GLU:HA	49:DY:12:GLU:OE1	2.08	0.53
1:AA:437:U:N3	1:AA:438:U:C5	2.76	0.53
1:AA:458:U:H2'	1:AA:459:A:C8	2.43	0.53
1:AA:589:U:H2'	1:AA:590:U:C6	2.43	0.53
1:AA:1013:G:N2	1:AA:1017:U:N3	2.56	0.53
1:AA:1266:G:N1	1:AA:1270:G:C6	2.76	0.53
1:AA:1429:A:H8	1:AA:1429:A:OP2	1.91	0.53
3:AC:72:PRO:HG3	3:AC:104:GLU:HB2	1.89	0.53
3:AC:109:GLU:HB2	3:AC:143:LEU:CD2	2.39	0.53
4:AD:117:VAL:HG12	4:AD:130:ASN:HA	1.91	0.53
6:AF:47:LEU:HD12	6:AF:55:HIS:HA	1.90	0.53
8:AH:79:ARG:HB2	8:AH:80:PRO:CD	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:42:LEU:HB3	10:AJ:71:LEU:HB3	1.89	0.53
20:AT:8:LYS:O	20:AT:9:ARG:C	2.50	0.53
21:AU:24:LYS:O	21:AU:28:LEU:HB2	2.07	0.53
1:BA:183:C:HO2'	1:BA:184:G:P	2.32	0.53
1:BA:209:U:C5'	1:BA:210:C:OP2	2.56	0.53
1:BA:462:G:C5	1:BA:463:U:C6	2.96	0.53
1:BA:842:U:O2'	1:BA:846:G:C2	2.62	0.53
1:BA:844:G:OP1	1:BA:844:G:H3'	2.08	0.53
1:BA:847:G:O2'	1:BA:848:C:H5'	2.09	0.53
1:BA:1148:U:H5"	9:BI:8:THR:CG2	2.39	0.53
1:BA:1328:C:H5"	13:BM:27:THR:HG21	1.90	0.53
1:BA:1340:A:C2	1:BA:1341:U:C2	2.96	0.53
1:BA:1492:A:H3'	1:BA:1493:A:H8	1.72	0.53
4:BD:202:LEU:C	4:BD:202:LEU:CD1	2.81	0.53
6:BF:74:LEU:O	6:BF:75:GLU:C	2.52	0.53
6:BF:99:ALA:O	6:BF:100:SER:HB3	2.09	0.53
12:BL:33:CYS:HA	12:BL:53:ARG:O	2.08	0.53
13:BM:72:ILE:O	13:BM:73:SER:C	2.51	0.53
14:BN:46:LEU:HD12	14:BN:49:GLN:HB2	1.89	0.53
16:BP:12:LYS:O	16:BP:13:LYS:HB2	2.07	0.53
20:BT:54:GLN:HB3	20:BT:55:PRO:HD3	1.90	0.53
25:CA:752:A:H62	25:CA:2609:U:H3	1.55	0.53
25:CA:2298:A:C2'	25:CA:2299:U:H5'	2.38	0.53
25:CA:2660:A:N1	25:CA:2661:G:C4	2.76	0.53
25:CA:2708:G:O2'	25:CA:2709:G:H5'	2.09	0.53
27:CC:140:VAL:HG11	27:CC:189:ALA:HB1	1.89	0.53
29:CE:131:THR:HG22	29:CE:160:ALA:CA	2.39	0.53
33:CI:17:ALA:HB1	33:CI:41:PHE:CE2	2.44	0.53
37:CM:97:GLN:O	37:CM:98:PRO:C	2.50	0.53
37:CM:113:ALA:O	37:CM:115:GLU:N	2.40	0.53
54:C3:31:ILE:O	54:C3:35:LYS:HE3	2.08	0.53
55:C4:37:GLN:HG2	55:C4:37:GLN:O	2.08	0.53
25:DA:21:A:C2'	25:DA:22:C:H5'	2.39	0.53
25:DA:328:U:H4'	45:DU:65:GLN:HG3	1.89	0.53
25:DA:534:U:O2'	41:DQ:48:ASP:OD1	2.21	0.53
25:DA:1363:C:O2'	25:DA:1809:A:H1'	2.07	0.53
25:DA:1456:G:C6	25:DA:1457:U:C4	2.96	0.53
25:DA:2102:G:C2'	25:DA:2103:C:H5'	2.39	0.53
25:DA:2134:A:N6	25:DA:2157:G:H1'	2.23	0.53
25:DA:2155:U:H2'	25:DA:2156:G:O4'	2.08	0.53
56:DB:30:C:H2'	56:DB:31:C:H5'	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DB:109:A:H2'	56:DB:110:C:O4'	2.08	0.53
27:DC:83:ASP:C	27:DC:85:ASN:H	2.17	0.53
27:DC:136:VAL:HG22	27:DC:166:ARG:HB2	1.90	0.53
29:DE:44:ARG:O	29:DE:45:ALA:HB2	2.07	0.53
29:DE:115:GLN:OE1	29:DE:115:GLN:HA	2.09	0.53
32:DH:72:ILE:HG21	32:DH:140:ALA:HB1	1.90	0.53
34:DJ:29:ALA:HA	34:DJ:32:LEU:HD12	1.89	0.53
37:DM:53:MET:HE1	37:DM:103:TYR:CB	2.39	0.53
38:DN:87:PHE:CE1	38:DN:94:TYR:HB3	2.43	0.53
42:DR:49:ILE:CG2	42:DR:53:PHE:N	2.71	0.53
48:DX:38:TRP:HE3	48:DX:45:PHE:CD2	2.26	0.53
49:DY:60:LYS:O	49:DY:61:ALA:O	2.26	0.53
1:AA:204:G:H1'	1:AA:465:A:C2	2.43	0.53
1:AA:283:U:H2'	1:AA:284:C:H6	1.72	0.53
1:AA:382:A:H2'	1:AA:383:A:C8	2.43	0.53
1:AA:430:A:N3	1:AA:430:A:H2'	2.23	0.53
1:AA:587:G:H4'	8:AH:3:GLN:CA	2.34	0.53
1:AA:649:A:H2'	1:AA:650:G:H5"	1.89	0.53
1:AA:1246:A:C2	1:AA:1247:U:C2	2.97	0.53
3:AC:87:ARG:HG3	3:AC:100:ILE:HG22	1.91	0.53
5:AE:14:LEU:C	5:AE:14:LEU:CD1	2.81	0.53
5:AE:71:ILE:HG23	5:AE:72:ASN:N	2.22	0.53
6:AF:5:GLU:HG3	6:AF:5:GLU:O	2.08	0.53
6:AF:93:LYS:O	6:AF:94:HIS:HB2	2.07	0.53
8:AH:48:PHE:O	8:AH:49:LYS:HB2	2.07	0.53
9:AI:105:ARG:O	9:AI:105:ARG:HD2	2.09	0.53
11:AK:15:VAL:HG22	11:AK:16:SER:N	2.24	0.53
13:AM:44:ILE:N	13:AM:44:ILE:CD1	2.72	0.53
15:AO:15:GLY:O	15:AO:16:ARG:C	2.51	0.53
16:AP:18:GLN:HG3	16:AP:35:ARG:HD2	1.90	0.53
16:AP:20:VAL:HG22	16:AP:35:ARG:HA	1.90	0.53
16:AP:48:GLU:CG	16:AP:49:GLY:N	2.71	0.53
17:AQ:16:MET:C	17:AQ:19:SER:HB3	2.33	0.53
22:AV:61:C:H2'	22:AV:62:C:H6	1.73	0.53
1:BA:40:C:H2'	1:BA:41:G:O4'	2.07	0.53
1:BA:154:U:C2	1:BA:168:G:C2	2.96	0.53
1:BA:209:U:H4'	1:BA:210:C:OP2	2.09	0.53
1:BA:255:G:C4	1:BA:256:U:C5	2.97	0.53
1:BA:872:A:C5	1:BA:874:G:C8	2.96	0.53
1:BA:1073:U:N3	1:BA:1074:G:N7	2.57	0.53
1:BA:1239:A:C4'	1:BA:1240:U:OP1	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:99:MET:CB	2:BB:106:VAL:HG21	2.38	0.53
3:BC:110:LEU:CD1	3:BC:145:ALA:HB2	2.38	0.53
3:BC:150:VAL:HA	3:BC:198:LYS:O	2.09	0.53
7:BG:68:VAL:O	7:BG:70:PRO:CD	2.57	0.53
9:BI:46:VAL:HA	9:BI:49:GLN:HG3	1.90	0.53
9:BI:47:VAL:HG12	9:BI:78:ILE:CG2	2.38	0.53
14:BN:31:SER:O	14:BN:32:ASP:CB	2.57	0.53
15:BO:66:LEU:O	15:BO:67:ASP:C	2.49	0.53
16:BP:16:PHE:CD2	16:BP:40:ASN:HB2	2.43	0.53
21:BU:23:GLU:HA	21:BU:27:VAL:CG2	2.38	0.53
25:CA:365:U:O2'	25:CA:366:C:H5'	2.07	0.53
25:CA:772:C:C2'	25:CA:773:U:O5'	2.56	0.53
25:CA:2287:A:H2'	25:CA:2287:A:N3	2.24	0.53
27:CC:72:GLY:HA2	27:CC:116:GLN:HE21	1.73	0.53
27:CC:141:HIS:CE1	27:CC:190:THR:CG2	2.92	0.53
32:CH:76:GLU:HG2	32:CH:143:ILE:HD12	1.90	0.53
32:CH:116:ARG:HD2	32:CH:133:GLN:CG	2.37	0.53
33:CI:82:ALA:HB1	33:CI:108:ILE:HD13	1.91	0.53
39:CO:24:THR:HG22	39:CO:42:PRO:HD3	1.90	0.53
41:CQ:20:ALA:HB2	41:CQ:38:VAL:HG23	1.90	0.53
42:CR:42:ALA:CA	42:CR:46:GLU:HB2	2.31	0.53
46:CV:2:PHE:HB3	46:CV:50:MET:CE	2.39	0.53
49:CY:5:GLU:C	49:CY:7:ARG:H	2.16	0.53
49:CY:20:ASN:O	49:CY:21:LEU:C	2.52	0.53
25:DA:1074:G:O2'	25:DA:1075:C:H5'	2.08	0.53
25:DA:1324:G:C4	25:DA:1328:A:N6	2.77	0.53
25:DA:1439:A:C8	25:DA:1440:U:C6	2.97	0.53
25:DA:1681:G:N3	25:DA:1762:A:H2'	2.23	0.53
25:DA:2114:A:C2	25:DA:2166:U:H2'	2.43	0.53
25:DA:2703:C:C2	25:DA:2704:C:C5	2.96	0.53
25:DA:2774:C:H2'	25:DA:2775:G:O4'	2.09	0.53
32:DH:63:ALA:HA	32:DH:66:ASN:H	1.74	0.53
33:DI:56:VAL:HG21	33:DI:68:PHE:HB2	1.90	0.53
39:DO:67:ASN:C	39:DO:69:ASP:H	2.16	0.53
42:DR:29:THR:HG22	42:DR:29:THR:O	2.09	0.53
45:DU:4:ILE:C	45:DU:5:ARG:HG2	2.34	0.53
45:DU:12:VAL:HG11	45:DU:17:ASP:C	2.33	0.53
46:DV:30:ILE:HG13	46:DV:40:ILE:HG13	1.91	0.53
51:D0:14:MET:O	51:D0:17:SER:HB2	2.09	0.53
54:D3:60:CYS:C	54:D3:61:LEU:HD23	2.34	0.53
1:AA:142:G:C5	1:AA:143:A:C8	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:193:C:O4'	20:AT:54:GLN:OE1	2.26	0.53
1:AA:369:G:C4	1:AA:370:C:C5	2.97	0.53
1:AA:538:G:H5"	12:AL:110:LYS:HB2	1.89	0.53
1:AA:1151:A:O2'	1:AA:1152:A:O5'	2.21	0.53
1:AA:1288:A:N3	1:AA:1352:C:O2'	2.38	0.53
2:AB:32:GLY:O	2:AB:33:ALA:HB2	2.09	0.53
2:AB:53:LEU:HD11	2:AB:216:VAL:HA	1.90	0.53
2:AB:53:LEU:HD11	2:AB:216:VAL:HG22	1.90	0.53
3:AC:117:ASP:HA	3:AC:120:THR:HB	1.91	0.53
5:AE:75:LEU:HD21	5:AE:119:VAL:HG12	1.90	0.53
10:AJ:7:ARG:O	10:AJ:100:ILE:O	2.27	0.53
11:AK:22:ILE:HG22	11:AK:31:VAL:HG22	1.90	0.53
16:AP:20:VAL:HG23	16:AP:35:ARG:HA	1.90	0.53
17:AQ:45:VAL:HG11	17:AQ:60:ILE:CG1	2.38	0.53
18:AR:42:ARG:HG2	18:AR:43:ILE:CD1	2.39	0.53
19:AS:10:ILE:HG13	19:AS:37:SER:HB3	1.91	0.53
24:AY:86:SER:O	24:AY:87:ASP:C	2.51	0.53
1:BA:220:G:C2	1:BA:221:C:C5	2.96	0.53
1:BA:254:G:C4	1:BA:255:G:C8	2.97	0.53
1:BA:404:G:N7	4:BD:1:ALA:N	2.56	0.53
1:BA:559:A:H4'	1:BA:560:A:H3'	1.90	0.53
1:BA:705:G:N2	11:BK:30:ILE:HD12	2.24	0.53
1:BA:728:A:N6	1:BA:729:A:N6	2.55	0.53
1:BA:872:A:C4	1:BA:874:G:C8	2.96	0.53
1:BA:1106:G:H2'	1:BA:1107:C:C6	2.42	0.53
1:BA:1250:A:N7	1:BA:1287:A:C8	2.76	0.53
1:BA:1410:A:H2'	1:BA:1411:C:C6	2.44	0.53
1:BA:1422:G:N2	1:BA:1423:G:C4	2.76	0.53
2:BB:34:ARG:O	2:BB:36:LYS:N	2.42	0.53
2:BB:181:PRO:C	2:BB:182:VAL:HG23	2.34	0.53
3:BC:22:PHE:O	3:BC:23:ALA:HB2	2.09	0.53
4:BD:34:GLU:O	4:BD:37:PRO:HD3	2.08	0.53
5:BE:152:VAL:HG23	5:BE:156:ARG:HB2	1.90	0.53
7:BG:145:GLU:OE1	7:BG:148:LYS:HE2	2.09	0.53
9:BI:19:PHE:CB	9:BI:63:TYR:HB3	2.35	0.53
10:BJ:93:ALA:HB1	10:BJ:96:VAL:HB	1.91	0.53
12:BL:28:GLN:CB	12:BL:81:ILE:O	2.57	0.53
13:BM:24:VAL:CG2	13:BM:25:GLY:N	2.72	0.53
17:BQ:7:LEU:HB3	17:BQ:24:ILE:CD1	2.39	0.53
25:CA:550:C:H2'	25:CA:550:C:O2	2.08	0.53
25:CA:1246:A:C2'	25:CA:1247:A:O5'	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1483:G:C4	25:CA:1484:U:C5	2.96	0.53
25:CA:1499:C:C4	25:CA:1500:G:N7	2.77	0.53
25:CA:2147:A:H2'	25:CA:2148:G:O4'	2.08	0.53
25:CA:2185:U:O2	25:CA:2185:U:H2'	2.06	0.53
25:CA:2276:G:H2'	25:CA:2277:G:H5'	1.89	0.53
25:CA:2418:A:C5	25:CA:2419:U:C5	2.97	0.53
25:CA:2474:U:H5"	25:CA:2475:C:OP2	2.08	0.53
25:CA:2685:G:OP1	35:CK:78:ARG:NH2	2.41	0.53
26:CB:30:C:C2'	26:CB:31:C:H5'	2.39	0.53
27:CC:173:LEU:HD13	27:CC:173:LEU:N	2.23	0.53
27:CC:216:ARG:HB3	27:CC:217:PRO:HD2	1.91	0.53
31:CG:51:PHE:CE2	31:CG:68:ARG:HA	2.44	0.53
33:CI:5:GLN:O	33:CI:5:GLN:HG2	2.07	0.53
33:CI:33:ASN:C	33:CI:35:MET:H	2.16	0.53
33:CI:79:LEU:HD13	33:CI:135:MET:CE	2.39	0.53
34:CJ:64:VAL:HG13	34:CJ:65:THR:N	2.22	0.53
46:CV:66:ASP:O	46:CV:67:GLY:C	2.52	0.53
25:DA:549:G:O4'	25:DA:549:G:N3	2.41	0.53
25:DA:665:U:O2	25:DA:665:U:C2'	2.54	0.53
25:DA:1351:C:H2'	25:DA:1352:U:C1'	2.39	0.53
25:DA:1354:A:N7	25:DA:1355:G:N9	2.57	0.53
25:DA:1475:G:H1'	25:DA:1476:U:OP2	2.08	0.53
25:DA:1779:U:H2'	60:DA:3695:HOH:O	2.07	0.53
25:DA:2102:G:O2'	25:DA:2103:C:H5'	2.07	0.53
25:DA:2228:G:H2'	25:DA:2229:U:C6	2.43	0.53
25:DA:2690:U:C4	25:DA:2873:A:C2	2.97	0.53
25:DA:2742:G:OP1	55:D4:36:ARG:CD	2.56	0.53
25:DA:2792:A:C2	25:DA:2793:C:C4	2.96	0.53
25:DA:2796:U:C2'	25:DA:2797:U:H2'	2.39	0.53
28:DD:52:THR:HG23	28:DD:53:GLY:N	2.24	0.53
29:DE:198:GLU:HG3	29:DE:198:GLU:O	2.09	0.53
30:DF:41:GLU:CB	30:DF:48:LEU:CD2	2.85	0.53
31:DG:41:GLU:HB2	31:DG:54:ARG:HE	1.73	0.53
33:DI:21:PRO:HD2	33:DI:22:PRO:HD2	1.90	0.53
33:DI:45:THR:CG2	33:DI:50:LYS:HG3	2.39	0.53
33:DI:104:GLN:O	33:DI:105:LEU:HB2	2.07	0.53
34:DJ:96:ARG:HH21	34:DJ:96:ARG:HG2	1.72	0.53
37:DM:33:LEU:HD22	37:DM:117:PHE:CG	2.44	0.53
37:DM:124:LEU:N	37:DM:124:LEU:CD2	2.71	0.53
39:DO:34:HIS:HB3	39:DO:36:TYR:CE2	2.44	0.53
50:DZ:43:ILE:C	50:DZ:45:GLY:N	2.64	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:395:C:H2'	1:AA:396:C:H6	1.74	0.53
1:AA:633:G:OP2	8:AH:87:ARG:NH2	2.42	0.53
1:AA:978:A:C2'	1:AA:979:C:H5'	2.39	0.53
1:AA:989:U:H2'	1:AA:990:C:H6	1.74	0.53
1:AA:1446:A:H2'	1:AA:1447:A:H5'	1.89	0.53
2:AB:80:LYS:HG3	2:AB:84:LEU:HD22	1.91	0.53
2:AB:110:ILE:HG22	2:AB:111:LYS:N	2.22	0.53
3:AC:56:ILE:HG12	3:AC:65:VAL:HG22	1.90	0.53
3:AC:141:MET:HE2	3:AC:170:GLY:HA3	1.91	0.53
9:AI:56:MET:HA	9:AI:59:LYS:CB	2.38	0.53
18:AR:22:TYR:C	18:AR:22:TYR:CD1	2.86	0.53
1:BA:552:U:H2'	1:BA:553:A:C8	2.43	0.53
1:BA:567:G:H2'	1:BA:568:G:O4'	2.08	0.53
1:BA:840:C:C4	1:BA:842:U:C5'	2.91	0.53
1:BA:854:U:H3'	1:BA:871:U:H3	1.72	0.53
1:BA:1267:C:C2'	1:BA:1268:G:H5'	2.38	0.53
1:BA:1452:C:H4'	1:BA:1453:G:C5'	2.38	0.53
1:BA:1535:C:HO2'	1:BA:1536:C:P	2.31	0.53
3:BC:146:LYS:HG3	3:BC:203:LYS:O	2.08	0.53
5:BE:104:ILE:HD11	5:BE:114:LEU:HB3	1.91	0.53
7:BG:17:PHE:CZ	7:BG:57:GLU:HG2	2.44	0.53
7:BG:136:LYS:O	7:BG:139:ASP:CB	2.57	0.53
14:BN:35:ALA:HB2	14:BN:41:ARG:HG3	1.88	0.53
16:BP:6:LEU:HD12	16:BP:6:LEU:N	2.23	0.53
21:BU:4:LYS:O	21:BU:4:LYS:HD2	2.08	0.53
25:CA:247:G:C8	25:CA:249:C:C5	2.97	0.53
25:CA:649:G:H2'	25:CA:650:C:H6	1.73	0.53
25:CA:892:A:H2'	25:CA:892:A:N3	2.23	0.53
25:CA:1319:C:O2'	25:CA:1320:C:H5'	2.08	0.53
25:CA:1869:G:C6	25:CA:1871:A:OP2	2.61	0.53
25:CA:1902:C:H5"	27:CC:239:PHE:CE1	2.44	0.53
25:CA:2143:C:H2'	25:CA:2144:G:C8	2.43	0.53
25:CA:2631:G:H2'	25:CA:2632:A:O5'	2.09	0.53
25:CA:2886:A:C4	25:CA:2887:A:C8	2.97	0.53
31:CG:126:THR:CG2	31:CG:127:GLN:N	2.72	0.53
34:CJ:77:HIS:CD2	34:CJ:79:GLY:HA2	2.43	0.53
40:CP:25:VAL:HG23	40:CP:84:SER:O	2.07	0.53
41:CQ:25:GLY:O	41:CQ:26:ALA:C	2.51	0.53
45:CU:87:GLU:O	45:CU:88:ASP:HB3	2.08	0.53
25:DA:362:A:OP2	25:DA:362:A:C8	2.62	0.53
25:DA:422:A:H2'	25:DA:422:A:N3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:515:A:H1'	25:DA:581:C:H1'	1.90	0.53
25:DA:531:C:C5	25:DA:2035:G:C2	2.97	0.53
25:DA:545:U:C6	25:DA:547:A:H4'	2.44	0.53
25:DA:817:C:OP1	60:DA:3585:HOH:O	2.19	0.53
25:DA:997:G:OP1	41:DQ:91:ARG:HG2	2.08	0.53
25:DA:1196:C:O4'	25:DA:1226:A:C2	2.61	0.53
25:DA:1392:A:C5	25:DA:1393:A:C6	2.97	0.53
25:DA:1670:C:O2	25:DA:1993:U:H1'	2.09	0.53
25:DA:2148:G:H2'	25:DA:2149:U:C5	2.43	0.53
25:DA:2756:U:C4	25:DA:2759:G:O6	2.62	0.53
56:DB:58:A:H2'	56:DB:59:A:C8	2.44	0.53
27:DC:170:TYR:CD2	27:DC:184:GLU:HA	2.43	0.53
27:DC:253:GLY:O	27:DC:254:LYS:CB	2.57	0.53
28:DD:90:PHE:CE2	28:DD:96:ILE:CD1	2.90	0.53
32:DH:31:VAL:CB	32:DH:32:PRO:CD	2.87	0.53
38:DN:35:LYS:HD2	38:DN:100:CYS:SG	2.49	0.53
39:DO:56:LYS:O	39:DO:57:ALA:C	2.51	0.53
42:DR:9:GLY:C	42:DR:10:LYS:HG2	2.33	0.53
1:AA:386:C:O2'	1:AA:387:U:H5'	2.09	0.53
1:AA:1060:U:C5'	10:AJ:53:ILE:CG2	2.85	0.53
1:AA:1239:A:C2	1:AA:1241:G:N1	2.77	0.53
1:AA:1321:U:H3'	1:AA:1322:C:O2	2.09	0.53
3:AC:129:PHE:CZ	3:AC:130:ARG:HD2	2.44	0.53
4:AD:16:THR:HG22	4:AD:17:ASP:O	2.08	0.53
4:AD:196:GLU:CD	4:AD:196:GLU:N	2.66	0.53
5:AE:148:SER:O	5:AE:152:VAL:HG12	2.08	0.53
6:AF:2:ARG:HG2	6:AF:92:THR:HG21	1.90	0.53
7:AG:143:MET:C	7:AG:144:ALA:O	2.47	0.53
9:AI:20:ILE:HG21	9:AI:60:LEU:HD12	1.90	0.53
11:AK:81:LEU:N	11:AK:81:LEU:HD23	2.24	0.53
12:AL:49:ARG:HB2	12:AL:89:LEU:HD21	1.91	0.53
13:AM:17:ALA:O	13:AM:20:SER:CB	2.57	0.53
16:AP:61:VAL:HA	16:AP:65:ALA:HB3	1.91	0.53
21:AU:34:ARG:O	21:AU:36:PHE:N	2.42	0.53
1:BA:15:G:C2	1:BA:16:A:C4	2.97	0.53
1:BA:116:A:H61	1:BA:313:A:H1'	1.74	0.53
1:BA:215:C:H2'	1:BA:216:U:O4'	2.09	0.53
1:BA:455:G:C2'	1:BA:456:A:H5'	2.38	0.53
1:BA:646:G:H2'	1:BA:647:C:H6	1.74	0.53
1:BA:919:A:O2'	1:BA:1080:A:N1	2.41	0.53
1:BA:1179:A:H2'	1:BA:1180:A:H5'	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1328:C:H5"	13:BM:27:THR:CG2	2.38	0.53
1:BA:1377:A:O2'	7:BG:1:PRO:HG2	2.08	0.53
2:BB:81:ASP:OD1	2:BB:83:ALA:HB3	2.08	0.53
2:BB:163:ILE:HG12	2:BB:164:ASP:N	2.23	0.53
3:BC:22:PHE:CD2	3:BC:22:PHE:C	2.86	0.53
4:BD:58:GLN:O	4:BD:62:ARG:HG3	2.07	0.53
5:BE:55:VAL:HB	5:BE:56:PRO:CD	2.39	0.53
6:BF:36:ILE:HA	6:BF:64:VAL:HG13	1.90	0.53
6:BF:38:ARG:HG3	6:BF:39:LEU:N	2.21	0.53
6:BF:90:MET:O	6:BF:91:ARG:O	2.26	0.53
6:BF:97:THR:O	6:BF:98:GLU:HG2	2.08	0.53
8:BH:9:MET:CE	8:BH:32:LYS:O	2.57	0.53
9:BI:23:GLY:HA3	9:BI:61:ASP:OD2	2.09	0.53
13:BM:113:LYS:CB	13:BM:114:PRO:HD3	2.38	0.53
15:BO:27:GLN:O	15:BO:31:LEU:HD12	2.08	0.53
17:BQ:44:HIS:CG	17:BQ:69:THR:CG2	2.92	0.53
23:BX:8:A:C6	23:BX:9:G:C5	2.97	0.53
25:CA:178:G:C2'	25:CA:179:C:H5'	2.39	0.53
25:CA:585:G:N7	41:CQ:5:ARG:NH1	2.57	0.53
25:CA:606:U:OP2	29:CE:99:LYS:HE3	2.09	0.53
25:CA:664:G:C2'	25:CA:665:U:H5'	2.39	0.53
25:CA:1120:G:H2'	25:CA:1121:C:H5'	1.91	0.53
25:CA:1485:U:N3	25:CA:1505:A:C2	2.77	0.53
25:CA:1558:C:H4'	25:CA:1559:U:O5'	2.08	0.53
25:CA:2849:U:H4'	25:CA:2868:A:C2	2.43	0.53
26:CB:39:A:C2	26:CB:44:G:C2	2.97	0.53
27:CC:136:VAL:CG1	27:CC:137:GLY:N	2.72	0.53
30:CF:69:ALA:HA	30:CF:84:ILE:CG2	2.37	0.53
30:CF:100:GLU:OE2	30:CF:104:THR:HG21	2.08	0.53
32:CH:24:GLY:O	32:CH:25:TYR:C	2.51	0.53
40:CP:9:GLN:C	40:CP:11:GLN:H	2.16	0.53
41:CQ:98:ALA:HB2	41:CQ:105:PHE:CD2	2.44	0.53
25:DA:120:U:H1'	25:DA:149:A:N7	2.23	0.53
25:DA:122:G:C2'	25:DA:123:G:H5'	2.39	0.53
25:DA:182:A:C6	25:DA:183:C:C4	2.96	0.53
25:DA:188:G:C2'	25:DA:189:G:H5'	2.39	0.53
25:DA:368:A:H2'	25:DA:369:U:H5'	1.91	0.53
25:DA:582:A:N6	25:DA:583:G:O6	2.42	0.53
25:DA:585:G:H5"	25:DA:586:A:P	2.49	0.53
25:DA:640:C:C5	25:DA:641:U:C5	2.97	0.53
25:DA:657:U:H2'	25:DA:658:U:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:984:A:C5'	25:DA:985:C:OP2	2.54	0.53
25:DA:1313:U:H5"	25:DA:1314:C:OP2	2.08	0.53
25:DA:1719:G:H22	25:DA:1742:U:H1'	1.74	0.53
25:DA:2114:A:C2	25:DA:2115:G:O4'	2.62	0.53
25:DA:2159:G:O2'	25:DA:2160:C:H5'	2.08	0.53
25:DA:2162:G:C4'	25:DA:2171:A:H2'	2.39	0.53
25:DA:2372:U:O4'	52:D1:45:HIS:CD2	2.62	0.53
25:DA:2411:A:O2'	25:DA:2412:A:H5'	2.08	0.53
25:DA:2493:U:C2'	25:DA:2494:G:O5'	2.57	0.53
25:DA:2850:A:C4	25:DA:2851:A:C8	2.97	0.53
27:DC:13:ARG:HG2	27:DC:14:HIS:CE1	2.44	0.53
27:DC:251:THR:HG22	27:DC:252:LYS:HG2	1.91	0.53
29:DE:177:PRO:O	29:DE:178:VAL:C	2.52	0.53
29:DE:194:LYS:O	29:DE:195:GLN:C	2.52	0.53
30:DF:35:LEU:HD12	30:DF:153:ILE:CD1	2.36	0.53
30:DF:135:ILE:HG23	30:DF:140:ILE:HG22	1.90	0.53
38:DN:76:VAL:CG1	38:DN:77:ALA:N	2.71	0.53
38:DN:81:ASN:O	38:DN:85:PRO:HD2	2.09	0.53
40:DP:38:ARG:HG3	40:DP:39:LEU:N	2.24	0.53
40:DP:99:LEU:C	40:DP:101:GLU:N	2.67	0.53
41:DQ:67:ALA:HB1	41:DQ:105:PHE:CE1	2.44	0.53
43:DS:20:VAL:O	43:DS:23:LEU:HB2	2.09	0.53
46:DV:32:GLY:O	46:DV:35:GLU:OE1	2.27	0.53
57:DW:64:LYS:HD3	57:DW:79:GLU:OE2	2.08	0.53
1:AA:118:U:O4	1:AA:288:A:H2'	2.09	0.53
1:AA:274:A:C5'	17:AQ:15:LYS:CE	2.87	0.53
1:AA:300:A:H1'	1:AA:565:U:O2	2.08	0.53
1:AA:322:C:O3'	20:AT:17:ARG:HG3	2.07	0.53
1:AA:446:G:H2'	1:AA:447:G:O4'	2.09	0.53
1:AA:689:C:H2'	1:AA:690:G:C8	2.44	0.53
1:AA:978:A:C1'	1:AA:1322:C:H5	2.22	0.53
2:AB:89:PHE:HB3	2:AB:149:GLY:O	2.08	0.53
2:AB:93:HIS:O	2:AB:94:ARG:C	2.52	0.53
3:AC:22:PHE:CD2	3:AC:22:PHE:C	2.85	0.53
3:AC:35:ASP:OD1	3:AC:58:ARG:NH1	2.42	0.53
10:AJ:29:ALA:CA	10:AJ:32:THR:HG22	2.33	0.53
14:AN:73:PHE:HE1	14:AN:75:ARG:HA	1.73	0.53
15:AO:23:SER:OG	15:AO:26:VAL:HG23	2.08	0.53
17:AQ:16:MET:CB	17:AQ:19:SER:HB3	2.39	0.53
17:AQ:51:GLU:N	17:AQ:51:GLU:OE1	2.42	0.53
1:BA:89:U:H2'	1:BA:90:C:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:97:PRO:O	5:BE:98:ALA:HB3	2.09	0.53
6:BF:87:SER:O	6:BF:88:MET:HB2	2.09	0.53
8:BH:112:ASP:CG	8:BH:113:ARG:H	2.17	0.53
10:BJ:65:TYR:HB3	14:BN:96:LEU:HD11	1.90	0.53
12:BL:47:ALA:HB3	12:BL:49:ARG:HE	1.73	0.53
13:BM:2:ARG:HA	13:BM:8:ILE:HG12	1.91	0.53
19:BS:17:LYS:HA	19:BS:20:LYS:NZ	2.24	0.53
20:BT:35:TYR:C	20:BT:35:TYR:CD1	2.78	0.53
25:CA:347:A:H2'	25:CA:348:A:C8	2.43	0.53
25:CA:846:U:O2	25:CA:846:U:C2'	2.57	0.53
25:CA:1121:C:C6	25:CA:1121:C:H3'	2.44	0.53
25:CA:1392:A:N6	44:CT:18:GLU:HG2	2.24	0.53
25:CA:1445:G:H2'	25:CA:1446:C:C6	2.44	0.53
27:CC:28:PRO:HG2	27:CC:33:LEU:HD11	1.91	0.53
28:CD:28:GLU:OE2	28:CD:30:GLU:HG3	2.08	0.53
30:CF:7:TYR:HA	30:CF:11:VAL:HG21	1.91	0.53
32:CH:34:GLY:O	32:CH:35:LYS:CG	2.57	0.53
32:CH:46:PHE:HD2	32:CH:47:PHE:N	2.07	0.53
36:CL:77:ILE:HD11	36:CL:101:ILE:HG21	1.90	0.53
46:CV:80:HIS:CD2	46:CV:81:PRO:HD2	2.44	0.53
51:C0:35:GLU:OE2	51:C0:45:ASP:HB2	2.08	0.53
25:DA:41:C:C2'	25:DA:42:A:O5'	2.57	0.53
25:DA:588:U:H2'	25:DA:589:U:C6	2.44	0.53
25:DA:1096:A:H3'	25:DA:1096:A:C8	2.44	0.53
25:DA:1300:G:H3'	60:DA:3655:HOH:O	2.08	0.53
25:DA:1315:C:C2	25:DA:1316:U:C5	2.97	0.53
25:DA:1540:G:C5	25:DA:1541:C:C4	2.97	0.53
25:DA:2742:G:OP1	55:D4:36:ARG:HD2	2.09	0.53
25:DA:2817:U:OP1	38:DN:99:LYS:HE2	2.08	0.53
27:DC:74:PRO:HB2	27:DC:96:LYS:CE	2.38	0.53
28:DD:61:THR:HB	28:DD:63:PRO:HD2	1.91	0.53
34:DJ:80:HIS:O	34:DJ:82:GLY:N	2.41	0.53
36:DL:4:ASN:O	36:DL:5:THR:HG22	2.09	0.53
37:DM:15:GLY:O	37:DM:16:ARG:HD3	2.08	0.53
38:DN:17:ARG:HH21	38:DN:17:ARG:HG3	1.73	0.53
40:DP:51:ASN:HA	40:DP:56:SER:HB3	1.91	0.53
44:DT:69:ARG:HB3	44:DT:69:ARG:CZ	2.39	0.53
49:DY:24:GLU:O	49:DY:27:ASN:N	2.42	0.53
1:AA:160:A:H2'	1:AA:161:A:O4'	2.09	0.53
1:AA:363:A:OP1	12:AL:30:ARG:HB3	2.09	0.53
1:AA:477:C:H2'	1:AA:478:A:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:956:U:O2	1:AA:1225:A:C2	2.61	0.53
1:AA:1151:A:HO2'	1:AA:1152:A:C5'	2.20	0.53
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.09	0.53
2:AB:89:PHE:CD2	2:AB:89:PHE:N	2.76	0.53
2:AB:112:ARG:O	2:AB:115:ASP:O	2.27	0.53
4:AD:159:GLU:O	4:AD:161:ALA:N	2.42	0.53
7:AG:99:ALA:O	7:AG:100:MET:C	2.51	0.53
11:AK:30:ILE:C	11:AK:30:ILE:HD12	2.34	0.53
11:AK:75:GLU:N	11:AK:75:GLU:OE1	2.42	0.53
12:AL:32:VAL:HG12	12:AL:78:VAL:HG22	1.90	0.53
19:AS:39:ILE:HG12	19:AS:70:LEU:CD2	2.38	0.53
20:AT:4:LYS:HE2	20:AT:4:LYS:C	2.34	0.53
1:BA:55:A:C4	1:BA:56:U:C6	2.97	0.53
1:BA:107:G:H2'	1:BA:108:G:C5'	2.39	0.53
1:BA:406:G:C2	1:BA:407:U:C6	2.97	0.53
1:BA:408:A:H2'	1:BA:409:U:O4'	2.08	0.53
1:BA:516:U:C2'	1:BA:517:G:H5'	2.39	0.53
1:BA:728:A:C6	1:BA:729:A:C6	2.97	0.53
1:BA:749:A:O2'	1:BA:750:C:H5'	2.08	0.53
1:BA:815:A:OP2	60:BA:1815:HOH:O	2.19	0.53
1:BA:1009:U:H2'	1:BA:1009:U:O2	2.07	0.53
1:BA:1298:U:O4'	1:BA:1299:A:C5	2.62	0.53
2:BB:98:GLY:O	2:BB:101:THR:N	2.41	0.53
3:BC:38:VAL:O	3:BC:42:LEU:HB2	2.09	0.53
5:BE:11:GLN:HA	5:BE:11:GLN:OE1	2.09	0.53
5:BE:155:LYS:HE3	5:BE:155:LYS:H	1.74	0.53
7:BG:139:ASP:C	7:BG:141:HIS:N	2.64	0.53
13:BM:47:LEU:HD22	13:BM:52:ILE:HG13	1.91	0.53
16:BP:77:GLU:C	16:BP:79:ASN:N	2.67	0.53
19:BS:17:LYS:HB3	19:BS:30:LEU:HD23	1.90	0.53
20:BT:66:ILE:O	20:BT:67:HIS:HB2	2.09	0.53
20:BT:72:ALA:O	20:BT:73:ARG:C	2.50	0.53
25:CA:910:A:C6	25:CA:911:A:C6	2.97	0.53
25:CA:1060:U:H5'	25:CA:1062:G:H4'	1.91	0.53
25:CA:1829:A:H2'	25:CA:1830:C:H5'	1.91	0.53
25:CA:2215:C:O2'	25:CA:2216:G:H5'	2.09	0.53
25:CA:2499:C:OP1	60:CA:3694:HOH:O	2.19	0.53
25:CA:2665:A:C2	25:CA:2666:C:C5	2.97	0.53
25:CA:2766:A:H2'	25:CA:2766:A:N3	2.24	0.53
25:CA:2888:C:H2'	25:CA:2889:C:H6	1.72	0.53
30:CF:56:LEU:HD12	30:CF:64:PRO:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:171:ALA:C	30:CF:173:ASP:H	2.16	0.53
31:CG:87:GLN:C	31:CG:88:LEU:HD12	2.33	0.53
31:CG:142:GLN:O	31:CG:145:ALA:HB3	2.10	0.53
33:CI:18:ASN:HD21	33:CI:27:LEU:HD11	1.72	0.53
33:CI:56:VAL:HG23	33:CI:70:THR:HA	1.90	0.53
34:CJ:27:ARG:HH11	34:CJ:27:ARG:HG2	1.74	0.53
38:CN:38:LEU:HB3	38:CN:39:PRO:HD3	1.90	0.53
41:CQ:86:SER:HB3	42:CR:51:VAL:HA	1.91	0.53
44:CT:30:ILE:HD11	44:CT:32:LEU:HD21	1.91	0.53
52:C1:42:VAL:HG22	52:C1:44:GLN:HB2	1.90	0.53
54:C3:54:LEU:O	54:C3:55:GLY:C	2.50	0.53
25:DA:58:G:OP1	44:DT:78:SER:OG	2.26	0.53
25:DA:480:A:H5”	45:DU:43:LYS:CD	2.38	0.53
25:DA:1053:C:C2	25:DA:1107:G:C2	2.97	0.53
25:DA:1539:U:C2	25:DA:1540:G:C8	2.97	0.53
25:DA:1832:C:N4	25:DA:1833:C:C4	2.77	0.53
25:DA:1934:C:H4’	25:DA:1974:C:O3’	2.09	0.53
25:DA:2207:C:C2	25:DA:2208:C:H5	2.27	0.53
25:DA:2210:U:H4’	25:DA:2211:A:H5’	1.90	0.53
25:DA:2211:A:H5”	25:DA:2211:A:N3	2.24	0.53
25:DA:2771:C:H2’	25:DA:2772:C:C6	2.44	0.53
56:DB:10:G:N7	56:DB:11:C:C5	2.76	0.53
56:DB:28:C:P	39:DO:31:THR:HG21	2.49	0.53
27:DC:16:VAL:CB	27:DC:203:VAL:HG22	2.39	0.53
29:DE:145:ASP:HB3	29:DE:184:ASP:HB2	1.91	0.53
31:DG:59:ASP:O	31:DG:60:GLY:C	2.52	0.53
31:DG:108:PHE:HE2	31:DG:151:ARG:CZ	2.22	0.53
33:DI:79:LEU:HD11	33:DI:132:ALA:CB	2.39	0.53
41:DQ:65:ASN:O	41:DQ:69:ARG:HG3	2.08	0.53
45:DU:101:THR:HG22	45:DU:102:ILE:N	2.24	0.53
46:DV:20:LEU:CD2	46:DV:26:PHE:CA	2.87	0.53
46:DV:26:PHE:CD2	46:DV:44:HIS:HA	2.44	0.53
49:DY:13:GLU:O	49:DY:15:ASN:N	2.41	0.53
49:DY:32:ALA:O	49:DY:35:GLY:N	2.42	0.53
52:D1:44:GLN:HA	52:D1:44:GLN:NE2	2.23	0.53
1:AA:379:C:C2’	1:AA:380:G:H5’	2.39	0.52
1:AA:513:C:O2’	1:AA:514:C:C5’	2.58	0.52
1:AA:542:G:C2	1:AA:543:U:C4	2.96	0.52
1:AA:895:G:H2’	1:AA:896:C:C6	2.44	0.52
1:AA:1216:A:N3	1:AA:1217:C:C5	2.77	0.52
1:AA:1312:G:N7	19:AS:2:ARG:N	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1523:G:OP1	11:AK:124:LYS:HE2	2.10	0.52
2:AB:66:ILE:O	2:AB:67:LEU:HB2	2.08	0.52
2:AB:86:CYS:HB2	2:AB:88:GLN:NE2	2.24	0.52
2:AB:206:ILE:HG12	2:AB:207:ARG:N	2.23	0.52
4:AD:40:HIS:HB3	4:AD:43:ARG:HG3	1.90	0.52
8:AH:15:ASN:O	8:AH:16:GLY:C	2.52	0.52
10:AJ:16:ARG:O	10:AJ:16:ARG:HG3	2.09	0.52
11:AK:51:PHE:CA	11:AK:55:ARG:HB3	2.39	0.52
12:AL:6:LEU:HB3	17:AQ:33:TYR:CE1	2.45	0.52
12:AL:36:VAL:O	12:AL:36:VAL:HG12	2.09	0.52
12:AL:49:ARG:NH1	12:AL:88:ASP:OD1	2.41	0.52
14:AN:22:LYS:O	14:AN:23:ARG:C	2.52	0.52
20:AT:65:LEU:O	20:AT:65:LEU:HD12	2.09	0.52
1:BA:188:C:O2	1:BA:189:A:N9	2.41	0.52
1:BA:211:G:N2	1:BA:212:G:H1'	2.24	0.52
1:BA:438:U:H5'	4:BD:119:HIS:CD2	2.43	0.52
1:BA:466:A:H5"	1:BA:467:U:OP2	2.09	0.52
1:BA:593:U:H2'	1:BA:594:U:H6	1.74	0.52
1:BA:1028:C:C5	1:BA:1034:G:C2	2.97	0.52
1:BA:1160:G:O2'	1:BA:1161:C:O5'	2.27	0.52
1:BA:1170:A:H2'	1:BA:1171:A:O4'	2.09	0.52
1:BA:1431:A:C5	1:BA:1432:G:C6	2.97	0.52
1:BA:1472:U:C2'	1:BA:1473:G:O5'	2.57	0.52
2:BB:93:HIS:CG	2:BB:94:ARG:NH2	2.77	0.52
9:BI:28:VAL:CB	9:BI:63:TYR:HD2	2.22	0.52
11:BK:126:ARG:N	21:BU:33:ARG:CZ	2.72	0.52
14:BN:23:ARG:O	14:BN:26:LEU:HB2	2.09	0.52
16:BP:16:PHE:CE2	16:BP:40:ASN:HB2	2.44	0.52
18:BR:49:LYS:HA	18:BR:52:ARG:NH1	2.24	0.52
20:BT:69:ASN:C	20:BT:71:ALA:N	2.62	0.52
25:CA:120:U:H5"	25:CA:122:G:OP2	2.08	0.52
25:CA:1028:A:N6	25:CA:1125:G:H2'	2.24	0.52
25:CA:1180:U:H2'	25:CA:1181:U:O5'	2.08	0.52
25:CA:1775:U:P	60:CA:3450:HOH:O	2.67	0.52
25:CA:1820:U:OP1	27:CC:176:ARG:NH2	2.42	0.52
26:CB:102:G:O2'	26:CB:103:U:H5'	2.09	0.52
31:CG:8:VAL:HG13	31:CG:49:LEU:HB2	1.87	0.52
37:CM:55:ARG:CG	37:CM:55:ARG:NH2	2.66	0.52
42:CR:39:LEU:O	42:CR:40:MET:CB	2.56	0.52
42:CR:62:GLU:HG2	42:CR:62:GLU:O	2.08	0.52
44:CT:30:ILE:HG22	44:CT:85:VAL:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:C0:54:ILE:O	51:C0:55:ALA:HB3	2.09	0.52
55:C4:16:ILE:HG22	55:C4:16:ILE:O	2.09	0.52
25:DA:55:G:C2	25:DA:56:A:C8	2.98	0.52
25:DA:190:A:H2'	25:DA:191:A:O4'	2.08	0.52
25:DA:381:G:OP1	48:DX:17:ARG:NH2	2.42	0.52
25:DA:484:C:OP1	45:DU:47:PRO:HG3	2.09	0.52
25:DA:1167:C:H2'	25:DA:1168:G:C5'	2.39	0.52
25:DA:1503:A:C6	25:DA:1504:A:C5	2.96	0.52
25:DA:1701:A:C2'	25:DA:1702:G:H5'	2.39	0.52
25:DA:2303:G:H2'	25:DA:2304:G:H5'	1.90	0.52
56:DB:25:U:C5	56:DB:26:C:C5	2.97	0.52
27:DC:175:LEU:HD11	27:DC:181:ARG:HD2	1.91	0.52
29:DE:1:MET:HG3	29:DE:14:VAL:CG2	2.39	0.52
32:DH:15:LEU:N	32:DH:15:LEU:HD22	2.24	0.52
37:DM:130:PHE:CD2	37:DM:130:PHE:C	2.87	0.52
38:DN:79:LEU:HA	38:DN:83:LEU:HB2	1.90	0.52
40:DP:3:ILE:HD12	40:DP:3:ILE:H	1.74	0.52
41:DQ:104:ALA:O	41:DQ:107:ALA:HB3	2.09	0.52
43:DS:34:ASP:O	43:DS:35:ILE:C	2.52	0.52
44:DT:44:LYS:HE3	44:DT:55:VAL:HG12	1.91	0.52
45:DU:4:ILE:HD13	45:DU:66:VAL:HG13	1.89	0.52
45:DU:36:GLU:O	45:DU:36:GLU:HG3	2.09	0.52
48:DX:73:ARG:O	48:DX:73:ARG:HG3	2.09	0.52
54:D3:29:ARG:O	54:D3:30:HIS:HB3	2.09	0.52
55:D4:36:ARG:O	55:D4:37:GLN:O	2.25	0.52
1:AA:11:G:C6	1:AA:12:U:C4	2.97	0.52
1:AA:16:A:H2'	1:AA:17:U:H5'	1.90	0.52
1:AA:452:A:C8	1:AA:452:A:C3'	2.89	0.52
1:AA:452:A:C8	1:AA:453:G:O4'	2.62	0.52
1:AA:1037:C:N3	1:AA:1038:C:C5	2.77	0.52
1:AA:1259:C:H6	1:AA:1259:C:O5'	1.91	0.52
1:AA:1308:U:O3'	13:AM:90:HIS:CE1	2.62	0.52
2:AB:185:ILE:O	2:AB:185:ILE:CG1	2.57	0.52
4:AD:22:SER:O	4:AD:23:GLY:C	2.52	0.52
4:AD:57:LYS:N	4:AD:199:ILE:HG22	2.24	0.52
4:AD:87:GLU:HG2	4:AD:187:ARG:HD3	1.89	0.52
4:AD:154:VAL:O	4:AD:158:LEU:HG	2.08	0.52
4:AD:159:GLU:HG2	4:AD:160:LEU:N	2.24	0.52
5:AE:59:ILE:O	5:AE:63:MET:HG2	2.09	0.52
5:AE:93:VAL:HG12	5:AE:138:ALA:HB1	1.92	0.52
5:AE:105:ILE:O	5:AE:105:ILE:HG13	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:149:PRO:HA	8:AH:98:LEU:HD11	1.91	0.52
7:AG:49:LEU:HD11	7:AG:60:ALA:CB	2.38	0.52
8:AH:15:ASN:O	8:AH:18:ALA:N	2.42	0.52
13:AM:2:ARG:HA	13:AM:8:ILE:HG12	1.91	0.52
19:AS:33:TRP:CZ2	19:AS:56:HIS:CE1	2.97	0.52
20:AT:27:MET:O	20:AT:31:ILE:HD12	2.10	0.52
21:AU:25:ALA:O	21:AU:26:GLY:O	2.28	0.52
22:AV:44:G:N3	22:AV:45:U:N3	2.56	0.52
22:AV:61:C:O2'	22:AV:62:C:H5'	2.08	0.52
1:BA:183:C:O2'	1:BA:184:G:O5'	2.19	0.52
1:BA:201:G:O2'	1:BA:202:G:H5'	2.09	0.52
1:BA:255:G:C6	1:BA:256:U:C4	2.98	0.52
1:BA:316:C:H2'	1:BA:317:U:H6	1.75	0.52
1:BA:426:U:H5"	4:BD:36:ALA:HB1	1.91	0.52
1:BA:951:G:N3	1:BA:1231:G:C2	2.77	0.52
1:BA:1084:G:C5	1:BA:1085:U:C4	2.97	0.52
1:BA:1101:A:H4'	1:BA:1102:A:O5'	2.10	0.52
1:BA:1102:A:H2'	1:BA:1103:C:C6	2.44	0.52
2:BB:99:MET:HA	2:BB:106:VAL:CG2	2.39	0.52
2:BB:120:SER:O	2:BB:125:PHE:HB3	2.10	0.52
3:BC:7:ASN:C	3:BC:9:ILE:H	2.18	0.52
3:BC:52:SER:HB2	3:BC:114:LEU:HG	1.90	0.52
4:BD:86:GLY:O	4:BD:89:LEU:HB3	2.09	0.52
5:BE:81:GLN:OE1	5:BE:148:SER:HA	2.08	0.52
6:BF:78:PHE:CD1	6:BF:87:SER:HB3	2.45	0.52
7:BG:50:ALA:CB	7:BG:57:GLU:OE2	2.57	0.52
7:BG:68:VAL:CG2	7:BG:99:ALA:HA	2.40	0.52
13:BM:32:ILE:HD13	13:BM:58:GLU:CG	2.40	0.52
14:BN:64:CYS:SG	14:BN:80:SER:HB2	2.49	0.52
15:BO:35:ILE:HD11	15:BO:59:VAL:N	2.25	0.52
17:BQ:16:MET:CG	17:BQ:19:SER:HB3	2.40	0.52
19:BS:10:ILE:HD11	19:BS:15:LEU:CA	2.39	0.52
20:BT:33:LYS:O	20:BT:36:ALA:HB3	2.08	0.52
25:CA:301:G:OP2	45:CU:81:ARG:NH1	2.41	0.52
25:CA:301:G:H1'	25:CA:302:C:C6	2.44	0.52
25:CA:309:A:H4'	45:CU:15:GLY:HA2	1.91	0.52
25:CA:1141:U:OP2	34:CJ:65:THR:HG21	2.09	0.52
25:CA:1244:A:H5'	36:CL:8:PRO:HD2	1.92	0.52
25:CA:1893:C:C2'	25:CA:1894:C:H5'	2.38	0.52
27:CC:121:ALA:O	27:CC:122:ALA:C	2.50	0.52
29:CE:192:ALA:O	29:CE:193:VAL:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CG:75:VAL:O	31:CG:79:THR:HB	2.09	0.52
31:CG:86:LEU:HD11	31:CG:132:LEU:CD1	2.39	0.52
33:CI:59:THR:HG22	33:CI:61:TYR:OH	2.09	0.52
34:CJ:114:LEU:HG	34:CJ:118:MET:HE3	1.89	0.52
39:CO:76:LYS:O	39:CO:77:ALA:C	2.52	0.52
40:CP:74:GLN:HA	40:CP:74:GLN:HE21	1.75	0.52
41:CQ:73:ILE:O	41:CQ:73:ILE:HG23	2.09	0.52
44:CT:2:ILE:HG22	44:CT:2:ILE:O	2.10	0.52
25:DA:58:G:C2'	25:DA:59:U:H5'	2.38	0.52
25:DA:545:U:O2	25:DA:545:U:OP2	2.27	0.52
25:DA:910:A:C5	37:DM:13:HIS:NE2	2.77	0.52
25:DA:1430:G:H2'	25:DA:1431:A:O4'	2.08	0.52
25:DA:1448:G:C4	25:DA:1464:G:N2	2.78	0.52
25:DA:1562:U:O2	25:DA:1563:U:C1'	2.56	0.52
25:DA:1631:G:N2	25:DA:1634:A:OP2	2.40	0.52
25:DA:1748:C:O2'	25:DA:1749:A:H5'	2.09	0.52
25:DA:2327:A:H2'	25:DA:2328:A:C8	2.44	0.52
25:DA:2704:C:H3'	25:DA:2705:A:C8	2.44	0.52
25:DA:2738:A:C2	25:DA:2739:U:C1'	2.93	0.52
25:DA:2898:U:H2'	25:DA:2899:A:C8	2.44	0.52
27:DC:9:SER:O	27:DC:12:ARG:HB3	2.08	0.52
27:DC:74:PRO:HB2	27:DC:96:LYS:CG	2.40	0.52
28:DD:11:MET:HG2	28:DD:24:VAL:O	2.08	0.52
28:DD:101:PHE:CD1	28:DD:104:VAL:HG11	2.44	0.52
29:DE:3:LEU:HD11	29:DE:14:VAL:HG21	1.90	0.52
31:DG:143:VAL:O	31:DG:144:ALA:C	2.53	0.52
33:DI:53:PRO:O	33:DI:74:PRO:CD	2.56	0.52
34:DJ:78:THR:HG21	34:DJ:85:LYS:HE2	1.91	0.52
39:DO:27:VAL:HG21	39:DO:40:ILE:HD12	1.92	0.52
48:DX:39:VAL:HG22	48:DX:44:ARG:O	2.08	0.52
49:DY:5:GLU:HA	49:DY:8:GLU:OE1	2.09	0.52
50:DZ:3:THR:CG2	50:DZ:36:GLU:OE1	2.57	0.52
1:AA:44:A:H2'	1:AA:45:G:H5'	1.91	0.52
1:AA:71:A:O2'	1:AA:72:A:H5"	2.09	0.52
1:AA:215:C:H2'	1:AA:216:U:O4'	2.09	0.52
1:AA:224:U:H2'	1:AA:225:C:C6	2.42	0.52
1:AA:259:G:N2	1:AA:260:G:H1'	2.23	0.52
1:AA:455:G:N2	1:AA:478:A:C2	2.77	0.52
1:AA:459:A:H2'	1:AA:460:A:H1'	1.91	0.52
1:AA:465:A:H2'	1:AA:466:A:C8	2.45	0.52
1:AA:949:A:C2	1:AA:1233:G:N3	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1215:G:N2	1:AA:1216:A:C1'	2.72	0.52
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.44	0.52
1:AA:1425:U:C2'	1:AA:1426:G:H5'	2.38	0.52
3:AC:23:ALA:HB2	3:AC:31:ASN:ND2	2.24	0.52
3:AC:156:LEU:HD12	3:AC:163:ARG:HB2	1.92	0.52
4:AD:58:GLN:HA	4:AD:58:GLN:OE1	2.10	0.52
5:AE:104:ILE:HD12	5:AE:122:VAL:CG2	2.39	0.52
5:AE:152:VAL:CG2	5:AE:153:ALA:N	2.72	0.52
7:AG:21:LEU:HD11	7:AG:61:PHE:HZ	1.73	0.52
9:AI:34:LEU:HD21	9:AI:47:VAL:HG21	1.91	0.52
10:AJ:59:LYS:CE	10:AJ:59:LYS:N	2.72	0.52
12:AL:101:LEU:N	12:AL:101:LEU:CD1	2.73	0.52
13:AM:76:ILE:HG23	13:AM:80:MET:CE	2.39	0.52
16:AP:39:PHE:CG	16:AP:74:LEU:HD11	2.44	0.52
18:AR:20:ILE:HD12	18:AR:21:ASP:N	2.25	0.52
1:BA:211:G:O2'	1:BA:212:G:H4'	2.09	0.52
1:BA:261:U:OP2	20:BT:73:ARG:NH2	2.42	0.52
1:BA:489:C:O2	1:BA:490:C:C6	2.63	0.52
1:BA:600:A:N1	1:BA:601:G:C5	2.77	0.52
1:BA:931:C:H2'	1:BA:932:C:C6	2.44	0.52
1:BA:994:A:C6	1:BA:995:C:C5	2.97	0.52
1:BA:1126:U:C6	1:BA:1281:C:C5	2.98	0.52
1:BA:1238:A:OP1	1:BA:1336:C:H5	1.93	0.52
1:BA:1326:U:H2'	1:BA:1327:C:H6	1.74	0.52
1:BA:1441:A:C8	1:BA:1442:G:C8	2.97	0.52
2:BB:130:LYS:HA	2:BB:133:ALA:CB	2.38	0.52
3:BC:10:ARG:NH2	3:BC:181:ILE:HG13	2.25	0.52
3:BC:22:PHE:CG	3:BC:23:ALA:N	2.77	0.52
3:BC:170:GLY:O	3:BC:171:ARG:HB2	2.10	0.52
4:BD:152:SER:O	4:BD:153:ARG:C	2.53	0.52
7:BG:131:GLY:H	7:BG:134:VAL:HG11	1.73	0.52
20:BT:36:ALA:O	20:BT:39:GLU:N	2.42	0.52
25:CA:880:G:C2	25:CA:881:G:C8	2.97	0.52
25:CA:1056:G:C2	25:CA:1102:C:C5	2.97	0.52
25:CA:1121:C:H2'	25:CA:1122:G:O5'	2.09	0.52
25:CA:1180:U:C2'	25:CA:1181:U:O5'	2.57	0.52
25:CA:1372:U:C2'	25:CA:1373:A:H5'	2.39	0.52
25:CA:1917:U:O4	25:CA:1918:A:C6	2.62	0.52
25:CA:2298:A:C4	25:CA:2321:U:C5	2.98	0.52
25:CA:2805:C:C4	25:CA:2806:C:C4	2.97	0.52
27:CC:3:VAL:HB	27:CC:17:LYS:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:166:ARG:HB2	27:CC:166:ARG:CZ	2.39	0.52
28:CD:99:GLU:HG2	28:CD:182:ALA:HB2	1.91	0.52
32:CH:66:ASN:CG	32:CH:138:VAL:HG21	2.34	0.52
33:CI:96:LYS:HE3	33:CI:96:LYS:HA	1.90	0.52
38:CN:103:ARG:CZ	38:CN:110:MET:HE2	2.39	0.52
39:CO:66:GLY:CA	39:CO:102:ARG:NH2	2.73	0.52
44:CT:40:LYS:HE2	44:CT:60:THR:HG23	1.91	0.52
53:C2:23:ALA:C	53:C2:24:THR:CG2	2.82	0.52
25:DA:104:A:C6	25:DA:105:C:C4	2.96	0.52
25:DA:279:A:N7	25:DA:280:U:C5	2.78	0.52
25:DA:1045:C:C4'	25:DA:1046:A:H5'	2.38	0.52
25:DA:1215:G:C2'	25:DA:1216:G:H5'	2.40	0.52
25:DA:2230:G:C5	25:DA:2231:U:C5	2.98	0.52
25:DA:2862:G:H2'	25:DA:2863:C:C6	2.45	0.52
27:DC:34:GLU:O	27:DC:35:LYS:C	2.53	0.52
28:DD:133:THR:HG23	28:DD:134:HIS:N	2.25	0.52
29:DE:158:PHE:HD1	29:DE:159:LEU:N	2.07	0.52
32:DH:3:VAL:N	32:DH:39:ALA:HB2	2.24	0.52
33:DI:80:LYS:HA	33:DI:85:ILE:O	2.09	0.52
41:DQ:90:ASP:C	41:DQ:90:ASP:OD2	2.51	0.52
46:DV:58:SER:O	46:DV:59:GLU:O	2.27	0.52
1:AA:138:G:O2'	1:AA:139:A:H5'	2.09	0.52
1:AA:182:A:C8	1:AA:184:G:C5	2.98	0.52
1:AA:198:G:N3	1:AA:199:A:C8	2.77	0.52
1:AA:410:G:H5"	1:AA:411:A:OP1	2.06	0.52
1:AA:652:U:O2'	1:AA:653:U:P	2.67	0.52
1:AA:1182:G:C4'	1:AA:1183:U:H5'	2.39	0.52
1:AA:1533:C:C5'	1:AA:1534:A:OP1	2.58	0.52
2:AB:14:HIS:O	2:AB:15:PHE:C	2.52	0.52
2:AB:193:ASP:C	2:AB:195:VAL:N	2.66	0.52
4:AD:18:LEU:C	4:AD:19:PHE:CG	2.87	0.52
4:AD:187:ARG:NH2	4:AD:191:SER:OG	2.43	0.52
4:AD:191:SER:OG	4:AD:192:ALA:N	2.42	0.52
5:AE:119:VAL:HG21	5:AE:122:VAL:CG1	2.40	0.52
10:AJ:56:HIS:O	10:AJ:57:VAL:O	2.27	0.52
13:AM:82:LEU:N	13:AM:82:LEU:HD23	2.25	0.52
18:AR:48:ALA:O	18:AR:49:LYS:C	2.52	0.52
1:BA:53:A:N1	1:BA:359:G:C6	2.78	0.52
1:BA:150:U:C5	1:BA:170:U:C5	2.97	0.52
1:BA:328:C:H4'	1:BA:329:A:C5'	2.39	0.52
1:BA:381:C:N4	1:BA:382:A:C6	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1118:U:H1'	1:BA:1179:A:C5	2.44	0.52
1:BA:1327:C:H2'	1:BA:1328:C:C6	2.45	0.52
2:BB:47:PRO:HA	2:BB:50:ASN:ND2	2.24	0.52
2:BB:66:ILE:HG21	2:BB:68:PHE:CE2	2.44	0.52
5:BE:99:SER:O	5:BE:100:GLU:C	2.52	0.52
7:BG:11:ILE:CD1	7:BG:23:ALA:HB1	2.40	0.52
10:BJ:29:ALA:CB	10:BJ:76:ILE:HD13	2.38	0.52
10:BJ:36:VAL:CG2	10:BJ:76:ILE:HG23	2.39	0.52
10:BJ:48:ARG:HA	10:BJ:66:GLU:HB3	1.91	0.52
10:BJ:80:THR:OG1	10:BJ:83:THR:CG2	2.58	0.52
11:BK:76:TYR:O	11:BK:77:GLY:C	2.53	0.52
13:BM:90:HIS:HA	13:BM:108:ARG:NH2	2.24	0.52
16:BP:17:TYR:HE1	16:BP:41:PRO:HG3	1.75	0.52
17:BQ:20:ILE:HG23	17:BQ:22:VAL:HG22	1.91	0.52
20:BT:44:ALA:O	20:BT:47:GLN:N	2.42	0.52
21:BU:36:PHE:CG	21:BU:40:PRO:HG3	2.45	0.52
25:CA:84:A:N1	25:CA:103:A:C5	2.78	0.52
25:CA:1073:A:H2'	25:CA:1074:G:H5"	1.91	0.52
25:CA:1265:A:O4'	25:CA:1267:U:C6	2.63	0.52
25:CA:1660:G:N2	25:CA:2001:C:C2	2.78	0.52
25:CA:2183:A:H2'	25:CA:2184:A:O4'	2.09	0.52
26:CB:47:C:OP2	39:CO:3:LYS:HE3	2.08	0.52
27:CC:128:THR:C	27:CC:129:LEU:HD23	2.34	0.52
35:CK:109:SER:O	35:CK:111:LYS:N	2.42	0.52
41:CQ:29:ARG:NE	51:C0:9:ARG:HH11	2.07	0.52
43:CS:35:ILE:O	43:CS:36:LEU:C	2.51	0.52
47:CW:45:ALA:O	47:CW:46:ASN:HB2	2.10	0.52
25:DA:300:A:OP2	45:DU:96:LYS:HD2	2.10	0.52
25:DA:644:A:N1	25:DA:2369:A:H1'	2.25	0.52
25:DA:863:A:H2'	25:DA:864:G:O5'	2.09	0.52
25:DA:905:A:C2'	25:DA:906:U:H5'	2.39	0.52
25:DA:1324:G:N2	25:DA:1331:G:C4	2.76	0.52
25:DA:1336:A:H2'	25:DA:1337:G:O5'	2.10	0.52
25:DA:1441:G:C2	25:DA:1551:A:C2	2.97	0.52
25:DA:1663:G:C6	25:DA:1992:G:N7	2.78	0.52
25:DA:1814:G:C6	25:DA:1815:A:C6	2.98	0.52
25:DA:2119:A:H61	25:DA:2167:U:H1'	1.75	0.52
25:DA:2334:U:H4'	25:DA:2335:A:OP2	2.10	0.52
25:DA:2373:G:O2'	25:DA:2374:C:H5'	2.08	0.52
25:DA:2378:A:H2'	25:DA:2379:G:O5'	2.10	0.52
25:DA:2820:A:C2'	25:DA:2821:A:OP1	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:58:LEU:HA	32:DH:61:VAL:HG23	1.91	0.52
33:DI:89:SER:CB	33:DI:92:PRO:HG3	2.40	0.52
38:DN:32:GLU:HB3	38:DN:115:LEU:HD12	1.91	0.52
38:DN:118:ARG:O	38:DN:119:SER:CB	2.57	0.52
40:DP:1:SER:H2	40:DP:3:ILE:H	1.58	0.52
1:AA:103:U:C2	1:AA:104:G:C8	2.98	0.52
1:AA:145:G:N2	1:AA:146:G:C4	2.77	0.52
1:AA:237:G:H2'	1:AA:238:A:C8	2.44	0.52
1:AA:257:G:C2	1:AA:258:G:C8	2.98	0.52
1:AA:974:A:H4'	1:AA:975:A:H3'	1.92	0.52
1:AA:1216:A:N1	1:AA:1217:C:C4	2.77	0.52
1:AA:1239:A:H62	1:AA:1299:A:N6	2.07	0.52
1:AA:1503:A:C2	1:AA:1531:A:H2	2.26	0.52
2:AB:49:PHE:CA	2:AB:212:TYR:OH	2.56	0.52
3:AC:41:TYR:CE1	3:AC:89:VAL:HG21	2.44	0.52
3:AC:70:ALA:HB2	3:AC:105:VAL:HB	1.90	0.52
3:AC:84:GLU:HG3	3:AC:85:LYS:N	2.23	0.52
3:AC:171:ARG:C	3:AC:172:VAL:CG2	2.82	0.52
4:AD:12:ARG:HD2	4:AD:33:ILE:HA	1.92	0.52
4:AD:104:MET:HE2	4:AD:170:LEU:HD22	1.92	0.52
4:AD:134:TYR:C	4:AD:134:TYR:CD2	2.88	0.52
4:AD:176:LYS:CB	4:AD:178:GLU:HG2	2.39	0.52
5:AE:49:TYR:CE2	5:AE:133:ILE:HD11	2.45	0.52
6:AF:3:HIS:N	6:AF:92:THR:HG23	2.25	0.52
7:AG:144:ALA:O	7:AG:145:GLU:CB	2.55	0.52
9:AI:6:TYR:HE2	9:AI:17:ARG:CB	2.23	0.52
9:AI:56:MET:CE	9:AI:57:VAL:H	2.22	0.52
10:AJ:8:ILE:CD1	10:AJ:74:VAL:HG11	2.40	0.52
11:AK:82:GLU:HG3	11:AK:108:ASN:ND2	2.24	0.52
1:BA:42:G:H2'	1:BA:43:C:C6	2.45	0.52
1:BA:58:C:O2'	1:BA:59:A:H5'	2.10	0.52
1:BA:121:U:OP2	1:BA:121:U:C4'	2.57	0.52
1:BA:158:G:C5	1:BA:164:G:C6	2.98	0.52
1:BA:465:A:H2'	1:BA:466:A:C8	2.44	0.52
1:BA:699:C:H2'	1:BA:700:G:H5'	1.92	0.52
1:BA:1355:G:C5	1:BA:1368:A:C2	2.97	0.52
1:BA:1526:G:P	21:BU:38:GLU:HB2	2.49	0.52
2:BB:32:GLY:HA2	2:BB:39:ILE:H	1.73	0.52
2:BB:67:LEU:HD21	2:BB:91:VAL:HG23	1.92	0.52
4:BD:172:VAL:HG13	4:BD:173:ASP:N	2.24	0.52
6:BF:3:HIS:HA	6:BF:65:GLU:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:30:THR:HA	6:BF:34:GLY:O	2.10	0.52
7:BG:64:ALA:HB1	7:BG:126:ALA:HB3	1.89	0.52
7:BG:92:PRO:HA	7:BG:95:ARG:HB2	1.92	0.52
7:BG:119:LEU:O	7:BG:123:LEU:HG	2.10	0.52
10:BJ:27:GLU:HB2	10:BJ:30:LYS:HE3	1.91	0.52
11:BK:96:ILE:O	11:BK:99:LEU:HB2	2.10	0.52
14:BN:34:ASN:O	14:BN:35:ALA:HB2	2.09	0.52
17:BQ:35:LYS:HG3	17:BQ:37:ILE:CD1	2.39	0.52
25:CA:479:A:H4'	25:CA:480:A:OP1	2.09	0.52
25:CA:978:G:O2'	25:CA:979:A:H5'	2.08	0.52
25:CA:1301:A:H2'	25:CA:1301:A:N3	2.25	0.52
25:CA:2851:A:C5	25:CA:2852:G:C5	2.98	0.52
27:CC:203:VAL:O	27:CC:203:VAL:HG23	2.09	0.52
27:CC:235:GLU:HA	27:CC:235:GLU:OE1	2.09	0.52
28:CD:205:PRO:O	28:CD:206:ALA:C	2.52	0.52
30:CF:132:ARG:HA	30:CF:150:GLY:HA2	1.91	0.52
38:CN:21:PHE:CD2	38:CN:24:MET:CE	2.93	0.52
39:CO:54:VAL:O	39:CO:54:VAL:CG2	2.58	0.52
41:CQ:40:LYS:C	41:CQ:42:GLY:N	2.59	0.52
43:CS:89:ALA:O	43:CS:90:LYS:HB2	2.09	0.52
25:DA:224:U:H2'	25:DA:225:C:O4'	2.09	0.52
25:DA:582:A:C6	25:DA:583:G:C6	2.98	0.52
25:DA:1079:C:C5	25:DA:1080:A:N7	2.77	0.52
25:DA:1084:A:H2'	25:DA:1085:A:O4'	2.09	0.52
25:DA:1176:U:C5	25:DA:1177:G:C5	2.98	0.52
25:DA:1220:G:C2'	25:DA:1221:C:O5'	2.58	0.52
25:DA:1462:C:O2'	25:DA:2702:G:H1'	2.10	0.52
25:DA:1554:U:H4'	25:DA:1555:G:OP2	2.09	0.52
25:DA:1571:A:H8	25:DA:1571:A:O5'	1.92	0.52
25:DA:1682:G:C8	25:DA:1757:A:C2	2.97	0.52
25:DA:1923:U:H2'	25:DA:1924:C:H6	1.73	0.52
25:DA:2080:A:H2'	25:DA:2081:U:C6	2.44	0.52
25:DA:2133:G:C2	25:DA:2158:A:C6	2.98	0.52
25:DA:2185:U:H2'	25:DA:2186:G:O4'	2.09	0.52
25:DA:2193:G:H2'	25:DA:2194:U:H6	1.72	0.52
25:DA:2557:G:H2'	25:DA:2558:C:C6	2.44	0.52
30:DF:32:LYS:O	30:DF:33:ILE:HG13	2.09	0.52
32:DH:72:ILE:HG21	32:DH:140:ALA:CB	2.39	0.52
33:DI:19:PRO:HG2	33:DI:23:VAL:CG2	2.40	0.52
33:DI:60:VAL:CG2	33:DI:66:PHE:HB3	2.39	0.52
34:DJ:28:LEU:HD12	34:DJ:28:LEU:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:28:VAL:HG23	39:DO:36:TYR:O	2.09	0.52
1:AA:161:A:H2'	1:AA:162:A:C8	2.45	0.52
1:AA:437:U:C4	1:AA:438:U:H5	2.28	0.52
1:AA:505:G:H5'	1:AA:534:U:H2'	1.90	0.52
1:AA:1041:G:C6	1:AA:1042:A:N6	2.77	0.52
1:AA:1081:A:C2	1:AA:1082:A:C4	2.97	0.52
1:AA:1330:U:H2'	1:AA:1331:G:C5'	2.37	0.52
2:AB:14:HIS:HD2	2:AB:15:PHE:N	2.08	0.52
2:AB:221:ARG:HH11	2:AB:221:ARG:HG2	1.74	0.52
4:AD:150:LYS:CB	4:AD:177:MET:HE1	2.39	0.52
8:AH:48:PHE:CD1	8:AH:48:PHE:N	2.74	0.52
8:AH:87:ARG:O	8:AH:121:GLY:HA3	2.09	0.52
10:AJ:65:TYR:HA	14:AN:99:ALA:H	1.74	0.52
12:AL:23:LEU:HB2	12:AL:58:ASN:ND2	2.25	0.52
14:AN:6:LYS:HD3	14:AN:6:LYS:H	1.73	0.52
17:AQ:51:GLU:CD	17:AQ:51:GLU:N	2.67	0.52
19:AS:39:ILE:HD11	19:AS:70:LEU:HD22	1.89	0.52
22:AV:59:U:C6	22:AV:60:U:C5	2.97	0.52
1:BA:33:A:H2'	1:BA:34:C:C6	2.45	0.52
1:BA:96:U:H2'	1:BA:97:G:C8	2.45	0.52
1:BA:251:G:C6	1:BA:266:G:O6	2.63	0.52
1:BA:786:G:C2'	1:BA:787:A:O5'	2.58	0.52
1:BA:942:G:C2	1:BA:1342:C:C2	2.97	0.52
1:BA:1372:U:OP2	9:BI:12:LYS:NZ	2.42	0.52
1:BA:1494:G:N2	25:DA:1912:A:N3	2.58	0.52
4:BD:99:ASN:HD22	4:BD:100:VAL:N	2.07	0.52
5:BE:140:ILE:H	5:BE:140:ILE:HD12	1.74	0.52
8:BH:63:LYS:HE2	8:BH:70:VAL:HG21	1.92	0.52
9:BI:37:TYR:O	9:BI:38:PHE:HB3	2.10	0.52
9:BI:51:LEU:HD13	9:BI:56:MET:HG2	1.92	0.52
9:BI:90:ASP:OD2	9:BI:90:ASP:C	2.52	0.52
9:BI:110:VAL:O	9:BI:110:VAL:HG23	2.09	0.52
10:BJ:56:HIS:O	10:BJ:57:VAL:O	2.27	0.52
10:BJ:73:LEU:CD2	10:BJ:75:ASP:HB2	2.40	0.52
12:BL:73:LEU:CD2	12:BL:73:LEU:H	2.23	0.52
15:BO:18:ALA:O	15:BO:19:ASN:CB	2.57	0.52
18:BR:33:THR:CG2	18:BR:35:SER:HB2	2.39	0.52
25:CA:192:C:O2'	25:CA:802:A:N3	2.35	0.52
25:CA:638:G:C5	25:CA:639:U:C5	2.98	0.52
25:CA:1901:A:H2'	25:CA:1901:A:N3	2.25	0.52
25:CA:2114:A:C2	25:CA:2166:U:H2'	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2174:C:O2	25:CA:2175:C:C6	2.63	0.52
26:CB:34:A:O2'	26:CB:35:C:H5"	2.09	0.52
26:CB:36:C:C5'	26:CB:37:C:OP2	2.58	0.52
28:CD:13:ARG:HD2	28:CD:15:PHE:CZ	2.45	0.52
32:CH:72:ILE:HG23	32:CH:141:LYS:O	2.09	0.52
34:CJ:81:ILE:HG23	34:CJ:82:GLY:H	1.75	0.52
37:CM:55:ARG:NH2	37:CM:55:ARG:HG3	2.25	0.52
45:CU:15:GLY:O	45:CU:16:LYS:C	2.52	0.52
50:CZ:43:ILE:O	50:CZ:47:ILE:HD12	2.10	0.52
25:DA:60:G:C2	25:DA:74:A:C2	2.98	0.52
25:DA:246:C:C2'	25:DA:247:G:H5'	2.39	0.52
25:DA:322:A:C5	25:DA:340:A:C2	2.97	0.52
25:DA:396:G:C6	25:DA:397:U:C4	2.97	0.52
25:DA:947:A:O2'	25:DA:984:A:C2	2.47	0.52
25:DA:1019:U:O2'	25:DA:1021:A:N7	2.43	0.52
25:DA:1097:U:C6	25:DA:1098:A:H1'	2.44	0.52
25:DA:1410:G:C2	25:DA:1593:A:N1	2.77	0.52
25:DA:1545:A:H2'	25:DA:1546:G:H5'	1.92	0.52
25:DA:1746:A:C2'	25:DA:1747:U:H6	2.20	0.52
25:DA:2079:U:O3'	48:DX:20:ALA:HB2	2.09	0.52
25:DA:2127:G:O2'	25:DA:2173:A:C2	2.61	0.52
25:DA:2321:U:H5"	25:DA:2322:A:OP2	2.10	0.52
25:DA:2414:G:C4	25:DA:2415:G:C8	2.97	0.52
25:DA:2419:U:H5	60:DA:3672:HOH:O	1.92	0.52
25:DA:2819:G:C6	25:DA:2821:A:C2	2.98	0.52
25:DA:2822:G:H2'	25:DA:2823:A:H5"	1.92	0.52
27:DC:16:VAL:HG23	27:DC:203:VAL:HG21	1.91	0.52
29:DE:194:LYS:O	29:DE:197:GLU:N	2.43	0.52
30:DF:4:HIS:O	30:DF:8:LYS:HG3	2.09	0.52
35:DK:104:THR:HA	35:DK:122:VAL:HG12	1.92	0.52
44:DT:68:LYS:O	44:DT:74:ILE:HB	2.10	0.52
48:DX:10:ARG:HB3	48:DX:11:PRO:HD2	1.92	0.52
54:D3:10:ALA:O	54:D3:12:ARG:N	2.42	0.52
1:AA:63:C:C2'	1:AA:64:G:H5'	2.40	0.52
1:AA:439:U:H2'	1:AA:440:C:O5'	2.10	0.52
1:AA:634:C:O2'	1:AA:635:A:H5'	2.10	0.52
1:AA:722:G:H3'	1:AA:722:G:N3	2.24	0.52
1:AA:1133:G:C5	1:AA:1134:G:N7	2.77	0.52
1:AA:1233:G:C5	1:AA:1234:C:C5	2.98	0.52
2:AB:220:VAL:O	2:AB:221:ARG:C	2.52	0.52
3:AC:6:PRO:HB3	3:AC:174:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:119:LEU:HD22	7:AG:123:LEU:CD2	2.38	0.52
8:AH:94:VAL:HG21	8:AH:100:ILE:O	2.10	0.52
9:AI:48:ARG:O	9:AI:49:GLN:C	2.53	0.52
11:AK:52:ARG:HA	11:AK:52:ARG:NE	2.25	0.52
11:AK:107:THR:CG2	11:AK:108:ASN:ND2	2.72	0.52
11:AK:109:ILE:HG21	21:AU:16:ARG:HE	1.74	0.52
11:AK:125:LYS:C	21:AU:33:ARG:NH2	2.67	0.52
12:AL:23:LEU:HG	12:AL:24:GLU:H	1.75	0.52
17:AQ:46:HIS:O	17:AQ:73:THR:HG23	2.08	0.52
1:BA:143:A:H5'	1:BA:144:G:C5'	2.39	0.52
1:BA:268:U:H2'	1:BA:269:C:C6	2.45	0.52
1:BA:831:A:H2'	1:BA:832:G:O5'	2.09	0.52
1:BA:1324:A:C5	1:BA:1325:C:C4	2.97	0.52
1:BA:1417:G:N2	1:BA:1484:C:C4	2.78	0.52
2:BB:57:ASN:O	2:BB:58:LYS:HB2	2.08	0.52
3:BC:31:ASN:HD21	3:BC:58:ARG:HD3	1.74	0.52
4:BD:90:LEU:CD1	4:BD:196:GLU:HG3	2.39	0.52
5:BE:56:PRO:O	5:BE:59:ILE:CG1	2.57	0.52
6:BF:84:VAL:O	6:BF:84:VAL:HG13	2.10	0.52
10:BJ:78:GLU:C	10:BJ:78:GLU:OE1	2.52	0.52
17:BQ:6:THR:OG1	17:BQ:59:GLU:HG2	2.09	0.52
18:BR:21:ASP:OD1	18:BR:22:TYR:N	2.43	0.52
25:CA:65:U:H2'	25:CA:66:C:C6	2.45	0.52
25:CA:172:A:H2'	25:CA:173:A:C8	2.45	0.52
25:CA:189:G:P	48:CX:25:LYS:HD2	2.50	0.52
25:CA:250:G:OP2	54:C3:12:ARG:NH1	2.42	0.52
25:CA:731:C:OP2	60:CA:3700:HOH:O	2.19	0.52
25:CA:1061:U:H3'	25:CA:1062:G:H5'	1.91	0.52
25:CA:1717:A:H2'	25:CA:1718:G:O5'	2.09	0.52
25:CA:2096:C:H2'	25:CA:2096:C:O2	2.09	0.52
25:CA:2124:G:H2'	25:CA:2125:G:H5'	1.91	0.52
25:CA:2339:C:H2'	25:CA:2340:A:C8	2.44	0.52
25:CA:2626:C:O5'	25:CA:2626:C:H6	1.92	0.52
26:CB:20:G:C2	26:CB:64:G:C4	2.98	0.52
26:CB:54:G:C4	26:CB:55:U:C6	2.97	0.52
29:CE:4:VAL:C	29:CE:5:LEU:HD12	2.35	0.52
30:CF:46:LYS:C	30:CF:48:LEU:H	2.18	0.52
31:CG:153:PRO:HG3	31:CG:161:VAL:O	2.10	0.52
33:CI:46:ASP:CB	33:CI:50:LYS:HD2	2.40	0.52
33:CI:56:VAL:CG2	33:CI:57:VAL:N	2.73	0.52
33:CI:100:ILE:HG21	33:CI:105:LEU:CD1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CP:52:ARG:O	40:CP:53:GLY:C	2.50	0.52
44:CT:69:ARG:HA	44:CT:74:ILE:HA	1.91	0.52
48:CX:36:ARG:HG3	48:CX:47:THR:HB	1.92	0.52
25:DA:195:A:C2'	25:DA:196:A:OP1	2.58	0.52
25:DA:910:A:C6	37:DM:13:HIS:CD2	2.98	0.52
25:DA:1168:G:H5'	25:DA:1168:G:H8	1.75	0.52
25:DA:1230:A:C2	25:DA:1231:U:C2	2.98	0.52
25:DA:1589:U:C2	25:DA:1590:A:C8	2.98	0.52
25:DA:2343:U:H2'	25:DA:2344:U:C5	2.44	0.52
27:DC:230:PRO:C	27:DC:231:HIS:O	2.49	0.52
28:DD:56:LYS:O	28:DD:57:ALA:C	2.53	0.52
29:DE:146:VAL:HG21	29:DE:148:ILE:HD11	1.90	0.52
30:DF:33:ILE:HA	30:DF:154:THR:O	2.09	0.52
30:DF:133:GLU:HG3	30:DF:135:ILE:HD12	1.91	0.52
44:DT:21:SER:O	44:DT:24:MET:HB2	2.09	0.52
45:DU:65:GLN:HB2	45:DU:68:ASN:ND2	2.25	0.52
1:AA:38:G:N2	1:AA:397:A:C4	2.78	0.52
1:AA:142:G:H3'	1:AA:143:A:C8	2.41	0.52
1:AA:235:C:H2'	1:AA:236:A:C8	2.45	0.52
1:AA:302:G:N3	1:AA:556:C:H4'	2.25	0.52
1:AA:374:A:C6	1:AA:375:U:C4	2.97	0.52
1:AA:452:A:N7	1:AA:453:G:N9	2.58	0.52
1:AA:464:U:C2	1:AA:466:A:H5"	2.45	0.52
1:AA:599:C:H4'	8:AH:121:GLY:C	2.35	0.52
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.09	0.52
1:AA:1337:G:H4'	1:AA:1338:G:OP1	2.09	0.52
1:AA:1371:G:O3'	9:AI:70:GLY:HA3	2.09	0.52
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.73	0.52
1:AA:1410:A:H2'	1:AA:1411:C:H6	1.75	0.52
2:AB:20:ARG:O	2:AB:22:TRP:CD1	2.62	0.52
2:AB:122:ASP:O	2:AB:123:GLY:O	2.27	0.52
2:AB:146:SER:O	2:AB:147:LEU:CG	2.53	0.52
3:AC:106:ARG:O	3:AC:107:LYS:C	2.51	0.52
4:AD:21:LYS:O	4:AD:22:SER:C	2.53	0.52
4:AD:89:LEU:O	4:AD:89:LEU:HD12	2.10	0.52
8:AH:46:GLU:N	8:AH:63:LYS:CG	2.72	0.52
9:AI:29:ILE:HA	9:AI:64:ILE:HG12	1.92	0.52
11:AK:33:ILE:HG12	11:AK:69:CYS:SG	2.49	0.52
11:AK:96:ILE:C	11:AK:96:ILE:HD12	2.35	0.52
13:AM:2:ARG:O	13:AM:3:ILE:O	2.28	0.52
15:AO:3:SER:HB2	15:AO:6:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:43:MET:HE2	19:AS:48:ILE:HD11	1.92	0.52
19:AS:74:ALA:N	19:AS:75:PRO:CD	2.73	0.52
22:AV:75:C:H4'	22:AV:76:A:OP1	2.08	0.52
1:BA:337:G:H2'	1:BA:338:A:C8	2.45	0.52
1:BA:562:U:OP2	12:BL:13:ARG:CZ	2.57	0.52
1:BA:692:U:H5	11:BK:27:ASN:ND2	2.08	0.52
1:BA:1306:A:H2'	1:BA:1307:U:O4'	2.10	0.52
2:BB:34:ARG:O	2:BB:37:VAL:HG12	2.10	0.52
6:BF:43:GLY:HA2	6:BF:58:HIS:NE2	2.25	0.52
7:BG:16:LYS:HE2	7:BG:17:PHE:CE1	2.44	0.52
8:BH:103:VAL:HG23	8:BH:123:GLU:O	2.10	0.52
8:BH:125:ILE:HG22	8:BH:126:CYS:SG	2.49	0.52
14:BN:25:GLU:HG3	14:BN:26:LEU:N	2.24	0.52
17:BQ:16:MET:HG2	17:BQ:19:SER:CB	2.39	0.52
21:BU:36:PHE:CA	21:BU:39:LYS:HE3	2.39	0.52
25:CA:11:C:H2'	25:CA:12:U:H5'	1.91	0.52
25:CA:674:G:H5"	29:CE:71:GLY:N	2.24	0.52
25:CA:1079:C:C4	25:CA:1088:A:C5	2.98	0.52
25:CA:1730:C:O2'	25:CA:1731:G:C4	2.59	0.52
25:CA:2114:A:C5	25:CA:2167:U:H5'	2.44	0.52
29:CE:54:GLY:CA	29:CE:74:LYS:HE2	2.40	0.52
30:CF:101:ARG:O	30:CF:102:LEU:C	2.53	0.52
31:CG:54:ARG:CD	31:CG:57:TYR:HE1	2.23	0.52
32:CH:8:LYS:NZ	32:CH:14:SER:HA	2.25	0.52
32:CH:50:ARG:O	32:CH:51:ARG:C	2.53	0.52
32:CH:103:VAL:HG12	32:CH:108:VAL:O	2.10	0.52
33:CI:83:ALA:HB2	33:CI:105:LEU:HD21	1.92	0.52
37:CM:31:PHE:CZ	37:CM:110:GLU:CA	2.93	0.52
40:CP:52:ARG:HH11	40:CP:52:ARG:CG	2.23	0.52
25:DA:55:G:H2'	25:DA:56:A:H5'	1.92	0.52
25:DA:276:U:C2'	25:DA:277:G:O5'	2.58	0.52
25:DA:279:A:N6	25:DA:361:G:H1'	2.24	0.52
25:DA:320:A:H4'	25:DA:322:A:C8	2.45	0.52
25:DA:545:U:O2	25:DA:545:U:O5'	2.26	0.52
25:DA:910:A:C6	37:DM:13:HIS:NE2	2.78	0.52
25:DA:1115:G:HO2'	25:DA:1116:G:H8	1.57	0.52
25:DA:1268:A:C2	25:DA:2013:A:C5	2.98	0.52
25:DA:1283:G:H22	25:DA:1286:A:H5'	1.73	0.52
25:DA:1417:C:H2'	25:DA:1418:G:O4'	2.10	0.52
25:DA:1433:A:H2'	25:DA:1434:A:O4'	2.10	0.52
25:DA:2185:U:H2'	25:DA:2186:G:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2295:C:H2'	25:DA:2296:U:O5'	2.10	0.52
25:DA:2430:A:H5'	25:DA:2431:U:OP2	2.10	0.52
25:DA:2668:G:C2	25:DA:2669:G:C8	2.98	0.52
25:DA:2811:G:H2'	25:DA:2812:G:O4'	2.10	0.52
27:DC:62:ARG:HG3	27:DC:83:ASP:OD1	2.10	0.52
33:DI:5:GLN:O	33:DI:6:ALA:HB2	2.09	0.52
33:DI:10:LEU:HD13	33:DI:10:LEU:O	2.09	0.52
35:DK:22:ILE:HG21	35:DK:42:THR:HG22	1.92	0.52
36:DL:127:VAL:CG1	36:DL:131:ALA:CB	2.87	0.52
38:DN:72:ASP:OD1	38:DN:75:ILE:HG12	2.10	0.52
38:DN:100:CYS:SG	38:DN:100:CYS:O	2.68	0.52
40:DP:31:VAL:O	40:DP:37:LYS:HA	2.09	0.52
41:DQ:8:ILE:HG13	41:DQ:9:ALA:N	2.25	0.52
42:DR:49:ILE:CG2	42:DR:53:PHE:H	2.22	0.52
50:DZ:43:ILE:O	50:DZ:45:GLY:N	2.42	0.52
1:AA:19:A:O2'	1:AA:20:U:H5'	2.10	0.52
1:AA:106:C:O2	1:AA:379:C:H4'	2.10	0.52
1:AA:979:C:OP1	1:AA:981:U:O4	2.27	0.52
1:AA:1202:U:H2'	1:AA:1203:C:H5'	1.91	0.52
1:AA:1226:C:H2'	13:AM:101:THR:HB	1.92	0.52
1:AA:1285:A:H4'	1:AA:1286:U:C2	2.45	0.52
1:AA:1302:C:C5	13:AM:16:ILE:HD13	2.44	0.52
1:AA:1539:C:OP1	21:AU:17:ARG:NH1	2.43	0.52
2:AB:131:LYS:CG	2:AB:132:GLU:N	2.71	0.52
2:AB:139:GLU:HG2	2:AB:143:LEU:HD21	1.90	0.52
3:AC:84:GLU:C	3:AC:86:LEU:H	2.18	0.52
3:AC:105:VAL:HG12	3:AC:106:ARG:O	2.10	0.52
3:AC:172:VAL:N	3:AC:173:PRO:HD3	2.25	0.52
5:AE:35:LEU:HD21	5:AE:136:VAL:HG11	1.92	0.52
5:AE:37:VAL:HG23	5:AE:47:PHE:CB	2.40	0.52
5:AE:55:VAL:HB	5:AE:56:PRO:CD	2.39	0.52
6:AF:9:MET:CE	18:AR:64:LEU:HD22	2.40	0.52
7:AG:82:SER:HB3	7:AG:84:TYR:CD2	2.45	0.52
8:AH:46:GLU:N	8:AH:63:LYS:HG3	2.25	0.52
9:AI:16:ALA:HB2	9:AI:66:VAL:HG23	1.92	0.52
10:AJ:5:ARG:HG2	10:AJ:79:PRO:HG3	1.90	0.52
15:AO:7:THR:HA	15:AO:10:ILE:HD12	1.90	0.52
20:AT:2:ASN:O	20:AT:3:ILE:C	2.52	0.52
22:AV:18:G:C4	22:AV:58:A:C6	2.97	0.52
1:BA:207:C:O2	1:BA:207:C:C2'	2.57	0.52
1:BA:438:U:C4'	4:BD:119:HIS:CD2	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1267:C:H2'	1:BA:1267:C:O2	2.10	0.52
1:BA:1277:C:H1'	1:BA:1282:C:H1'	1.92	0.52
1:BA:1294:G:C2	1:BA:1295:U:C2	2.98	0.52
1:BA:1323:G:O4'	1:BA:1362:A:H2	1.93	0.52
1:BA:1348:U:C2	1:BA:1349:A:C8	2.98	0.52
2:BB:95:TRP:NE1	2:BB:171:ALA:HB2	2.24	0.52
3:BC:79:LYS:HA	3:BC:79:LYS:HE3	1.92	0.52
3:BC:129:PHE:CE1	3:BC:156:LEU:HB3	2.45	0.52
5:BE:49:TYR:O	5:BE:62:ALA:HB2	2.08	0.52
7:BG:77:ARG:O	7:BG:78:ARG:C	2.52	0.52
8:BH:112:ASP:O	8:BH:113:ARG:C	2.53	0.52
14:BN:43:ASN:O	14:BN:43:ASN:ND2	2.43	0.52
14:BN:61:ARG:O	14:BN:62:ASN:CB	2.57	0.52
18:BR:31:TYR:O	18:BR:39:VAL:CG2	2.57	0.52
25:CA:656:G:H2'	25:CA:657:U:O5'	2.09	0.52
25:CA:1019:U:H3	25:CA:1142:A:H62	1.58	0.52
25:CA:1171:G:H2'	25:CA:1172:C:C6	2.44	0.52
25:CA:1267:U:H2'	25:CA:1267:U:O2	2.10	0.52
25:CA:2127:G:N1	25:CA:2161:C:O2	2.42	0.52
25:CA:2307:G:N2	25:CA:2311:A:C2'	2.69	0.52
25:CA:2713:U:H3'	25:CA:2714:G:H5"	1.92	0.52
28:CD:98:VAL:O	28:CD:98:VAL:CG2	2.57	0.52
29:CE:7:ASP:C	29:CE:9:GLN:H	2.17	0.52
30:CF:40:GLY:HA2	30:CF:84:ILE:HD11	1.91	0.52
31:CG:95:ALA:CB	31:CG:104:LEU:HD23	2.39	0.52
46:CV:8:VAL:HG12	46:CV:65:VAL:HG21	1.91	0.52
25:DA:371:A:H61	25:DA:401:A:H3'	1.74	0.52
25:DA:843:G:C2	25:DA:936:A:C2	2.98	0.52
25:DA:1018:U:C4	25:DA:1019:U:H5	2.28	0.52
25:DA:1124:G:O2'	25:DA:1125:G:H5'	2.10	0.52
25:DA:1197:G:H2'	25:DA:1198:U:C6	2.45	0.52
25:DA:1404:C:C2	25:DA:1405:U:C5	2.98	0.52
25:DA:1444:G:C2	25:DA:1548:A:C2	2.97	0.52
25:DA:1998:A:OP2	28:DD:141:ARG:NH2	2.42	0.52
25:DA:2407:A:H2'	25:DA:2408:U:C6	2.45	0.52
56:DB:61:G:C5	56:DB:62:C:C4	2.98	0.52
28:DD:149:ASN:OD1	28:DD:150:GLN:N	2.43	0.52
32:DH:72:ILE:HG22	32:DH:73:ASN:H	1.73	0.52
37:DM:32:GLY:C	37:DM:117:PHE:CE2	2.87	0.52
37:DM:54:THR:O	37:DM:55:ARG:C	2.53	0.52
42:DR:49:ILE:HD12	42:DR:52:PRO:CA	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DU:35:VAL:O	45:DU:35:VAL:HG12	2.08	0.52
45:DU:40:LEU:HD22	45:DU:61:GLU:HG3	1.90	0.52
45:DU:70:ALA:HB3	45:DU:79:ALA:HB1	1.91	0.52
46:DV:63:ILE:HG22	46:DV:65:VAL:CG1	2.39	0.52
52:D1:25:ASN:O	52:D1:26:LYS:C	2.53	0.52
1:AA:188:C:O2	1:AA:188:C:C2'	2.57	0.52
1:AA:451:A:C8	1:AA:481:G:C6	2.97	0.52
1:AA:525:C:H2'	1:AA:526:C:C6	2.44	0.52
1:AA:763:G:C2'	1:AA:764:C:O5'	2.57	0.52
1:AA:802:A:C2'	1:AA:803:G:H5'	2.39	0.52
1:AA:1182:G:H4'	1:AA:1183:U:H5'	1.92	0.52
1:AA:1202:U:C2	14:AN:82:ILE:HG21	2.45	0.52
1:AA:1285:A:H5'	1:AA:1286:U:C4	2.44	0.52
1:AA:1304:G:N7	1:AA:1305:G:C6	2.78	0.52
1:AA:1410:A:C4	1:AA:1491:G:N2	2.78	0.52
2:AB:48:MET:HG2	2:AB:198:VAL:O	2.10	0.52
2:AB:61:SER:C	2:AB:63:LYS:N	2.67	0.52
3:AC:58:ARG:HA	3:AC:62:SER:O	2.09	0.52
5:AE:82:HIS:CE1	5:AE:146:MET:HG3	2.45	0.52
6:AF:9:MET:HE1	18:AR:64:LEU:HD22	1.91	0.52
8:AH:50:VAL:HG22	8:AH:50:VAL:O	2.10	0.52
9:AI:42:THR:O	9:AI:43:ALA:HB3	2.09	0.52
12:AL:31:GLY:HA3	12:AL:54:VAL:CG1	2.40	0.52
14:AN:20:PHE:CG	14:AN:24:ALA:HB3	2.45	0.52
17:AQ:13:SER:HB2	17:AQ:21:VAL:CG1	2.39	0.52
20:AT:4:LYS:HE2	20:AT:4:LYS:CA	2.40	0.52
20:AT:77:ASN:O	20:AT:81:GLN:HG2	2.10	0.52
1:BA:180:U:C2'	1:BA:181:A:O5'	2.58	0.52
1:BA:526:C:H2'	1:BA:527:G:C4'	2.39	0.52
1:BA:570:G:O6	1:BA:865:A:N6	2.42	0.52
1:BA:723:U:C5'	1:BA:724:G:OP1	2.58	0.52
1:BA:786:G:H2'	1:BA:787:A:O5'	2.10	0.52
1:BA:972:C:C2'	10:BJ:57:VAL:HG23	2.40	0.52
1:BA:1087:G:C2	1:BA:1088:G:C8	2.98	0.52
1:BA:1104:G:C2	1:BA:1105:A:C4	2.98	0.52
1:BA:1296:C:H4'	1:BA:1302:C:N4	2.25	0.52
1:BA:1362:A:OP1	1:BA:1362:A:C4'	2.46	0.52
1:BA:1532:U:H5"	1:BA:1533:C:OP2	2.10	0.52
4:BD:156:ALA:O	4:BD:159:GLU:HB3	2.10	0.52
5:BE:153:ALA:O	5:BE:155:LYS:N	2.43	0.52
6:BF:4:TYR:CD2	6:BF:71:ILE:CD1	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BI:10:ARG:HA	9:BI:77:ALA:HB1	1.92	0.52
9:BI:24:ASN:HB3	9:BI:58:GLU:CD	2.34	0.52
9:BI:83:THR:HA	9:BI:86:LEU:HD12	1.91	0.52
12:BL:49:ARG:HB2	12:BL:89:LEU:HD11	1.92	0.52
12:BL:73:LEU:CD2	12:BL:73:LEU:N	2.73	0.52
18:BR:22:TYR:CD1	18:BR:22:TYR:O	2.63	0.52
18:BR:28:LEU:O	18:BR:31:TYR:N	2.43	0.52
20:BT:84:LYS:HE3	20:BT:84:LYS:HA	1.91	0.52
25:CA:414:C:H2'	25:CA:415:A:C8	2.45	0.52
25:CA:547:A:C8	25:CA:548:G:O4'	2.63	0.52
25:CA:630:G:C3'	25:CA:631:A:H5"	2.41	0.52
25:CA:1090:A:H2'	25:CA:1091:G:O5'	2.10	0.52
25:CA:1372:U:C2'	25:CA:1373:A:C5'	2.88	0.52
25:CA:1468:U:H5'	25:CA:1469:A:OP1	2.10	0.52
25:CA:1673:G:H2'	25:CA:1674:G:H5'	1.90	0.52
25:CA:2473:U:C5	25:CA:2474:U:C4	2.98	0.52
25:CA:2539:C:H5'	55:C4:3:VAL:HG21	1.92	0.52
26:CB:39:A:O2'	26:CB:40:U:H5'	2.10	0.52
27:CC:24:HIS:NE2	27:CC:79:ARG:NH2	2.58	0.52
29:CE:141:MET:O	29:CE:142:ALA:HB3	2.09	0.52
30:CF:142:TYR:O	30:CF:142:TYR:CG	2.63	0.52
32:CH:72:ILE:HG22	32:CH:73:ASN:OD1	2.10	0.52
32:CH:116:ARG:HG3	32:CH:133:GLN:CG	2.40	0.52
36:CL:125:LEU:N	36:CL:125:LEU:CD1	2.73	0.52
39:CO:7:ARG:HG3	39:CO:96:GLY:HA3	1.92	0.52
39:CO:35:ILE:HD11	39:CO:106:LEU:HD13	1.92	0.52
45:CU:6:ARG:HG3	45:CU:7:ASP:H	1.75	0.52
49:CY:24:GLU:O	49:CY:25:GLN:C	2.52	0.52
52:C1:25:ASN:OD1	52:C1:27:ARG:HB2	2.10	0.52
25:DA:392:U:H2'	25:DA:393:C:H6	1.75	0.52
25:DA:545:U:H6	25:DA:547:A:O3'	1.93	0.52
25:DA:724:U:H2'	25:DA:725:G:O4'	2.10	0.52
25:DA:1392:A:N6	25:DA:1393:A:H61	2.08	0.52
25:DA:1701:A:H2'	25:DA:1702:G:H5'	1.92	0.52
25:DA:1731:G:C5	25:DA:1733:G:C8	2.98	0.52
25:DA:2097:A:C4	25:DA:2098:U:C5	2.98	0.52
25:DA:2306:C:H3'	25:DA:2307:G:C5'	2.38	0.52
25:DA:2531:A:C5	25:DA:2532:G:N7	2.78	0.52
25:DA:2799:A:O2'	25:DA:2800:A:H5'	2.10	0.52
56:DB:37:C:C5	56:DB:38:C:C4	2.98	0.52
56:DB:49:C:H2'	56:DB:50:A:O5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DE:61:ARG:CD	29:DE:63:LYS:O	2.58	0.52
30:DF:3:LEU:HD21	30:DF:100:GLU:OE1	2.10	0.52
32:DH:14:SER:HA	32:DH:15:LEU:HD22	1.90	0.52
35:DK:87:LEU:HD22	35:DK:92:GLU:HA	1.92	0.52
37:DM:2:LEU:O	37:DM:3:GLN:CB	2.57	0.52
37:DM:97:GLN:N	37:DM:97:GLN:CD	2.68	0.52
1:AA:79:G:H1	1:AA:90:C:N4	2.01	0.51
1:AA:97:G:H2'	1:AA:98:A:O5'	2.10	0.51
1:AA:490:C:H2'	1:AA:491:G:O4'	2.10	0.51
1:AA:684:U:H2'	1:AA:685:G:O4'	2.10	0.51
1:AA:781:A:C4	1:AA:802:A:C2	2.98	0.51
1:AA:1066:C:H2'	1:AA:1066:C:O2	2.10	0.51
1:AA:1136:C:O4'	1:AA:1136:C:O2	2.29	0.51
2:AB:116:LEU:CG	2:AB:140:LEU:HD11	2.39	0.51
3:AC:7:ASN:O	3:AC:8:GLY:C	2.53	0.51
3:AC:106:ARG:HD3	3:AC:106:ARG:N	2.25	0.51
3:AC:109:GLU:HB2	3:AC:143:LEU:HD23	1.93	0.51
4:AD:10:LEU:HD21	4:AD:62:ARG:HD3	1.90	0.51
5:AE:154:ALA:HB1	8:AH:65:PHE:CE2	2.45	0.51
7:AG:86:VAL:O	7:AG:86:VAL:HG12	2.09	0.51
8:AH:111:THR:O	8:AH:114:ALA:HB3	2.09	0.51
9:AI:18:VAL:HG11	9:AI:82:ILE:HG12	1.92	0.51
9:AI:43:ALA:C	9:AI:45:MET:H	2.17	0.51
9:AI:83:THR:HB	9:AI:97:LEU:CD2	2.38	0.51
10:AJ:27:GLU:O	10:AJ:29:ALA:N	2.44	0.51
10:AJ:32:THR:CG2	10:AJ:83:THR:HA	2.39	0.51
11:AK:23:HIS:CD2	11:AK:23:HIS:C	2.88	0.51
15:AO:45:HIS:C	15:AO:47:LYS:H	2.17	0.51
16:AP:50:THR:O	16:AP:51:ARG:O	2.28	0.51
20:AT:16:ALA:O	20:AT:20:ASN:ND2	2.44	0.51
1:BA:15:G:C6	1:BA:16:A:C5	2.98	0.51
1:BA:186:C:O4'	20:BT:75:LYS:HD2	2.10	0.51
1:BA:474:G:C4	1:BA:475:C:C6	2.97	0.51
1:BA:671:G:C5	1:BA:672:U:C5	2.98	0.51
1:BA:694:A:H2'	1:BA:695:A:O5'	2.10	0.51
1:BA:711:G:O2'	1:BA:712:A:H5'	2.10	0.51
1:BA:908:A:H2'	1:BA:909:A:C8	2.45	0.51
1:BA:1242:G:H2'	1:BA:1243:C:O4'	2.09	0.51
1:BA:1298:U:O2	7:BG:113:LYS:HE2	2.09	0.51
1:BA:1345:U:C2	1:BA:1377:A:N1	2.78	0.51
1:BA:1472:U:H2'	1:BA:1473:G:O5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:66:THR:HG22	3:BC:67:ILE:H	1.73	0.51
4:BD:145:ARG:HB2	4:BD:147:LYS:HE2	1.90	0.51
5:BE:104:ILE:H	5:BE:121:ASN:CA	2.22	0.51
5:BE:152:VAL:O	5:BE:155:LYS:NZ	2.33	0.51
7:BG:106:ALA:HB1	7:BG:122:GLU:OE2	2.10	0.51
12:BL:18:SER:OG	12:BL:20:VAL:HG23	2.10	0.51
16:BP:19:VAL:CG1	16:BP:38:PHE:N	2.73	0.51
17:BQ:46:HIS:CG	17:BQ:47:ASP:H	2.28	0.51
21:BU:14:ALA:C	21:BU:15:LEU:HG	2.34	0.51
21:BU:23:GLU:O	21:BU:24:LYS:C	2.52	0.51
25:CA:277:G:C8	25:CA:361:G:O6	2.63	0.51
25:CA:473:G:H2'	25:CA:474:G:O5'	2.10	0.51
25:CA:1094:U:O2	25:CA:1096:A:N7	2.43	0.51
25:CA:1744:A:C2	25:CA:1745:A:H1'	2.45	0.51
25:CA:2093:G:C6	25:CA:2225:A:C8	2.98	0.51
25:CA:2627:G:O2'	25:CA:2781:A:N1	2.39	0.51
27:CC:216:ARG:HB3	27:CC:217:PRO:HD3	1.92	0.51
30:CF:56:LEU:HD13	30:CF:64:PRO:HB3	1.91	0.51
31:CG:130:ILE:HG22	31:CG:131:VAL:N	2.24	0.51
33:CI:14:ALA:HB1	33:CI:45:THR:HG23	1.92	0.51
43:CS:48:LYS:HE3	43:CS:52:GLU:OE2	2.10	0.51
46:CV:21:ARG:C	46:CV:23:ALA:H	2.18	0.51
50:CZ:6:ILE:CD1	50:CZ:47:ILE:HD11	2.40	0.51
54:C3:44:ARG:HH11	54:C3:44:ARG:HG3	1.74	0.51
25:DA:215:G:C4'	25:DA:216:A:H4'	2.40	0.51
25:DA:604:G:C5	25:DA:625:G:C2	2.98	0.51
25:DA:742:A:H2'	25:DA:743:A:C8	2.45	0.51
25:DA:1096:A:C2	25:DA:1097:U:C5	2.98	0.51
25:DA:1255:U:C5	29:DE:68:ALA:HA	2.45	0.51
25:DA:1394:U:H3'	25:DA:1394:U:C6	2.44	0.51
25:DA:1746:A:N3	25:DA:1747:U:C5	2.77	0.51
25:DA:1760:C:H2'	25:DA:1761:C:O4'	2.11	0.51
25:DA:1867:G:O2'	25:DA:1868:C:H5'	2.09	0.51
25:DA:2392:A:O2'	36:DL:60:ARG:O	2.28	0.51
25:DA:2403:C:C4	25:DA:2415:G:N1	2.78	0.51
25:DA:2469:A:O2'	37:DM:55:ARG:NH2	2.43	0.51
56:DB:50:A:OP1	39:DO:68:LYS:HG3	2.10	0.51
27:DC:83:ASP:HB3	27:DC:86:ARG:HG2	1.92	0.51
27:DC:118:GLY:O	27:DC:119:VAL:C	2.52	0.51
29:DE:147:LEU:HB3	29:DE:186:VAL:HG22	1.91	0.51
29:DE:178:VAL:HG13	29:DE:179:SER:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DG:97:VAL:CG2	31:DG:124:CYS:SG	2.99	0.51
36:DL:123:ARG:HG3	36:DL:143:GLU:CG	2.39	0.51
38:DN:50:PRO:HB2	38:DN:51:LEU:HD23	1.90	0.51
40:DP:6:GLN:C	40:DP:6:GLN:HE21	2.18	0.51
42:DR:54:VAL:O	42:DR:55:ASP:C	2.53	0.51
43:DS:36:LEU:CD1	43:DS:48:LYS:HB2	2.41	0.51
44:DT:87:LEU:O	44:DT:88:LYS:O	2.27	0.51
45:DU:94:PHE:CA	45:DU:102:ILE:HD12	2.40	0.51
46:DV:54:ALA:C	46:DV:56:PHE:H	2.16	0.51
49:DY:16:THR:O	49:DY:19:LEU:N	2.44	0.51
55:D4:7:VAL:C	55:D4:8:LYS:CG	2.83	0.51
1:AA:148:G:C2'	1:AA:149:A:O5'	2.59	0.51
1:AA:432:A:H2'	1:AA:433:G:O5'	2.11	0.51
1:AA:853:C:H2'	1:AA:854:U:C6	2.45	0.51
1:AA:891:U:C5	1:AA:906:A:C2	2.98	0.51
1:AA:1472:U:O2'	1:AA:1473:G:H5'	2.09	0.51
2:AB:8:MET:HB2	2:AB:43:GLU:OE2	2.09	0.51
3:AC:41:TYR:CZ	3:AC:89:VAL:HG21	2.45	0.51
4:AD:112:GLU:O	4:AD:115:GLN:HB3	2.10	0.51
4:AD:117:VAL:HA	4:AD:122:ILE:HD12	1.91	0.51
5:AE:81:GLN:HE22	5:AE:148:SER:HA	1.75	0.51
7:AG:144:ALA:O	7:AG:145:GLU:HB2	2.09	0.51
9:AI:98:ARG:HA	9:AI:103:VAL:HG21	1.92	0.51
11:AK:30:ILE:HD12	11:AK:31:VAL:N	2.24	0.51
11:AK:39:ASN:O	11:AK:40:ALA:CB	2.59	0.51
13:AM:28:ARG:NH1	13:AM:62:PHE:CB	2.73	0.51
1:BA:261:U:H5	20:BT:73:ARG:CZ	2.23	0.51
1:BA:782:A:C2'	1:BA:783:C:H5'	2.40	0.51
1:BA:840:C:C6	1:BA:842:U:H5"	2.44	0.51
1:BA:844:G:N3	1:BA:844:G:H2'	2.24	0.51
1:BA:1171:A:H2'	1:BA:1172:C:H6	1.75	0.51
1:BA:1308:U:H5"	13:BM:96:VAL:HG21	1.91	0.51
1:BA:1424:U:C4	1:BA:1425:U:C5	2.98	0.51
2:BB:69:VAL:HG22	2:BB:91:VAL:HG23	1.92	0.51
3:BC:161:ILE:O	3:BC:161:ILE:HD12	2.10	0.51
4:BD:53:GLN:HG2	4:BD:202:LEU:HB2	1.93	0.51
4:BD:98:ASP:OD1	4:BD:99:ASN:N	2.42	0.51
5:BE:9:GLU:O	5:BE:10:LEU:C	2.51	0.51
5:BE:82:HIS:HB2	5:BE:83:PRO:HD2	1.91	0.51
7:BG:41:ILE:HG23	7:BG:116:ALA:CA	2.40	0.51
8:BH:80:PRO:HA	8:BH:83:ARG:HE	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:96:ILE:HD12	11:BK:97:ARG:N	2.24	0.51
14:BN:17:ASP:O	14:BN:18:LYS:C	2.53	0.51
14:BN:41:ARG:HH22	14:BN:45:VAL:HG21	1.74	0.51
16:BP:51:ARG:HH11	16:BP:51:ARG:HB3	1.74	0.51
20:BT:14:GLU:OE2	20:BT:14:GLU:HA	2.10	0.51
25:CA:356:G:O2'	25:CA:357:C:H5'	2.10	0.51
25:CA:666:A:H2'	25:CA:667:U:C6	2.45	0.51
25:CA:1074:G:C2'	25:CA:1075:C:H5'	2.35	0.51
25:CA:1495:A:H2'	25:CA:1496:A:O5'	2.10	0.51
25:CA:1681:G:O2'	25:CA:1762:A:H1'	2.10	0.51
25:CA:1766:G:H2'	25:CA:1767:G:H8	1.74	0.51
25:CA:1860:G:C6	25:CA:1883:U:O2	2.63	0.51
25:CA:1917:U:C4	25:CA:1918:A:C5	2.99	0.51
25:CA:2784:U:H2'	25:CA:2785:C:C6	2.43	0.51
30:CF:24:VAL:O	30:CF:24:VAL:CG2	2.58	0.51
30:CF:110:ILE:HG12	30:CF:136:ILE:HG21	1.92	0.51
33:CI:79:LEU:CD2	33:CI:100:ILE:HD11	2.41	0.51
33:CI:122:GLU:C	33:CI:125:THR:HB	2.36	0.51
38:CN:74:GLU:HG2	38:CN:75:ILE:HD12	1.91	0.51
44:CT:2:ILE:HG23	44:CT:7:LEU:HD12	1.93	0.51
44:CT:28:ASN:HD21	44:CT:91:GLN:HB3	1.75	0.51
49:CY:9:LYS:HB3	49:CY:12:GLU:H	1.76	0.51
49:CY:28:LEU:CD2	49:CY:37:LEU:HD21	2.40	0.51
25:DA:354:A:C6	25:DA:355:U:C4	2.98	0.51
25:DA:359:G:H2'	25:DA:360:U:H5'	1.92	0.51
25:DA:630:G:H3'	25:DA:631:A:H5"	1.92	0.51
25:DA:716:A:H3'	25:DA:717:C:H5"	1.93	0.51
25:DA:847:U:O2	25:DA:847:U:H2'	2.11	0.51
25:DA:1505:A:H2'	25:DA:1506:U:C6	2.44	0.51
25:DA:1746:A:C2	25:DA:1747:U:C4	2.99	0.51
25:DA:2119:A:H3'	25:DA:2120:G:C5'	2.40	0.51
25:DA:2298:A:H2'	25:DA:2299:U:C6	2.45	0.51
25:DA:2299:U:H2'	25:DA:2300:C:H6	1.76	0.51
25:DA:2314:A:C2	25:DA:2315:G:C5	2.99	0.51
25:DA:2415:G:N3	25:DA:2416:C:C6	2.78	0.51
27:DC:112:GLY:O	27:DC:113:ASP:C	2.52	0.51
28:DD:4:LEU:HD23	28:DD:29:VAL:HG11	1.91	0.51
29:DE:46:GLN:HB3	29:DE:83:VAL:HG21	1.92	0.51
31:DG:26:LYS:HB3	31:DG:31:GLU:OE2	2.10	0.51
32:DH:129:GLU:OE2	32:DH:141:LYS:HB3	2.11	0.51
33:DI:45:THR:HG22	33:DI:50:LYS:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DI:120:ASP:OD2	33:DI:122:GLU:HB3	2.10	0.51
36:DL:117:THR:O	36:DL:118:THR:C	2.53	0.51
37:DM:41:LEU:HD12	37:DM:96:ILE:CD1	2.40	0.51
37:DM:51:ARG:O	37:DM:52:ALA:C	2.53	0.51
42:DR:14:VAL:HA	42:DR:18:GLN:NE2	2.25	0.51
49:DY:11:VAL:O	49:DY:11:VAL:HG12	2.08	0.51
52:D1:46:VAL:HG12	52:D1:47:ILE:N	2.25	0.51
1:AA:284:C:H2'	1:AA:285:C:C6	2.46	0.51
1:AA:383:A:H2'	1:AA:384:G:O4'	2.11	0.51
1:AA:541:G:C2	1:AA:542:G:C4	2.98	0.51
1:AA:1140:C:O2'	1:AA:1141:C:P	2.68	0.51
1:AA:1293:C:C4	1:AA:1294:G:N7	2.78	0.51
2:AB:116:LEU:HB3	2:AB:140:LEU:HD11	1.93	0.51
3:AC:204:GLY:O	3:AC:205:GLU:HG2	2.10	0.51
4:AD:33:ILE:HG12	4:AD:34:GLU:HB2	1.91	0.51
5:AE:131:ASN:HD22	5:AE:132:PRO:N	2.09	0.51
6:AF:21:MET:HA	6:AF:24:ARG:NH2	2.25	0.51
6:AF:43:GLY:HA2	6:AF:58:HIS:CD2	2.45	0.51
8:AH:77:VAL:HG11	8:AH:124:ILE:HD11	1.91	0.51
9:AI:18:VAL:HG11	9:AI:82:ILE:CG1	2.40	0.51
9:AI:27:ILE:HG23	9:AI:62:LEU:HD23	1.92	0.51
10:AJ:27:GLU:C	10:AJ:29:ALA:H	2.17	0.51
12:AL:55:ARG:HH21	12:AL:55:ARG:HG3	1.75	0.51
14:AN:35:ALA:CA	14:AN:41:ARG:HB3	2.40	0.51
14:AN:41:ARG:HB2	14:AN:42:TRP:CE3	2.44	0.51
16:AP:10:GLY:HA3	16:AP:15:PRO:HA	1.92	0.51
17:AQ:3:LYS:C	17:AQ:4:ILE:HD12	2.36	0.51
20:AT:35:TYR:HA	20:AT:38:ILE:CD1	2.40	0.51
21:AU:18:PHE:C	21:AU:19:LYS:HE2	2.35	0.51
1:BA:70:U:H1'	1:BA:71:A:N7	2.26	0.51
1:BA:359:G:H2'	1:BA:360:G:O4'	2.11	0.51
1:BA:588:G:C6	1:BA:589:U:N3	2.79	0.51
1:BA:680:C:O2'	1:BA:681:A:H5'	2.10	0.51
1:BA:857:C:C2'	1:BA:858:G:O5'	2.58	0.51
1:BA:980:C:H2'	1:BA:981:U:H5'	1.91	0.51
1:BA:1145:A:H4'	1:BA:1145:A:OP1	2.08	0.51
1:BA:1223:C:P	19:BS:77:ARG:HH12	2.33	0.51
1:BA:1266:G:N1	1:BA:1270:G:C6	2.78	0.51
1:BA:1358:U:H2'	1:BA:1359:C:O4'	2.10	0.51
2:BB:70:GLY:HA3	2:BB:163:ILE:CG2	2.40	0.51
4:BD:74:TYR:O	4:BD:78:ALA:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:98:LEU:HD22	7:BG:102:TRP:CZ2	2.45	0.51
9:BI:42:THR:O	9:BI:43:ALA:C	2.52	0.51
10:BJ:26:VAL:HG12	10:BJ:27:GLU:N	2.24	0.51
10:BJ:28:THR:HG21	10:BJ:90:LEU:HD12	1.92	0.51
11:BK:32:THR:OG1	11:BK:43:TRP:HB3	2.09	0.51
18:BR:24:ASP:C	18:BR:26:ALA:N	2.65	0.51
21:BU:35:GLU:HA	21:BU:35:GLU:OE1	2.10	0.51
21:BU:52:VAL:HG13	21:BU:53:LYS:H	1.74	0.51
25:CA:18:U:O3'	41:CQ:22:GLY:HA2	2.11	0.51
25:CA:89:A:O2'	25:CA:90:U:H5'	2.10	0.51
25:CA:720:U:H2'	25:CA:720:U:O2	2.10	0.51
25:CA:1106:G:H2'	25:CA:1106:G:N3	2.26	0.51
25:CA:1463:C:H5'	25:CA:1463:C:H6	1.74	0.51
25:CA:1534:U:H5'	25:CA:1535:A:OP2	2.09	0.51
25:CA:2108:A:C6	25:CA:2109:U:C2	2.98	0.51
25:CA:2748:A:C1'	31:CG:66:THR:HG22	2.39	0.51
29:CE:198:GLU:O	29:CE:199:MET:C	2.54	0.51
32:CH:126:GLY:O	32:CH:145:ASN:HA	2.10	0.51
35:CK:87:LEU:HD23	35:CK:94:PRO:HA	1.92	0.51
36:CL:99:ASN:CG	60:CL:202:HOH:O	2.53	0.51
38:CN:51:LEU:O	38:CN:54:LEU:HB3	2.10	0.51
39:CO:31:THR:HB	39:CO:34:HIS:H	1.75	0.51
46:CV:2:PHE:CD1	46:CV:50:MET:CE	2.93	0.51
47:CW:13:GLU:O	47:CW:15:LYS:HE2	2.09	0.51
25:DA:7:G:C6	25:DA:8:C:C4	2.99	0.51
25:DA:223:A:C8	25:DA:422:A:C1'	2.94	0.51
25:DA:272:A:C6	25:DA:273:G:C6	2.98	0.51
25:DA:583:G:C5	25:DA:584:C:C5	2.98	0.51
25:DA:801:G:H4'	25:DA:802:A:OP2	2.10	0.51
25:DA:970:U:O5'	25:DA:970:U:H6	1.93	0.51
25:DA:1340:U:C5	25:DA:1603:A:C8	2.98	0.51
25:DA:1378:A:O2'	25:DA:1380:G:N7	2.42	0.51
25:DA:1386:C:H2'	25:DA:1387:A:C8	2.45	0.51
25:DA:1578:U:C2'	25:DA:1579:A:O5'	2.57	0.51
25:DA:1812:U:O2	25:DA:1812:U:C2'	2.54	0.51
25:DA:2059:A:O3'	29:DE:64:GLY:HA2	2.10	0.51
25:DA:2338:C:C2	25:DA:2339:C:H5	2.28	0.51
25:DA:2720:U:OP1	40:DP:52:ARG:NH2	2.44	0.51
28:DD:139:SER:HA	28:DD:142:VAL:HG13	1.91	0.51
40:DP:7:LEU:O	40:DP:7:LEU:CD2	2.58	0.51
41:DQ:71:ASN:HB3	41:DQ:109:VAL:HG11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D0:54:ILE:O	51:D0:55:ALA:HB3	2.11	0.51
1:AA:108:G:N3	1:AA:108:G:H5'	2.25	0.51
1:AA:491:G:N3	1:AA:491:G:H2'	2.23	0.51
1:AA:874:G:C4	1:AA:875:U:C5	2.98	0.51
1:AA:994:A:C8	1:AA:1216:A:H4'	2.46	0.51
1:AA:1112:C:O2	3:AC:178:ARG:HG3	2.10	0.51
1:AA:1286:U:C6	1:AA:1286:U:OP1	2.63	0.51
1:AA:1332:A:H2'	1:AA:1333:A:O5'	2.10	0.51
4:AD:125:ASN:HA	4:AD:141:VAL:HG22	1.93	0.51
4:AD:131:ILE:HD12	4:AD:131:ILE:O	2.10	0.51
5:AE:93:VAL:HG21	5:AE:110:MET:HE1	1.92	0.51
7:AG:134:VAL:O	7:AG:138:GLU:HG2	2.10	0.51
9:AI:129:ARG:NH1	22:AV:35:A:OP1	2.44	0.51
10:AJ:56:HIS:O	10:AJ:57:VAL:CG1	2.59	0.51
11:AK:85:VAL:CG1	11:AK:92:ARG:NH1	2.73	0.51
15:AO:78:THR:O	15:AO:82:GLU:OE1	2.29	0.51
24:AY:107:THR:OG1	24:AY:108:GLU:N	2.43	0.51
1:BA:111:G:O6	1:BA:330:C:N4	2.43	0.51
1:BA:512:U:H2'	1:BA:513:C:C6	2.46	0.51
1:BA:626:G:C2'	1:BA:627:G:O5'	2.59	0.51
1:BA:969:A:H2'	1:BA:970:C:H6	1.74	0.51
1:BA:1149:C:H6	1:BA:1149:C:O5'	1.94	0.51
1:BA:1236:A:H4'	1:BA:1304:G:H5'	1.91	0.51
1:BA:1441:A:C8	1:BA:1441:A:C3'	2.93	0.51
3:BC:37:LYS:O	3:BC:37:LYS:HG3	2.11	0.51
3:BC:73:GLY:O	3:BC:75:VAL:N	2.44	0.51
4:BD:55:ARG:HA	4:BD:55:ARG:HH11	1.75	0.51
4:BD:168:THR:CG2	4:BD:183:ARG:NH2	2.74	0.51
7:BG:41:ILE:HG23	7:BG:116:ALA:CB	2.41	0.51
9:BI:117:LEU:HD23	9:BI:120:ALA:C	2.35	0.51
12:BL:49:ARG:CG	12:BL:89:LEU:HD11	2.40	0.51
13:BM:26:LYS:O	13:BM:26:LYS:HD3	2.10	0.51
13:BM:59:VAL:HG22	13:BM:60:ALA:N	2.24	0.51
17:BQ:37:ILE:HG22	17:BQ:38:LYS:O	2.10	0.51
25:CA:181:A:C2	25:CA:182:A:C4	2.99	0.51
25:CA:324:A:H2'	25:CA:325:G:O5'	2.10	0.51
25:CA:878:A:N7	25:CA:899:A:H2	2.09	0.51
25:CA:1056:G:HO2'	25:CA:1086:A:H8	1.53	0.51
25:CA:1439:A:C2'	25:CA:1440:U:H5'	2.41	0.51
25:CA:1533:C:H5'	25:CA:1534:U:OP2	2.10	0.51
25:CA:1851:U:C2'	25:CA:1852:U:O5'	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:10:PRO:O	27:CC:11:GLY:C	2.52	0.51
29:CE:48:THR:C	29:CE:50:ALA:N	2.68	0.51
29:CE:53:THR:HG22	29:CE:53:THR:O	2.09	0.51
30:CF:26:GLN:O	30:CF:27:VAL:C	2.52	0.51
33:CI:45:THR:HG22	33:CI:50:LYS:HG3	1.92	0.51
35:CK:51:LYS:HD3	35:CK:95:ILE:HG22	1.92	0.51
44:CT:2:ILE:HG12	44:CT:7:LEU:HD11	1.92	0.51
46:CV:16:ALA:N	46:CV:19:ARG:HH21	2.09	0.51
47:CW:6:THR:O	47:CW:7:ARG:CB	2.58	0.51
53:C2:30:VAL:O	53:C2:31:LEU:C	2.52	0.51
25:DA:136:G:H2'	25:DA:137:U:C5	2.45	0.51
25:DA:149:A:C4	25:DA:150:U:C5	2.99	0.51
25:DA:239:C:C4	25:DA:240:C:N3	2.78	0.51
25:DA:323:C:N4	25:DA:333:G:N7	2.59	0.51
25:DA:359:G:C6	25:DA:360:U:O2	2.63	0.51
25:DA:536:G:C2'	25:DA:537:G:O5'	2.59	0.51
25:DA:664:G:C5	25:DA:665:U:C5	2.99	0.51
25:DA:1073:A:H3'	25:DA:1074:G:C5'	2.40	0.51
25:DA:1195:G:H2'	25:DA:1196:C:H5'	1.91	0.51
25:DA:1358:G:H2'	25:DA:1359:A:OP2	2.10	0.51
25:DA:1441:G:C2	25:DA:1442:U:C4	2.98	0.51
25:DA:1777:U:C2'	25:DA:1778:U:H5'	2.41	0.51
25:DA:2207:C:C2	25:DA:2208:C:C5	2.98	0.51
25:DA:2573:C:P	60:DA:3716:HOH:O	2.68	0.51
25:DA:2579:C:H2'	25:DA:2580:U:H5'	1.92	0.51
25:DA:2584:U:H2'	25:DA:2585:U:H5'	1.92	0.51
25:DA:2660:A:H2'	25:DA:2661:G:O4'	2.11	0.51
25:DA:2804:U:H2'	25:DA:2805:C:C6	2.45	0.51
25:DA:2818:U:O2'	25:DA:2837:A:H5'	2.09	0.51
31:DG:122:ALA:HB2	31:DG:132:LEU:HB3	1.92	0.51
40:DP:32:VAL:O	40:DP:32:VAL:CG1	2.58	0.51
40:DP:63:ILE:HA	40:DP:68:GLY:HA2	1.91	0.51
44:DT:40:LYS:HG2	44:DT:58:VAL:O	2.10	0.51
45:DU:94:PHE:HA	45:DU:102:ILE:CD1	2.41	0.51
46:DV:26:PHE:CE2	46:DV:44:HIS:HA	2.45	0.51
57:DW:11:ASP:OD2	57:DW:12:SER:N	2.43	0.51
52:D1:42:VAL:O	52:D1:43:ARG:HB2	2.11	0.51
55:D4:17:VAL:CB	55:D4:26:ILE:HD11	2.38	0.51
1:AA:87:C:H2'	1:AA:88:U:H5'	1.92	0.51
1:AA:449:G:O2'	1:AA:450:G:H5'	2.10	0.51
1:AA:663:A:H5'	1:AA:836:G:OP1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:866:C:H4'	1:AA:919:A:H5'	1.92	0.51
1:AA:893:C:H2'	1:AA:894:G:H8	1.75	0.51
1:AA:1008:U:C2	1:AA:1022:A:C2	2.99	0.51
1:AA:1082:A:C2	1:AA:1083:U:O2	2.64	0.51
1:AA:1269:A:C2	1:AA:1313:U:H1'	2.46	0.51
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.46	0.51
1:AA:1411:C:H2'	1:AA:1412:C:H6	1.76	0.51
2:AB:90:PHE:N	2:AB:149:GLY:HA3	2.23	0.51
2:AB:151:LYS:HG3	2:AB:152:ASP:N	2.25	0.51
3:AC:16:PRO:O	3:AC:17:TRP:CB	2.59	0.51
4:AD:121:ALA:N	4:AD:122:ILE:HD13	2.24	0.51
4:AD:129:VAL:HG11	4:AD:134:TYR:CD1	2.45	0.51
4:AD:173:ASP:CB	4:AD:176:LYS:HB2	2.41	0.51
5:AE:37:VAL:HG23	5:AE:47:PHE:CA	2.40	0.51
6:AF:81:ASN:O	6:AF:84:VAL:HG12	2.11	0.51
7:AG:59:GLU:O	7:AG:63:VAL:HG23	2.10	0.51
7:AG:91:ARG:HE	7:AG:93:VAL:HG23	1.74	0.51
9:AI:46:VAL:HA	9:AI:49:GLN:HG3	1.91	0.51
9:AI:87:MET:CG	9:AI:88:GLU:N	2.72	0.51
13:AM:18:LEU:HG	13:AM:33:LEU:CD1	2.41	0.51
13:AM:85:TYR:HA	13:AM:88:LEU:HD12	1.91	0.51
16:AP:76:LYS:O	16:AP:77:GLU:HB2	2.09	0.51
20:AT:47:GLN:C	20:AT:47:GLN:HE21	2.19	0.51
21:AU:4:LYS:HD2	21:AU:4:LYS:O	2.09	0.51
24:AY:149:ILE:HG23	24:AY:153:ASP:HB2	1.92	0.51
1:BA:16:A:C6	1:BA:17:U:C5	2.98	0.51
1:BA:427:U:H2'	1:BA:428:G:C8	2.46	0.51
1:BA:451:A:H4'	1:BA:452:A:O4'	2.10	0.51
1:BA:723:U:C4	21:BU:49:ALA:HA	2.46	0.51
1:BA:1087:G:C2	1:BA:1088:G:N7	2.78	0.51
1:BA:1113:C:H2'	1:BA:1114:C:H6	1.74	0.51
1:BA:1149:C:HO2'	1:BA:1280:A:H2	1.57	0.51
1:BA:1317:C:H2'	1:BA:1318:A:O5'	2.11	0.51
1:BA:1361:G:C6	1:BA:1362:A:N7	2.79	0.51
1:BA:1381:U:C6	1:BA:1382:C:C5	2.98	0.51
1:BA:1538:C:H2'	1:BA:1539:C:C5	2.45	0.51
4:BD:27:ILE:O	4:BD:28:ASP:C	2.54	0.51
5:BE:80:LEU:HA	5:BE:146:MET:CE	2.41	0.51
9:BI:50:PRO:HD3	9:BI:79:ARG:HG2	1.93	0.51
11:BK:21:HIS:ND1	11:BK:34:THR:HG21	2.26	0.51
22:BV:23:A:H2'	22:BV:24:G:C8	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1059:G:H3'	25:CA:1060:U:H6	1.76	0.51
25:CA:1816:C:C5	27:CC:61:TYR:CE1	2.99	0.51
25:CA:1922:G:C4	25:CA:1923:U:C6	2.98	0.51
25:CA:2179:C:C4	25:CA:2180:U:C5	2.98	0.51
25:CA:2230:G:H4'	48:CX:29:LEU:HB2	1.92	0.51
25:CA:2469:A:C4'	37:CM:55:ARG:HH22	2.22	0.51
25:CA:2881:U:C2'	25:CA:2882:A:O5'	2.59	0.51
27:CC:195:GLY:O	27:CC:196:ASN:C	2.52	0.51
30:CF:36:ASN:CG	30:CF:37:MET:N	2.68	0.51
30:CF:51:ASN:O	30:CF:52:ALA:C	2.53	0.51
33:CI:71:LYS:N	33:CI:71:LYS:HD3	2.25	0.51
34:CJ:18:VAL:HG12	34:CJ:19:ASP:N	2.25	0.51
54:C3:54:LEU:O	54:C3:58:ILE:HD12	2.10	0.51
25:DA:237:C:C2'	25:DA:238:C:H5'	2.41	0.51
25:DA:246:C:H2'	25:DA:247:G:H5'	1.93	0.51
25:DA:276:U:H2'	25:DA:277:G:O5'	2.09	0.51
25:DA:783:A:H8	25:DA:784:G:H4'	1.74	0.51
25:DA:1269:A:H2'	25:DA:1270:C:H6	1.73	0.51
25:DA:1313:U:H4'	25:DA:1332:G:H4'	1.91	0.51
25:DA:1447:C:H1'	25:DA:1545:A:H1'	1.92	0.51
25:DA:1485:U:H2'	25:DA:1486:U:C6	2.45	0.51
25:DA:1495:A:H2'	25:DA:1496:A:C8	2.45	0.51
25:DA:1532:A:C6	25:DA:1533:C:N3	2.78	0.51
25:DA:1779:U:C4	25:DA:1784:A:N7	2.78	0.51
25:DA:1883:U:C4	25:DA:1884:G:C6	2.98	0.51
25:DA:2324:U:OP2	25:DA:2324:U:H6	1.93	0.51
25:DA:2337:G:C4	25:DA:2338:C:C5	2.99	0.51
25:DA:2376:A:N3	39:DO:99:TYR:CE2	2.78	0.51
25:DA:2631:G:O2'	25:DA:2810:A:N1	2.35	0.51
25:DA:2822:G:O6	38:DN:2:ARG:CG	2.57	0.51
27:DC:29:PHE:CE2	27:DC:31:PRO:HG2	2.45	0.51
27:DC:231:HIS:HA	27:DC:241:LYS:HE3	1.92	0.51
31:DG:88:LEU:HB3	31:DG:93:TYR:HB3	1.92	0.51
31:DG:100:ASN:O	31:DG:116:LEU:HB2	2.10	0.51
34:DJ:35:ARG:HG2	34:DJ:40:HIS:CD2	2.46	0.51
44:DT:7:LEU:HD21	44:DT:46:ALA:HB2	1.93	0.51
44:DT:7:LEU:HD21	44:DT:46:ALA:N	2.25	0.51
44:DT:18:GLU:O	44:DT:19:LYS:C	2.52	0.51
44:DT:69:ARG:HB2	44:DT:74:ILE:CG2	2.40	0.51
45:DU:8:ASP:HB3	45:DU:24:VAL:CG2	2.40	0.51
46:DV:43:ASP:OD1	46:DV:43:ASP:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DV:65:VAL:HG22	46:DV:65:VAL:O	2.10	0.51
52:D1:6:GLU:OE2	52:D1:26:LYS:HB2	2.11	0.51
1:AA:29:U:H5'	1:AA:296:U:OP1	2.11	0.51
1:AA:112:G:C2'	1:AA:113:G:H5'	2.40	0.51
1:AA:830:G:O2'	1:AA:831:A:H5'	2.11	0.51
1:AA:864:A:H3'	1:AA:865:A:C8	2.45	0.51
1:AA:880:C:O2'	1:AA:881:G:H5'	2.10	0.51
1:AA:1103:C:H2'	1:AA:1104:G:O5'	2.10	0.51
1:AA:1380:U:N3	7:AG:2:ARG:HD3	2.26	0.51
2:AB:81:ASP:N	2:AB:84:LEU:HB3	2.26	0.51
9:AI:38:PHE:HA	9:AI:41:GLU:CD	2.36	0.51
10:AJ:59:LYS:C	10:AJ:59:LYS:CD	2.82	0.51
14:AN:57:PRO:C	14:AN:59:ARG:H	2.18	0.51
19:AS:43:MET:O	19:AS:44:ILE:C	2.54	0.51
20:AT:53:MET:HE3	20:AT:54:GLN:CA	2.41	0.51
1:BA:69:G:C6	1:BA:70:U:O4	2.64	0.51
1:BA:163:C:O2	1:BA:163:C:H2'	2.11	0.51
1:BA:468:A:H2'	1:BA:469:C:O5'	2.11	0.51
1:BA:489:C:C2	1:BA:490:C:C5	2.99	0.51
1:BA:560:A:C5	5:BE:127:TYR:CE2	2.99	0.51
1:BA:633:G:O2'	1:BA:634:C:H5'	2.11	0.51
1:BA:1055:A:C6	1:BA:1206:G:C5	2.99	0.51
1:BA:1182:G:H5'	1:BA:1184:G:H5"	1.91	0.51
1:BA:1231:G:C2	1:BA:1232:U:O2	2.63	0.51
1:BA:1251:A:H1'	1:BA:1369:C:O2'	2.10	0.51
2:BB:67:LEU:HD13	2:BB:160:LEU:CD1	2.41	0.51
4:BD:3:TYR:C	4:BD:4:LEU:HD13	2.36	0.51
4:BD:186:GLU:HB2	4:BD:189:ASP:OD1	2.10	0.51
5:BE:96:GLN:HE21	5:BE:97:PRO:HD2	1.76	0.51
5:BE:106:ALA:CB	5:BE:124:ALA:CB	2.88	0.51
7:BG:26:VAL:HG23	7:BG:27:ASN:H	1.75	0.51
7:BG:102:TRP:HZ3	7:BG:137:ARG:HB2	1.75	0.51
7:BG:145:GLU:HA	7:BG:148:LYS:HB2	1.93	0.51
8:BH:41:GLU:CD	8:BH:41:GLU:C	2.77	0.51
8:BH:76:ARG:O	8:BH:77:VAL:HG23	2.10	0.51
9:BI:18:VAL:HG21	9:BI:82:ILE:N	2.25	0.51
10:BJ:29:ALA:HB1	10:BJ:76:ILE:HD13	1.92	0.51
11:BK:13:LYS:HD2	11:BK:14:GLN:O	2.11	0.51
11:BK:79:LYS:O	11:BK:105:ARG:HB3	2.10	0.51
14:BN:51:LEU:O	14:BN:53:ARG:N	2.44	0.51
25:CA:17:G:H2'	25:CA:18:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:282:A:H2'	25:CA:283:G:C8	2.46	0.51
25:CA:782:A:H4'	25:CA:783:A:O5'	2.11	0.51
25:CA:1176:U:H2'	25:CA:1177:G:C8	2.46	0.51
25:CA:1712:U:C4	25:CA:1713:A:C5	2.99	0.51
25:CA:2312:U:H6	25:CA:2312:U:H3'	1.74	0.51
27:CC:259:ASN:O	27:CC:261:ARG:N	2.43	0.51
28:CD:39:ASP:OD2	28:CD:40:LEU:N	2.44	0.51
28:CD:104:VAL:O	28:CD:105:LYS:HB2	2.11	0.51
28:CD:119:ALA:O	28:CD:162:ALA:HB1	2.10	0.51
32:CH:37:VAL:HG23	32:CH:38:PRO:CD	2.41	0.51
32:CH:116:ARG:HG3	32:CH:133:GLN:OE1	2.11	0.51
33:CI:10:LEU:HD12	33:CI:23:VAL:HG12	1.91	0.51
33:CI:57:VAL:O	33:CI:68:PHE:HB2	2.11	0.51
33:CI:99:LYS:HB3	33:CI:138:VAL:HB	1.92	0.51
44:CT:1:MET:CB	44:CT:2:ILE:HD12	2.41	0.51
49:CY:45:GLN:O	49:CY:46:VAL:CB	2.58	0.51
51:C0:52:LYS:HE2	51:C0:55:ALA:HA	1.92	0.51
25:DA:712:G:N3	25:DA:712:G:H2'	2.26	0.51
25:DA:898:C:H2'	25:DA:899:A:H5'	1.92	0.51
25:DA:987:C:O2'	25:DA:1000:A:N3	2.40	0.51
25:DA:1277:G:C5'	38:DN:20:MET:CE	2.87	0.51
25:DA:1874:C:H3'	25:DA:1875:G:H8	1.76	0.51
25:DA:1982:U:O2	25:DA:1982:U:H2'	2.09	0.51
25:DA:2142:A:C2	25:DA:2150:C:N3	2.79	0.51
25:DA:2195:U:N3	25:DA:2196:C:C5	2.79	0.51
56:DB:59:A:C6	56:DB:60:C:C4	2.98	0.51
27:DC:120:ASP:CG	27:DC:121:ALA:H	2.18	0.51
34:DJ:66:GLY:C	34:DJ:68:LYS:H	2.19	0.51
35:DK:69:VAL:O	35:DK:69:VAL:HG23	2.10	0.51
36:DL:51:GLU:OE1	54:D3:56:LEU:HD13	2.10	0.51
36:DL:54:GLN:O	36:DL:55:MET:C	2.54	0.51
36:DL:56:PRO:O	36:DL:60:ARG:HB3	2.11	0.51
44:DT:69:ARG:CG	44:DT:74:ILE:HG22	2.40	0.51
45:DU:35:VAL:O	45:DU:36:GLU:C	2.54	0.51
57:DW:46:ASN:C	57:DW:58:LYS:HB2	2.36	0.51
50:DZ:6:ILE:CG2	50:DZ:28:LEU:HD11	2.41	0.51
1:AA:66:A:H2'	1:AA:67:C:H5'	1.91	0.51
1:AA:495:A:O4'	1:AA:496:A:C8	2.64	0.51
1:AA:646:G:C6	1:AA:647:C:N4	2.79	0.51
1:AA:892:A:C6	1:AA:893:C:C4	2.98	0.51
1:AA:1310:G:O6	1:AA:1327:C:N4	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.46	0.51
2:AB:63:LYS:HD3	2:AB:63:LYS:C	2.33	0.51
2:AB:63:LYS:NZ	2:AB:87:ASP:OD1	2.44	0.51
2:AB:70:GLY:CA	2:AB:163:ILE:CG2	2.89	0.51
2:AB:95:TRP:CH2	2:AB:99:MET:HG2	2.45	0.51
2:AB:224:ARG:O	2:AB:224:ARG:HG2	2.10	0.51
3:AC:140:ALA:O	3:AC:145:ALA:HB3	2.10	0.51
4:AD:54:LEU:CD2	4:AD:55:ARG:N	2.74	0.51
5:AE:132:PRO:HA	5:AE:135:VAL:HG13	1.92	0.51
8:AH:82:LEU:HD23	17:AQ:35:LYS:HA	1.92	0.51
8:AH:123:GLU:HG2	8:AH:125:ILE:HD12	1.92	0.51
10:AJ:29:ALA:HA	10:AJ:32:THR:CG2	2.34	0.51
11:AK:15:VAL:HG13	11:AK:16:SER:H	1.74	0.51
11:AK:58:THR:HB	11:AK:59:PRO:HD2	1.92	0.51
13:AM:13:HIS:CD2	13:AM:41:ASP:HB2	2.46	0.51
13:AM:110:GLY:O	13:AM:111:PRO:C	2.54	0.51
14:AN:43:ASN:OD1	14:AN:47:LYS:CE	2.59	0.51
20:AT:47:GLN:NE2	20:AT:47:GLN:O	2.43	0.51
22:AV:17:C:C6	22:AV:17:C:C3'	2.94	0.51
1:BA:108:G:N3	1:BA:108:G:C5'	2.74	0.51
1:BA:338:A:H2'	1:BA:339:C:H6	1.75	0.51
1:BA:399:G:H2'	1:BA:400:C:C6	2.45	0.51
1:BA:622:A:H3'	1:BA:623:C:C6	2.45	0.51
1:BA:1177:G:O6	1:BA:1178:G:C2	2.63	0.51
1:BA:1177:G:C6	1:BA:1178:G:C4	2.98	0.51
1:BA:1240:U:H3'	1:BA:1241:G:H5'	1.91	0.51
2:BB:48:MET:HA	2:BB:48:MET:HE3	1.92	0.51
8:BH:48:PHE:C	8:BH:48:PHE:CD1	2.88	0.51
9:BI:25:GLY:H	9:BI:58:GLU:HA	1.75	0.51
13:BM:53:ASP:HA	13:BM:56:ARG:CB	2.33	0.51
15:BO:80:LEU:CD1	15:BO:84:LEU:HD22	2.41	0.51
19:BS:38:THR:HG23	19:BS:69:LYS:HD3	1.93	0.51
22:BV:63:G:H2'	22:BV:64:A:C8	2.45	0.51
25:CA:31:C:H2'	25:CA:32:C:H5'	1.92	0.51
25:CA:84:A:H5"	45:CU:5:ARG:HD3	1.91	0.51
25:CA:246:C:H2'	25:CA:247:G:C5'	2.41	0.51
25:CA:674:G:OP2	60:CA:3333:HOH:O	2.19	0.51
25:CA:709:U:H2'	25:CA:710:U:C6	2.46	0.51
25:CA:1045:C:C3'	25:CA:1046:A:H5'	2.40	0.51
25:CA:1078:U:H1'	25:CA:1088:A:N1	2.24	0.51
25:CA:1138:G:H5"	25:CA:1139:G:OP2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2330:G:O3'	47:CW:40:LYS:HE3	2.10	0.51
25:CA:2582:G:C2	25:CA:2583:G:C8	2.98	0.51
27:CC:226:PRO:HD3	27:CC:233:GLY:CA	2.37	0.51
32:CH:24:GLY:O	32:CH:27:ARG:O	2.29	0.51
32:CH:33:GLN:O	32:CH:34:GLY:O	2.29	0.51
33:CI:98:GLY:O	33:CI:138:VAL:HG23	2.11	0.51
39:CO:24:THR:CG2	39:CO:42:PRO:HG3	2.40	0.51
47:CW:71:LYS:O	47:CW:72:ASN:HB2	2.11	0.51
50:CZ:23:LEU:HD11	50:CZ:53:MET:CE	2.41	0.51
25:DA:184:C:H2'	25:DA:185:G:C8	2.45	0.51
25:DA:686:U:H1'	53:D2:6:GLN:O	2.11	0.51
25:DA:1028:A:N3	25:DA:2486:C:O2'	2.38	0.51
25:DA:1117:C:H2'	25:DA:1117:C:O2	2.10	0.51
25:DA:1220:G:H2'	25:DA:1221:C:O5'	2.10	0.51
25:DA:1361:G:C6	25:DA:1371:G:N2	2.79	0.51
25:DA:1429:G:N3	25:DA:1568:G:C2	2.79	0.51
25:DA:1469:A:N1	25:DA:1470:A:C6	2.78	0.51
25:DA:1483:G:N3	25:DA:1484:U:C6	2.79	0.51
25:DA:1581:G:C2'	25:DA:1582:C:O5'	2.59	0.51
25:DA:1635:A:C2	25:DA:1636:U:H1'	2.46	0.51
25:DA:2197:U:C5	25:DA:2224:G:C6	2.99	0.51
25:DA:2209:G:C5	25:DA:2210:U:C5	2.99	0.51
56:DB:29:A:OP2	39:DO:31:THR:HG23	2.11	0.51
28:DD:57:ALA:O	28:DD:60:VAL:HG12	2.10	0.51
30:DF:33:ILE:N	30:DF:90:LEU:O	2.43	0.51
30:DF:74:ALA:O	30:DF:75:GLY:C	2.53	0.51
31:DG:61:TRP:O	31:DG:64:ALA:HB3	2.11	0.51
32:DH:32:PRO:O	32:DH:33:GLN:HB2	2.09	0.51
34:DJ:80:HIS:C	34:DJ:81:ILE:CG2	2.84	0.51
35:DK:115:ILE:O	35:DK:118:LEU:O	2.29	0.51
36:DL:111:ILE:N	36:DL:111:ILE:CD1	2.74	0.51
37:DM:22:GLN:O	37:DM:24:THR:N	2.44	0.51
38:DN:52:ILE:O	38:DN:53:THR:C	2.54	0.51
44:DT:40:LYS:HG3	44:DT:60:THR:HG23	1.91	0.51
1:AA:497:G:H2'	1:AA:498:A:C8	2.45	0.51
1:AA:1539:C:O3'	21:AU:17:ARG:HG2	2.10	0.51
2:AB:16:GLY:HA2	2:AB:40:ILE:HG23	1.91	0.51
2:AB:209:VAL:HG23	2:AB:210:THR:H	1.74	0.51
4:AD:35:GLN:O	4:AD:36:ALA:HB2	2.11	0.51
4:AD:169:TRP:HB2	4:AD:183:ARG:HG3	1.92	0.51
5:AE:15:ILE:O	5:AE:16:ALA:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:37:HIS:CD2	6:AF:37:HIS:N	2.79	0.51
6:AF:62:MET:O	6:AF:63:ASN:HB2	2.10	0.51
8:AH:35:ILE:CD1	8:AH:125:ILE:HG21	2.41	0.51
9:AI:40:ARG:H	9:AI:44:ARG:CB	2.24	0.51
15:AO:3:SER:HB2	15:AO:6:ALA:HB2	1.92	0.51
1:BA:172:A:C5	1:BA:174:A:N7	2.79	0.51
1:BA:862:C:H1'	1:BA:874:G:H5"	1.91	0.51
1:BA:1228:C:OP1	13:BM:112:ARG:HA	2.10	0.51
1:BA:1361:G:C5	1:BA:1362:A:C8	2.99	0.51
2:BB:70:GLY:HA3	2:BB:163:ILE:HG21	1.93	0.51
2:BB:70:GLY:CA	2:BB:163:ILE:CG2	2.89	0.51
4:BD:47:LEU:HD21	4:BD:51:GLY:C	2.35	0.51
5:BE:15:ILE:HD11	5:BE:112:ALA:HB1	1.92	0.51
5:BE:23:THR:HA	5:BE:28:ARG:HA	1.91	0.51
6:BF:32:ALA:O	6:BF:34:GLY:N	2.43	0.51
6:BF:61:LEU:HD12	6:BF:62:MET:N	2.26	0.51
6:BF:74:LEU:C	6:BF:76:THR:N	2.67	0.51
10:BJ:26:VAL:O	10:BJ:29:ALA:HB3	2.10	0.51
11:BK:63:GLN:O	11:BK:67:GLU:HG3	2.11	0.51
17:BQ:59:GLU:OE2	17:BQ:76:ARG:HD3	2.10	0.51
25:CA:196:A:H2'	25:CA:805:G:O6	2.10	0.51
25:CA:528:A:H3'	25:CA:528:A:C8	2.46	0.51
25:CA:627:A:C6	25:CA:637:A:C8	2.99	0.51
25:CA:1559:U:C3'	25:CA:1560:G:H5'	2.41	0.51
25:CA:1564:C:O2'	25:CA:1565:C:H5'	2.11	0.51
25:CA:1838:C:C4	25:CA:1899:A:C4	2.98	0.51
25:CA:2294:G:H2'	25:CA:2295:C:H6	1.75	0.51
25:CA:2334:U:O4	39:CO:16:ARG:CZ	2.59	0.51
25:CA:2642:G:N2	25:CA:2773:C:C2	2.78	0.51
29:CE:189:THR:HG23	29:CE:190:ALA:N	2.25	0.51
30:CF:51:ASN:HD22	30:CF:146:ASP:CB	2.24	0.51
30:CF:157:THR:CG2	30:CF:159:ALA:CB	2.88	0.51
31:CG:123:GLU:OE2	31:CG:124:CYS:HB2	2.11	0.51
33:CI:75:ALA:CB	33:CI:128:ILE:CG2	2.87	0.51
33:CI:114:ALA:O	33:CI:115:ASP:HB2	2.11	0.51
34:CJ:31:GLU:OE2	34:CJ:35:ARG:HD2	2.10	0.51
36:CL:106:GLU:C	36:CL:107:PHE:CD2	2.89	0.51
37:CM:92:TRP:C	37:CM:93:VAL:HG13	2.35	0.51
44:CT:2:ILE:HA	44:CT:3:ARG:C	2.36	0.51
45:CU:38:ILE:HG22	45:CU:39:ASN:N	2.25	0.51
25:DA:68:G:N2	25:DA:74:A:O4'	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:611:C:H2'	25:DA:612:G:H5'	1.92	0.51
25:DA:630:G:C5'	25:DA:631:A:OP2	2.59	0.51
25:DA:751:A:H5'	43:DS:90:LYS:HA	1.92	0.51
25:DA:1277:G:H5'	38:DN:20:MET:HE1	1.90	0.51
25:DA:1362:C:O2'	25:DA:1363:C:H5'	2.11	0.51
25:DA:1414:C:H3'	25:DA:1414:C:C6	2.46	0.51
25:DA:1503:A:N6	25:DA:1504:A:N6	2.59	0.51
25:DA:1783:A:N7	60:DA:3695:HOH:O	2.34	0.51
25:DA:2278:A:H2'	25:DA:2279:G:O5'	2.10	0.51
25:DA:2681:C:C4	25:DA:2724:U:C5	2.99	0.51
25:DA:2852:G:C2'	25:DA:2853:C:O4'	2.58	0.51
36:DL:91:ASP:HB3	36:DL:93:ASN:O	2.11	0.51
39:DO:7:ARG:HD2	39:DO:97:PHE:CZ	2.46	0.51
39:DO:32:PRO:HA	39:DO:102:ARG:HH12	1.76	0.51
39:DO:75:GLY:HA2	39:DO:106:LEU:CD2	2.41	0.51
41:DQ:86:SER:HB3	42:DR:51:VAL:HA	1.91	0.51
44:DT:29:THR:OG1	44:DT:86:THR:HG22	2.11	0.51
46:DV:44:HIS:O	46:DV:45:ASP:C	2.53	0.51
1:AA:570:G:H5"	1:AA:571:U:OP2	2.10	0.51
1:AA:842:U:H3'	1:AA:843:U:C5'	2.41	0.51
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.45	0.51
1:AA:1533:C:C6	1:AA:1533:C:OP2	2.64	0.51
2:AB:18:GLN:HG2	2:AB:189:ASN:ND2	2.24	0.51
3:AC:41:TYR:CD1	3:AC:42:LEU:CD1	2.94	0.51
3:AC:166:TRP:O	3:AC:167:TYR:HD1	1.94	0.51
4:AD:49:ASP:O	4:AD:53:GLN:CB	2.58	0.51
4:AD:61:ARG:HG2	4:AD:71:PHE:HD2	1.71	0.51
4:AD:131:ILE:CD1	4:AD:134:TYR:N	2.73	0.51
4:AD:195:ASN:O	4:AD:198:LEU:HB2	2.11	0.51
7:AG:65:LEU:C	7:AG:67:ASN:N	2.68	0.51
7:AG:87:PRO:C	7:AG:88:VAL:HG12	2.35	0.51
7:AG:110:ARG:HD2	7:AG:122:GLU:HG2	1.92	0.51
8:AH:46:GLU:O	8:AH:47:ASP:HB2	2.11	0.51
13:AM:9:PRO:O	13:AM:10:ASP:HB2	2.11	0.51
19:AS:70:LEU:O	19:AS:70:LEU:HD13	2.11	0.51
24:AY:64:ARG:O	24:AY:65:THR:OG1	2.27	0.51
1:BA:1242:G:C2'	1:BA:1243:C:H5'	2.39	0.51
1:BA:1275:A:C5	1:BA:1276:G:C5	2.99	0.51
1:BA:1275:A:C5	1:BA:1276:G:C8	2.98	0.51
2:BB:14:HIS:O	2:BB:16:GLY:N	2.44	0.51
2:BB:166:ASP:OD2	2:BB:190:SER:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:207:ARG:O	2:BB:211:LEU:N	2.44	0.51
4:BD:170:LEU:HD12	4:BD:170:LEU:H	1.75	0.51
5:BE:24:VAL:O	5:BE:25:LYS:C	2.53	0.51
8:BH:21:LYS:HE2	8:BH:21:LYS:HA	1.91	0.51
9:BI:88:GLU:HG3	9:BI:89:TYR:H	1.75	0.51
10:BJ:17:LEU:HA	10:BJ:20:GLN:HG3	1.93	0.51
10:BJ:71:LEU:O	10:BJ:72:ARG:CG	2.59	0.51
12:BL:49:ARG:HG3	12:BL:89:LEU:HD11	1.93	0.51
15:BO:38:LEU:HD12	15:BO:41:HIS:HB2	1.92	0.51
20:BT:28:ARG:HA	20:BT:31:ILE:HD12	1.93	0.51
25:CA:1809:A:H2'	25:CA:1810:A:C8	2.45	0.51
25:CA:2578:G:OP2	25:CA:2578:G:H4'	2.10	0.51
25:CA:2851:A:N7	25:CA:2852:G:N7	2.58	0.51
25:CA:2895:G:H2'	25:CA:2896:C:C6	2.46	0.51
27:CC:120:ASP:OD1	27:CC:120:ASP:N	2.44	0.51
30:CF:29:ARG:O	30:CF:158:THR:HG23	2.11	0.51
30:CF:105:ILE:HG13	30:CF:106:ALA:N	2.25	0.51
31:CG:127:GLN:HE21	31:CG:127:GLN:HA	1.76	0.51
33:CI:57:VAL:HG11	33:CI:59:THR:OG1	2.11	0.51
33:CI:105:LEU:HD23	33:CI:108:ILE:HG21	1.93	0.51
34:CJ:21:THR:HA	34:CJ:61:LYS:HB3	1.92	0.51
37:CM:21:ALA:HB1	37:CM:100:LYS:HG2	1.93	0.51
25:DA:269:C:H2'	25:DA:270:A:C5'	2.40	0.51
25:DA:292:U:C4	25:DA:293:U:C5	2.99	0.51
25:DA:581:C:OP1	41:DQ:32:ARG:HB2	2.10	0.51
25:DA:999:U:P	60:DA:3362:HOH:O	2.69	0.51
25:DA:1760:C:C2'	25:DA:1761:C:H5'	2.40	0.51
25:DA:2042:A:H2'	25:DA:2043:C:H5'	1.93	0.51
25:DA:2074:U:H2'	25:DA:2075:U:C6	2.46	0.51
25:DA:2196:C:H2'	25:DA:2196:C:O2	2.11	0.51
25:DA:2204:G:C4	25:DA:2205:A:N7	2.79	0.51
25:DA:2204:G:C5	25:DA:2205:A:N7	2.79	0.51
25:DA:2422:C:C4	25:DA:2424:C:C4	2.99	0.51
25:DA:2602:A:H4'	25:DA:2603:G:O5'	2.11	0.51
25:DA:2769:U:C2'	25:DA:2770:G:H5'	2.41	0.51
27:DC:17:LYS:C	27:DC:18:VAL:HG23	2.36	0.51
27:DC:141:HIS:HB3	27:DC:194:VAL:HG12	1.92	0.51
29:DE:15:SER:HB2	29:DE:18:THR:HB	1.91	0.51
30:DF:92:GLY:O	30:DF:93:GLU:C	2.52	0.51
30:DF:106:ALA:HB1	30:DF:136:ILE:O	2.11	0.51
31:DG:88:LEU:N	31:DG:88:LEU:CD1	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:60:GLU:HA	32:DH:60:GLU:OE2	2.11	0.51
33:DI:12:VAL:CG2	33:DI:16:MET:HB2	2.41	0.51
33:DI:14:ALA:HB3	33:DI:50:LYS:HA	1.92	0.51
34:DJ:58:ASN:HA	34:DJ:126:ALA:O	2.10	0.51
36:DL:2:ARG:C	36:DL:5:THR:HG23	2.36	0.51
37:DM:49:ALA:CB	37:DM:124:LEU:CD2	2.89	0.51
50:DZ:1:ALA:HA	50:DZ:2:LYS:HE2	1.93	0.51
54:D3:37:THR:HA	54:D3:40:LYS:HE3	1.92	0.51
1:AA:33:A:H2'	1:AA:34:C:C6	2.46	0.51
1:AA:41:G:O2'	1:AA:42:G:H5'	2.11	0.51
1:AA:109:A:C8	1:AA:326:G:H2'	2.46	0.51
1:AA:353:A:C2'	1:AA:354:G:OP2	2.59	0.51
1:AA:429:U:OP2	4:AD:31:CYS:O	2.29	0.51
1:AA:441:A:H2'	1:AA:442:G:H5'	1.93	0.51
1:AA:446:G:C2	1:AA:489:C:C2	2.98	0.51
1:AA:451:A:H61	1:AA:481:G:C5'	2.23	0.51
1:AA:470:C:N3	1:AA:471:U:C5	2.79	0.51
1:AA:809:G:H2'	1:AA:810:C:O5'	2.11	0.51
1:AA:1057:G:O2'	1:AA:1058:G:H5'	2.10	0.51
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.11	0.51
1:AA:1439:G:C6	1:AA:1440:U:C4	2.99	0.51
1:AA:1444:U:O2	1:AA:1444:U:C2'	2.59	0.51
2:AB:127:LYS:HG3	2:AB:128:LEU:N	2.26	0.51
2:AB:141:GLU:O	2:AB:145:ASN:OD1	2.29	0.51
3:AC:45:GLU:C	3:AC:47:ALA:H	2.18	0.51
3:AC:72:PRO:O	3:AC:73:GLY:C	2.54	0.51
5:AE:63:MET:O	5:AE:64:GLU:C	2.54	0.51
8:AH:6:ILE:HG23	8:AH:10:LEU:HD21	1.93	0.51
11:AK:95:THR:O	11:AK:99:LEU:HD23	2.11	0.51
13:AM:33:LEU:HD23	13:AM:38:ILE:HB	1.93	0.51
14:AN:3:GLN:HA	14:AN:6:LYS:CE	2.40	0.51
20:AT:68:LYS:HB2	20:AT:68:LYS:HZ2	1.76	0.51
22:AV:59:U:H2'	22:AV:60:U:C6	2.46	0.51
24:AY:140:VAL:O	24:AY:141:LYS:C	2.53	0.51
1:BA:5:U:OP1	1:BA:5:U:C5	2.64	0.51
1:BA:96:U:O2'	1:BA:97:G:H5'	2.11	0.51
1:BA:130:A:OP1	17:BQ:64:ARG:HD2	2.11	0.51
1:BA:328:C:O2	1:BA:328:C:C2'	2.54	0.51
1:BA:443:C:O2'	1:BA:444:G:H5'	2.11	0.51
1:BA:575:G:O2'	1:BA:821:G:OP2	2.26	0.51
1:BA:655:A:O2'	1:BA:755:G:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:806:C:H2'	1:BA:807:A:C8	2.46	0.51
1:BA:919:A:O2'	1:BA:920:U:H5'	2.11	0.51
1:BA:1130:A:H1'	1:BA:1146:A:C2	2.45	0.51
1:BA:1411:C:H2'	1:BA:1412:C:H6	1.76	0.51
1:BA:1540:U:O2'	21:BU:17:ARG:HG2	2.11	0.51
2:BB:216:VAL:O	2:BB:217:ALA:C	2.54	0.51
3:BC:114:LEU:O	3:BC:116:ALA:N	2.44	0.51
3:BC:149:LYS:O	3:BC:200:TRP:HE3	1.94	0.51
5:BE:45:VAL:HG13	5:BE:116:VAL:HG23	1.93	0.51
5:BE:96:GLN:O	5:BE:122:VAL:HA	2.11	0.51
6:BF:11:HIS:ND1	6:BF:12:PRO:HD2	2.25	0.51
7:BG:87:PRO:HB3	7:BG:144:ALA:HB1	1.93	0.51
12:BL:21:PRO:C	12:BL:23:LEU:H	2.18	0.51
25:CA:151:C:OP1	25:CA:1359:A:O2'	2.28	0.51
25:CA:435:C:C2'	25:CA:436:C:H5'	2.41	0.51
25:CA:871:U:H2'	25:CA:872:U:C6	2.45	0.51
25:CA:1318:U:H2'	25:CA:1319:C:C6	2.46	0.51
25:CA:1483:G:C2	25:CA:1507:C:C2	2.99	0.51
25:CA:1547:C:C6	25:CA:1547:C:H3'	2.46	0.51
25:CA:1678:A:H2'	25:CA:1679:A:O4'	2.10	0.51
25:CA:1735:A:N3	25:CA:1736:U:C6	2.78	0.51
25:CA:1753:G:OP1	40:CP:92:ARG:HD3	2.10	0.51
25:CA:1826:G:C5	25:CA:1827:U:C5	2.99	0.51
25:CA:2027:G:C5	25:CA:2028:U:C5	2.99	0.51
25:CA:2139:U:O2'	25:CA:2140:G:H5'	2.11	0.51
25:CA:2248:C:H5"	25:CA:2249:U:OP2	2.11	0.51
26:CB:20:G:H2'	26:CB:21:G:C5'	2.41	0.51
26:CB:111:U:H2'	26:CB:112:G:C8	2.46	0.51
27:CC:244:VAL:HG12	27:CC:250:GLN:HA	1.93	0.51
27:CC:259:ASN:O	27:CC:260:LYS:HB2	2.10	0.51
28:CD:172:VAL:HG21	28:CD:194:PRO:HD3	1.92	0.51
33:CI:66:PHE:N	33:CI:66:PHE:HD2	2.08	0.51
35:CK:7:MET:HE1	35:CK:44:LYS:HG3	1.93	0.51
36:CL:127:VAL:CG1	36:CL:132:ARG:HB2	2.41	0.51
37:CM:28:PHE:HB3	37:CM:64:TRP:CE2	2.46	0.51
42:CR:64:VAL:HG22	42:CR:96:VAL:HA	1.93	0.51
49:CY:23:ARG:HA	49:CY:27:ASN:ND2	2.26	0.51
52:C1:11:VAL:O	52:C1:12:SER:C	2.53	0.51
25:DA:269:C:C2'	25:DA:270:A:H5'	2.41	0.51
25:DA:343:C:C2'	25:DA:344:A:H5'	2.41	0.51
25:DA:622:G:H2'	25:DA:623:C:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1095:A:C2	33:DI:29:GLN:HG2	2.46	0.51
25:DA:1335:C:C2'	25:DA:1336:A:H5'	2.42	0.51
25:DA:1394:U:H4'	25:DA:1603:A:H4'	1.93	0.51
25:DA:1446:C:O2'	25:DA:1447:C:H5'	2.10	0.51
25:DA:2194:U:C2	25:DA:2195:U:C6	2.99	0.51
25:DA:2511:U:C5	25:DA:2512:C:C5	2.99	0.51
25:DA:2663:G:C2'	25:DA:2664:G:H5'	2.40	0.51
25:DA:2794:C:H2'	25:DA:2794:C:O2	2.09	0.51
27:DC:123:ILE:CD1	27:DC:135:PRO:CD	2.89	0.51
31:DG:94:ARG:O	31:DG:95:ALA:HB2	2.11	0.51
33:DI:120:ASP:CG	33:DI:122:GLU:HB3	2.36	0.51
36:DL:79:LEU:O	36:DL:80:SER:C	2.53	0.51
36:DL:110:VAL:CG2	36:DL:127:VAL:HG22	2.40	0.51
37:DM:53:MET:HE1	37:DM:103:TYR:CD2	2.46	0.51
42:DR:82:HIS:O	42:DR:82:HIS:CG	2.62	0.51
44:DT:3:ARG:HB3	44:DT:6:ARG:HB3	1.93	0.51
45:DU:82:VAL:HG12	45:DU:83:GLY:N	2.25	0.51
1:AA:35:G:C4	1:AA:36:C:C5	2.98	0.50
1:AA:98:A:H2'	1:AA:99:C:C6	2.46	0.50
1:AA:233:C:H2'	1:AA:234:C:H6	1.75	0.50
1:AA:240:G:OP1	1:AA:240:G:H4'	2.11	0.50
1:AA:298:A:N6	1:AA:299:G:N1	2.58	0.50
1:AA:398:U:O2'	1:AA:399:G:H5'	2.11	0.50
1:AA:413:G:N1	4:AD:32:LYS:CD	2.74	0.50
1:AA:1215:G:C2'	1:AA:1216:A:H5'	2.41	0.50
1:AA:1226:C:N4	13:AM:102:LYS:HG3	2.26	0.50
1:AA:1461:G:H2'	1:AA:1462:C:O4'	2.11	0.50
5:AE:80:LEU:HD12	5:AE:146:MET:SD	2.51	0.50
6:AF:18:VAL:CB	6:AF:19:PRO:CD	2.87	0.50
6:AF:88:MET:HB2	18:AR:63:TYR:HE2	1.75	0.50
9:AI:90:ASP:OD2	9:AI:90:ASP:C	2.54	0.50
10:AJ:6:ILE:CD1	10:AJ:76:ILE:HB	2.41	0.50
10:AJ:49:PHE:N	10:AJ:49:PHE:HD1	2.09	0.50
11:AK:73:VAL:C	11:AK:75:GLU:H	2.18	0.50
18:AR:54:LEU:HD11	18:AR:58:ILE:HD11	1.93	0.50
21:AU:27:VAL:HG12	21:AU:30:GLU:OE1	2.11	0.50
1:BA:198:G:C4	1:BA:199:A:C8	2.98	0.50
1:BA:258:G:H2'	1:BA:259:G:O4'	2.12	0.50
1:BA:465:A:C6	1:BA:466:A:C5	2.99	0.50
1:BA:673:A:H2'	1:BA:674:G:O4'	2.11	0.50
1:BA:934:C:H5"	60:BA:1828:HOH:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1075:U:H2'	1:BA:1076:U:H6	1.76	0.50
1:BA:1099:G:C5	1:BA:1100:C:C5	2.99	0.50
1:BA:1171:A:H2'	1:BA:1172:C:C6	2.45	0.50
1:BA:1237:C:H2'	1:BA:1238:A:OP1	2.11	0.50
2:BB:169:HIS:O	2:BB:170:ILE:C	2.53	0.50
3:BC:19:SER:O	14:BN:94:PRO:HB3	2.11	0.50
3:BC:66:THR:HG23	3:BC:101:ASN:HB2	1.93	0.50
4:BD:77:GLU:OE1	4:BD:77:GLU:CA	2.60	0.50
6:BF:45:ARG:O	6:BF:56:LYS:HA	2.11	0.50
8:BH:19:ALA:O	8:BH:21:LYS:N	2.44	0.50
12:BL:2:THR:O	12:BL:3:VAL:C	2.54	0.50
12:BL:73:LEU:HD21	12:BL:103:CYS:SG	2.51	0.50
13:BM:6:ILE:HG12	30:DF:111:ARG:HD3	1.93	0.50
13:BM:28:ARG:HG3	13:BM:62:PHE:HE2	1.75	0.50
14:BN:35:ALA:CB	14:BN:41:ARG:HB2	2.41	0.50
19:BS:13:HIS:CD2	19:BS:13:HIS:H	2.29	0.50
21:BU:40:PRO:O	21:BU:44:ARG:HB2	2.11	0.50
23:BX:8:A:N6	23:BX:9:G:C6	2.79	0.50
25:CA:137:U:O2'	25:CA:138:U:P	2.70	0.50
25:CA:298:G:H5"	25:CA:299:A:OP1	2.11	0.50
25:CA:1088:A:H3'	25:CA:1088:A:N3	2.26	0.50
25:CA:1106:G:C6	25:CA:1107:G:C5	3.00	0.50
25:CA:1734:G:C4	25:CA:1735:A:N7	2.79	0.50
25:CA:2120:G:C2'	25:CA:2121:G:H5'	2.41	0.50
25:CA:2371:G:O2'	52:C1:45:HIS:HD2	1.93	0.50
25:CA:2581:G:C4	25:CA:2610:C:C5	2.99	0.50
25:CA:2656:U:O2	25:CA:2656:U:H2'	2.10	0.50
27:CC:42:ARG:HH11	27:CC:42:ARG:HG2	1.73	0.50
29:CE:118:LEU:CD1	29:CE:188:MET:HG3	2.41	0.50
35:CK:13:ASN:ND2	35:CK:98:ARG:HG3	2.26	0.50
35:CK:43:ILE:HD12	35:CK:56:ASP:HB2	1.93	0.50
36:CL:4:ASN:O	36:CL:4:ASN:CG	2.54	0.50
39:CO:56:LYS:O	39:CO:58:ILE:N	2.43	0.50
55:C4:10:LEU:N	55:C4:10:LEU:HD23	2.24	0.50
25:DA:58:G:P	44:DT:78:SER:HG	2.33	0.50
25:DA:122:G:H2'	25:DA:123:G:H5'	1.92	0.50
25:DA:323:C:C4	25:DA:333:G:C8	2.99	0.50
25:DA:645:C:O2'	25:DA:646:U:O5'	2.29	0.50
25:DA:849:A:C4	25:DA:930:G:N2	2.79	0.50
25:DA:1122:G:N3	25:DA:1122:G:C2'	2.70	0.50
25:DA:1227:G:O2'	25:DA:1228:G:H5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1336:A:C2'	25:DA:1337:G:O5'	2.59	0.50
25:DA:1600:C:O2'	25:DA:1601:G:H5'	2.10	0.50
25:DA:1809:A:H2'	25:DA:1810:A:C8	2.44	0.50
25:DA:1833:C:H2'	25:DA:1834:U:H6	1.76	0.50
25:DA:1878:G:O2'	25:DA:1879:C:H5'	2.11	0.50
25:DA:2126:A:C5	25:DA:2162:G:C6	2.98	0.50
25:DA:2403:C:C2	25:DA:2404:U:C6	2.99	0.50
25:DA:2714:G:C2'	25:DA:2715:C:H5'	2.41	0.50
30:DF:65:LEU:HD12	30:DF:66:ILE:N	2.26	0.50
31:DG:162:ARG:NH2	31:DG:168:VAL:HG21	2.25	0.50
37:DM:107:GLY:O	37:DM:108:VAL:HG22	2.11	0.50
38:DN:52:ILE:HG21	38:DN:94:TYR:CD2	2.46	0.50
39:DO:9:ARG:HG3	39:DO:10:ARG:N	2.26	0.50
39:DO:98:GLN:O	39:DO:100:HIS:N	2.44	0.50
40:DP:105:LYS:HA	40:DP:108:ARG:CD	2.42	0.50
42:DR:1:MET:HE1	42:DR:101:ILE:HB	1.91	0.50
43:DS:59:GLU:HA	43:DS:64:ALA:HA	1.92	0.50
57:DW:53:HIS:CD2	57:DW:53:HIS:N	2.77	0.50
49:DY:18:LEU:HD21	49:DY:22:LEU:CD2	2.41	0.50
1:AA:22:G:H2'	1:AA:23:C:O4'	2.11	0.50
1:AA:77:A:H2'	1:AA:78:A:N7	2.26	0.50
1:AA:155:A:C2	1:AA:167:A:C2	2.99	0.50
1:AA:537:G:OP1	12:AL:109:ARG:NH2	2.45	0.50
1:AA:763:G:C5	1:AA:764:C:C5	3.00	0.50
1:AA:830:G:C2'	1:AA:831:A:H5'	2.41	0.50
1:AA:1123:U:O3'	10:AJ:38:GLY:HA3	2.10	0.50
1:AA:1241:G:C4	1:AA:1242:G:C8	2.99	0.50
1:AA:1287:A:C6	1:AA:1288:A:C6	2.98	0.50
1:AA:1302:C:C6	13:AM:16:ILE:HD13	2.46	0.50
1:AA:1306:A:C8	1:AA:1307:U:C5	2.99	0.50
1:AA:1380:U:C4	7:AG:2:ARG:HD3	2.47	0.50
3:AC:77:GLY:O	3:AC:79:LYS:N	2.44	0.50
5:AE:14:LEU:O	5:AE:14:LEU:HD12	2.11	0.50
5:AE:102:THR:HG22	5:AE:103:GLY:H	1.73	0.50
10:AJ:52:LEU:HD21	10:AJ:59:LYS:HA	1.93	0.50
14:AN:13:VAL:O	14:AN:16:ALA:HB3	2.11	0.50
17:AQ:34:GLY:O	17:AQ:35:LYS:C	2.53	0.50
20:AT:54:GLN:HB3	20:AT:55:PRO:HD3	1.94	0.50
22:AV:52:G:H2'	22:AV:52:G:N3	2.26	0.50
1:BA:108:G:C6	20:BT:9:ARG:HG2	2.45	0.50
1:BA:248:C:C4	1:BA:249:U:C5	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:594:U:C2'	1:BA:595:A:H8	2.25	0.50
1:BA:890:G:OP1	1:BA:890:G:H4'	2.11	0.50
1:BA:1126:U:H1'	1:BA:1281:C:C6	2.46	0.50
1:BA:1309:G:C6	1:BA:1329:A:N1	2.79	0.50
1:BA:1350:A:OP2	9:BI:119:LYS:HD3	2.10	0.50
2:BB:146:SER:OG	2:BB:147:LEU:HG	2.11	0.50
5:BE:19:ARG:HG2	5:BE:20:VAL:N	2.26	0.50
5:BE:104:ILE:H	5:BE:121:ASN:HA	1.76	0.50
7:BG:27:ASN:O	7:BG:30:MET:HB3	2.11	0.50
8:BH:41:GLU:CD	8:BH:41:GLU:O	2.54	0.50
10:BJ:36:VAL:HG22	10:BJ:76:ILE:HG23	1.93	0.50
13:BM:56:ARG:O	13:BM:59:VAL:HG13	2.11	0.50
16:BP:43:ALA:O	16:BP:44:SER:CB	2.58	0.50
18:BR:35:SER:CB	18:BR:37:LYS:HD2	2.41	0.50
25:CA:21:A:H2'	25:CA:22:C:O5'	2.11	0.50
25:CA:305:C:O5'	25:CA:305:C:H6	1.95	0.50
25:CA:658:U:C2'	25:CA:659:G:O5'	2.60	0.50
25:CA:1060:U:O4'	25:CA:1062:G:C5'	2.59	0.50
25:CA:1584:U:O2	25:CA:1584:U:H3'	2.11	0.50
25:CA:1869:G:C2'	25:CA:1870:C:H5'	2.41	0.50
25:CA:2304:G:H2'	25:CA:2305:U:H5"	1.92	0.50
29:CE:5:LEU:HD12	29:CE:5:LEU:N	2.25	0.50
29:CE:126:VAL:HG21	29:CE:133:LEU:HB2	1.93	0.50
30:CF:117:SER:C	30:CF:119:LYS:H	2.20	0.50
36:CL:81:ASP:CG	36:CL:100:ILE:HD13	2.37	0.50
38:CN:67:PHE:O	38:CN:71:ARG:HA	2.10	0.50
41:CQ:67:ALA:O	41:CQ:68:ALA:C	2.54	0.50
45:CU:41:VAL:O	45:CU:59:GLU:HA	2.11	0.50
52:C1:3:GLY:O	52:C1:4:ILE:HB	2.10	0.50
25:DA:278:A:H2'	25:DA:278:A:N3	2.25	0.50
25:DA:1194:A:C2'	25:DA:1195:G:O5'	2.59	0.50
25:DA:1541:C:O2'	25:DA:1542:U:H5'	2.11	0.50
25:DA:2055:C:H5'	25:DA:2056:G:H5"	1.93	0.50
25:DA:2210:U:O2	25:DA:2212:A:C8	2.65	0.50
25:DA:2457:U:C4	25:DA:2458:G:C6	2.99	0.50
25:DA:2678:C:O5'	25:DA:2678:C:H6	1.93	0.50
28:DD:103:ASP:OD2	28:DD:104:VAL:N	2.45	0.50
29:DE:2:GLU:OE1	29:DE:13:THR:HA	2.10	0.50
29:DE:145:ASP:O	29:DE:184:ASP:HB2	2.11	0.50
31:DG:26:LYS:HB3	31:DG:31:GLU:HG3	1.91	0.50
32:DH:4:ILE:O	32:DH:36:ALA:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:42:LYS:C	32:DH:42:LYS:HE2	2.35	0.50
33:DI:46:ASP:CG	33:DI:50:LYS:HD2	2.37	0.50
34:DJ:117:ALA:O	34:DJ:120:ARG:N	2.44	0.50
36:DL:95:LEU:C	36:DL:97:ALA:N	2.68	0.50
38:DN:77:ALA:O	38:DN:78:LYS:C	2.54	0.50
39:DO:105:ALA:O	39:DO:106:LEU:C	2.54	0.50
44:DT:34:VAL:HG22	44:DT:81:LYS:HB3	1.94	0.50
1:AA:257:G:C2	1:AA:270:A:C2	3.00	0.50
1:AA:451:A:O4'	1:AA:452:A:N3	2.44	0.50
1:AA:590:U:H2'	1:AA:591:U:C6	2.46	0.50
1:AA:1151:A:O2'	1:AA:1152:A:P	2.69	0.50
1:AA:1304:G:C5	1:AA:1305:G:N1	2.80	0.50
1:AA:1385:G:C6	1:AA:1386:G:C5	2.99	0.50
1:AA:1513:A:H2'	1:AA:1514:G:C8	2.46	0.50
2:AB:32:GLY:HA3	2:AB:38:HIS:CB	2.42	0.50
3:AC:70:ALA:C	3:AC:72:PRO:HD3	2.36	0.50
8:AH:52:GLY:HA3	8:AH:56:PRO:CA	2.35	0.50
16:AP:12:LYS:HG2	16:AP:13:LYS:HG2	1.92	0.50
16:AP:22:ALA:HA	16:AP:33:ILE:HG13	1.93	0.50
17:AQ:21:VAL:CG2	17:AQ:22:VAL:N	2.74	0.50
21:AU:16:ARG:NH1	21:AU:19:LYS:CG	2.74	0.50
22:AV:58:A:C2	22:AV:61:C:C6	2.99	0.50
1:BA:5:U:OP1	1:BA:5:U:C6	2.64	0.50
1:BA:73:C:O2'	1:BA:74:A:P	2.70	0.50
1:BA:110:C:C2'	1:BA:110:C:O2	2.58	0.50
1:BA:158:G:C2	1:BA:159:G:C8	3.00	0.50
1:BA:158:G:N3	1:BA:159:G:C8	2.80	0.50
1:BA:433:G:C5	1:BA:434:U:C5	2.99	0.50
1:BA:439:U:C5	1:BA:440:C:C5	2.99	0.50
1:BA:663:A:H2'	1:BA:664:G:O4'	2.12	0.50
1:BA:1073:U:C4	1:BA:1074:G:N7	2.80	0.50
1:BA:1372:U:H2'	1:BA:1373:G:O4'	2.11	0.50
2:BB:70:GLY:O	2:BB:92:ASN:HA	2.12	0.50
2:BB:199:ILE:HD12	2:BB:199:ILE:N	2.26	0.50
5:BE:113:VAL:CG2	5:BE:114:LEU:N	2.72	0.50
10:BJ:48:ARG:HH11	10:BJ:48:ARG:HG3	1.74	0.50
15:BO:72:LYS:HE2	15:BO:72:LYS:CA	2.38	0.50
20:BT:32:LYS:O	20:BT:34:VAL:N	2.44	0.50
21:BU:44:ARG:O	21:BU:45:LYS:HB2	2.10	0.50
25:CA:71:A:H5"	25:CA:72:U:H2'	1.91	0.50
25:CA:592:A:O2'	54:C3:2:LYS:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:851:C:O2'	25:CA:852:U:H5'	2.12	0.50
25:CA:1076:C:H2'	25:CA:1077:A:N9	2.26	0.50
25:CA:1414:C:C5	25:CA:1415:U:C4	2.99	0.50
25:CA:1589:U:O2	25:CA:1589:U:C2'	2.60	0.50
25:CA:2502:G:C5'	25:CA:2503:A:H5"	2.41	0.50
25:CA:2691:C:O3'	25:CA:2871:U:H4'	2.11	0.50
27:CC:199:HIS:O	27:CC:202:ARG:HD3	2.12	0.50
32:CH:128:HIS:O	32:CH:144:VAL:N	2.44	0.50
33:CI:3:LYS:CD	33:CI:4:VAL:H	2.24	0.50
38:CN:45:ARG:HG2	38:CN:95:THR:HG21	1.93	0.50
42:CR:54:VAL:O	42:CR:55:ASP:C	2.54	0.50
25:DA:61:C:O5'	25:DA:61:C:H6	1.93	0.50
25:DA:359:G:H2'	25:DA:360:U:C5'	2.42	0.50
25:DA:447:A:C2	25:DA:454:A:C8	3.00	0.50
25:DA:636:G:O2'	25:DA:638:G:H4'	2.11	0.50
25:DA:1023:U:C2'	25:DA:1024:G:H5'	2.42	0.50
25:DA:1109:C:H2'	25:DA:1109:C:O2	2.11	0.50
25:DA:1429:G:C2'	25:DA:1430:G:O5'	2.60	0.50
25:DA:1467:U:N3	25:DA:1546:G:N2	2.59	0.50
25:DA:1562:U:O2	25:DA:1563:U:N1	2.44	0.50
25:DA:1902:C:H4'	27:DC:241:LYS:O	2.11	0.50
25:DA:1997:C:OP2	28:DD:129:THR:HB	2.12	0.50
25:DA:2111:U:N3	25:DA:2147:A:H2	2.09	0.50
25:DA:2121:G:N2	25:DA:2178:C:C2	2.79	0.50
25:DA:2298:A:OP1	30:DF:70:ARG:HD2	2.11	0.50
25:DA:2371:G:C2	25:DA:2372:U:C6	3.00	0.50
25:DA:2695:U:O5'	25:DA:2695:U:H6	1.94	0.50
25:DA:2796:U:H2'	25:DA:2797:U:H2'	1.93	0.50
56:DB:95:U:N3	56:DB:96:G:N7	2.60	0.50
28:DD:172:VAL:HG21	28:DD:194:PRO:HD3	1.93	0.50
29:DE:1:MET:HE2	29:DE:19:PHE:CB	2.42	0.50
31:DG:120:ILE:HD12	31:DG:134:GLY:HA3	1.93	0.50
32:DH:84:ALA:HB3	32:DH:148:ALA:HB2	1.92	0.50
34:DJ:70:THR:HG22	34:DJ:90:GLU:OE1	2.12	0.50
37:DM:21:ALA:CB	37:DM:100:LYS:N	2.74	0.50
39:DO:47:VAL:C	39:DO:48:LEU:HD23	2.36	0.50
40:DP:51:ASN:H	40:DP:51:ASN:HD22	1.59	0.50
41:DQ:57:ARG:HH21	41:DQ:91:ARG:CZ	2.23	0.50
41:DQ:85:ALA:CB	41:DQ:87:VAL:HG23	2.42	0.50
43:DS:28:LYS:HA	43:DS:70:LYS:HG3	1.91	0.50
43:DS:34:ASP:O	43:DS:37:THR:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DV:51:GLN:CB	46:DV:56:PHE:CD2	2.94	0.50
52:D1:42:VAL:HG12	52:D1:44:GLN:N	2.26	0.50
1:AA:257:G:N3	1:AA:258:G:C8	2.79	0.50
1:AA:439:U:C6	1:AA:440:C:H5	2.28	0.50
1:AA:540:G:C2'	1:AA:541:G:H5'	2.41	0.50
1:AA:622:A:C2'	1:AA:623:C:H5'	2.41	0.50
1:AA:667:G:H4'	15:AO:50:HIS:ND1	2.26	0.50
1:AA:1279:G:H22	10:AJ:45:ARG:HE	1.60	0.50
1:AA:1470:U:O2'	1:AA:1471:U:H5'	2.11	0.50
2:AB:30:ILE:CD1	2:AB:38:HIS:CG	2.95	0.50
3:AC:129:PHE:CE1	3:AC:130:ARG:HD2	2.47	0.50
8:AH:30:LYS:O	8:AH:31:LEU:C	2.55	0.50
8:AH:104:SER:HA	8:AH:109:VAL:HA	1.94	0.50
9:AI:91:GLU:C	9:AI:93:LEU:H	2.19	0.50
10:AJ:57:VAL:HG22	10:AJ:58:ASN:N	2.26	0.50
16:AP:73:ALA:O	16:AP:77:GLU:HB2	2.11	0.50
1:BA:208:U:C5	1:BA:210:C:H6	2.29	0.50
1:BA:280:C:H4'	1:BA:281:G:OP2	2.11	0.50
1:BA:476:U:H2'	1:BA:477:C:C6	2.46	0.50
1:BA:595:A:N1	1:BA:641:U:C2	2.79	0.50
1:BA:675:A:H1'	11:BK:117:HIS:CG	2.47	0.50
1:BA:981:U:C6	1:BA:982:U:C6	3.00	0.50
1:BA:1014:A:C4	19:BS:33:TRP:CZ3	2.99	0.50
1:BA:1058:G:C2'	1:BA:1059:C:O5'	2.60	0.50
2:BB:83:ALA:O	2:BB:88:GLN:NE2	2.44	0.50
2:BB:129:THR:O	2:BB:130:LYS:HE2	2.11	0.50
4:BD:69:ARG:O	4:BD:72:ARG:HB2	2.11	0.50
4:BD:172:VAL:O	4:BD:179:GLY:HA2	2.11	0.50
5:BE:37:VAL:HG12	5:BE:116:VAL:HG21	1.93	0.50
6:BF:81:ASN:HB3	6:BF:84:VAL:CG1	2.41	0.50
10:BJ:15:HIS:CG	10:BJ:16:ARG:N	2.79	0.50
11:BK:86:LYS:HA	11:BK:113:THR:HG22	1.94	0.50
12:BL:31:GLY:HA3	12:BL:54:VAL:CG1	2.41	0.50
14:BN:2:LYS:N	60:BN:205:HOH:O	2.44	0.50
15:BO:3:SER:CB	15:BO:6:ALA:HB3	2.38	0.50
15:BO:87:ARG:O	15:BO:87:ARG:CD	2.60	0.50
16:BP:80:LYS:HB2	16:BP:80:LYS:NZ	2.26	0.50
22:BV:1:G:C6	22:BV:73:A:C2	2.99	0.50
25:CA:74:A:H4'	25:CA:75:G:OP2	2.10	0.50
25:CA:622:G:H2'	25:CA:623:C:H6	1.77	0.50
25:CA:763:G:C4	25:CA:765:C:C6	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:784:G:H5'	60:CA:3316:HOH:O	2.10	0.50
25:CA:898:C:C4	25:CA:899:A:N7	2.79	0.50
25:CA:920:A:C2	25:CA:921:C:C2	2.99	0.50
25:CA:923:G:H4'	47:CW:25:GLU:HG3	1.93	0.50
25:CA:1106:G:N2	25:CA:1107:G:H1'	2.26	0.50
25:CA:1138:G:N2	34:CJ:108:MET:HE2	2.26	0.50
25:CA:1470:A:H2'	25:CA:1471:G:O4'	2.12	0.50
25:CA:1535:A:C5'	25:CA:1536:C:H5	2.25	0.50
25:CA:1585:C:C2'	25:CA:1586:A:C5'	2.89	0.50
25:CA:1873:G:H2'	25:CA:1874:C:C6	2.47	0.50
25:CA:2714:G:C2'	25:CA:2715:C:H5'	2.42	0.50
26:CB:47:C:OP2	39:CO:3:LYS:CE	2.59	0.50
27:CC:43:ASN:HB3	27:CC:49:THR:HG21	1.93	0.50
29:CE:176:ASP:OD1	29:CE:178:VAL:N	2.44	0.50
31:CG:8:VAL:CG1	31:CG:49:LEU:CB	2.83	0.50
31:CG:148:ARG:NH2	31:CG:166:GLU:OE2	2.44	0.50
31:CG:154:GLU:HG2	31:CG:155:PRO:N	2.27	0.50
35:CK:48:PRO:O	35:CK:49:ARG:HG3	2.11	0.50
38:CN:9:GLN:O	38:CN:10:LEU:C	2.55	0.50
40:CP:17:PRO:HG3	40:CP:83:ILE:O	2.11	0.50
43:CS:66:ILE:O	43:CS:66:ILE:CG2	2.59	0.50
45:CU:101:THR:HG22	45:CU:102:ILE:N	2.26	0.50
47:CW:6:THR:O	47:CW:7:ARG:HB2	2.12	0.50
25:DA:5:A:H2'	25:DA:6:A:C8	2.46	0.50
25:DA:88:G:C6	25:DA:89:A:N7	2.80	0.50
25:DA:223:A:C5	25:DA:422:A:C8	2.98	0.50
25:DA:559:G:H2'	25:DA:560:C:O4'	2.12	0.50
25:DA:998:C:P	41:DQ:91:ARG:HH22	2.34	0.50
25:DA:1080:A:C2	25:DA:1081:U:C6	3.00	0.50
25:DA:1142:A:H4'	34:DJ:27:ARG:NH2	2.27	0.50
25:DA:1266:G:OP1	51:D0:15:ARG:NE	2.44	0.50
25:DA:1423:G:OP1	25:DA:1492:G:O2'	2.27	0.50
25:DA:1731:G:H2'	25:DA:1732:C:O5'	2.11	0.50
25:DA:1810:A:H2'	25:DA:1811:G:O4'	2.11	0.50
25:DA:2131:U:H5'	25:DA:2132:U:C5'	2.40	0.50
25:DA:2469:A:H4'	37:DM:55:ARG:HD3	1.94	0.50
25:DA:2531:A:H3'	25:DA:2532:G:H8	1.76	0.50
25:DA:2729:G:H2'	25:DA:2730:C:H6	1.77	0.50
25:DA:2849:U:N3	25:DA:2867:G:O4'	2.44	0.50
25:DA:2861:U:C2	25:DA:2862:G:C8	3.00	0.50
56:DB:27:C:OP1	39:DO:34:HIS:NE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:250:GLN:HE21	27:DC:250:GLN:HA	1.77	0.50
28:DD:57:ALA:O	28:DD:60:VAL:CG1	2.59	0.50
28:DD:148:GLN:HB2	28:DD:152:PRO:CG	2.41	0.50
29:DE:12:LEU:HD23	29:DE:13:THR:N	2.27	0.50
33:DI:72:THR:HG23	33:DI:115:ASP:HB3	1.92	0.50
34:DJ:3:THR:CG2	34:DJ:4:PHE:N	2.73	0.50
35:DK:86:LEU:N	35:DK:86:LEU:HD23	2.26	0.50
36:DL:96:LYS:HD3	36:DL:103:ILE:HA	1.93	0.50
37:DM:31:PHE:HD2	37:DM:132:THR:HG23	1.76	0.50
39:DO:28:VAL:O	39:DO:95:SER:HB3	2.11	0.50
39:DO:72:ALA:HA	39:DO:109:ALA:CB	2.41	0.50
42:DR:29:THR:O	42:DR:29:THR:CG2	2.59	0.50
50:DZ:35:VAL:CG2	50:DZ:37:ARG:CZ	2.90	0.50
55:D4:18:LYS:HG3	55:D4:23:ILE:HD13	1.93	0.50
1:AA:201:G:N1	1:AA:217:C:C2	2.80	0.50
1:AA:262:A:N6	1:AA:263:A:N6	2.60	0.50
1:AA:390:U:H2'	1:AA:391:G:H8	1.75	0.50
1:AA:390:U:H2'	1:AA:391:G:O5'	2.11	0.50
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.11	0.50
1:AA:1075:U:O2'	1:AA:1076:U:H5'	2.11	0.50
1:AA:1300:G:C6	1:AA:1334:G:C5	3.00	0.50
1:AA:1492:A:H3'	1:AA:1493:A:H8	1.75	0.50
2:AB:209:VAL:O	2:AB:210:THR:C	2.54	0.50
5:AE:37:VAL:HG23	5:AE:47:PHE:HA	1.92	0.50
8:AH:82:LEU:C	8:AH:82:LEU:CD2	2.84	0.50
8:AH:110:MET:CE	8:AH:115:ALA:N	2.74	0.50
11:AK:87:GLY:O	11:AK:92:ARG:HD2	2.10	0.50
14:AN:43:ASN:CA	14:AN:45:VAL:HG22	2.41	0.50
19:AS:4:LEU:C	19:AS:5:LYS:HG3	2.36	0.50
19:AS:52:ASN:OD1	19:AS:55:GLN:O	2.30	0.50
21:AU:24:LYS:HD2	21:AU:25:ALA:H	1.75	0.50
24:AY:64:ARG:HA	24:AY:103:LEU:HB2	1.92	0.50
1:BA:461:A:H8	1:BA:461:A:OP2	1.95	0.50
1:BA:815:A:H4'	1:BA:817:C:C4	2.46	0.50
1:BA:908:A:H2'	1:BA:909:A:H8	1.76	0.50
1:BA:1083:U:C5	1:BA:1084:G:C6	2.97	0.50
1:BA:1203:C:C5'	14:BN:67:THR:HB	2.41	0.50
2:BB:103:TRP:HZ3	2:BB:107:ARG:CZ	2.23	0.50
2:BB:205:ALA:C	2:BB:207:ARG:H	2.19	0.50
4:BD:12:ARG:HB3	4:BD:37:PRO:HG3	1.91	0.50
5:BE:14:LEU:CD1	5:BE:14:LEU:C	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:26:THR:O	6:BF:27:ALA:O	2.29	0.50
6:BF:81:ASN:HB3	6:BF:84:VAL:HG12	1.92	0.50
7:BG:105:GLU:O	7:BG:109:LYS:HG2	2.11	0.50
8:BH:33:VAL:O	8:BH:36:ALA:N	2.45	0.50
9:BI:37:TYR:CD2	9:BI:38:PHE:CE2	3.00	0.50
12:BL:42:LYS:HE3	12:BL:43:LYS:CE	2.42	0.50
13:BM:32:ILE:CD1	13:BM:58:GLU:HB3	2.42	0.50
14:BN:64:CYS:O	14:BN:66:GLN:N	2.44	0.50
19:BS:35:ARG:O	19:BS:36:ARG:C	2.54	0.50
25:CA:284:U:H2'	25:CA:285:G:H8	1.76	0.50
25:CA:1124:G:H1'	55:C4:38:GLY:OXT	2.11	0.50
25:CA:1368:G:O2'	25:CA:1369:G:H5'	2.12	0.50
25:CA:1547:C:C6	25:CA:1547:C:C3'	2.95	0.50
25:CA:1805:A:N3	27:CC:49:THR:HB	2.26	0.50
25:CA:2194:U:H2'	25:CA:2194:U:O2	2.12	0.50
25:CA:2216:G:H2'	25:CA:2217:G:C8	2.46	0.50
25:CA:2311:A:C8	30:CF:76:PHE:CG	2.99	0.50
25:CA:2798:U:H5'	25:CA:2798:U:H6	1.77	0.50
26:CB:20:G:C2'	26:CB:21:G:H5'	2.42	0.50
26:CB:103:U:O2'	26:CB:104:A:H5'	2.12	0.50
30:CF:16:MET:HE3	30:CF:16:MET:C	2.36	0.50
31:CG:49:LEU:HD12	31:CG:71:LEU:HD23	1.94	0.50
33:CI:21:PRO:HB2	33:CI:22:PRO:CD	2.30	0.50
33:CI:79:LEU:HA	33:CI:83:ALA:HB3	1.94	0.50
39:CO:110:ALA:HB1	39:CO:115:LEU:HD22	1.94	0.50
40:CP:80:VAL:HG11	40:CP:83:ILE:CD1	2.41	0.50
54:C3:54:LEU:O	54:C3:58:ILE:CD1	2.60	0.50
25:DA:290:U:O5'	25:DA:290:U:H6	1.95	0.50
25:DA:415:A:H2'	25:DA:416:U:H6	1.76	0.50
25:DA:532:A:HO2'	25:DA:2021:C:H5	1.52	0.50
25:DA:590:A:H2'	25:DA:591:U:C6	2.46	0.50
25:DA:622:G:O2'	25:DA:623:C:H5'	2.11	0.50
25:DA:668:A:H2'	25:DA:670:A:H62	1.77	0.50
25:DA:678:C:H2'	25:DA:679:C:C6	2.46	0.50
25:DA:1360:G:H3'	25:DA:1361:G:H8	1.77	0.50
25:DA:1401:G:C4	25:DA:1402:U:C6	3.00	0.50
25:DA:1537:G:H3'	25:DA:1537:G:N3	2.27	0.50
25:DA:1782:U:H2'	25:DA:2608:G:O2'	2.11	0.50
25:DA:2103:C:H2'	25:DA:2104:C:C6	2.45	0.50
25:DA:2207:C:H2'	25:DA:2208:C:C6	2.46	0.50
25:DA:2757:A:C2	25:DA:2758:A:C8	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2835:A:C2	25:DA:2879:A:N7	2.80	0.50
27:DC:150:GLY:O	27:DC:151:GLY:O	2.29	0.50
27:DC:173:LEU:CD2	27:DC:183:VAL:HG21	2.42	0.50
30:DF:28:PRO:O	30:DF:29:ARG:HB3	2.10	0.50
30:DF:45:ASP:HB3	30:DF:48:LEU:CB	2.41	0.50
31:DG:108:PHE:CE2	31:DG:151:ARG:CZ	2.94	0.50
32:DH:31:VAL:HG12	32:DH:32:PRO:HD3	1.92	0.50
32:DH:84:ALA:HB3	32:DH:148:ALA:CB	2.42	0.50
34:DJ:15:TRP:CZ2	34:DJ:135:GLN:HG2	2.46	0.50
34:DJ:31:GLU:CG	34:DJ:142:ILE:HD11	2.36	0.50
35:DK:51:LYS:O	35:DK:52:VAL:HG13	2.12	0.50
41:DQ:81:GLY:O	41:DQ:82:LEU:C	2.55	0.50
42:DR:6:GLN:HB3	42:DR:37:GLU:HB3	1.93	0.50
43:DS:84:ARG:HB2	43:DS:96:ILE:HG13	1.90	0.50
1:AA:45:G:N2	1:AA:398:U:C4	2.80	0.50
1:AA:234:C:H2'	1:AA:235:C:C6	2.47	0.50
1:AA:412:A:H1'	1:AA:413:G:C5'	2.41	0.50
1:AA:609:A:H2'	1:AA:610:U:C5'	2.40	0.50
1:AA:955:U:C5	1:AA:956:U:C4	3.00	0.50
1:AA:1462:C:H2'	1:AA:1463:U:H6	1.75	0.50
2:AB:95:TRP:CD2	2:AB:99:MET:HE3	2.47	0.50
2:AB:116:LEU:HG	2:AB:140:LEU:HD11	1.93	0.50
3:AC:93:ILE:HG22	3:AC:94:ALA:N	2.26	0.50
4:AD:53:GLN:NE2	4:AD:202:LEU:N	2.60	0.50
4:AD:158:LEU:HD11	4:AD:177:MET:HE2	1.94	0.50
5:AE:137:ARG:O	5:AE:138:ALA:C	2.50	0.50
7:AG:66:GLU:HG3	7:AG:69:ARG:NH2	2.25	0.50
7:AG:101:ARG:O	7:AG:104:VAL:N	2.45	0.50
9:AI:7:GLY:HA3	9:AI:84:ARG:C	2.36	0.50
10:AJ:28:THR:HG22	10:AJ:86:ALA:HB1	1.94	0.50
10:AJ:57:VAL:O	10:AJ:58:ASN:CB	2.56	0.50
11:AK:109:ILE:HG22	21:AU:16:ARG:NE	2.27	0.50
16:AP:51:ARG:HH11	16:AP:51:ARG:CB	2.24	0.50
17:AQ:37:ILE:H	17:AQ:37:ILE:HD12	1.77	0.50
18:AR:32:ILE:O	18:AR:32:ILE:CG1	2.59	0.50
24:AY:177:ALA:O	24:AY:178:ASP:C	2.53	0.50
1:BA:141:G:C2	1:BA:142:G:H1'	2.47	0.50
1:BA:202:G:O2'	1:BA:468:A:C8	2.59	0.50
1:BA:519:C:O2	1:BA:519:C:H2'	2.12	0.50
1:BA:731:G:OP1	1:BA:766:A:H1'	2.12	0.50
1:BA:951:G:OP2	13:BM:100:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:972:C:H4'	10:BJ:59:LYS:CG	2.42	0.50
1:BA:1062:U:O4	3:BC:2:GLN:HG2	2.12	0.50
1:BA:1450:U:O2'	1:BA:1451:U:H2'	2.12	0.50
1:BA:1505:G:H2'	23:BX:15:A:OP2	2.12	0.50
2:BB:150:ILE:C	2:BB:152:ASP:N	2.68	0.50
2:BB:172:ILE:O	2:BB:173:LYS:C	2.55	0.50
3:BC:6:PRO:C	3:BC:9:ILE:HG22	2.37	0.50
4:BD:5:GLY:O	4:BD:6:PRO:C	2.53	0.50
4:BD:96:ARG:HB3	4:BD:98:ASP:OD1	2.12	0.50
4:BD:168:THR:HB	4:BD:183:ARG:NH2	2.27	0.50
6:BF:97:THR:O	6:BF:98:GLU:CB	2.59	0.50
11:BK:84:MET:HA	11:BK:110:THR:O	2.11	0.50
13:BM:21:ILE:HG22	13:BM:22:TYR:N	2.26	0.50
15:BO:63:ARG:NH1	15:BO:67:ASP:OD2	2.45	0.50
20:BT:17:ARG:O	20:BT:21:ALA:HB2	2.11	0.50
21:BU:17:ARG:O	21:BU:20:ARG:N	2.45	0.50
25:CA:434:U:H4'	25:CA:435:C:OP1	2.11	0.50
25:CA:1535:A:H5"	25:CA:1536:C:H5	1.76	0.50
25:CA:1686:C:C2'	25:CA:1687:G:H5'	2.42	0.50
25:CA:1856:U:O2'	25:CA:1857:G:H5'	2.11	0.50
25:CA:2024:G:P	60:CA:3476:HOH:O	2.69	0.50
25:CA:2155:U:H2'	25:CA:2156:G:C4'	2.41	0.50
25:CA:2593:U:H2'	25:CA:2594:C:H6	1.76	0.50
28:CD:136:ASN:HD21	28:CD:139:SER:C	2.20	0.50
29:CE:154:ASP:OD2	29:CE:154:ASP:C	2.55	0.50
29:CE:189:THR:HG22	29:CE:191:ASP:N	2.27	0.50
30:CF:105:ILE:CG1	30:CF:106:ALA:N	2.74	0.50
33:CI:7:TYR:HA	33:CI:58:ILE:HG12	1.94	0.50
33:CI:56:VAL:HG22	33:CI:68:PHE:HD2	1.77	0.50
35:CK:66:LYS:HD2	35:CK:79:PHE:O	2.11	0.50
40:CP:103:THR:O	40:CP:104:GLY:C	2.54	0.50
50:CZ:3:THR:HG22	50:CZ:4:ILE:N	2.26	0.50
52:C1:34:GLU:CG	52:C1:49:LYS:HG3	2.42	0.50
25:DA:31:C:O3'	25:DA:1238:G:H5"	2.12	0.50
25:DA:60:G:C2	25:DA:74:A:C6	2.99	0.50
25:DA:464:U:H5'	53:D2:5:PHE:CE2	2.47	0.50
25:DA:802:A:OP1	60:DA:3330:HOH:O	2.19	0.50
25:DA:1060:U:O4'	25:DA:1062:G:C5'	2.60	0.50
25:DA:1233:C:C4	25:DA:1234:U:C5	2.99	0.50
25:DA:1344:U:O2'	25:DA:1345:C:P	2.69	0.50
25:DA:1383:A:N1	25:DA:1384:A:C2	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1678:A:C2'	25:DA:1679:A:H5'	2.42	0.50
25:DA:1853:A:N3	25:DA:2233:U:O2'	2.43	0.50
25:DA:1885:A:C4	25:DA:1886:U:C6	3.00	0.50
25:DA:2107:G:C2	25:DA:2108:A:H1'	2.47	0.50
25:DA:2209:G:C4	25:DA:2210:U:C5	2.99	0.50
25:DA:2311:A:H2	30:DF:84:ILE:HD11	1.75	0.50
25:DA:2326:C:O2'	25:DA:2327:A:O5'	2.26	0.50
25:DA:2348:U:O4	25:DA:2382:G:C6	2.64	0.50
25:DA:2465:C:H2'	25:DA:2466:C:H6	1.76	0.50
25:DA:2674:G:H2'	25:DA:2675:A:O4'	2.12	0.50
25:DA:2839:G:C5	25:DA:2840:C:C5	2.99	0.50
56:DB:49:C:C2'	56:DB:50:A:O5'	2.60	0.50
28:DD:4:LEU:HG	28:DD:32:ASN:OD1	2.11	0.50
29:DE:115:GLN:O	29:DE:116:ASP:HB2	2.12	0.50
30:DF:35:LEU:HD21	30:DF:90:LEU:CD1	2.42	0.50
35:DK:71:ARG:CZ	35:DK:77:ILE:HD11	2.41	0.50
46:DV:75:GLN:HB2	46:DV:92:VAL:CG2	2.42	0.50
49:DY:16:THR:HG22	49:DY:17:GLU:H	1.75	0.50
1:AA:218:U:O2'	1:AA:219:U:H5'	2.11	0.50
1:AA:234:C:H2'	1:AA:235:C:H6	1.77	0.50
1:AA:356:A:H2	1:AA:368:U:O2	1.94	0.50
1:AA:373:A:C2'	1:AA:374:A:O5'	2.60	0.50
1:AA:438:U:C2	1:AA:494:G:C6	2.99	0.50
1:AA:455:G:C2	1:AA:478:A:C2	3.00	0.50
1:AA:542:G:H2'	1:AA:543:U:H6	1.75	0.50
1:AA:625:U:H4'	16:AP:16:PHE:CE2	2.46	0.50
1:AA:643:C:C5'	8:AH:31:LEU:HD23	2.42	0.50
1:AA:796:C:O2'	1:AA:797:C:H5'	2.11	0.50
1:AA:852:G:C5	1:AA:853:C:C5	2.99	0.50
1:AA:974:A:H4'	1:AA:975:A:O5'	2.10	0.50
1:AA:1501:C:C2	1:AA:1504:G:C6	3.00	0.50
2:AB:14:HIS:CD2	2:AB:14:HIS:C	2.89	0.50
3:AC:2:GLN:C	3:AC:3:LYS:HG2	2.35	0.50
5:AE:45:VAL:C	5:AE:70:MET:HG3	2.37	0.50
5:AE:114:LEU:HG	5:AE:122:VAL:HG11	1.94	0.50
7:AG:20:GLU:OE2	7:AG:20:GLU:HA	2.11	0.50
14:AN:49:GLN:OE1	14:AN:49:GLN:CA	2.58	0.50
1:BA:160:A:H2'	1:BA:161:A:O4'	2.11	0.50
1:BA:349:A:C2'	1:BA:350:G:H5'	2.42	0.50
1:BA:378:G:C2	1:BA:386:C:C2	3.00	0.50
1:BA:383:A:C2'	1:BA:384:G:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:722:G:C8	1:BA:724:G:H1'	2.47	0.50
1:BA:833:G:C5	1:BA:834:U:C5	2.99	0.50
1:BA:841:C:N1	1:BA:843:U:H5'	2.27	0.50
1:BA:893:C:H2'	1:BA:894:G:H8	1.76	0.50
1:BA:1068:G:C2	1:BA:1069:C:C6	2.99	0.50
1:BA:1239:A:C2	1:BA:1297:G:C2	2.99	0.50
1:BA:1291:U:H2'	1:BA:1292:G:C8	2.47	0.50
2:BB:71:THR:HA	2:BB:92:ASN:O	2.11	0.50
2:BB:162:VAL:O	2:BB:184:ALA:CA	2.57	0.50
3:BC:14:VAL:HG11	3:BC:206:ILE:OXT	2.11	0.50
4:BD:202:LEU:HD12	4:BD:202:LEU:O	2.12	0.50
5:BE:106:ALA:CA	5:BE:124:ALA:HB3	2.41	0.50
7:BG:145:GLU:C	7:BG:147:ASN:H	2.18	0.50
7:BG:145:GLU:C	7:BG:147:ASN:N	2.69	0.50
10:BJ:86:ALA:O	10:BJ:90:LEU:HD12	2.11	0.50
12:BL:17:LYS:C	12:BL:17:LYS:HD2	2.36	0.50
17:BQ:46:HIS:HA	17:BQ:70:LYS:CE	2.42	0.50
19:BS:9:PHE:C	19:BS:9:PHE:CD1	2.90	0.50
19:BS:57:VAL:HG11	19:BS:74:ALA:CA	2.42	0.50
22:BV:8:U:H5"	22:BV:49:C:OP2	2.11	0.50
22:BV:38:A:C2'	22:BV:39:U:O5'	2.59	0.50
25:CA:229:C:C2'	25:CA:230:G:O5'	2.60	0.50
25:CA:1060:U:O4'	25:CA:1062:G:C4'	2.60	0.50
25:CA:1414:C:N3	25:CA:1415:U:H5	2.09	0.50
25:CA:1415:U:O2	25:CA:1415:U:C2'	2.59	0.50
25:CA:1478:G:H2'	25:CA:1479:G:C8	2.47	0.50
25:CA:2095:A:N1	25:CA:2194:U:O4	2.45	0.50
28:CD:12:THR:HG21	40:CP:8:GLU:HG2	1.92	0.50
29:CE:181:ILE:HG23	36:CL:2:ARG:HD3	1.94	0.50
31:CG:108:PHE:CE2	31:CG:151:ARG:CZ	2.94	0.50
33:CI:85:ILE:CG1	33:CI:88:GLY:HA2	2.42	0.50
36:CL:4:ASN:C	36:CL:5:THR:HG22	2.36	0.50
41:CQ:56:PHE:O	41:CQ:57:ARG:C	2.52	0.50
42:CR:21:ARG:CZ	42:CR:93:PHE:CE1	2.94	0.50
42:CR:39:LEU:O	42:CR:49:ILE:HG23	2.11	0.50
42:CR:74:ILE:N	42:CR:74:ILE:CD1	2.74	0.50
44:CT:49:LYS:CA	44:CT:49:LYS:HE3	2.42	0.50
25:DA:133:U:H3'	25:DA:133:U:H6	1.76	0.50
25:DA:453:A:H5"	60:DA:3241:HOH:O	2.12	0.50
25:DA:471:A:H2'	25:DA:472:A:O4'	2.12	0.50
25:DA:569:U:C4	25:DA:570:G:C6	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:993:G:O2'	25:DA:994:C:H5'	2.11	0.50
25:DA:1105:U:O2'	25:DA:1106:G:O5'	2.30	0.50
25:DA:1406:U:H2'	25:DA:1407:G:C8	2.46	0.50
25:DA:1737:G:C6	25:DA:1738:G:N1	2.80	0.50
25:DA:2313:C:O4'	30:DF:36:ASN:HB2	2.12	0.50
25:DA:2555:U:C5	25:DA:2556:C:C2	3.00	0.50
25:DA:2698:U:H2'	25:DA:2699:C:C6	2.47	0.50
27:DC:1:ALA:HA	27:DC:198:GLU:OE1	2.12	0.50
27:DC:124:LYS:CB	27:DC:125:PRO:HD2	2.42	0.50
27:DC:237:ARG:O	27:DC:238:ASN:O	2.30	0.50
31:DG:42:VAL:HG22	31:DG:43:LYS:N	2.25	0.50
31:DG:79:THR:HG22	31:DG:80:GLU:N	2.27	0.50
31:DG:106:LEU:CD1	31:DG:150:TYR:HB3	2.41	0.50
32:DH:100:ALA:O	32:DH:104:THR:HG23	2.11	0.50
49:DY:11:VAL:O	49:DY:12:GLU:C	2.52	0.50
50:DZ:30:ARG:HG2	50:DZ:33:HIS:HB2	1.92	0.50
1:AA:100:G:C5	1:AA:101:A:N7	2.80	0.50
1:AA:369:G:C6	1:AA:370:C:N4	2.80	0.50
1:AA:605:U:C2'	1:AA:606:G:H5'	2.42	0.50
1:AA:646:G:N1	1:AA:647:C:C4	2.80	0.50
1:AA:687:A:C2	1:AA:704:A:C5	2.99	0.50
1:AA:694:A:C2'	1:AA:695:A:O5'	2.60	0.50
1:AA:987:G:C2	1:AA:1219:A:C2	2.99	0.50
3:AC:166:TRP:N	3:AC:166:TRP:CD2	2.74	0.50
5:AE:14:LEU:CD1	5:AE:14:LEU:O	2.60	0.50
6:AF:1:MET:HG3	6:AF:66:ALA:C	2.37	0.50
6:AF:38:ARG:CG	6:AF:39:LEU:N	2.75	0.50
7:AG:130:LYS:N	7:AG:134:VAL:HG11	2.27	0.50
8:AH:52:GLY:O	8:AH:53:ASP:HB3	2.11	0.50
10:AJ:11:LYS:HA	10:AJ:70:HIS:O	2.11	0.50
12:AL:65:TYR:O	12:AL:96:THR:N	2.44	0.50
13:AM:44:ILE:N	13:AM:44:ILE:HD12	2.27	0.50
13:AM:84:CYS:HA	19:AS:72:GLU:O	2.12	0.50
13:AM:89:ARG:NH2	13:AM:94:LEU:HD12	2.26	0.50
15:AO:42:PHE:O	15:AO:46:LYS:HG2	2.11	0.50
1:BA:384:G:O2'	1:BA:385:C:C5'	2.60	0.50
1:BA:448:A:N3	1:BA:448:A:H2'	2.26	0.50
1:BA:751:U:C2'	1:BA:752:G:H5'	2.41	0.50
1:BA:1072:G:C8	1:BA:1073:U:C5	3.00	0.50
1:BA:1078:U:C2	5:BE:89:THR:HG21	2.47	0.50
1:BA:1179:A:C2'	1:BA:1180:A:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1240:U:C5	7:BG:115:MET:HG2	2.47	0.50
1:BA:1287:A:C6	1:BA:1288:A:C6	2.99	0.50
1:BA:1292:G:C6	1:BA:1293:C:C4	3.00	0.50
2:BB:53:LEU:C	2:BB:56:LEU:HB3	2.36	0.50
3:BC:137:VAL:O	3:BC:138:GLN:C	2.55	0.50
4:BD:160:LEU:O	4:BD:162:GLU:N	2.45	0.50
5:BE:79:THR:HG23	5:BE:80:LEU:O	2.11	0.50
5:BE:152:VAL:O	5:BE:154:ALA:N	2.45	0.50
9:BI:118:ARG:HH22	9:BI:122:ARG:NH2	2.10	0.50
11:BK:19:VAL:HG22	11:BK:82:GLU:HG2	1.93	0.50
13:BM:30:LYS:NZ	13:BM:40:GLU:HB3	2.27	0.50
15:BO:66:LEU:HD12	15:BO:66:LEU:H	1.76	0.50
21:BU:45:LYS:O	21:BU:49:ALA:HB2	2.11	0.50
25:CA:247:G:N7	25:CA:249:C:C2	2.79	0.50
25:CA:643:A:H1'	52:C1:43:ARG:NH2	2.27	0.50
25:CA:1128:G:O6	25:CA:2491:U:H5	1.94	0.50
25:CA:1138:G:C2	34:CJ:108:MET:HE2	2.47	0.50
25:CA:2178:C:H3'	25:CA:2178:C:H6	1.77	0.50
25:CA:2283:C:H2'	25:CA:2284:A:O5'	2.12	0.50
25:CA:2308:G:C5	30:CF:76:PHE:HZ	2.29	0.50
25:CA:2619:C:H5'	28:CD:155:VAL:O	2.12	0.50
27:CC:161:VAL:HG11	27:CC:173:LEU:HB3	1.94	0.50
27:CC:251:THR:O	27:CC:252:LYS:C	2.54	0.50
28:CD:3:GLY:HA3	28:CD:203:VAL:O	2.12	0.50
29:CE:146:VAL:O	29:CE:146:VAL:HG23	2.12	0.50
33:CI:33:ASN:HB3	33:CI:36:GLU:CG	2.42	0.50
33:CI:121:ILE:HG12	33:CI:124:MET:SD	2.51	0.50
34:CJ:140:LEU:HD11	34:CJ:142:ILE:HD13	1.93	0.50
36:CL:67:THR:O	36:CL:68:SER:O	2.29	0.50
36:CL:77:ILE:HG23	36:CL:100:ILE:HD11	1.94	0.50
37:CM:28:PHE:HB2	37:CM:104:GLU:OE2	2.12	0.50
38:CN:1:MET:O	38:CN:2:ARG:CB	2.59	0.50
38:CN:32:GLU:CD	38:CN:86:ARG:HH22	2.19	0.50
46:CV:25:LYS:HE2	46:CV:43:ASP:CA	2.42	0.50
48:CX:37:PHE:CE1	48:CX:58:ILE:HG21	2.46	0.50
25:DA:753:A:H2'	25:DA:754:U:H6	1.77	0.50
25:DA:871:U:H5"	37:DM:68:PHE:CE2	2.47	0.50
25:DA:1300:G:C2	25:DA:1626:A:C6	2.99	0.50
25:DA:1355:G:N3	25:DA:1356:G:C8	2.80	0.50
25:DA:1358:G:O6	25:DA:1371:G:C8	2.65	0.50
25:DA:1485:U:O2'	25:DA:1486:U:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1870:C:H5”	25:DA:1871:A:C5	2.47	0.50
25:DA:2357:G:H5’	25:DA:2358:A:OP2	2.12	0.50
25:DA:2532:G:C6	25:DA:2533:U:C4	2.99	0.50
25:DA:2561:U:O3’	35:DK:40:LYS:HD3	2.12	0.50
25:DA:2746:U:C4’	31:DG:138:GLN:HA	2.40	0.50
25:DA:2785:C:H2’	25:DA:2786:U:C6	2.46	0.50
27:DC:69:ASN:O	27:DC:70:LYS:C	2.54	0.50
27:DC:117:SER:HB3	27:DC:128:THR:HB	1.94	0.50
31:DG:146:ASP:O	31:DG:149:ALA:HB3	2.12	0.50
32:DH:78:VAL:HG11	32:DH:102:ALA:O	2.12	0.50
34:DJ:93:ILE:HA	34:DJ:97:PRO:HB3	1.94	0.50
35:DK:120:PRO:O	35:DK:121:GLU:CB	2.58	0.50
37:DM:42:THR:HA	37:DM:93:VAL:HG12	1.94	0.50
40:DP:88:ARG:HD2	40:DP:112:ARG:NH2	2.26	0.50
41:DQ:23:TYR:O	41:DQ:28:SER:HB3	2.12	0.50
44:DT:29:THR:HG23	44:DT:86:THR:HA	1.94	0.50
44:DT:69:ARG:HG2	44:DT:70:HIS:N	2.27	0.50
46:DV:29:ILE:O	46:DV:91:PHE:HB2	2.12	0.50
55:D4:7:VAL:O	55:D4:8:LYS:CG	2.60	0.50
1:AA:198:G:C2	1:AA:199:A:C8	2.99	0.50
1:AA:725:G:C2’	1:AA:726:C:H5’	2.42	0.50
1:AA:737:C:H2’	1:AA:738:C:C6	2.44	0.50
1:AA:774:G:N2	1:AA:806:C:C6	2.80	0.50
1:AA:947:G:H2’	1:AA:948:C:O4’	2.12	0.50
1:AA:1114:C:O2	1:AA:1114:C:C2’	2.58	0.50
1:AA:1294:G:C5	1:AA:1295:U:C5	3.00	0.50
1:AA:1296:C:H4’	1:AA:1302:C:N4	2.27	0.50
1:AA:1304:G:C5	1:AA:1305:G:C2	2.99	0.50
1:AA:1358:U:OP1	14:AN:75:ARG:HG3	2.12	0.50
2:AB:67:LEU:CD2	2:AB:69:VAL:HG23	2.41	0.50
4:AD:36:ALA:CA	4:AD:41:GLY:HA3	2.37	0.50
5:AE:95:MET:HB3	5:AE:124:ALA:HB2	1.93	0.50
8:AH:46:GLU:HB2	8:AH:63:LYS:HG2	1.93	0.50
8:AH:48:PHE:O	8:AH:49:LYS:HG3	2.10	0.50
9:AI:56:MET:HA	9:AI:59:LYS:HB2	1.92	0.50
17:AQ:16:MET:SD	17:AQ:16:MET:N	2.85	0.50
20:AT:22:SER:O	20:AT:23:ARG:C	2.55	0.50
22:AV:48:C:O2	22:AV:59:U:H1’	2.12	0.50
1:BA:88:U:C4	1:BA:89:U:C5	2.99	0.50
1:BA:215:C:C2’	1:BA:216:U:H5’	2.42	0.50
1:BA:853:C:C2’	1:BA:854:U:H5’	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:930:C:O2'	1:BA:931:C:H5'	2.12	0.50
1:BA:1014:A:C4	19:BS:33:TRP:CE3	3.00	0.50
1:BA:1072:G:N7	1:BA:1073:U:C5	2.80	0.50
1:BA:1106:G:C4	1:BA:1107:C:C5	3.00	0.50
1:BA:1212:U:H5'	1:BA:1213:A:C5	2.47	0.50
1:BA:1272:G:C2	1:BA:1273:C:N1	2.80	0.50
1:BA:1441:A:N7	1:BA:1442:G:C8	2.80	0.50
1:BA:1538:C:C6	1:BA:1538:C:OP2	2.65	0.50
2:BB:116:LEU:HB3	2:BB:140:LEU:CD1	2.39	0.50
2:BB:139:GLU:HB3	2:BB:143:LEU:HD21	1.94	0.50
3:BC:35:ASP:O	3:BC:38:VAL:CG2	2.59	0.50
4:BD:13:ARG:HG3	4:BD:55:ARG:HE	1.77	0.50
4:BD:97:LEU:HD12	4:BD:97:LEU:O	2.12	0.50
5:BE:9:GLU:HG3	5:BE:10:LEU:N	2.27	0.50
5:BE:76:ASN:OD1	5:BE:81:GLN:HG2	2.11	0.50
5:BE:104:ILE:H	5:BE:121:ASN:C	2.20	0.50
7:BG:24:LYS:CB	7:BG:100:MET:HE1	2.42	0.50
7:BG:88:VAL:HG22	7:BG:89:GLU:N	2.27	0.50
9:BI:5:TYR:HB2	9:BI:20:ILE:CB	2.40	0.50
10:BJ:35:GLN:HG2	10:BJ:77:VAL:HG23	1.93	0.50
25:CA:587:C:C2'	36:CL:19:LEU:HD11	2.42	0.50
25:CA:1172:C:N3	25:CA:1173:U:H1'	2.26	0.50
25:CA:1922:G:C6	25:CA:1923:U:C4	3.00	0.50
25:CA:2163:A:H3'	25:CA:2164:C:C4'	2.42	0.50
25:CA:2307:G:H22	25:CA:2311:A:C2'	2.25	0.50
25:CA:2318:G:C2'	25:CA:2319:G:H5'	2.41	0.50
25:CA:2639:A:C2	25:CA:2778:A:C8	3.00	0.50
27:CC:9:SER:O	27:CC:10:PRO:C	2.53	0.50
27:CC:93:VAL:HG11	27:CC:103:ILE:HD11	1.92	0.50
27:CC:200:MET:HG3	27:CC:201:LEU:HD12	1.94	0.50
27:CC:246:PRO:HG2	27:CC:247:TRP:CZ3	2.47	0.50
29:CE:7:ASP:O	29:CE:9:GLN:N	2.44	0.50
31:CG:93:TYR:CD2	31:CG:106:LEU:HA	2.47	0.50
37:CM:57:VAL:O	37:CM:58:LYS:C	2.53	0.50
38:CN:10:LEU:O	38:CN:11:ASN:C	2.53	0.50
40:CP:15:ASP:O	40:CP:16:VAL:C	2.55	0.50
49:CY:23:ARG:O	49:CY:24:GLU:C	2.55	0.50
25:DA:308:G:O2'	45:DU:16:LYS:HE2	2.12	0.50
25:DA:654:A:H3'	25:DA:654:A:N3	2.27	0.50
25:DA:988:A:C5'	50:DZ:11:SER:HB2	2.42	0.50
25:DA:1045:C:H4'	25:DA:1047:G:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1138:G:N3	34:DJ:108:MET:HE2	2.26	0.50
25:DA:1366:A:H2'	25:DA:1367:A:O4'	2.12	0.50
25:DA:1459:G:C2'	25:DA:1460:U:O5'	2.60	0.50
25:DA:1637:A:H5'	25:DA:1760:C:O2'	2.12	0.50
25:DA:2223:G:C2'	25:DA:2224:G:C5'	2.86	0.50
25:DA:2291:U:C2	25:DA:2292:U:C5	3.00	0.50
25:DA:2427:C:H5"	25:DA:2428:G:OP1	2.11	0.50
25:DA:2765:A:H3'	25:DA:2765:A:N3	2.26	0.50
25:DA:2793:C:H2'	25:DA:2794:C:C5	2.47	0.50
25:DA:2838:G:C6	25:DA:2839:G:C5	3.00	0.50
25:DA:2850:A:H2'	25:DA:2851:A:O4'	2.12	0.50
27:DC:56:GLY:O	27:DC:57:HIS:O	2.30	0.50
27:DC:73:ILE:N	27:DC:73:ILE:CD1	2.72	0.50
27:DC:129:LEU:O	27:DC:134:ILE:HD11	2.12	0.50
28:DD:1:MET:H3	28:DD:1:MET:HE3	1.77	0.50
30:DF:57:ALA:CB	30:DF:62:GLN:O	2.60	0.50
30:DF:102:LEU:HG	30:DF:107:VAL:CG2	2.42	0.50
30:DF:102:LEU:HG	30:DF:107:VAL:HG21	1.94	0.50
31:DG:124:CYS:HB3	31:DG:129:GLU:O	2.11	0.50
33:DI:9:LYS:HB2	33:DI:55:PRO:HB2	1.89	0.50
33:DI:10:LEU:O	33:DI:10:LEU:CD1	2.59	0.50
33:DI:56:VAL:CB	33:DI:70:THR:HB	2.41	0.50
37:DM:57:VAL:CG2	37:DM:58:LYS:O	2.60	0.50
43:DS:63:GLY:O	43:DS:64:ALA:CB	2.59	0.50
45:DU:33:VAL:HG13	45:DU:66:VAL:CG2	2.42	0.50
49:DY:18:LEU:HG	49:DY:22:LEU:HB2	1.93	0.50
55:D4:33:HIS:O	55:D4:35:GLN:HG2	2.12	0.50
55:D4:34:LYS:C	55:D4:35:GLN:HG2	2.37	0.50
1:AA:101:A:C6	1:AA:102:G:N7	2.80	0.49
1:AA:123:U:H4'	1:AA:290:C:O2	2.12	0.49
1:AA:439:U:HO2'	1:AA:440:C:P	2.35	0.49
1:AA:443:C:H2'	1:AA:444:G:O4'	2.11	0.49
1:AA:541:G:N3	1:AA:542:G:C8	2.80	0.49
1:AA:656:G:C5	1:AA:657:U:C5	2.99	0.49
1:AA:675:A:O4'	11:AK:117:HIS:CD2	2.65	0.49
1:AA:1399:C:O2	1:AA:1401:G:C5	2.65	0.49
1:AA:1497:G:O2'	1:AA:1498:U:H5'	2.12	0.49
4:AD:77:GLU:OE1	4:AD:77:GLU:CA	2.59	0.49
4:AD:173:ASP:OD1	4:AD:176:LYS:CE	2.60	0.49
7:AG:84:TYR:CE1	7:AG:150:PHE:HE2	2.30	0.49
9:AI:7:GLY:HA3	9:AI:84:ARG:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:10:GLY:O	16:AP:11:ALA:HB2	2.12	0.49
18:AR:26:ALA:O	18:AR:29:LYS:HE3	2.12	0.49
19:AS:19:GLU:C	19:AS:21:ALA:N	2.69	0.49
19:AS:80:ARG:HA	19:AS:80:ARG:NE	2.27	0.49
20:AT:4:LYS:O	20:AT:5:SER:C	2.54	0.49
21:AU:11:PHE:HD2	21:AU:11:PHE:H	1.59	0.49
21:AU:14:ALA:O	21:AU:15:LEU:HD12	2.12	0.49
21:AU:44:ARG:N	21:AU:44:ARG:HD2	2.27	0.49
22:AV:48:C:H2'	22:AV:59:U:O4'	2.12	0.49
24:AY:41:ILE:HG22	24:AY:52:LEU:CB	2.42	0.49
1:BA:132:C:H4'	20:BT:68:LYS:HE2	1.94	0.49
1:BA:200:G:C2'	1:BA:201:G:H5'	2.42	0.49
1:BA:1073:U:N3	1:BA:1074:G:C8	2.79	0.49
1:BA:1187:G:H2'	1:BA:1188:A:C8	2.47	0.49
1:BA:1317:C:N3	14:BN:53:ARG:HD3	2.27	0.49
1:BA:1388:C:H2'	1:BA:1389:C:H6	1.76	0.49
4:BD:107:GLY:HA3	4:BD:113:ALA:HB2	1.94	0.49
9:BI:27:ILE:HG12	9:BI:62:LEU:HD11	1.94	0.49
16:BP:73:ALA:O	16:BP:77:GLU:HB2	2.12	0.49
20:BT:4:LYS:O	20:BT:5:SER:C	2.54	0.49
22:BV:1:G:H2'	22:BV:2:C:H6	1.76	0.49
25:CA:1:G:C2	25:CA:2:G:C8	3.00	0.49
25:CA:383:C:N3	25:CA:391:A:N6	2.60	0.49
25:CA:989:G:C8	50:CZ:13:ILE:HD11	2.47	0.49
25:CA:1053:C:C4	25:CA:1054:A:C8	3.00	0.49
25:CA:1178:C:C5'	25:CA:1179:G:OP1	2.60	0.49
25:CA:1420:A:C6	25:CA:2211:A:N1	2.79	0.49
25:CA:2119:A:H61	25:CA:2167:U:H1'	1.77	0.49
25:CA:2209:G:C2	25:CA:2216:G:C2	3.00	0.49
25:CA:2272:U:H5"	25:CA:2273:A:OP1	2.12	0.49
26:CB:59:A:H2'	26:CB:60:C:O5'	2.12	0.49
30:CF:55:ASP:N	30:CF:55:ASP:OD2	2.44	0.49
31:CG:126:THR:HG22	31:CG:128:THR:H	1.76	0.49
32:CH:7:ASP:C	32:CH:15:LEU:HD22	2.38	0.49
36:CL:53:GLY:O	36:CL:54:GLN:C	2.55	0.49
39:CO:18:LEU:HD11	39:CO:91:SER:HB3	1.94	0.49
43:CS:59:GLU:HG3	43:CS:66:ILE:HD11	1.94	0.49
44:CT:5:GLU:O	44:CT:6:ARG:C	2.54	0.49
50:CZ:15:ARG:N	50:CZ:15:ARG:HD3	2.26	0.49
25:DA:998:C:P	41:DQ:91:ARG:NH2	2.84	0.49
25:DA:1071:G:H2'	25:DA:1072:C:H5"	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1714:U:O2	25:DA:1714:U:H2'	2.11	0.49
25:DA:2190:G:O2'	25:DA:2191:A:H5'	2.11	0.49
25:DA:2328:A:H2'	25:DA:2329:U:H6	1.74	0.49
25:DA:2580:U:C5	25:DA:2581:G:C6	3.00	0.49
30:DF:34:THR:CG2	30:DF:89:THR:HA	2.42	0.49
30:DF:102:LEU:C	30:DF:107:VAL:HG23	2.37	0.49
32:DH:7:ASP:HB2	32:DH:35:LYS:CE	2.41	0.49
32:DH:34:GLY:O	32:DH:35:LYS:HB2	2.11	0.49
32:DH:66:ASN:HA	32:DH:138:VAL:HG11	1.94	0.49
32:DH:135:HIS:CD2	32:DH:137:GLU:HG2	2.47	0.49
33:DI:37:PHE:C	33:DI:41:PHE:HB2	2.37	0.49
33:DI:53:PRO:O	33:DI:73:PRO:CB	2.60	0.49
34:DJ:130:HIS:O	34:DJ:130:HIS:CG	2.65	0.49
36:DL:2:ARG:CA	36:DL:5:THR:HG23	2.42	0.49
36:DL:77:ILE:HD12	36:DL:77:ILE:N	2.26	0.49
42:DR:68:ARG:HA	42:DR:91:GLN:O	2.12	0.49
49:DY:9:LYS:N	49:DY:12:GLU:HB2	2.27	0.49
49:DY:9:LYS:N	49:DY:12:GLU:HG3	2.25	0.49
49:DY:42:LEU:O	49:DY:46:VAL:HG23	2.12	0.49
50:DZ:43:ILE:C	50:DZ:45:GLY:H	2.19	0.49
55:D4:36:ARG:O	55:D4:37:GLN:C	2.55	0.49
1:AA:135:C:O2	16:AP:1:MET:N	2.34	0.49
1:AA:318:G:C4	1:AA:336:A:C2	3.00	0.49
1:AA:390:U:H2'	1:AA:391:G:C8	2.47	0.49
1:AA:414:A:C6	1:AA:431:A:C2	3.00	0.49
1:AA:437:U:H4'	4:AD:153:ARG:NH2	2.27	0.49
1:AA:570:G:H1'	1:AA:820:U:N3	2.27	0.49
1:AA:721:G:C6	1:AA:733:G:N2	2.80	0.49
1:AA:977:A:H1'	1:AA:982:U:O4	2.11	0.49
1:AA:1167:A:H5"	1:AA:1168:U:OP2	2.12	0.49
1:AA:1171:A:C2	1:AA:1172:C:C2	3.00	0.49
1:AA:1413:A:C4	1:AA:1414:U:C6	3.00	0.49
2:AB:62:ARG:O	2:AB:63:LYS:CB	2.60	0.49
2:AB:133:ALA:C	2:AB:135:MET:H	2.20	0.49
4:AD:57:LYS:CB	4:AD:199:ILE:HB	2.40	0.49
4:AD:164:ARG:C	4:AD:166:LYS:N	2.66	0.49
5:AE:19:ARG:NH1	5:AE:30:PHE:CD2	2.79	0.49
5:AE:104:ILE:HA	5:AE:122:VAL:HG23	1.94	0.49
5:AE:113:VAL:CG2	5:AE:114:LEU:N	2.75	0.49
5:AE:148:SER:HB2	5:AE:151:MET:HB2	1.93	0.49
6:AF:38:ARG:HG3	6:AF:39:LEU:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:25:PHE:N	7:AG:100:MET:HE1	2.27	0.49
7:AG:67:ASN:O	7:AG:137:ARG:NH1	2.45	0.49
8:AH:104:SER:H	8:AH:125:ILE:HD13	1.76	0.49
10:AJ:17:LEU:HD23	10:AJ:17:LEU:C	2.37	0.49
11:AK:71:ASP:O	11:AK:72:ALA:HB2	2.12	0.49
11:AK:111:ASP:OD1	11:AK:113:THR:HG23	2.12	0.49
17:AQ:13:SER:HB3	17:AQ:21:VAL:CG1	2.42	0.49
20:AT:28:ARG:CA	20:AT:31:ILE:HD12	2.41	0.49
20:AT:53:MET:O	20:AT:56:ILE:HG23	2.11	0.49
24:AY:76:SER:HB3	24:AY:77:PRO:CD	2.39	0.49
1:BA:9:G:OP1	5:BE:107:GLY:CA	2.60	0.49
1:BA:91:U:C2	1:BA:92:U:C6	3.00	0.49
1:BA:108:G:N3	1:BA:108:G:H5'	2.27	0.49
1:BA:187:G:H5"	1:BA:188:C:OP2	2.12	0.49
1:BA:457:G:C5	1:BA:458:U:C5	2.99	0.49
1:BA:549:C:C2'	1:BA:550:G:O5'	2.60	0.49
1:BA:1004:A:C2	1:BA:1026:G:N3	2.80	0.49
1:BA:1085:U:H5'	1:BA:1094:G:N2	2.27	0.49
1:BA:1234:C:O2'	1:BA:1235:U:H5'	2.12	0.49
1:BA:1245:C:C5	1:BA:1246:A:N7	2.80	0.49
2:BB:40:ILE:HG21	2:BB:201:GLY:HA2	1.94	0.49
2:BB:119:GLN:HA	2:BB:122:ASP:HB2	1.93	0.49
3:BC:178:ARG:HH11	3:BC:178:ARG:HG2	1.76	0.49
4:BD:32:LYS:O	4:BD:32:LYS:CG	2.59	0.49
5:BE:104:ILE:CD1	5:BE:114:LEU:HB3	2.43	0.49
7:BG:125:ASP:O	7:BG:129:ASN:HA	2.12	0.49
9:BI:16:ALA:HB2	9:BI:66:VAL:HB	1.94	0.49
12:BL:32:VAL:HG23	12:BL:55:ARG:O	2.12	0.49
13:BM:22:TYR:CD2	13:BM:68:LEU:HD23	2.47	0.49
15:BO:69:LEU:O	15:BO:70:LYS:C	2.55	0.49
16:BP:60:TRP:O	16:BP:63:GLN:N	2.44	0.49
25:CA:1:G:N3	25:CA:2:G:C8	2.80	0.49
25:CA:593:U:H2'	25:CA:594:U:C6	2.47	0.49
25:CA:1081:U:OP2	25:CA:1081:U:H6	1.95	0.49
25:CA:1767:G:O2'	25:CA:1768:C:H5'	2.12	0.49
25:CA:1856:U:H2'	25:CA:1857:G:H5'	1.93	0.49
25:CA:1924:C:H3'	25:CA:1925:C:H5'	1.93	0.49
26:CB:77:U:C2'	26:CB:78:A:H5'	2.41	0.49
28:CD:142:VAL:HB	28:CD:143:PRO:CD	2.42	0.49
30:CF:118:ALA:HB1	30:CF:166:ARG:CD	2.36	0.49
39:CO:31:THR:O	39:CO:32:PRO:C	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CV:40:ILE:HG21	46:CV:42:LEU:HD21	1.93	0.49
46:CV:43:ASP:OD1	46:CV:43:ASP:C	2.54	0.49
46:CV:50:MET:C	46:CV:52:ALA:N	2.68	0.49
49:CY:3:ALA:C	49:CY:5:GLU:H	2.20	0.49
25:DA:170:U:O2'	25:DA:171:U:H5'	2.13	0.49
25:DA:446:G:OP1	41:DQ:2:ARG:HD2	2.12	0.49
25:DA:508:A:N6	43:DS:9:HIS:CE1	2.80	0.49
25:DA:569:U:H1'	25:DA:947:A:O4'	2.11	0.49
25:DA:1229:C:H2'	25:DA:1230:A:H8	1.76	0.49
25:DA:1557:C:C5	25:DA:1558:C:C2	3.00	0.49
25:DA:1789:A:H2'	25:DA:1790:C:C6	2.47	0.49
25:DA:1926:U:H1'	25:DA:1929:G:O6	2.12	0.49
25:DA:2135:A:N1	25:DA:2136:G:H1'	2.27	0.49
25:DA:2162:G:C5'	25:DA:2171:A:H2'	2.42	0.49
25:DA:2311:A:N7	30:DF:76:PHE:CE2	2.80	0.49
25:DA:2407:A:H2'	25:DA:2408:U:H6	1.76	0.49
25:DA:2648:G:H2'	25:DA:2649:C:O4'	2.12	0.49
25:DA:2817:U:P	38:DN:99:LYS:HE2	2.53	0.49
56:DB:21:G:C5	56:DB:22:U:C6	3.00	0.49
27:DC:259:ASN:O	27:DC:260:LYS:HB2	2.12	0.49
30:DF:2:LYS:HG2	30:DF:3:LEU:N	2.27	0.49
31:DG:26:LYS:O	31:DG:26:LYS:HG3	2.11	0.49
31:DG:67:ALA:O	31:DG:70:LEU:N	2.46	0.49
32:DH:34:GLY:O	32:DH:35:LYS:CG	2.59	0.49
34:DJ:42:ALA:O	41:DQ:63:ARG:HD3	2.12	0.49
34:DJ:55:ILE:HD11	34:DJ:132:HIS:HB2	1.94	0.49
37:DM:21:ALA:HB3	37:DM:100:LYS:N	2.27	0.49
37:DM:49:ALA:HB1	37:DM:124:LEU:HD21	1.94	0.49
40:DP:31:VAL:HG23	40:DP:32:VAL:N	2.27	0.49
1:AA:64:G:N7	1:AA:99:C:C4	2.80	0.49
1:AA:233:C:C2	1:AA:234:C:C5	3.01	0.49
1:AA:256:U:H2'	1:AA:257:G:H8	1.76	0.49
1:AA:406:G:C4	1:AA:407:U:C5	3.01	0.49
1:AA:429:U:H1'	1:AA:430:A:C5'	2.41	0.49
1:AA:439:U:C2'	1:AA:440:C:O5'	2.60	0.49
1:AA:451:A:H5'	1:AA:452:A:N3	2.27	0.49
1:AA:828:U:H2'	1:AA:829:G:O5'	2.12	0.49
1:AA:1085:U:C6	1:AA:1094:G:N1	2.80	0.49
1:AA:1181:G:C2	1:AA:1182:G:N2	2.80	0.49
1:AA:1314:C:N3	1:AA:1315:U:C5	2.80	0.49
2:AB:66:ILE:O	2:AB:67:LEU:CB	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:81:ASP:OD1	2:AB:83:ALA:HB3	2.13	0.49
2:AB:150:ILE:O	2:AB:151:LYS:O	2.30	0.49
3:AC:15:LYS:HG3	3:AC:16:PRO:HD2	1.93	0.49
3:AC:39:ARG:C	3:AC:41:TYR:N	2.70	0.49
6:AF:46:GLN:HA	6:AF:56:LYS:HG2	1.95	0.49
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.27	0.49
10:AJ:67:ILE:HG13	14:AN:96:LEU:HD13	1.94	0.49
11:AK:34:THR:OG1	11:AK:35:ASP:N	2.45	0.49
17:AQ:11:VAL:O	17:AQ:12:VAL:CG1	2.60	0.49
24:AY:44:GLU:HA	24:AY:44:GLU:OE1	2.12	0.49
1:BA:104:G:O2'	1:BA:105:G:H5'	2.12	0.49
1:BA:468:A:N7	1:BA:469:C:O2	2.45	0.49
1:BA:995:C:H5'	14:BN:7:ALA:HB1	1.95	0.49
1:BA:1110:A:H2'	1:BA:1111:A:C8	2.48	0.49
1:BA:1124:G:H5'	10:BJ:37:ARG:O	2.11	0.49
1:BA:1261:A:C5'	1:BA:1262:C:OP2	2.60	0.49
2:BB:54:ALA:O	2:BB:57:ASN:O	2.29	0.49
2:BB:141:GLU:CD	2:BB:141:GLU:H	2.21	0.49
2:BB:169:HIS:CD2	2:BB:170:ILE:H	2.30	0.49
4:BD:202:LEU:C	4:BD:204:SER:H	2.20	0.49
8:BH:77:VAL:HG11	8:BH:124:ILE:CG1	2.41	0.49
9:BI:11:ARG:O	9:BI:11:ARG:HG3	2.11	0.49
9:BI:98:ARG:HA	9:BI:103:VAL:CG1	2.41	0.49
11:BK:51:PHE:CE2	11:BK:61:ALA:HA	2.47	0.49
13:BM:16:ILE:O	13:BM:20:SER:OG	2.30	0.49
16:BP:78:VAL:HG22	16:BP:78:VAL:O	2.11	0.49
17:BQ:14:ASP:HA	17:BQ:20:ILE:HD11	1.92	0.49
20:BT:34:VAL:O	20:BT:38:ILE:HG13	2.12	0.49
22:BV:49:C:N3	22:BV:50:U:C5	2.79	0.49
25:CA:353:C:H2'	25:CA:353:C:O2	2.12	0.49
25:CA:897:C:O5'	25:CA:897:C:C6	2.64	0.49
25:CA:905:A:C6	25:CA:906:U:C5	3.01	0.49
25:CA:996:A:C2	25:CA:997:G:C8	3.00	0.49
25:CA:1026:G:H2'	25:CA:1027:A:H8	1.74	0.49
25:CA:1417:C:C2'	25:CA:1418:G:H5'	2.43	0.49
25:CA:1690:A:H2'	25:CA:1691:C:O4'	2.12	0.49
25:CA:1734:G:N3	25:CA:1735:A:C8	2.80	0.49
25:CA:1783:A:C2	25:CA:2588:G:O4'	2.65	0.49
25:CA:2221:G:H2'	25:CA:2222:C:C5'	2.42	0.49
25:CA:2485:G:H5"	37:CM:45:GLN:HE21	1.77	0.49
27:CC:176:ARG:HH21	27:CC:176:ARG:CG	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:120:VAL:HA	29:CE:188:MET:O	2.12	0.49
30:CF:48:LEU:O	30:CF:51:ASN:HB2	2.11	0.49
33:CI:56:VAL:HG22	33:CI:68:PHE:CD2	2.47	0.49
43:CS:29:VAL:CG1	43:CS:55:ILE:HD11	2.43	0.49
47:CW:32:ILE:HG23	47:CW:54:THR:HG23	1.94	0.49
49:CY:9:LYS:C	49:CY:11:VAL:H	2.20	0.49
25:DA:1178:C:H2'	25:DA:1179:G:C5	2.47	0.49
25:DA:1347:A:C6	25:DA:1348:C:C2	3.00	0.49
25:DA:1414:C:C2	25:DA:1415:U:C5	3.00	0.49
25:DA:1586:A:H2'	25:DA:1587:G:O4'	2.12	0.49
25:DA:1708:C:H2'	25:DA:1709:U:H6	1.78	0.49
25:DA:1971:U:C6	25:DA:1971:U:C3'	2.95	0.49
25:DA:2154:A:H2'	25:DA:2155:U:C6	2.47	0.49
25:DA:2390:U:OP2	54:D3:34:LYS:HE2	2.12	0.49
25:DA:2472:G:N2	25:DA:2529:G:C6	2.80	0.49
27:DC:29:PHE:O	27:DC:30:ALA:C	2.56	0.49
36:DL:91:ASP:HB2	36:DL:94:THR:HG21	1.93	0.49
36:DL:95:LEU:O	36:DL:96:LYS:C	2.55	0.49
40:DP:26:GLU:HB2	40:DP:43:GLU:HG3	1.93	0.49
43:DS:29:VAL:O	43:DS:33:LEU:HB2	2.12	0.49
49:DY:24:GLU:O	49:DY:27:ASN:HB2	2.12	0.49
1:AA:568:G:O2'	1:AA:574:A:N1	2.28	0.49
1:AA:632:U:H3'	1:AA:632:U:C6	2.47	0.49
1:AA:794:A:H2'	1:AA:795:C:C6	2.48	0.49
1:AA:809:G:C2'	1:AA:810:C:O5'	2.60	0.49
1:AA:874:G:C4	1:AA:875:U:C6	3.00	0.49
1:AA:1323:G:C6	1:AA:1324:A:C6	3.00	0.49
2:AB:63:LYS:HB3	2:AB:65:LYS:HE2	1.95	0.49
2:AB:81:ASP:C	2:AB:83:ALA:N	2.70	0.49
3:AC:51:VAL:HA	3:AC:69:THR:HA	1.95	0.49
3:AC:86:LEU:HA	3:AC:89:VAL:HG22	1.94	0.49
3:AC:119:ILE:O	3:AC:120:THR:C	2.55	0.49
3:AC:148:ILE:O	3:AC:169:GLU:O	2.30	0.49
5:AE:45:VAL:HG22	5:AE:117:ALA:CB	2.42	0.49
5:AE:103:GLY:O	5:AE:104:ILE:HG22	2.12	0.49
6:AF:39:LEU:CD1	6:AF:39:LEU:C	2.85	0.49
6:AF:84:VAL:O	6:AF:84:VAL:HG13	2.11	0.49
7:AG:45:ALA:CB	7:AG:119:LEU:HB3	2.42	0.49
8:AH:4:ASP:HB2	8:AH:80:PRO:HG2	1.93	0.49
8:AH:31:LEU:C	8:AH:31:LEU:HD13	2.37	0.49
9:AI:114:LYS:O	9:AI:115:VAL:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:19:THR:C	13:AM:24:VAL:HG23	2.38	0.49
16:AP:79:ASN:O	16:AP:80:LYS:HB2	2.12	0.49
18:AR:67:LEU:HD23	18:AR:68:PRO:HD3	1.95	0.49
20:AT:34:VAL:CG1	20:AT:78:LEU:HD22	2.42	0.49
20:AT:54:GLN:HG3	20:AT:75:LYS:NZ	2.27	0.49
22:AV:18:G:H2'	22:AV:18:G:N3	2.27	0.49
24:AY:108:GLU:O	24:AY:109:GLU:C	2.55	0.49
1:BA:98:A:H2'	1:BA:99:C:H6	1.77	0.49
1:BA:211:G:H2'	1:BA:212:G:O4'	2.11	0.49
1:BA:327:A:O3'	1:BA:328:C:H4'	2.13	0.49
1:BA:596:A:N1	1:BA:645:G:C4	2.79	0.49
1:BA:624:C:H4'	16:BP:10:GLY:O	2.11	0.49
1:BA:631:C:C5'	1:BA:632:U:H5'	2.41	0.49
1:BA:681:A:H2'	1:BA:682:G:O4'	2.11	0.49
1:BA:1061:G:H2'	1:BA:1062:U:C5'	2.42	0.49
1:BA:1083:U:C5	1:BA:1084:G:C5	3.01	0.49
1:BA:1195:C:N3	1:BA:1197:A:C8	2.81	0.49
1:BA:1223:C:P	19:BS:77:ARG:NH1	2.85	0.49
1:BA:1342:C:H5"	9:BI:126:PHE:HE2	1.77	0.49
1:BA:1478:U:O2'	1:BA:1479:C:H5'	2.13	0.49
5:BE:25:LYS:HA	5:BE:25:LYS:HE2	1.94	0.49
6:BF:61:LEU:CG	6:BF:62:MET:H	2.25	0.49
8:BH:88:LYS:C	8:BH:90:GLU:H	2.18	0.49
9:BI:27:ILE:HG13	9:BI:62:LEU:HD21	1.94	0.49
13:BM:45:SER:O	13:BM:46:GLU:HB3	2.13	0.49
16:BP:53:ASP:OD2	16:BP:56:ARG:HG2	2.11	0.49
25:CA:580:U:O3'	41:CQ:30:VAL:HG13	2.13	0.49
25:CA:898:C:H2'	25:CA:899:A:O4'	2.13	0.49
25:CA:1327:A:N6	25:CA:1328:A:C2	2.80	0.49
25:CA:1424:G:H2'	25:CA:1425:G:O4'	2.12	0.49
25:CA:1530:G:H5'	25:CA:1531:C:OP2	2.12	0.49
25:CA:1599:U:P	44:CT:40:LYS:HG3	2.53	0.49
25:CA:2181:U:O2'	25:CA:2182:U:H5'	2.12	0.49
25:CA:2309:A:N6	25:CA:2310:C:N4	2.60	0.49
25:CA:2875:C:H2'	25:CA:2876:G:O5'	2.12	0.49
25:CA:2884:U:O2	25:CA:2884:U:O4'	2.30	0.49
28:CD:55:LYS:HD2	28:CD:60:VAL:HG22	1.93	0.49
29:CE:149:ILE:HD11	29:CE:172:ALA:N	2.27	0.49
32:CH:3:VAL:HA	32:CH:39:ALA:N	2.28	0.49
32:CH:31:VAL:HG12	32:CH:32:PRO:CD	2.42	0.49
33:CI:18:ASN:HD21	33:CI:27:LEU:HD21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:71:LYS:N	33:CI:71:LYS:HD2	2.27	0.49
34:CJ:24:THR:O	34:CJ:25:LEU:C	2.55	0.49
37:CM:74:THR:O	37:CM:75:GLU:HG3	2.13	0.49
38:CN:79:LEU:HD12	38:CN:79:LEU:H	1.76	0.49
49:CY:17:GLU:HA	49:CY:17:GLU:OE2	2.13	0.49
25:DA:53:A:N7	25:DA:54:G:C8	2.81	0.49
25:DA:83:A:H5"	45:DU:1:ALA:N	2.28	0.49
25:DA:223:A:N7	25:DA:422:A:H1'	2.27	0.49
25:DA:881:G:C2	25:DA:897:C:O2	2.66	0.49
25:DA:942:G:H2'	25:DA:943:A:O4'	2.12	0.49
25:DA:1169:A:C2	25:DA:1181:U:O2	2.66	0.49
25:DA:1448:G:C4	25:DA:1449:G:C8	3.01	0.49
25:DA:1816:C:C5	27:DC:61:TYR:CD1	3.00	0.49
25:DA:2127:G:C4'	25:DA:2128:G:OP1	2.57	0.49
25:DA:2199:A:C5	25:DA:2225:A:C2	3.00	0.49
25:DA:2292:U:H2'	25:DA:2293:G:C8	2.46	0.49
25:DA:2335:A:C8	25:DA:2337:G:N7	2.80	0.49
25:DA:2345:G:C5	25:DA:2381:A:N1	2.81	0.49
25:DA:2531:A:H5'	31:DG:156:TYR:CZ	2.48	0.49
25:DA:2839:G:H2'	25:DA:2840:C:H6	1.78	0.49
27:DC:94:LEU:HG	27:DC:95:TYR:O	2.12	0.49
29:DE:18:THR:HG22	29:DE:19:PHE:CD2	2.47	0.49
29:DE:83:VAL:HG11	29:DE:86:ALA:HA	1.94	0.49
29:DE:129:PRO:HG3	29:DE:156:ASN:OD1	2.11	0.49
30:DF:133:GLU:HB3	30:DF:136:ILE:HG23	1.95	0.49
31:DG:43:LYS:N	31:DG:43:LYS:HE3	2.28	0.49
32:DH:31:VAL:CG1	32:DH:32:PRO:CD	2.91	0.49
33:DI:19:PRO:HG2	33:DI:23:VAL:HG22	1.93	0.49
36:DL:135:ILE:O	36:DL:140:GLY:HA3	2.12	0.49
38:DN:73:ASN:OD1	38:DN:76:VAL:HG11	2.12	0.49
39:DO:93:ASP:OD2	39:DO:95:SER:HA	2.12	0.49
39:DO:104:GLN:O	39:DO:107:ALA:HB3	2.11	0.49
43:DS:29:VAL:HG11	43:DS:55:ILE:CD1	2.42	0.49
44:DT:7:LEU:CD2	44:DT:46:ALA:HA	2.42	0.49
45:DU:17:ASP:O	45:DU:18:LYS:C	2.53	0.49
57:DW:62:LYS:O	57:DW:78:ILE:HG23	2.12	0.49
51:D0:35:GLU:OE2	51:D0:45:ASP:HB2	2.13	0.49
1:AA:66:A:C2'	1:AA:67:C:H5'	2.42	0.49
1:AA:575:G:HO2'	1:AA:821:G:H5'	1.76	0.49
1:AA:609:A:O5'	1:AA:609:A:C8	2.66	0.49
1:AA:858:G:O2'	1:AA:859:G:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:996:A:C2	1:AA:1046:A:H5'	2.47	0.49
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.46	0.49
2:AB:30:ILE:HG12	2:AB:38:HIS:HB2	1.95	0.49
2:AB:103:TRP:HZ2	2:AB:153:MET:HG2	1.77	0.49
5:AE:55:VAL:O	5:AE:58:ALA:HB3	2.13	0.49
7:AG:145:GLU:HG3	7:AG:148:LYS:HE2	1.94	0.49
8:AH:88:LYS:HG3	8:AH:89:ASP:N	2.27	0.49
20:AT:23:ARG:O	20:AT:24:ARG:C	2.55	0.49
23:AX:10:G:C6	23:AX:11:U:N3	2.81	0.49
24:AY:140:VAL:O	24:AY:142:ALA:N	2.45	0.49
1:BA:64:G:C8	1:BA:99:C:C4	3.01	0.49
1:BA:270:A:H2'	1:BA:271:C:O4'	2.13	0.49
1:BA:321:A:C2	1:BA:333:U:O2	2.65	0.49
1:BA:921:U:H2'	1:BA:922:G:O4'	2.12	0.49
1:BA:1004:A:C2	1:BA:1026:G:C4	3.01	0.49
1:BA:1272:G:N2	1:BA:1273:C:H1'	2.27	0.49
3:BC:133:MET:HE3	3:BC:167:TYR:CB	2.41	0.49
4:BD:149:LYS:NZ	4:BD:177:MET:HB3	2.26	0.49
5:BE:100:GLU:O	5:BE:100:GLU:OE2	2.30	0.49
6:BF:47:LEU:HG	6:BF:56:LYS:N	2.27	0.49
7:BG:14:ASP:OD2	7:BG:16:LYS:N	2.45	0.49
7:BG:68:VAL:HG21	7:BG:103:ILE:HD11	1.93	0.49
15:BO:50:HIS:O	15:BO:53:ARG:HB3	2.13	0.49
19:BS:28:LYS:HB3	19:BS:29:PRO:CD	2.43	0.49
19:BS:43:MET:O	19:BS:44:ILE:C	2.56	0.49
19:BS:44:ILE:CD1	19:BS:63:ASP:HA	2.42	0.49
20:BT:83:ASN:HA	20:BT:86:ALA:H	1.78	0.49
25:CA:535:G:H2'	25:CA:536:G:H5'	1.94	0.49
25:CA:627:A:C5	25:CA:637:A:N7	2.80	0.49
25:CA:630:G:N2	25:CA:634:C:C4	2.79	0.49
25:CA:1039:A:H2'	25:CA:1040:A:O5'	2.13	0.49
25:CA:1595:C:H2'	25:CA:1595:C:O2	2.12	0.49
25:CA:1872:A:H2'	25:CA:1873:G:O4'	2.13	0.49
25:CA:1936:A:H2	25:CA:1943:U:H3	1.56	0.49
25:CA:2247:A:H2'	25:CA:2248:C:H6	1.77	0.49
25:CA:2748:A:C2	25:CA:2757:A:C5	3.01	0.49
26:CB:53:A:H2'	26:CB:54:G:C5'	2.43	0.49
27:CC:161:VAL:CG2	27:CC:175:LEU:HD23	2.42	0.49
28:CD:32:ASN:N	28:CD:32:ASN:HD22	2.09	0.49
30:CF:153:ILE:N	30:CF:153:ILE:HD13	2.27	0.49
32:CH:53:GLU:HG2	32:CH:57:LYS:HD3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:54:ILE:HG13	33:CI:73:PRO:HB3	1.94	0.49
33:CI:115:ASP:O	33:CI:116:MET:CB	2.60	0.49
35:CK:70:ARG:CD	35:CK:76:VAL:HG22	2.43	0.49
36:CL:78:ARG:CZ	36:CL:113:ALA:HB1	2.42	0.49
37:CM:125:PRO:C	37:CM:126:ILE:CG2	2.86	0.49
38:CN:23:ASN:O	38:CN:24:MET:C	2.54	0.49
40:CP:50:ARG:O	40:CP:56:SER:HA	2.13	0.49
53:C2:12:ARG:CG	53:C2:13:ASN:N	2.75	0.49
25:DA:149:A:H2'	25:DA:150:U:O5'	2.11	0.49
25:DA:586:A:N1	25:DA:809:G:O2'	2.34	0.49
25:DA:643:A:H2'	25:DA:643:A:N3	2.26	0.49
25:DA:870:U:C4	25:DA:871:U:C5	3.00	0.49
25:DA:1544:A:N6	25:DA:1545:A:N1	2.60	0.49
25:DA:1788:C:H2'	25:DA:1789:A:H5'	1.95	0.49
25:DA:2293:G:C6	25:DA:2340:A:N1	2.80	0.49
25:DA:2316:G:H4'	30:DF:124:ARG:HD3	1.95	0.49
25:DA:2377:A:H2'	25:DA:2378:A:H5'	1.94	0.49
25:DA:2473:U:C4	25:DA:2474:U:C5	3.00	0.49
56:DB:46:A:C5	56:DB:47:C:C4	3.01	0.49
27:DC:66:PHE:CE2	27:DC:155:ARG:NH2	2.80	0.49
27:DC:170:TYR:HD2	27:DC:184:GLU:HA	1.77	0.49
29:DE:149:ILE:HD12	29:DE:150:THR:N	2.26	0.49
31:DG:8:VAL:HG23	31:DG:68:ARG:CD	2.41	0.49
32:DH:41:LYS:O	32:DH:44:ILE:HG12	2.12	0.49
32:DH:112:LYS:HA	32:DH:115:VAL:HG23	1.95	0.49
34:DJ:84:ILE:O	34:DJ:84:ILE:HG23	2.11	0.49
35:DK:47:ILE:HB	35:DK:48:PRO:HD3	1.93	0.49
36:DL:2:ARG:HA	36:DL:5:THR:CG2	2.41	0.49
36:DL:91:ASP:CB	36:DL:94:THR:CG2	2.91	0.49
41:DQ:8:ILE:O	41:DQ:12:ARG:HG3	2.11	0.49
41:DQ:51:GLN:HA	41:DQ:54:ARG:HG3	1.95	0.49
44:DT:29:THR:HG23	44:DT:86:THR:CA	2.42	0.49
45:DU:94:PHE:CD1	45:DU:94:PHE:C	2.91	0.49
48:DX:26:ARG:HG3	48:DX:27:ARG:N	2.23	0.49
55:D4:10:LEU:HD12	55:D4:33:HIS:HA	1.94	0.49
1:AA:11:G:C2	1:AA:24:U:O2	2.65	0.49
1:AA:407:U:O2'	4:AD:112:GLU:HG3	2.13	0.49
1:AA:429:U:O2	1:AA:430:A:C8	2.65	0.49
1:AA:445:G:C2'	1:AA:446:G:H5'	2.43	0.49
1:AA:496:A:H2'	1:AA:496:A:N3	2.26	0.49
1:AA:646:G:C6	1:AA:647:C:C4	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:658:C:C4	1:AA:659:U:H5	2.29	0.49
1:AA:929:G:C6	1:AA:930:C:C4	3.00	0.49
1:AA:1061:G:C5'	1:AA:1062:U:OP2	2.60	0.49
1:AA:1300:G:C5	1:AA:1334:G:C6	3.01	0.49
2:AB:112:ARG:O	2:AB:116:LEU:HB2	2.12	0.49
2:AB:127:LYS:O	2:AB:128:LEU:O	2.30	0.49
2:AB:136:ARG:O	2:AB:139:GLU:CB	2.60	0.49
2:AB:170:ILE:O	2:AB:171:ALA:C	2.55	0.49
3:AC:39:ARG:HG2	3:AC:54:ILE:HG12	1.93	0.49
3:AC:54:ILE:O	3:AC:54:ILE:CG1	2.60	0.49
3:AC:86:LEU:O	3:AC:89:VAL:CG2	2.61	0.49
4:AD:3:TYR:O	4:AD:4:LEU:CB	2.60	0.49
4:AD:156:ALA:HA	4:AD:159:GLU:HB3	1.94	0.49
7:AG:22:LEU:CD2	7:AG:61:PHE:CZ	2.94	0.49
10:AJ:53:ILE:HD11	10:AJ:63:ASP:CG	2.38	0.49
10:AJ:59:LYS:HE3	10:AJ:59:LYS:N	2.26	0.49
12:AL:43:LYS:CB	12:AL:44:PRO:HD3	2.43	0.49
13:AM:106:ARG:HH11	13:AM:106:ARG:CG	2.25	0.49
16:AP:48:GLU:OE2	16:AP:51:ARG:HG3	2.11	0.49
17:AQ:16:MET:HB2	17:AQ:19:SER:HB3	1.95	0.49
19:AS:5:LYS:HD2	19:AS:6:LYS:HG2	1.94	0.49
1:BA:87:C:H2'	1:BA:88:U:C1'	2.43	0.49
1:BA:338:A:H2'	1:BA:339:C:C6	2.48	0.49
1:BA:396:C:H2'	1:BA:397:A:H5"	1.95	0.49
1:BA:919:A:C4	1:BA:920:U:C5	3.01	0.49
1:BA:976:G:N2	1:BA:1362:A:O2'	2.46	0.49
1:BA:978:A:C4'	1:BA:1322:C:C5	2.94	0.49
1:BA:1061:G:H2'	1:BA:1062:U:O5'	2.13	0.49
1:BA:1221:G:H5"	19:BS:76:THR:HG21	1.93	0.49
1:BA:1244:G:N2	1:BA:1294:G:C4	2.81	0.49
1:BA:1306:A:H2'	1:BA:1307:U:C6	2.48	0.49
1:BA:1317:C:C4	14:BN:53:ARG:CD	2.96	0.49
5:BE:24:VAL:HG23	5:BE:25:LYS:N	2.27	0.49
5:BE:106:ALA:HB1	5:BE:124:ALA:HB2	1.93	0.49
6:BF:68:GLN:HA	6:BF:71:ILE:CG2	2.43	0.49
8:BH:113:ARG:O	8:BH:116:ARG:HB3	2.12	0.49
9:BI:79:ARG:NH1	9:BI:102:PHE:CD1	2.81	0.49
10:BJ:34:ALA:N	10:BJ:78:GLU:HG2	2.27	0.49
11:BK:110:THR:HA	21:BU:4:LYS:HA	1.94	0.49
21:BU:25:ALA:HA	21:BU:28:LEU:HB3	1.95	0.49
25:CA:228:C:H4'	25:CA:229:C:H5"	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:277:G:O2'	25:CA:361:G:C6	2.59	0.49
25:CA:547:A:N7	25:CA:548:G:C1'	2.71	0.49
25:CA:994:C:H1'	42:CR:10:LYS:HE3	1.95	0.49
25:CA:1591:A:H2'	25:CA:1592:C:O4'	2.13	0.49
25:CA:1665:A:N3	35:CK:1:MET:CE	2.76	0.49
25:CA:2514:U:H2'	25:CA:2515:C:C6	2.48	0.49
27:CC:96:LYS:HE2	27:CC:96:LYS:HA	1.95	0.49
28:CD:47:ALA:HA	28:CD:84:LEU:HG	1.94	0.49
28:CD:47:ALA:HB1	28:CD:82:PHE:O	2.13	0.49
29:CE:3:LEU:O	29:CE:11:ALA:HA	2.12	0.49
30:CF:168:LEU:O	30:CF:168:LEU:HG	2.13	0.49
31:CG:16:VAL:HG22	31:CG:25:ILE:CD1	2.43	0.49
31:CG:71:LEU:O	31:CG:72:ASN:C	2.55	0.49
33:CI:52:LEU:HD11	33:CI:81:LYS:HE2	1.95	0.49
36:CL:23:ILE:O	36:CL:24:GLY:C	2.55	0.49
36:CL:110:VAL:HB	36:CL:127:VAL:HG22	1.95	0.49
36:CL:124:GLY:C	36:CL:125:LEU:HD12	2.38	0.49
37:CM:97:GLN:CD	37:CM:97:GLN:N	2.70	0.49
44:CT:28:ASN:ND2	44:CT:91:GLN:HB3	2.28	0.49
45:CU:4:ILE:HG22	45:CU:5:ARG:N	2.27	0.49
52:C1:33:LEU:H	52:C1:51:ALA:CB	2.25	0.49
25:DA:483:A:H4'	45:DU:46:LYS:HA	1.92	0.49
25:DA:850:U:O2	50:DZ:46:MET:HE1	2.13	0.49
25:DA:861:A:C2	25:DA:917:A:C4	3.00	0.49
25:DA:945:A:H4'	25:DA:946:C:OP2	2.11	0.49
25:DA:1054:A:N6	25:DA:1055:G:C6	2.81	0.49
25:DA:1241:A:N7	25:DA:1242:U:C5	2.81	0.49
25:DA:1345:C:H5'	25:DA:1396:U:H5	1.77	0.49
25:DA:1391:U:O2	25:DA:1394:U:C4	2.65	0.49
25:DA:1410:G:N3	25:DA:1593:A:N1	2.60	0.49
25:DA:1491:G:C6	25:DA:1500:G:C2	3.00	0.49
25:DA:2296:U:H4'	25:DA:2297:A:OP1	2.12	0.49
25:DA:2372:U:C4'	52:D1:45:HIS:CD2	2.96	0.49
60:DA:3254:HOH:O	36:DL:35:HIS:HD2	1.95	0.49
28:DD:13:ARG:HD3	28:DD:21:SER:OG	2.12	0.49
28:DD:85:ALA:O	28:DD:86:GLU:CB	2.61	0.49
30:DF:37:MET:HB2	30:DF:56:LEU:HD11	1.94	0.49
30:DF:69:ALA:HB3	30:DF:81:GLY:H	1.78	0.49
33:DI:4:VAL:HA	33:DI:7:TYR:CE1	2.48	0.49
34:DJ:74:TYR:CG	34:DJ:92:MET:HE2	2.48	0.49
35:DK:104:THR:O	35:DK:106:GLU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:108:ASP:O	39:DO:112:GLU:HG3	2.12	0.49
41:DQ:48:ASP:O	41:DQ:49:ARG:C	2.54	0.49
41:DQ:103:VAL:O	41:DQ:104:ALA:C	2.56	0.49
43:DS:5:ALA:CB	43:DS:54:ALA:HB2	2.42	0.49
45:DU:85:ARG:HD3	45:DU:87:GLU:HG3	1.94	0.49
51:D0:33:SER:HB3	51:D0:47:TYR:CD1	2.48	0.49
1:AA:5:U:H4'	1:AA:6:G:C4	2.47	0.49
1:AA:472:U:C5	1:AA:473:U:C5	3.00	0.49
1:AA:600:A:C4	1:AA:639:G:N2	2.80	0.49
1:AA:803:G:C6	1:AA:804:U:N3	2.81	0.49
1:AA:1044:A:C5	1:AA:1045:C:H1'	2.47	0.49
1:AA:1485:U:H2'	1:AA:1486:G:C8	2.48	0.49
1:AA:1537:U:O5'	1:AA:1537:U:H6	1.95	0.49
6:AF:12:PRO:O	6:AF:13:ASP:C	2.56	0.49
8:AH:1:SER:O	8:AH:4:ASP:N	2.44	0.49
9:AI:87:MET:HG2	9:AI:88:GLU:N	2.27	0.49
11:AK:82:GLU:HG3	11:AK:108:ASN:HD22	1.77	0.49
14:AN:42:TRP:H	14:AN:42:TRP:HE3	1.60	0.49
15:AO:41:HIS:HD2	15:AO:42:PHE:CE2	2.29	0.49
16:AP:1:MET:HE3	16:AP:1:MET:N	2.27	0.49
17:AQ:62:GLU:N	17:AQ:72:TRP:CE3	2.81	0.49
1:BA:71:A:C8	1:BA:71:A:C3'	2.96	0.49
1:BA:363:A:H2'	1:BA:364:A:C8	2.47	0.49
1:BA:577:G:H1'	1:BA:816:A:N3	2.28	0.49
1:BA:623:C:C2	1:BA:624:C:C6	3.01	0.49
1:BA:972:C:H4'	10:BJ:59:LYS:HE3	1.95	0.49
1:BA:1058:G:H2'	1:BA:1059:C:O5'	2.12	0.49
1:BA:1222:G:H5"	19:BS:77:ARG:NH1	2.28	0.49
1:BA:1284:C:H2'	1:BA:1285:A:C8	2.48	0.49
1:BA:1345:U:C5	1:BA:1377:A:C2	3.00	0.49
2:BB:183:PHE:CD1	2:BB:197:PHE:HB2	2.46	0.49
2:BB:224:ARG:O	2:BB:225:SER:CB	2.60	0.49
3:BC:57:GLU:HG3	3:BC:64:ARG:HB3	1.94	0.49
3:BC:178:ARG:HG2	3:BC:178:ARG:NH1	2.28	0.49
4:BD:94:GLU:OE2	4:BD:103:ARG:NH1	2.46	0.49
6:BF:39:LEU:HD12	6:BF:40:GLU:C	2.37	0.49
6:BF:61:LEU:HG	6:BF:62:MET:H	1.78	0.49
16:BP:44:SER:OG	16:BP:46:LYS:CG	2.60	0.49
22:BV:56:C:H2'	22:BV:56:C:O2	2.11	0.49
25:CA:1:G:H2'	25:CA:2:G:H8	1.78	0.49
25:CA:894:U:H2'	25:CA:895:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1223:G:P	42:CR:68:ARG:HH12	2.35	0.49
25:CA:1599:U:H2'	25:CA:1600:C:C6	2.48	0.49
25:CA:2152:G:C4	25:CA:2153:C:C6	3.00	0.49
25:CA:2167:U:H2'	25:CA:2169:A:OP2	2.13	0.49
25:CA:2183:A:H2'	25:CA:2184:A:H8	1.77	0.49
25:CA:2204:G:OP2	27:CC:146:LYS:HE3	2.13	0.49
27:CC:194:VAL:HG22	27:CC:195:GLY:N	2.27	0.49
29:CE:134:LEU:HD23	29:CE:160:ALA:O	2.12	0.49
30:CF:20:ASN:O	30:CF:20:ASN:ND2	2.45	0.49
31:CG:9:VAL:HG12	31:CG:9:VAL:O	2.13	0.49
31:CG:54:ARG:O	31:CG:55:ASP:C	2.56	0.49
33:CI:32:VAL:HG21	33:CI:58:ILE:CG2	2.42	0.49
34:CJ:31:GLU:O	34:CJ:35:ARG:HG3	2.13	0.49
37:CM:92:TRP:C	37:CM:93:VAL:CG1	2.85	0.49
41:CQ:40:LYS:O	41:CQ:41:ALA:C	2.54	0.49
46:CV:80:HIS:CD2	46:CV:81:PRO:CD	2.95	0.49
25:DA:258:G:H1'	36:DL:104:GLN:NE2	2.27	0.49
25:DA:333:G:C4	25:DA:334:C:C5	3.01	0.49
25:DA:830:G:H1'	25:DA:2448:A:N1	2.28	0.49
25:DA:919:U:C4	25:DA:920:A:C5	3.00	0.49
25:DA:1030:C:H2'	25:DA:1030:C:O2	2.12	0.49
25:DA:1050:A:C4	25:DA:2751:G:C2	3.01	0.49
25:DA:1073:A:C3'	25:DA:1074:G:H5'	2.42	0.49
25:DA:1179:G:N7	25:DA:1180:U:C1'	2.76	0.49
25:DA:1180:U:H5'	25:DA:1181:U:OP2	2.13	0.49
25:DA:1342:A:N7	25:DA:1397:U:C2	2.81	0.49
25:DA:1448:G:C6	25:DA:1449:G:C6	3.01	0.49
25:DA:1465:G:C2	25:DA:1466:U:C2	3.00	0.49
25:DA:2006:C:O5'	25:DA:2006:C:H6	1.95	0.49
25:DA:2177:C:N4	25:DA:2178:C:N4	2.60	0.49
56:DB:43:C:O2'	30:DF:91:ARG:HG3	2.13	0.49
56:DB:55:U:H2'	56:DB:56:G:O4'	2.12	0.49
29:DE:161:ALA:HB1	29:DE:167:VAL:HG12	1.95	0.49
30:DF:121:PHE:CE1	30:DF:127:TYR:HB2	2.48	0.49
31:DG:30:GLY:C	31:DG:78:VAL:HG12	2.37	0.49
32:DH:14:SER:HA	32:DH:15:LEU:CD2	2.42	0.49
32:DH:30:LEU:C	32:DH:31:VAL:O	2.53	0.49
35:DK:99:ILE:N	35:DK:99:ILE:CD1	2.75	0.49
36:DL:59:ARG:HB3	36:DL:59:ARG:CZ	2.41	0.49
36:DL:92:LEU:CD2	36:DL:124:GLY:HA3	2.42	0.49
38:DN:1:MET:O	38:DN:3:HIS:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DP:47:ILE:O	40:DP:48:ALA:HB2	2.12	0.49
43:DS:46:LEU:O	43:DS:49:LYS:HB2	2.12	0.49
45:DU:44:HIS:HB3	45:DU:56:GLY:O	2.11	0.49
46:DV:89:ILE:HG21	46:DV:91:PHE:CE2	2.48	0.49
57:DW:22:PHE:O	57:DW:23:GLY:C	2.56	0.49
51:D0:16:ARG:O	51:D0:17:SER:C	2.55	0.49
51:D0:31:LYS:CG	51:D0:32:THR:N	2.75	0.49
52:D1:50:GLU:O	52:D1:51:ALA:HB2	2.13	0.49
1:AA:149:A:C1'	1:AA:1446:A:C2	2.96	0.49
1:AA:1006:G:C2	1:AA:1007:U:C2	3.01	0.49
1:AA:1060:U:H2'	1:AA:1061:G:H8	1.78	0.49
1:AA:1118:U:H5"	9:AI:105:ARG:HG3	1.95	0.49
2:AB:95:TRP:CH2	2:AB:174:GLU:CD	2.91	0.49
2:AB:129:THR:HB	2:AB:131:LYS:HB3	1.95	0.49
2:AB:195:VAL:HG12	2:AB:197:PHE:C	2.37	0.49
3:AC:22:PHE:C	3:AC:22:PHE:HD2	2.20	0.49
3:AC:59:PRO:HD2	3:AC:62:SER:O	2.12	0.49
3:AC:129:PHE:O	3:AC:130:ARG:C	2.55	0.49
4:AD:168:THR:CG2	4:AD:183:ARG:NH2	2.75	0.49
5:AE:22:LYS:HB3	5:AE:29:ILE:HG23	1.94	0.49
5:AE:39:GLY:HA2	5:AE:44:ARG:O	2.13	0.49
5:AE:100:GLU:O	5:AE:100:GLU:HG3	2.12	0.49
5:AE:100:GLU:OE2	5:AE:102:THR:HA	2.12	0.49
6:AF:17:GLN:HE21	6:AF:17:GLN:HA	1.78	0.49
7:AG:82:SER:CB	7:AG:84:TYR:CD2	2.96	0.49
10:AJ:33:GLY:HA3	10:AJ:83:THR:OG1	2.11	0.49
13:AM:11:HIS:C	13:AM:43:LYS:HE3	2.38	0.49
13:AM:22:TYR:CD2	13:AM:68:LEU:HD23	2.48	0.49
13:AM:70:ARG:HD2	13:AM:74:MET:CE	2.43	0.49
14:AN:87:ALA:HB3	14:AN:93:ILE:HD11	1.94	0.49
15:AO:80:LEU:O	15:AO:84:LEU:HB2	2.13	0.49
15:AO:85:GLY:O	15:AO:86:LEU:HB3	2.13	0.49
16:AP:53:ASP:C	16:AP:53:ASP:OD1	2.55	0.49
17:AQ:60:ILE:HG23	17:AQ:72:TRP:HE3	1.78	0.49
21:AU:14:ALA:O	21:AU:15:LEU:CB	2.60	0.49
22:AV:17:C:O3'	22:AV:18:G:H4'	2.12	0.49
24:AY:59:THR:O	24:AY:66:LEU:HD22	2.13	0.49
24:AY:77:PRO:O	24:AY:81:LYS:HG2	2.13	0.49
1:BA:9:G:OP1	5:BE:107:GLY:HA3	2.13	0.49
1:BA:19:A:C4	1:BA:917:G:N2	2.81	0.49
1:BA:204:G:C2'	1:BA:205:A:O5'	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:207:C:O2'	1:BA:213:G:N2	2.46	0.49
1:BA:659:U:C2'	1:BA:660:C:O5'	2.61	0.49
1:BA:677:U:H3	1:BA:713:G:H1	1.59	0.49
1:BA:715:A:H1'	1:BA:777:A:N1	2.28	0.49
1:BA:811:C:H4'	1:BA:900:A:N6	2.28	0.49
1:BA:942:G:N3	1:BA:942:G:H2'	2.28	0.49
1:BA:1052:U:H5"	1:BA:1053:G:OP2	2.12	0.49
1:BA:1151:A:H5'	10:BJ:44:THR:H	1.78	0.49
1:BA:1250:A:H4'	9:BI:69:GLY:O	2.12	0.49
1:BA:1315:U:O4	1:BA:1316:G:C6	2.66	0.49
1:BA:1315:U:O4	1:BA:1316:G:N1	2.45	0.49
2:BB:71:THR:HG22	2:BB:72:LYS:H	1.78	0.49
3:BC:18:ASN:HA	3:BC:55:VAL:CG1	2.42	0.49
4:BD:57:LYS:HE2	4:BD:68:GLU:OE1	2.13	0.49
5:BE:94:PHE:CZ	5:BE:96:GLN:CG	2.96	0.49
7:BG:3:ARG:HG3	7:BG:4:ARG:N	2.28	0.49
8:BH:19:ALA:C	8:BH:21:LYS:N	2.71	0.49
9:BI:28:VAL:O	9:BI:64:ILE:CG1	2.61	0.49
10:BJ:10:LEU:HB2	10:BJ:18:ILE:HD11	1.94	0.49
11:BK:37:GLN:HA	11:BK:37:GLN:OE1	2.11	0.49
12:BL:23:LEU:C	12:BL:25:ALA:H	2.20	0.49
17:BQ:8:GLN:HA	17:BQ:8:GLN:HE21	1.77	0.49
17:BQ:44:HIS:CE1	17:BQ:69:THR:HG21	2.47	0.49
20:BT:42:ASP:O	20:BT:43:LYS:C	2.53	0.49
25:CA:1495:A:O2'	25:CA:1496:A:C5'	2.60	0.49
25:CA:1838:C:H4'	25:CA:1839:G:H8	1.77	0.49
25:CA:2520:C:C6	25:CA:2567:G:H1'	2.48	0.49
27:CC:210:ALA:O	27:CC:215:VAL:HB	2.12	0.49
28:CD:97:SER:O	28:CD:99:GLU:N	2.46	0.49
33:CI:70:THR:HA	33:CI:71:LYS:HD2	1.95	0.49
36:CL:68:SER:O	36:CL:69:ARG:HB2	2.13	0.49
39:CO:49:VAL:O	39:CO:49:VAL:HG12	2.11	0.49
44:CT:69:ARG:O	44:CT:69:ARG:CG	2.60	0.49
49:CY:22:LEU:HG	49:CY:23:ARG:H	1.78	0.49
25:DA:60:G:N7	25:DA:62:U:C6	2.80	0.49
25:DA:333:G:H2'	25:DA:334:C:C6	2.47	0.49
25:DA:616:A:H2'	25:DA:617:G:H5'	1.95	0.49
25:DA:857:G:H5'	57:DW:65:PHE:CD1	2.48	0.49
25:DA:1062:G:C2	25:DA:1063:G:N1	2.81	0.49
25:DA:1064:C:H4'	33:DI:90:GLY:N	2.28	0.49
25:DA:1066:U:H2'	25:DA:1066:U:O2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1220:G:N2	25:DA:1230:A:C4	2.81	0.49
25:DA:1420:A:C5	25:DA:2211:A:C6	3.00	0.49
25:DA:1494:A:N3	25:DA:1494:A:H2'	2.27	0.49
25:DA:1584:U:H3'	25:DA:1584:U:O2	2.13	0.49
25:DA:2112:G:H5'	25:DA:2113:U:C5	2.47	0.49
25:DA:2370:G:C6	25:DA:2371:G:C5	3.00	0.49
25:DA:2537:U:H2'	25:DA:2538:C:C6	2.48	0.49
25:DA:2692:G:C6	25:DA:2718:G:C6	3.01	0.49
56:DB:33:G:C4	56:DB:50:A:C2	3.01	0.49
28:DD:181:ASP:OD2	28:DD:184:ARG:HD2	2.12	0.49
30:DF:3:LEU:O	30:DF:4:HIS:C	2.55	0.49
31:DG:42:VAL:CA	31:DG:43:LYS:HE2	2.42	0.49
32:DH:32:PRO:HB3	48:DX:38:TRP:CB	2.42	0.49
33:DI:40:ALA:HB3	33:DI:68:PHE:HZ	1.77	0.49
34:DJ:13:ARG:HG2	34:DJ:51:GLY:O	2.13	0.49
49:DY:24:GLU:C	49:DY:28:LEU:HD12	2.38	0.49
1:AA:423:G:H3'	1:AA:423:G:N3	2.28	0.49
1:AA:516:U:C4	1:AA:517:G:C6	3.00	0.49
1:AA:564:C:H2'	1:AA:565:U:O4'	2.12	0.49
1:AA:735:C:O2'	1:AA:736:C:H5'	2.13	0.49
1:AA:1300:G:C4	1:AA:1334:G:C6	3.01	0.49
4:AD:53:GLN:HE21	4:AD:202:LEU:N	2.10	0.49
15:AO:34:GLN:HB3	15:AO:58:MET:HE2	1.94	0.49
15:AO:86:LEU:O	15:AO:87:ARG:HB3	2.13	0.49
20:AT:66:ILE:O	20:AT:66:ILE:CG2	2.60	0.49
22:AV:46:G:H4'	22:AV:47:U:OP1	2.13	0.49
22:AV:63:G:H2'	22:AV:64:A:C8	2.47	0.49
1:BA:29:U:H5'	1:BA:296:U:OP1	2.12	0.49
1:BA:91:U:N3	1:BA:92:U:C5	2.81	0.49
1:BA:338:A:H2'	1:BA:339:C:O4'	2.13	0.49
1:BA:658:C:C1'	15:BO:21:THR:HG21	2.43	0.49
1:BA:692:U:O2'	1:BA:694:A:N7	2.37	0.49
1:BA:913:A:H4'	1:BA:914:A:OP1	2.12	0.49
1:BA:938:A:C6	1:BA:939:G:C5	3.01	0.49
1:BA:1032:G:N2	1:BA:1033:G:C8	2.81	0.49
1:BA:1211:U:C1'	1:BA:1213:A:C2	2.95	0.49
1:BA:1216:A:H2'	1:BA:1217:C:C6	2.47	0.49
1:BA:1540:U:HO3'	21:BU:17:ARG:CZ	2.25	0.49
2:BB:137:THR:O	2:BB:139:GLU:N	2.45	0.49
3:BC:32:LEU:O	3:BC:32:LEU:HD12	2.12	0.49
4:BD:61:ARG:NH1	4:BD:68:GLU:HG2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:55:VAL:HB	5:BE:56:PRO:HD2	1.95	0.49
5:BE:104:ILE:HD11	5:BE:114:LEU:CB	2.43	0.49
6:BF:66:ALA:HB1	6:BF:67:PRO:HD2	1.95	0.49
7:BG:104:VAL:O	7:BG:108:ARG:N	2.45	0.49
8:BH:29:SER:O	8:BH:32:LYS:HB2	2.13	0.49
9:BI:16:ALA:HB2	9:BI:66:VAL:CG2	2.43	0.49
9:BI:88:GLU:CG	9:BI:89:TYR:N	2.76	0.49
9:BI:117:LEU:N	9:BI:117:LEU:HD12	2.28	0.49
11:BK:64:VAL:C	11:BK:66:ALA:N	2.67	0.49
12:BL:54:VAL:HG21	12:BL:79:ILE:HD11	1.94	0.49
13:BM:28:ARG:NH1	13:BM:32:ILE:HD11	2.28	0.49
14:BN:43:ASN:C	14:BN:45:VAL:H	2.19	0.49
20:BT:78:LEU:O	20:BT:81:GLN:HB2	2.12	0.49
22:BV:5:G:N3	22:BV:69:G:C2	2.81	0.49
25:CA:20:C:O2'	25:CA:21:A:H5'	2.12	0.49
25:CA:122:G:H2'	25:CA:123:G:O4'	2.12	0.49
25:CA:186:G:C2	25:CA:187:G:N7	2.81	0.49
25:CA:687:C:H1'	53:C2:4:THR:HG22	1.95	0.49
25:CA:1056:G:C4'	25:CA:1086:A:C8	2.96	0.49
25:CA:1561:C:H2'	25:CA:1562:U:C6	2.48	0.49
25:CA:1875:G:C2'	25:CA:1876:A:OP2	2.60	0.49
25:CA:2293:G:H2'	25:CA:2294:G:O4'	2.12	0.49
27:CC:76:VAL:HA	27:CC:113:ASP:O	2.12	0.49
27:CC:140:VAL:CG1	27:CC:189:ALA:HB1	2.42	0.49
29:CE:60:TRP:O	29:CE:61:ARG:C	2.56	0.49
30:CF:59:ILE:HG23	30:CF:137:PHE:CD1	2.48	0.49
31:CG:154:GLU:HG2	31:CG:155:PRO:HD2	1.93	0.49
31:CG:164:ALA:C	31:CG:166:GLU:H	2.21	0.49
36:CL:111:ILE:N	36:CL:111:ILE:CD1	2.73	0.49
38:CN:66:ALA:O	38:CN:69:ARG:O	2.30	0.49
39:CO:7:ARG:HA	39:CO:10:ARG:NH2	2.28	0.49
45:CU:101:THR:CG2	45:CU:102:ILE:N	2.75	0.49
51:C0:52:LYS:HE2	51:C0:55:ALA:CA	2.43	0.49
25:DA:118:A:N3	25:DA:178:G:H1'	2.27	0.49
25:DA:229:C:H2'	25:DA:230:G:O5'	2.12	0.49
25:DA:607:U:H2'	25:DA:608:A:H5'	1.94	0.49
25:DA:611:C:H2'	25:DA:612:G:O4'	2.13	0.49
25:DA:1382:G:H5"	25:DA:1383:A:OP2	2.13	0.49
25:DA:1391:U:C2	25:DA:1394:U:O4	2.66	0.49
25:DA:1495:A:C8	25:DA:1495:A:OP2	2.65	0.49
25:DA:1612:C:C2'	25:DA:1613:G:O5'	2.57	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1878:G:C5	25:DA:1879:C:C5	3.01	0.49
25:DA:2111:U:O2	25:DA:2118:U:H1'	2.12	0.49
25:DA:2127:G:O3'	25:DA:2128:G:H8	1.96	0.49
25:DA:2311:A:P	25:DA:2311:A:H3'	2.53	0.49
25:DA:2376:A:C2	39:DO:99:TYR:CE2	3.01	0.49
25:DA:2730:C:H4'	28:DD:175:LEU:HD23	1.94	0.49
30:DF:39:VAL:HG13	30:DF:40:GLY:N	2.28	0.49
30:DF:105:ILE:C	30:DF:108:PRO:HD2	2.38	0.49
30:DF:116:LEU:HD11	30:DF:129:MET:HE1	1.93	0.49
31:DG:36:LEU:HD13	31:DG:40:VAL:CG1	2.40	0.49
31:DG:39:ALA:CB	31:DG:57:TYR:CB	2.91	0.49
33:DI:53:PRO:O	33:DI:74:PRO:HD3	2.13	0.49
33:DI:56:VAL:CG2	33:DI:57:VAL:N	2.76	0.49
37:DM:118:LYS:HE2	37:DM:118:LYS:CA	2.41	0.49
43:DS:56:ALA:O	43:DS:57:ASN:C	2.56	0.49
43:DS:84:ARG:CB	43:DS:96:ILE:HD11	2.43	0.49
57:DW:10:ARG:HG3	57:DW:10:ARG:NH1	2.27	0.49
48:DX:6:VAL:HG12	48:DX:7:THR:N	2.28	0.49
52:D1:6:GLU:CD	52:D1:26:LYS:HB2	2.38	0.49
1:AA:35:G:C4	1:AA:550:G:N2	2.80	0.49
1:AA:402:G:H2'	1:AA:403:C:H5'	1.94	0.49
1:AA:1059:C:H2'	1:AA:1060:U:H6	1.78	0.49
1:AA:1233:G:C4	1:AA:1234:C:C5	3.01	0.49
1:AA:1241:G:H2'	1:AA:1242:G:H8	1.78	0.49
1:AA:1538:C:O5'	1:AA:1538:C:H6	1.96	0.49
2:AB:56:LEU:HD13	2:AB:57:ASN:N	2.28	0.49
2:AB:106:VAL:HA	2:AB:109:SER:OG	2.12	0.49
3:AC:41:TYR:CD1	3:AC:42:LEU:HD12	2.48	0.49
4:AD:57:LYS:H	4:AD:199:ILE:HG22	1.76	0.49
4:AD:122:ILE:HD13	4:AD:122:ILE:H	1.78	0.49
5:AE:104:ILE:O	5:AE:104:ILE:HG23	2.13	0.49
5:AE:105:ILE:CG1	5:AE:123:LEU:HB3	2.42	0.49
6:AF:3:HIS:CB	6:AF:92:THR:HG23	2.43	0.49
6:AF:5:GLU:HG2	6:AF:90:MET:CE	2.43	0.49
6:AF:46:GLN:HA	6:AF:56:LYS:HA	1.94	0.49
6:AF:50:PRO:O	6:AF:51:ILE:C	2.56	0.49
7:AG:80:GLY:HA3	23:AX:12:A:H4'	1.95	0.49
7:AG:115:MET:O	7:AG:119:LEU:HB2	2.12	0.49
8:AH:44:PHE:HA	8:AH:70:VAL:HG11	1.95	0.49
9:AI:20:ILE:CD1	9:AI:86:LEU:CD1	2.91	0.49
10:AJ:18:ILE:CG2	10:AJ:19:ASP:N	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:30:ILE:HB	11:AK:45:THR:CG2	2.41	0.49
13:AM:80:MET:O	13:AM:81:ASP:C	2.56	0.49
16:AP:18:GLN:HE21	16:AP:35:ARG:NE	2.10	0.49
17:AQ:71:SER:O	17:AQ:72:TRP:CD1	2.65	0.49
21:AU:9:GLU:CD	21:AU:10:PRO:CD	2.82	0.49
22:AV:65:G:N1	22:AV:66:U:C4	2.81	0.49
1:BA:76:G:C2	1:BA:95:C:N3	2.81	0.49
1:BA:374:A:OP1	1:BA:452:A:C2	2.66	0.49
1:BA:452:A:H62	1:BA:480:U:H3	1.60	0.49
1:BA:976:G:C2	1:BA:1362:A:H2'	2.48	0.49
1:BA:1265:C:C2	1:BA:1271:A:H2	2.31	0.49
2:BB:90:PHE:HD2	2:BB:149:GLY:CA	2.25	0.49
4:BD:31:CYS:O	4:BD:32:LYS:HB3	2.12	0.49
4:BD:87:GLU:O	4:BD:88:ASN:C	2.54	0.49
4:BD:99:ASN:OD1	4:BD:110:ARG:NH1	2.46	0.49
5:BE:105:ILE:HD12	5:BE:105:ILE:O	2.13	0.49
6:BF:4:TYR:CD2	6:BF:71:ILE:HD13	2.48	0.49
6:BF:10:VAL:HG12	6:BF:58:HIS:CB	2.43	0.49
7:BG:14:ASP:OD2	7:BG:14:ASP:C	2.56	0.49
7:BG:96:ASN:O	7:BG:99:ALA:HB3	2.12	0.49
9:BI:81:GLY:O	9:BI:84:ARG:CB	2.60	0.49
11:BK:117:HIS:O	11:BK:118:ASN:HB2	2.12	0.49
14:BN:27:LYS:H	14:BN:30:ILE:HD13	1.78	0.49
16:BP:43:ALA:O	16:BP:46:LYS:HG2	2.13	0.49
17:BQ:77:VAL:C	17:BQ:78:VAL:CG2	2.86	0.49
18:BR:26:ALA:O	18:BR:29:LYS:HG2	2.12	0.49
18:BR:31:TYR:O	18:BR:39:VAL:HB	2.12	0.49
21:BU:17:ARG:O	21:BU:18:PHE:C	2.55	0.49
25:CA:49:A:C8	25:CA:51:G:C2	3.01	0.49
25:CA:186:G:N2	25:CA:187:G:C4	2.81	0.49
25:CA:275:C:C4	25:CA:276:U:H6	2.31	0.49
25:CA:284:U:H2'	25:CA:285:G:C8	2.48	0.49
25:CA:657:U:H2'	25:CA:658:U:C6	2.48	0.49
25:CA:734:A:C5	25:CA:735:A:C8	3.01	0.49
25:CA:790:U:O4'	25:CA:790:U:O2	2.26	0.49
25:CA:864:G:C6	25:CA:865:C:N4	2.81	0.49
25:CA:1103:A:C8	25:CA:1104:C:C5	3.01	0.49
25:CA:1122:G:C2	25:CA:1123:C:C6	3.01	0.49
25:CA:1292:G:H2'	25:CA:1293:C:O5'	2.13	0.49
25:CA:1361:G:C6	25:CA:1362:C:N4	2.81	0.49
25:CA:1737:G:C6	25:CA:1738:G:C2	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2207:C:H2'	25:CA:2208:C:H6	1.78	0.49
25:CA:2305:U:H2'	25:CA:2306:C:C6	2.47	0.49
25:CA:2644:G:O2'	25:CA:2645:G:H5'	2.12	0.49
25:CA:2745:C:C4	25:CA:2746:U:C4	3.00	0.49
26:CB:24:G:N2	26:CB:28:C:C2	2.80	0.49
27:CC:16:VAL:HG23	27:CC:203:VAL:CG2	2.43	0.49
27:CC:70:LYS:HE3	27:CC:95:TYR:CD2	2.47	0.49
29:CE:44:ARG:O	29:CE:45:ALA:CB	2.59	0.49
29:CE:171:ASP:O	29:CE:171:ASP:OD1	2.30	0.49
29:CE:178:VAL:CG1	29:CE:179:SER:N	2.75	0.49
31:CG:53:PRO:HD3	31:CG:61:TRP:CZ2	2.48	0.49
32:CH:41:LYS:O	32:CH:42:LYS:C	2.55	0.49
33:CI:56:VAL:HG21	33:CI:70:THR:CB	2.43	0.49
35:CK:91:SER:O	35:CK:92:GLU:C	2.56	0.49
35:CK:109:SER:O	35:CK:112:PHE:N	2.46	0.49
38:CN:98:LEU:HD13	51:C0:54:ILE:HD11	1.94	0.49
44:CT:56:GLU:HB2	44:CT:88:LYS:H	1.77	0.49
48:CX:10:ARG:HB2	48:CX:11:PRO:HD2	1.95	0.49
25:DA:49:A:H4'	25:DA:51:G:C8	2.48	0.49
25:DA:282:A:H2'	25:DA:283:G:H8	1.78	0.49
25:DA:875:G:N2	25:DA:903:C:C2	2.80	0.49
25:DA:981:A:H5"	60:DA:3598:HOH:O	2.12	0.49
25:DA:1027:A:C6	25:DA:1126:A:N3	2.81	0.49
25:DA:1073:A:H3'	25:DA:1074:G:H5'	1.93	0.49
25:DA:1448:G:H2'	25:DA:1449:G:C8	2.48	0.49
25:DA:1482:G:H1'	25:DA:1509:A:N6	2.28	0.49
25:DA:1685:C:O2'	25:DA:1686:C:H5'	2.12	0.49
25:DA:1796:U:H2'	25:DA:1797:G:C8	2.47	0.49
25:DA:2058:A:H8	25:DA:2058:A:O5'	1.94	0.49
25:DA:2716:C:H2'	25:DA:2717:C:H6	1.77	0.49
56:DB:74:U:O2	46:DV:29:ILE:HD12	2.13	0.49
27:DC:156:SER:O	27:DC:159:THR:OG1	2.30	0.49
27:DC:213:ARG:HH11	27:DC:213:ARG:HG3	1.77	0.49
29:DE:24:ASN:O	29:DE:28:VAL:HG23	2.12	0.49
29:DE:148:ILE:HA	29:DE:187:VAL:HG12	1.95	0.49
31:DG:7:PRO:HG3	31:DG:50:THR:HG22	1.95	0.49
33:DI:38:CYS:HA	33:DI:41:PHE:CB	2.31	0.49
36:DL:109:LYS:CG	36:DL:126:ARG:HB3	2.42	0.49
36:DL:117:THR:HG22	36:DL:118:THR:H	1.78	0.49
37:DM:41:LEU:HD12	37:DM:96:ILE:HD11	1.95	0.49
38:DN:116:VAL:O	38:DN:116:VAL:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:6:ALA:O	39:DO:9:ARG:HG2	2.12	0.49
40:DP:27:VAL:HG12	40:DP:29:VAL:HG23	1.95	0.49
40:DP:100:ARG:C	40:DP:101:GLU:CG	2.85	0.49
48:DX:70:LEU:O	48:DX:71:ARG:C	2.53	0.49
1:AA:174:A:C6	1:AA:175:C:C4	3.01	0.48
1:AA:270:A:C6	1:AA:271:C:N3	2.81	0.48
1:AA:417:G:C6	1:AA:418:C:N4	2.81	0.48
1:AA:714:G:H5'	1:AA:776:G:H5"	1.95	0.48
1:AA:1108:G:N3	1:AA:1108:G:C2'	2.74	0.48
1:AA:1213:A:C2	1:AA:1215:G:H1'	2.47	0.48
1:AA:1215:G:N2	1:AA:1216:A:H1'	2.28	0.48
1:AA:1494:G:C2	1:AA:1495:U:C6	3.01	0.48
3:AC:28:PHE:HE2	3:AC:32:LEU:HD23	1.77	0.48
3:AC:54:ILE:O	3:AC:54:ILE:CD1	2.61	0.48
4:AD:33:ILE:HG13	4:AD:34:GLU:N	2.28	0.48
4:AD:89:LEU:O	4:AD:93:LEU:HD12	2.13	0.48
4:AD:121:ALA:N	4:AD:122:ILE:HD12	2.28	0.48
10:AJ:36:VAL:HG22	10:AJ:76:ILE:HG12	1.94	0.48
10:AJ:58:ASN:C	10:AJ:59:LYS:HZ2	2.20	0.48
13:AM:2:ARG:CG	13:AM:3:ILE:N	2.75	0.48
13:AM:70:ARG:HD2	13:AM:74:MET:HE3	1.95	0.48
17:AQ:12:VAL:HG13	17:AQ:21:VAL:CG1	2.42	0.48
17:AQ:46:HIS:O	17:AQ:73:THR:CG2	2.61	0.48
19:AS:60:PHE:O	19:AS:65:MET:HE1	2.13	0.48
20:AT:72:ALA:O	20:AT:73:ARG:C	2.56	0.48
21:AU:40:PRO:O	21:AU:44:ARG:HD3	2.13	0.48
24:AY:128:ALA:O	24:AY:129:VAL:C	2.56	0.48
1:BA:487:A:H5"	1:BA:488:C:OP2	2.12	0.48
1:BA:646:G:C4	1:BA:647:C:C6	3.01	0.48
1:BA:765:G:H3'	1:BA:812:G:N2	2.27	0.48
1:BA:1294:G:H2'	1:BA:1295:U:C6	2.47	0.48
1:BA:1329:A:H5"	13:BM:24:VAL:HA	1.94	0.48
1:BA:1492:A:O2'	25:DA:1913:A:N1	2.42	0.48
2:BB:20:ARG:HA	2:BB:20:ARG:NE	2.28	0.48
2:BB:67:LEU:HD22	2:BB:69:VAL:HG22	1.93	0.48
2:BB:151:LYS:HG3	2:BB:152:ASP:N	2.28	0.48
2:BB:205:ALA:O	2:BB:206:ILE:C	2.56	0.48
3:BC:63:ILE:CG1	3:BC:65:VAL:CG2	2.91	0.48
3:BC:181:ILE:O	3:BC:181:ILE:HG22	2.12	0.48
4:BD:131:ILE:HG22	4:BD:133:SER:H	1.77	0.48
4:BD:144:ILE:HD12	4:BD:144:ILE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:38:ARG:NH2	6:BF:96:VAL:HG23	2.28	0.48
9:BI:40:ARG:O	9:BI:44:ARG:NH1	2.45	0.48
11:BK:80:ASN:HB3	11:BK:105:ARG:CG	2.42	0.48
15:BO:63:ARG:HD3	15:BO:87:ARG:HH22	1.78	0.48
17:BQ:30:HIS:HD2	17:BQ:32:ILE:H	1.61	0.48
17:BQ:32:ILE:HD12	17:BQ:32:ILE:N	2.28	0.48
17:BQ:46:HIS:HB2	17:BQ:66:LEU:CD1	2.43	0.48
20:BT:37:ALA:CB	20:BT:46:ALA:HA	2.43	0.48
25:CA:368:A:H2'	25:CA:369:U:O5'	2.12	0.48
25:CA:892:A:C2	25:CA:893:C:C6	3.01	0.48
25:CA:967:U:H2'	25:CA:968:C:C6	2.48	0.48
25:CA:1069:A:O2'	25:CA:1070:A:H5"	2.12	0.48
25:CA:1138:G:N3	34:CJ:108:MET:HE2	2.27	0.48
25:CA:1348:C:H2'	25:CA:1349:C:H5'	1.95	0.48
25:CA:1730:C:H1'	25:CA:1731:G:C6	2.48	0.48
25:CA:2170:A:C2	25:CA:2171:A:C5	3.01	0.48
25:CA:2491:U:H5'	25:CA:2570:G:H5'	1.95	0.48
25:CA:2531:A:H4'	31:CG:156:TYR:CD1	2.48	0.48
25:CA:2590:A:OP2	27:CC:236:GLY:HA2	2.13	0.48
28:CD:125:TRP:CD2	28:CD:160:LYS:HD2	2.48	0.48
29:CE:23:PHE:CE1	29:CE:28:VAL:HG21	2.47	0.48
29:CE:131:THR:HA	29:CE:160:ALA:HB1	1.93	0.48
29:CE:144:GLU:OE2	29:CE:166:LYS:HD3	2.13	0.48
30:CF:16:MET:O	30:CF:20:ASN:HA	2.13	0.48
30:CF:42:ALA:HB1	30:CF:45:ASP:C	2.38	0.48
30:CF:142:TYR:HD1	30:CF:145:VAL:HG11	1.78	0.48
35:CK:41:ILE:C	35:CK:41:ILE:HD12	2.38	0.48
35:CK:108:ARG:HH12	40:CP:34:GLY:N	2.10	0.48
37:CM:50:ARG:O	37:CM:51:ARG:C	2.56	0.48
37:CM:57:VAL:C	37:CM:58:LYS:HG2	2.38	0.48
40:CP:55:HIS:O	40:CP:56:SER:C	2.56	0.48
43:CS:19:LEU:HB3	51:C0:21:LEU:CD1	2.42	0.48
48:CX:69:GLU:O	48:CX:73:ARG:HG2	2.13	0.48
25:DA:168:G:N2	25:DA:169:G:C1'	2.76	0.48
25:DA:278:A:N1	25:DA:362:A:C8	2.81	0.48
25:DA:372:G:OP2	48:DX:60:LYS:HD3	2.13	0.48
25:DA:419:U:C4	25:DA:420:C:N4	2.80	0.48
25:DA:448:U:H4'	25:DA:449:A:OP2	2.13	0.48
25:DA:476:G:O4'	25:DA:505:A:C2	2.66	0.48
25:DA:547:A:C8	25:DA:548:G:N3	2.81	0.48
25:DA:643:A:H1'	52:D1:43:ARG:NH2	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:861:A:H3'	25:DA:862:G:H8	1.78	0.48
25:DA:984:A:C4'	25:DA:985:C:OP2	2.60	0.48
25:DA:1084:A:C6	25:DA:1085:A:N6	2.81	0.48
25:DA:1556:C:H2'	25:DA:1557:C:C5'	2.43	0.48
25:DA:2110:G:C6	25:DA:2120:G:N7	2.80	0.48
25:DA:2112:G:N3	25:DA:2112:G:C2'	2.73	0.48
25:DA:2172:U:H4'	25:DA:2173:A:C5'	2.43	0.48
25:DA:2309:A:H2'	25:DA:2310:C:C6	2.48	0.48
25:DA:2402:U:H2'	25:DA:2403:C:OP2	2.13	0.48
25:DA:2545:G:H2'	25:DA:2546:U:O4'	2.13	0.48
25:DA:2721:A:H2'	25:DA:2722:G:O4'	2.13	0.48
25:DA:2723:C:O5'	25:DA:2723:C:H6	1.95	0.48
25:DA:2839:G:C4	25:DA:2840:C:C6	3.01	0.48
28:DD:80:TRP:N	28:DD:80:TRP:CE3	2.81	0.48
28:DD:101:PHE:HB3	28:DD:104:VAL:HG21	1.95	0.48
29:DE:21:ARG:O	29:DE:22:ASP:C	2.56	0.48
29:DE:26:ALA:HB1	36:DL:9:ALA:HB2	1.94	0.48
29:DE:71:GLY:O	29:DE:72:SER:HB2	2.13	0.48
31:DG:75:VAL:O	31:DG:76:ILE:C	2.56	0.48
35:DK:99:ILE:HG12	35:DK:115:ILE:HG23	1.94	0.48
37:DM:33:LEU:HD22	37:DM:117:PHE:CB	2.43	0.48
39:DO:51:ALA:HB1	39:DO:77:ALA:HB1	1.94	0.48
40:DP:77:SER:HB3	40:DP:80:VAL:CG1	2.42	0.48
43:DS:36:LEU:HD12	43:DS:48:LYS:HA	1.95	0.48
44:DT:5:GLU:O	44:DT:8:LEU:HB2	2.13	0.48
44:DT:17:SER:O	44:DT:18:GLU:C	2.56	0.48
46:DV:20:LEU:HD22	46:DV:26:PHE:HA	1.95	0.48
51:D0:36:LYS:O	51:D0:37:HIS:HB3	2.12	0.48
1:AA:564:C:O2'	1:AA:565:U:H5'	2.13	0.48
1:AA:591:U:H2'	1:AA:592:G:C8	2.48	0.48
1:AA:595:A:C2	1:AA:641:U:C2	3.01	0.48
1:AA:656:G:N3	1:AA:657:U:C6	2.81	0.48
1:AA:769:G:C2'	1:AA:770:C:O5'	2.62	0.48
1:AA:1061:G:C4	1:AA:1197:A:C2	3.01	0.48
1:AA:1539:C:C5'	21:AU:17:ARG:CG	2.90	0.48
2:AB:95:TRP:CZ3	2:AB:174:GLU:OE2	2.66	0.48
5:AE:125:LYS:HG3	5:AE:126:ALA:N	2.28	0.48
5:AE:150:GLU:O	5:AE:153:ALA:CB	2.60	0.48
6:AF:7:VAL:HG11	18:AR:64:LEU:CD1	2.41	0.48
6:AF:17:GLN:O	6:AF:17:GLN:NE2	2.45	0.48
13:AM:48:SER:O	13:AM:49:GLU:C	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:54:ILE:C	17:AQ:54:ILE:CD1	2.86	0.48
24:AY:123:GLU:HA	24:AY:126:ARG:HG3	1.95	0.48
1:BA:92:U:O2	1:BA:92:U:H2'	2.12	0.48
1:BA:146:G:O2'	1:BA:147:G:H5'	2.13	0.48
1:BA:270:A:C5	1:BA:271:C:C5	3.01	0.48
1:BA:341:C:H2'	1:BA:342:C:H6	1.78	0.48
1:BA:465:A:N6	1:BA:466:A:C6	2.81	0.48
1:BA:949:A:N3	1:BA:1233:G:N2	2.61	0.48
1:BA:1045:C:C2	1:BA:1046:A:C8	3.01	0.48
1:BA:1149:C:N4	1:BA:1150:A:N6	2.61	0.48
1:BA:1363:A:C8	1:BA:1365:G:C5	3.01	0.48
1:BA:1450:U:H2'	1:BA:1452:C:C4	2.48	0.48
1:BA:1491:G:H2'	1:BA:1492:A:H8	1.74	0.48
2:BB:48:MET:C	2:BB:50:ASN:N	2.70	0.48
2:BB:49:PHE:HA	2:BB:52:ALA:HB3	1.94	0.48
3:BC:13:ILE:N	3:BC:13:ILE:HD13	2.27	0.48
3:BC:128:MET:HE1	4:BD:44:LYS:NZ	2.28	0.48
4:BD:128:VAL:HG23	4:BD:145:ARG:HD3	1.95	0.48
4:BD:190:LEU:HD12	4:BD:190:LEU:N	2.26	0.48
5:BE:106:ALA:CB	5:BE:124:ALA:HB2	2.43	0.48
6:BF:10:VAL:HG12	6:BF:58:HIS:HB2	1.95	0.48
6:BF:51:ILE:HD13	6:BF:85:ILE:HD12	1.95	0.48
8:BH:9:MET:HE2	8:BH:32:LYS:O	2.13	0.48
9:BI:45:MET:HB2	9:BI:48:ARG:CB	2.43	0.48
10:BJ:59:LYS:HD2	10:BJ:60:ASP:H	1.78	0.48
12:BL:43:LYS:CB	12:BL:44:PRO:CD	2.91	0.48
13:BM:108:ARG:O	13:BM:108:ARG:HG3	2.13	0.48
14:BN:77:PHE:CD1	14:BN:77:PHE:N	2.81	0.48
15:BO:62:ARG:O	15:BO:65:LEU:HB2	2.12	0.48
25:CA:116:C:O2	25:CA:116:C:C2'	2.57	0.48
25:CA:329:G:O4'	25:CA:477:A:H1'	2.13	0.48
25:CA:348:A:H2'	25:CA:349:U:C6	2.48	0.48
25:CA:473:G:C2'	25:CA:474:G:O5'	2.61	0.48
25:CA:679:C:C2'	25:CA:680:C:H5'	2.43	0.48
25:CA:686:U:O4	53:C2:12:ARG:HB2	2.13	0.48
25:CA:721:A:H2'	25:CA:722:A:H8	1.73	0.48
25:CA:1020:A:C2	25:CA:1141:U:C2	3.01	0.48
25:CA:1520:U:O2	25:CA:1520:U:H2'	2.13	0.48
25:CA:1838:C:H4'	25:CA:1839:G:C8	2.48	0.48
25:CA:2139:U:C2	25:CA:2140:G:C8	3.01	0.48
25:CA:2298:A:H2'	25:CA:2299:U:H5'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2531:A:H4'	31:CG:156:TYR:CE1	2.48	0.48
28:CD:85:ALA:O	28:CD:86:GLU:O	2.31	0.48
30:CF:48:LEU:HA	30:CF:51:ASN:ND2	2.28	0.48
30:CF:93:GLU:O	30:CF:94:ARG:C	2.56	0.48
30:CF:131:VAL:HG21	30:CF:136:ILE:HD11	1.94	0.48
30:CF:147:ARG:CG	30:CF:148:VAL:N	2.76	0.48
33:CI:79:LEU:HD11	33:CI:132:ALA:CB	2.41	0.48
35:CK:105:ARG:O	35:CK:106:GLU:C	2.57	0.48
37:CM:108:VAL:HG12	37:CM:109:PRO:CD	2.43	0.48
45:CU:5:ARG:C	45:CU:6:ARG:O	2.54	0.48
50:CZ:53:MET:C	50:CZ:54:VAL:HG13	2.37	0.48
25:DA:418:C:C2	25:DA:419:U:C6	3.01	0.48
25:DA:1096:A:H3'	25:DA:1096:A:H8	1.78	0.48
25:DA:1317:G:H2'	25:DA:1318:U:O4'	2.12	0.48
25:DA:1413:A:C6	25:DA:1590:A:N1	2.81	0.48
25:DA:2293:G:H5"	39:DO:94:ARG:NH1	2.28	0.48
25:DA:2517:C:C2	25:DA:2542:A:N6	2.80	0.48
25:DA:2874:C:O2	25:DA:2874:C:H2'	2.12	0.48
56:DB:116:G:H5'	39:DO:55:GLU:CG	2.41	0.48
27:DC:11:GLY:O	27:DC:12:ARG:HB2	2.13	0.48
29:DE:197:GLU:O	29:DE:201:ALA:HB2	2.12	0.48
30:DF:125:GLY:HA2	30:DF:162:ASP:HA	1.94	0.48
31:DG:86:LEU:HD12	31:DG:163:TYR:HA	1.96	0.48
31:DG:142:GLN:O	31:DG:143:VAL:C	2.56	0.48
32:DH:117:LEU:HD21	32:DH:121:VAL:CA	2.38	0.48
36:DL:103:ILE:H	36:DL:103:ILE:HD13	1.78	0.48
37:DM:21:ALA:CB	37:DM:100:LYS:CA	2.92	0.48
42:DR:49:ILE:HG21	42:DR:53:PHE:N	2.25	0.48
46:DV:56:PHE:CD1	46:DV:61:LEU:HD21	2.48	0.48
54:D3:30:HIS:C	54:D3:30:HIS:ND1	2.70	0.48
55:D4:24:ARG:NH2	55:D4:36:ARG:HG3	2.28	0.48
1:AA:399:G:H2'	1:AA:400:C:H6	1.77	0.48
1:AA:414:A:C5	1:AA:431:A:C2	3.01	0.48
1:AA:466:A:H5'	1:AA:467:U:OP2	2.13	0.48
1:AA:1213:A:N1	1:AA:1215:G:H1'	2.27	0.48
1:AA:1296:C:H4'	1:AA:1302:C:H41	1.78	0.48
5:AE:100:GLU:HB2	5:AE:121:ASN:HB3	1.95	0.48
5:AE:158:LYS:OXT	8:AH:46:GLU:OE2	2.31	0.48
11:AK:22:ILE:HG22	11:AK:31:VAL:CG2	2.43	0.48
11:AK:70:ALA:O	11:AK:72:ALA:N	2.46	0.48
11:AK:96:ILE:HG13	11:AK:97:ARG:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:80:MET:CB	13:AM:91:ARG:HH22	2.26	0.48
14:AN:5:MET:HE2	14:AN:63:ARG:NH2	2.29	0.48
21:AU:16:ARG:NH1	21:AU:19:LYS:HG2	2.28	0.48
1:BA:53:A:H2'	1:BA:54:C:O4'	2.12	0.48
1:BA:74:A:C2	1:BA:97:G:C2	3.01	0.48
1:BA:113:G:O4'	1:BA:354:G:H4'	2.13	0.48
1:BA:211:G:C2	1:BA:212:G:H1'	2.49	0.48
1:BA:307:C:C2'	1:BA:308:C:O5'	2.60	0.48
1:BA:428:G:OP1	1:BA:428:G:H8	1.96	0.48
1:BA:499:A:C6	1:BA:547:A:C8	3.01	0.48
1:BA:552:U:H2'	1:BA:553:A:H8	1.78	0.48
1:BA:562:U:H4'	1:BA:563:A:C5'	2.44	0.48
1:BA:607:A:C2	1:BA:608:A:C4	3.00	0.48
1:BA:625:U:H5"	16:BP:16:PHE:CD1	2.48	0.48
1:BA:634:C:H2'	1:BA:635:A:O5'	2.13	0.48
1:BA:970:C:O2	1:BA:970:C:H2'	2.12	0.48
1:BA:1032:G:C2	1:BA:1033:G:O4'	2.66	0.48
1:BA:1256:A:O4'	1:BA:1258:G:C4	2.66	0.48
1:BA:1261:A:N1	1:BA:1262:C:C4	2.81	0.48
1:BA:1298:U:H4'	1:BA:1299:A:C8	2.48	0.48
1:BA:1379:G:O2'	1:BA:1380:U:H5'	2.14	0.48
2:BB:16:GLY:HA3	2:BB:40:ILE:H	1.78	0.48
2:BB:131:LYS:HA	2:BB:135:MET:SD	2.53	0.48
3:BC:99:GLN:C	3:BC:100:ILE:HG22	2.37	0.48
3:BC:119:ILE:HD11	3:BC:136:ALA:HB1	1.95	0.48
3:BC:139:ASN:HA	3:BC:142:ARG:HB3	1.95	0.48
4:BD:97:LEU:HG	4:BD:117:VAL:HG21	1.96	0.48
4:BD:133:SER:O	4:BD:134:TYR:C	2.57	0.48
5:BE:12:GLU:OE2	5:BE:63:MET:HE3	2.13	0.48
9:BI:50:PRO:HG3	9:BI:82:ILE:HD12	1.95	0.48
10:BJ:6:ILE:HG13	10:BJ:76:ILE:O	2.13	0.48
10:BJ:15:HIS:HB3	10:BJ:70:HIS:CD2	2.48	0.48
15:BO:81:ILE:CG1	15:BO:82:GLU:N	2.75	0.48
17:BQ:68:LYS:O	17:BQ:69:THR:CB	2.61	0.48
25:CA:79:C:O2	25:CA:108:G:C2	2.66	0.48
25:CA:96:C:H4'	49:CY:41:HIS:CG	2.49	0.48
25:CA:208:C:C2'	25:CA:208:C:O2	2.54	0.48
25:CA:1124:G:H2'	25:CA:1125:G:C5'	2.42	0.48
25:CA:1277:G:H5'	38:CN:20:MET:CE	2.38	0.48
25:CA:1518:C:H6	25:CA:1518:C:O5'	1.95	0.48
25:CA:2298:A:C5	25:CA:2321:U:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2728:U:O2'	25:CA:2729:G:P	2.70	0.48
25:CA:2801:G:C2	25:CA:2802:G:C4	3.01	0.48
32:CH:69:ALA:CB	32:CH:138:VAL:CG1	2.91	0.48
40:CP:3:ILE:HD12	40:CP:3:ILE:N	2.29	0.48
25:DA:244:A:C2	25:DA:255:A:C4	3.02	0.48
25:DA:542:C:C3'	25:DA:543:G:H5"	2.44	0.48
25:DA:714:U:H5"	25:DA:715:A:OP2	2.14	0.48
25:DA:1050:A:C1'	25:DA:2751:G:N2	2.76	0.48
25:DA:1054:A:C6	25:DA:1055:G:C5	3.01	0.48
25:DA:1429:G:H2'	25:DA:1430:G:O5'	2.13	0.48
25:DA:1476:U:H1'	25:DA:1732:C:C2	2.48	0.48
25:DA:1559:U:H3'	25:DA:1560:G:H5'	1.94	0.48
25:DA:2027:G:C6	25:DA:2028:U:C4	3.02	0.48
56:DB:25:U:C4	56:DB:26:C:C5	3.01	0.48
27:DC:1:ALA:CB	27:DC:198:GLU:OE2	2.61	0.48
27:DC:251:THR:O	27:DC:252:LYS:HB2	2.13	0.48
29:DE:48:THR:C	29:DE:50:ALA:N	2.71	0.48
30:DF:32:LYS:HA	30:DF:90:LEU:O	2.12	0.48
31:DG:43:LYS:HE3	31:DG:43:LYS:H	1.77	0.48
31:DG:120:ILE:CD1	31:DG:134:GLY:HA3	2.43	0.48
31:DG:145:ALA:O	31:DG:146:ASP:C	2.56	0.48
32:DH:127:GLU:HA	32:DH:144:VAL:O	2.13	0.48
37:DM:108:VAL:CG1	37:DM:109:PRO:HD2	2.39	0.48
38:DN:43:GLU:O	38:DN:44:LEU:C	2.56	0.48
38:DN:49:GLU:N	38:DN:50:PRO:CD	2.77	0.48
40:DP:113:LEU:O	40:DP:113:LEU:HD23	2.13	0.48
45:DU:5:ARG:O	45:DU:8:ASP:HB3	2.12	0.48
50:DZ:5:LYS:HB2	50:DZ:57:GLU:HG3	1.95	0.48
54:D3:60:CYS:O	54:D3:62:PRO:HD3	2.13	0.48
1:AA:189:A:C6	1:AA:190:A:C2	3.02	0.48
1:AA:198:G:H2'	1:AA:199:A:H8	1.79	0.48
1:AA:446:G:C2'	1:AA:447:G:H5'	2.43	0.48
1:AA:462:G:C8	1:AA:463:U:C5	3.01	0.48
1:AA:488:C:O5'	1:AA:488:C:H6	1.96	0.48
1:AA:636:U:H2'	1:AA:637:C:H6	1.77	0.48
1:AA:821:G:H2'	1:AA:822:U:C6	2.48	0.48
1:AA:1068:G:N7	1:AA:1094:G:H2'	2.28	0.48
1:AA:1235:U:H2'	1:AA:1236:A:O5'	2.13	0.48
2:AB:160:LEU:HB3	2:AB:182:VAL:HA	1.94	0.48
4:AD:2:ARG:CZ	4:AD:114:ARG:CD	2.92	0.48
4:AD:117:VAL:O	4:AD:130:ASN:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:22:LEU:HD21	7:AG:61:PHE:CZ	2.47	0.48
9:AI:117:LEU:HD23	9:AI:121:ARG:C	2.38	0.48
12:AL:74:GLN:O	12:AL:75:GLU:C	2.55	0.48
20:AT:26:MET:HE3	20:AT:56:ILE:HD11	1.96	0.48
22:AV:24:G:C2'	22:AV:25:C:O5'	2.61	0.48
24:AY:146:ASP:O	24:AY:147:LYS:C	2.56	0.48
1:BA:88:U:O4	1:BA:89:U:C4	2.67	0.48
1:BA:369:G:C2'	1:BA:370:C:O5'	2.61	0.48
1:BA:475:C:O2	1:BA:475:C:H2'	2.12	0.48
1:BA:523:A:N6	12:BL:49:ARG:HH12	2.12	0.48
1:BA:979:C:H3'	1:BA:980:C:H6	1.79	0.48
1:BA:1036:A:H2'	1:BA:1036:A:N3	2.28	0.48
1:BA:1091:U:O2'	1:BA:1093:A:N7	2.46	0.48
1:BA:1166:G:N1	1:BA:1168:U:H5"	2.28	0.48
1:BA:1256:A:H5'	1:BA:1258:G:C1'	2.43	0.48
3:BC:147:GLY:HA2	3:BC:170:GLY:HA3	1.95	0.48
5:BE:111:ARG:O	5:BE:112:ALA:C	2.57	0.48
6:BF:61:LEU:HD12	6:BF:62:MET:H	1.79	0.48
13:BM:90:HIS:O	13:BM:91:ARG:C	2.57	0.48
13:BM:92:ARG:HH11	13:BM:92:ARG:HG2	1.77	0.48
15:BO:75:ALA:O	15:BO:77:TYR:N	2.46	0.48
17:BQ:45:VAL:HG22	17:BQ:72:TRP:HB2	1.95	0.48
21:BU:11:PHE:O	21:BU:12:ASP:HB2	2.14	0.48
21:BU:52:VAL:HG13	21:BU:53:LYS:N	2.28	0.48
22:BV:63:G:H2'	22:BV:64:A:O4'	2.14	0.48
25:CA:35:G:C2'	25:CA:36:G:O5'	2.60	0.48
25:CA:572:A:H3'	25:CA:573:U:O4'	2.14	0.48
25:CA:691:C:O2'	25:CA:692:C:H5'	2.14	0.48
25:CA:1081:U:OP2	25:CA:1081:U:C6	2.66	0.48
25:CA:1154:G:OP2	41:CQ:57:ARG:NH1	2.45	0.48
25:CA:1348:C:C5	25:CA:1349:C:C5	3.02	0.48
25:CA:1450:G:C6	25:CA:1451:C:N4	2.81	0.48
25:CA:1559:U:H3'	25:CA:1560:G:H5'	1.95	0.48
25:CA:1567:G:C5	27:CC:82:TYR:CD1	3.01	0.48
25:CA:1613:G:C2	25:CA:1619:G:C5	3.01	0.48
25:CA:1707:G:H2'	25:CA:1708:C:O4'	2.14	0.48
25:CA:2032:G:H1'	28:CD:150:GLN:OE1	2.13	0.48
25:CA:2149:U:H2'	25:CA:2150:C:C6	2.49	0.48
25:CA:2287:A:C4	25:CA:2289:G:N7	2.82	0.48
25:CA:2305:U:OP1	25:CA:2305:U:H4'	2.14	0.48
25:CA:2683:C:H4'	28:CD:13:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2813:A:H2'	25:CA:2814:A:H5'	1.94	0.48
27:CC:135:PRO:O	27:CC:136:VAL:C	2.57	0.48
27:CC:158:GLY:H	27:CC:194:VAL:HG13	1.79	0.48
28:CD:4:LEU:HD11	28:CD:96:ILE:HG22	1.95	0.48
29:CE:175:ILE:HD13	29:CE:196:VAL:CG2	2.43	0.48
30:CF:121:PHE:CE2	30:CF:127:TYR:CD1	3.01	0.48
32:CH:5:LEU:O	32:CH:6:LEU:HD12	2.13	0.48
34:CJ:65:THR:HG23	34:CJ:68:LYS:NZ	2.28	0.48
36:CL:77:ILE:HD12	36:CL:100:ILE:HD11	1.96	0.48
36:CL:112:LEU:O	36:CL:112:LEU:HG	2.14	0.48
42:CR:49:ILE:HG22	42:CR:53:PHE:CA	2.41	0.48
42:CR:51:VAL:HB	42:CR:52:PRO:HD3	1.94	0.48
42:CR:62:GLU:O	42:CR:62:GLU:CG	2.61	0.48
44:CT:31:VAL:HA	44:CT:83:ALA:O	2.13	0.48
25:DA:141:G:H5"	25:DA:142:A:C5	2.47	0.48
25:DA:200:U:O4	25:DA:248:G:C2	2.66	0.48
25:DA:320:A:H2'	29:DE:131:THR:HG21	1.94	0.48
25:DA:477:A:C6	25:DA:478:A:C6	3.01	0.48
25:DA:615:U:H3'	25:DA:616:A:C5'	2.43	0.48
25:DA:666:A:C5	25:DA:667:U:C5	3.01	0.48
25:DA:871:U:C5'	37:DM:68:PHE:CE2	2.97	0.48
25:DA:1073:A:C2'	25:DA:1074:G:H5'	2.43	0.48
25:DA:1104:C:C2	25:DA:1105:U:C5	3.01	0.48
25:DA:1179:G:O6	25:DA:1180:U:C2	2.66	0.48
25:DA:1338:G:C2'	25:DA:1339:G:H5'	2.43	0.48
25:DA:1467:U:C5	25:DA:1468:U:C5	3.01	0.48
25:DA:1498:C:H2'	25:DA:1499:C:H6	1.78	0.48
25:DA:2131:U:H5'	25:DA:2132:U:OP1	2.13	0.48
25:DA:2514:U:H2'	25:DA:2515:C:H6	1.77	0.48
25:DA:2615:U:O2	25:DA:2615:U:H2'	2.12	0.48
56:DB:51:G:C2'	56:DB:52:A:O5'	2.61	0.48
27:DC:243:PRO:C	27:DC:244:VAL:HG13	2.38	0.48
30:DF:100:GLU:O	30:DF:103:ILE:N	2.46	0.48
34:DJ:119:PHE:C	34:DJ:119:PHE:HD1	2.20	0.48
35:DK:92:GLU:O	35:DK:93:GLN:HB2	2.12	0.48
36:DL:23:ILE:HD13	42:DR:84:ARG:CG	2.42	0.48
39:DO:37:ALA:CB	39:DO:106:LEU:HD11	2.40	0.48
40:DP:32:VAL:C	40:DP:34:GLY:N	2.70	0.48
42:DR:49:ILE:HG22	42:DR:54:VAL:N	2.28	0.48
45:DU:6:ARG:CG	45:DU:7:ASP:H	2.27	0.48
48:DX:53:LYS:O	48:DX:54:GLY:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D0:29:VAL:HG13	51:D0:34:GLY:C	2.38	0.48
1:AA:159:G:C5'	1:AA:159:G:C8	2.96	0.48
1:AA:194:C:H2'	1:AA:195:A:H5'	1.95	0.48
1:AA:276:G:C4	1:AA:277:C:C5	3.01	0.48
1:AA:409:U:C4	1:AA:410:G:C6	3.02	0.48
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.48	0.48
1:AA:1312:G:C2	1:AA:1326:U:C2	3.01	0.48
1:AA:1326:U:H2'	1:AA:1327:C:C6	2.47	0.48
1:AA:1332:A:H5'	1:AA:1332:A:N3	2.29	0.48
2:AB:88:GLN:HG3	2:AB:220:VAL:HG11	1.95	0.48
2:AB:181:PRO:O	2:AB:182:VAL:C	2.56	0.48
4:AD:169:TRP:HB3	4:AD:183:ARG:CZ	2.43	0.48
5:AE:37:VAL:HA	5:AE:47:PHE:HA	1.94	0.48
5:AE:83:PRO:CA	5:AE:97:PRO:HD3	2.44	0.48
5:AE:94:PHE:CZ	5:AE:96:GLN:HG3	2.48	0.48
11:AK:30:ILE:HA	11:AK:45:THR:HG22	1.96	0.48
13:AM:33:LEU:HD23	13:AM:38:ILE:CG2	2.43	0.48
15:AO:3:SER:O	15:AO:7:THR:HG23	2.12	0.48
22:AV:59:U:C4	22:AV:60:U:C4	3.00	0.48
1:BA:27:G:H2'	1:BA:28:A:O4'	2.12	0.48
1:BA:58:C:C2'	1:BA:59:A:H5'	2.43	0.48
1:BA:141:G:H2'	1:BA:142:G:O4'	2.12	0.48
1:BA:615:G:C6	1:BA:626:G:C6	3.01	0.48
1:BA:688:G:H5'	11:BK:48:GLY:HA2	1.95	0.48
1:BA:815:A:H4'	1:BA:817:C:C5	2.48	0.48
1:BA:933:G:OP2	7:BG:2:ARG:HB3	2.14	0.48
1:BA:937:A:H1'	1:BA:1379:G:N2	2.29	0.48
1:BA:1048:G:H4'	14:BN:2:LYS:HE2	1.93	0.48
1:BA:1286:U:H3'	1:BA:1286:U:O2	2.13	0.48
2:BB:101:THR:CA	2:BB:178:LEU:HD21	2.44	0.48
2:BB:206:ILE:N	2:BB:206:ILE:HD13	2.29	0.48
3:BC:66:THR:O	3:BC:67:ILE:HG13	2.13	0.48
3:BC:86:LEU:O	3:BC:90:VAL:HG23	2.13	0.48
3:BC:111:ASP:O	3:BC:115:VAL:HG23	2.13	0.48
4:BD:145:ARG:NH2	4:BD:147:LYS:HE3	2.28	0.48
8:BH:7:ALA:HA	8:BH:76:ARG:HG3	1.94	0.48
9:BI:128:LYS:HD3	9:BI:129:ARG:H	1.77	0.48
12:BL:63:THR:HG23	12:BL:92:VAL:HA	1.95	0.48
12:BL:106:VAL:CG2	12:BL:116:TYR:HB3	2.40	0.48
15:BO:22:GLY:O	15:BO:23:SER:C	2.54	0.48
19:BS:50:VAL:O	19:BS:56:HIS:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BS:79:TYR:O	19:BS:80:ARG:CB	2.62	0.48
25:CA:184:C:H2'	25:CA:185:G:C8	2.48	0.48
25:CA:592:A:C2	25:CA:666:A:C4	3.01	0.48
25:CA:702:U:H2'	25:CA:703:U:O4'	2.13	0.48
25:CA:894:U:O2'	25:CA:895:U:H5'	2.14	0.48
25:CA:1180:U:HO2'	25:CA:1181:U:P	2.37	0.48
25:CA:1359:A:N7	25:CA:1373:A:C2	2.81	0.48
25:CA:1359:A:C8	25:CA:1373:A:N1	2.81	0.48
25:CA:1592:C:H2'	25:CA:1593:A:C8	2.49	0.48
25:CA:1721:G:C6	25:CA:1738:G:C6	3.01	0.48
25:CA:1840:G:C4	25:CA:1841:U:C6	3.02	0.48
25:CA:1989:G:H2'	25:CA:1990:C:O5'	2.13	0.48
25:CA:2545:G:H2'	25:CA:2546:U:O4'	2.14	0.48
27:CC:124:LYS:HD3	27:CC:127:ASN:ND2	2.29	0.48
29:CE:10:SER:O	29:CE:11:ALA:C	2.55	0.48
29:CE:175:ILE:HD13	29:CE:196:VAL:HG21	1.94	0.48
31:CG:73:SER:HA	31:CG:76:ILE:HG12	1.95	0.48
31:CG:136:ASP:O	31:CG:137:LYS:C	2.57	0.48
38:CN:24:MET:HG2	38:CN:44:LEU:CD2	2.40	0.48
41:CQ:107:ALA:HB1	42:CR:48:LYS:HZ2	1.78	0.48
43:CS:11:ARG:O	43:CS:12:SER:CB	2.61	0.48
55:C4:9:LYS:C	55:C4:10:LEU:HD23	2.39	0.48
25:DA:349:U:H2'	25:DA:350:G:H8	1.77	0.48
25:DA:570:G:H2'	25:DA:2030:A:C8	2.47	0.48
25:DA:680:C:H2'	25:DA:681:G:H8	1.78	0.48
25:DA:861:A:H3'	25:DA:862:G:C8	2.48	0.48
25:DA:1047:G:H1'	25:DA:1110:G:N1	2.28	0.48
25:DA:1087:G:C2	25:DA:1089:A:N3	2.81	0.48
25:DA:1277:G:C4'	38:DN:20:MET:HE2	2.44	0.48
25:DA:1873:G:C4	25:DA:1874:C:C5	3.02	0.48
25:DA:1932:A:C2	25:DA:1969:A:C6	3.02	0.48
25:DA:2126:A:C4	25:DA:2162:G:O6	2.66	0.48
25:DA:2137:U:C2	25:DA:2138:G:C8	3.02	0.48
25:DA:2204:G:O5'	27:DC:149:LYS:HE3	2.14	0.48
25:DA:2477:U:H5"	25:DA:2479:U:O4	2.14	0.48
27:DC:188:ARG:NH2	27:DC:188:ARG:HG3	2.29	0.48
29:DE:28:VAL:HG12	29:DE:32:VAL:HG22	1.95	0.48
29:DE:149:ILE:HD12	29:DE:150:THR:H	1.78	0.48
31:DG:39:ALA:HB2	31:DG:57:TYR:CB	2.43	0.48
32:DH:62:LEU:CD1	32:DH:63:ALA:N	2.69	0.48
32:DH:112:LYS:O	32:DH:115:VAL:HB	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DL:110:VAL:HB	36:DL:127:VAL:HG22	1.95	0.48
38:DN:79:LEU:O	38:DN:80:PHE:HB2	2.13	0.48
40:DP:20:ARG:HB3	40:DP:21:PRO:CD	2.43	0.48
1:AA:83:C:H2'	1:AA:85:U:OP2	2.13	0.48
1:AA:575:G:H4'	1:AA:576:C:OP1	2.14	0.48
1:AA:634:C:C2	1:AA:635:A:C8	3.02	0.48
1:AA:859:G:H2'	1:AA:860:A:C8	2.49	0.48
1:AA:941:G:C6	1:AA:1343:G:C6	3.01	0.48
1:AA:1158:C:N4	1:AA:1160:G:C5	2.81	0.48
1:AA:1245:C:H2'	1:AA:1246:A:C8	2.48	0.48
1:AA:1304:G:C6	1:AA:1305:G:C2	3.02	0.48
1:AA:1319:A:N7	1:AA:1323:G:C5	2.81	0.48
1:AA:1505:G:H4'	1:AA:1506:U:H5"	1.96	0.48
2:AB:90:PHE:H	2:AB:90:PHE:HD2	1.60	0.48
3:AC:134:LYS:O	3:AC:138:GLN:HG3	2.13	0.48
5:AE:88:HIS:O	5:AE:89:THR:HB	2.13	0.48
6:AF:39:LEU:HD13	6:AF:40:GLU:N	2.29	0.48
6:AF:40:GLU:HB2	6:AF:42:TRP:HE1	1.78	0.48
10:AJ:81:GLU:HA	10:AJ:84:VAL:HG12	1.94	0.48
11:AK:106:ILE:O	11:AK:106:ILE:HG23	2.13	0.48
12:AL:56:LEU:HB3	12:AL:58:ASN:OD1	2.14	0.48
13:AM:94:LEU:HD23	13:AM:94:LEU:N	2.28	0.48
16:AP:28:ARG:HG2	16:AP:29:ASN:OD1	2.14	0.48
16:AP:52:LEU:HD23	16:AP:78:VAL:HG11	1.95	0.48
19:AS:18:VAL:HG11	19:AS:42:ASN:OD1	2.13	0.48
22:AV:61:C:C2	22:AV:62:C:C5	3.01	0.48
1:BA:72:A:C5	1:BA:73:C:N4	2.80	0.48
1:BA:519:C:O2	1:BA:519:C:C2'	2.57	0.48
1:BA:642:A:C5	8:BH:106:SER:HA	2.49	0.48
1:BA:684:U:O2'	11:BK:39:ASN:O	2.24	0.48
1:BA:790:A:C6	1:BA:791:G:C6	3.02	0.48
1:BA:1098:C:H2'	1:BA:1099:G:O4'	2.13	0.48
1:BA:1124:G:C2	1:BA:1127:G:C2	3.01	0.48
1:BA:1256:A:C8	1:BA:1278:G:C8	3.02	0.48
1:BA:1275:A:H2'	1:BA:1276:G:C5'	2.39	0.48
1:BA:1473:G:O2'	1:BA:1474:U:H5'	2.14	0.48
2:BB:79:VAL:HG12	2:BB:79:VAL:O	2.13	0.48
2:BB:80:LYS:HG2	2:BB:84:LEU:CD2	2.39	0.48
2:BB:134:LEU:CD1	2:BB:138:ARG:HB3	2.43	0.48
2:BB:224:ARG:O	2:BB:225:SER:HB2	2.13	0.48
3:BC:102:ILE:N	3:BC:102:ILE:CD1	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:61:ARG:HG2	4:BD:71:PHE:CD2	2.49	0.48
5:BE:67:ARG:O	5:BE:70:MET:HE3	2.13	0.48
5:BE:96:GLN:HB2	5:BE:123:LEU:HB2	1.95	0.48
7:BG:100:MET:O	7:BG:101:ARG:C	2.55	0.48
8:BH:58:LEU:C	8:BH:58:LEU:CD1	2.86	0.48
10:BJ:24:GLU:C	10:BJ:26:VAL:N	2.69	0.48
10:BJ:46:LYS:HE2	10:BJ:68:ARG:NE	2.29	0.48
13:BM:1:ALA:HB1	13:BM:9:PRO:HD2	1.95	0.48
14:BN:64:CYS:SG	14:BN:79:LEU:CD2	3.01	0.48
17:BQ:77:VAL:O	17:BQ:78:VAL:HG22	2.14	0.48
20:BT:35:TYR:CE2	20:BT:36:ALA:HA	2.49	0.48
25:CA:493:G:H2'	25:CA:494:G:O4'	2.13	0.48
25:CA:640:C:O2'	25:CA:641:U:H5'	2.13	0.48
25:CA:1747:U:H2'	25:CA:1748:C:C6	2.48	0.48
25:CA:1857:G:H1'	25:CA:1884:G:N2	2.29	0.48
25:CA:2127:G:C2'	25:CA:2128:G:C8	2.86	0.48
25:CA:2183:A:O2'	25:CA:2184:A:H5'	2.13	0.48
25:CA:2419:U:OP1	54:C3:40:LYS:HE2	2.13	0.48
25:CA:2438:U:O2'	25:CA:2439:A:H5"	2.13	0.48
28:CD:33:ARG:NH1	28:CD:53:GLY:O	2.46	0.48
36:CL:117:THR:HG22	36:CL:117:THR:O	2.14	0.48
38:CN:28:LEU:HD12	38:CN:28:LEU:O	2.14	0.48
40:CP:102:ARG:HH11	40:CP:102:ARG:HG3	1.76	0.48
42:CR:34:GLU:CD	42:CR:60:LYS:HE2	2.38	0.48
46:CV:50:MET:C	46:CV:52:ALA:H	2.20	0.48
47:CW:17:LEU:HD23	47:CW:35:ARG:HB3	1.96	0.48
25:DA:118:A:H1'	25:DA:178:G:O4'	2.14	0.48
25:DA:146:A:C2	25:DA:147:C:C2	3.01	0.48
25:DA:629:G:H5"	25:DA:650:C:O2'	2.14	0.48
25:DA:776:G:H4'	25:DA:777:G:O5'	2.13	0.48
25:DA:994:C:H1'	42:DR:10:LYS:HE3	1.94	0.48
25:DA:1057:A:C2	25:DA:1058:U:C6	3.02	0.48
25:DA:1090:A:N1	25:DA:1102:C:C2	2.82	0.48
25:DA:1347:A:N1	25:DA:1348:C:O2	2.46	0.48
25:DA:1354:A:N7	25:DA:1355:G:C8	2.82	0.48
25:DA:1710:G:C2	25:DA:1711:A:C4	3.01	0.48
25:DA:2311:A:C5	30:DF:76:PHE:CD2	3.02	0.48
25:DA:2800:A:C3'	25:DA:2801:G:H5'	2.43	0.48
25:DA:2874:C:O2	25:DA:2874:C:C2'	2.52	0.48
27:DC:216:ARG:HB3	27:DC:217:PRO:CD	2.44	0.48
28:DD:39:ASP:O	28:DD:43:ASP:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:42:LYS:HD3	32:DH:43:ASN:N	2.28	0.48
32:DH:50:ARG:CA	32:DH:50:ARG:NE	2.76	0.48
35:DK:114:LYS:CE	35:DK:118:LEU:HD21	2.43	0.48
37:DM:42:THR:O	37:DM:43:ALA:C	2.55	0.48
37:DM:135:VAL:O	37:DM:136:MET:O	2.32	0.48
46:DV:20:LEU:O	46:DV:25:LYS:HB2	2.14	0.48
52:D1:9:LYS:O	52:D1:50:GLU:HG2	2.12	0.48
52:D1:18:HIS:CD2	52:D1:48:TYR:OH	2.67	0.48
55:D4:16:ILE:HD13	55:D4:25:VAL:CG2	2.44	0.48
1:AA:10:A:OP2	5:AE:130:THR:OG1	2.32	0.48
1:AA:146:G:C2'	1:AA:147:G:H5'	2.44	0.48
1:AA:193:C:H2'	1:AA:194:C:H6	1.78	0.48
1:AA:520:A:N1	1:AA:536:C:H1'	2.28	0.48
1:AA:685:G:O2'	1:AA:686:U:H5'	2.14	0.48
1:AA:1140:C:O2	1:AA:1141:C:C5	2.66	0.48
2:AB:98:GLY:N	2:AB:174:GLU:OE2	2.46	0.48
2:AB:117:GLU:HA	2:AB:120:SER:HB2	1.96	0.48
2:AB:127:LYS:CG	2:AB:128:LEU:N	2.75	0.48
2:AB:146:SER:O	2:AB:147:LEU:CB	2.61	0.48
2:AB:155:GLY:O	2:AB:156:LEU:O	2.31	0.48
4:AD:198:LEU:C	4:AD:200:VAL:H	2.20	0.48
6:AF:38:ARG:HB3	6:AF:63:ASN:HB2	1.94	0.48
6:AF:89:VAL:HG23	6:AF:90:MET:N	2.28	0.48
9:AI:30:ASN:O	9:AI:32:ARG:N	2.46	0.48
11:AK:22:ILE:HG13	11:AK:22:ILE:O	2.14	0.48
12:AL:2:THR:HB	12:AL:5:GLN:CG	2.43	0.48
13:AM:40:GLU:HG3	13:AM:41:ASP:H	1.77	0.48
13:AM:53:ASP:HA	13:AM:56:ARG:HE	1.79	0.48
15:AO:34:GLN:HB3	15:AO:58:MET:HE1	1.95	0.48
22:AV:59:U:C5	22:AV:60:U:O4	2.66	0.48
1:BA:272:C:H2'	1:BA:273:U:H6	1.78	0.48
1:BA:438:U:C2	1:BA:494:G:C6	3.02	0.48
1:BA:782:A:H2'	1:BA:783:C:H5'	1.95	0.48
1:BA:812:G:OP1	1:BA:903:G:H1'	2.13	0.48
1:BA:1036:A:H5'	1:BA:1037:C:OP2	2.13	0.48
1:BA:1072:G:C3'	1:BA:1073:U:H6	2.26	0.48
1:BA:1150:A:H1'	1:BA:1280:A:N6	2.28	0.48
1:BA:1225:A:C2'	1:BA:1226:C:C5	2.94	0.48
1:BA:1226:C:H4'	1:BA:1227:A:OP1	2.14	0.48
1:BA:1304:G:O3'	1:BA:1305:G:O4'	2.31	0.48
1:BA:1387:G:C6	1:BA:1388:C:N4	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1423:G:H2'	1:BA:1424:U:C6	2.46	0.48
1:BA:1426:G:O2'	1:BA:1427:C:H5'	2.13	0.48
1:BA:1458:G:H5'	20:BT:26:MET:HB3	1.96	0.48
1:BA:1477:U:O2'	1:BA:1478:U:H5'	2.13	0.48
5:BE:81:GLN:CD	5:BE:149:PRO:HD3	2.38	0.48
7:BG:41:ILE:HG23	7:BG:116:ALA:HA	1.96	0.48
10:BJ:35:GLN:CD	10:BJ:77:VAL:HB	2.38	0.48
14:BN:32:ASP:C	14:BN:32:ASP:OD2	2.56	0.48
16:BP:7:ALA:HA	16:BP:28:ARG:HG2	1.96	0.48
16:BP:56:ARG:HD2	16:BP:56:ARG:HA	1.64	0.48
19:BS:13:HIS:CD2	19:BS:13:HIS:N	2.81	0.48
20:BT:25:SER:O	20:BT:29:THR:HG23	2.14	0.48
21:BU:24:LYS:CG	21:BU:25:ALA:H	2.25	0.48
22:BV:60:U:H5"	22:BV:61:C:C5	2.49	0.48
25:CA:35:G:H2'	25:CA:36:G:O5'	2.13	0.48
25:CA:634:C:H6	25:CA:634:C:O5'	1.96	0.48
25:CA:790:U:O5'	25:CA:790:U:C2'	2.62	0.48
25:CA:1090:A:C2'	25:CA:1091:G:O5'	2.62	0.48
25:CA:1385:A:O2'	25:CA:1396:U:O2	2.31	0.48
25:CA:1392:A:N6	44:CT:18:GLU:CG	2.77	0.48
26:CB:2:G:N3	26:CB:2:G:H2'	2.29	0.48
30:CF:135:ILE:HD12	30:CF:135:ILE:N	2.29	0.48
31:CG:89:VAL:HG21	31:CG:162:ARG:CZ	2.44	0.48
32:CH:76:GLU:O	32:CH:143:ILE:HB	2.14	0.48
33:CI:54:ILE:HG12	33:CI:73:PRO:HA	1.94	0.48
34:CJ:73:VAL:HG11	34:CJ:75:TYR:CZ	2.49	0.48
35:CK:109:SER:O	35:CK:110:GLU:C	2.57	0.48
36:CL:106:GLU:HB3	36:CL:107:PHE:CE2	2.48	0.48
43:CS:20:VAL:HG11	43:CS:44:ALA:HA	1.96	0.48
45:CU:88:ASP:CG	45:CU:89:GLY:H	2.22	0.48
25:DA:52:A:C2'	25:DA:53:A:O5'	2.61	0.48
25:DA:133:U:C6	25:DA:133:U:C3'	2.97	0.48
25:DA:871:U:H4'	37:DM:68:PHE:CE2	2.49	0.48
25:DA:1328:A:H2'	25:DA:1330:C:C5	2.49	0.48
25:DA:1336:A:C2	25:DA:1337:G:C4	3.02	0.48
25:DA:1360:G:H2'	25:DA:1360:G:N3	2.28	0.48
25:DA:1717:A:H2'	25:DA:1718:G:O4'	2.13	0.48
25:DA:1862:G:C2	25:DA:1881:C:O2	2.67	0.48
25:DA:2048:G:H2'	25:DA:2049:G:O5'	2.13	0.48
25:DA:2080:A:C5	25:DA:2081:U:C5	3.01	0.48
25:DA:2293:G:N2	25:DA:2294:G:H1'	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2311:A:H5'	25:DA:2311:A:C8	2.49	0.48
25:DA:2599:G:N7	27:DC:234:GLY:O	2.47	0.48
25:DA:2619:C:H5'	28:DD:155:VAL:O	2.13	0.48
56:DB:25:U:H2'	56:DB:26:C:O4'	2.14	0.48
56:DB:91:C:H2'	56:DB:92:C:C6	2.48	0.48
29:DE:97:ASN:HB2	29:DE:100:MET:HB2	1.95	0.48
29:DE:146:VAL:HG22	29:DE:167:VAL:HG22	1.96	0.48
30:DF:6:TYR:CE1	30:DF:10:GLU:HB2	2.49	0.48
30:DF:62:GLN:NE2	30:DF:88:VAL:HG13	2.29	0.48
31:DG:3:VAL:O	31:DG:4:ALA:C	2.55	0.48
31:DG:67:ALA:HA	31:DG:70:LEU:HD12	1.96	0.48
31:DG:162:ARG:CZ	31:DG:168:VAL:HG21	2.43	0.48
33:DI:96:LYS:HA	33:DI:136:GLY:O	2.14	0.48
40:DP:98:TYR:O	40:DP:98:TYR:CD2	2.66	0.48
43:DS:29:VAL:HG13	43:DS:55:ILE:HD11	1.96	0.48
44:DT:21:SER:O	44:DT:23:ALA:N	2.47	0.48
45:DU:94:PHE:N	45:DU:102:ILE:HD12	2.29	0.48
46:DV:20:LEU:CD2	46:DV:26:PHE:N	2.77	0.48
46:DV:30:ILE:HG12	46:DV:91:PHE:CB	2.43	0.48
1:AA:72:A:N6	1:AA:73:C:N4	2.62	0.48
1:AA:307:C:C5	1:AA:308:C:C5	3.02	0.48
1:AA:554:A:H2'	1:AA:555:U:C6	2.49	0.48
1:AA:708:C:H2'	1:AA:709:U:C6	2.47	0.48
1:AA:731:G:OP1	1:AA:766:A:H1'	2.13	0.48
1:AA:809:G:C6	1:AA:810:C:C5	3.01	0.48
1:AA:872:A:C4	1:AA:874:G:N7	2.82	0.48
1:AA:1213:A:C8	1:AA:1215:G:N7	2.82	0.48
1:AA:1329:A:H2'	1:AA:1330:U:H5'	1.95	0.48
1:AA:1430:A:OP2	1:AA:1430:A:H8	1.95	0.48
1:AA:1503:A:C4	1:AA:1531:A:N3	2.82	0.48
4:AD:54:LEU:HD23	4:AD:55:ARG:HA	1.96	0.48
4:AD:156:ALA:O	4:AD:160:LEU:HD13	2.14	0.48
5:AE:24:VAL:O	5:AE:25:LYS:C	2.57	0.48
5:AE:32:PHE:CD2	5:AE:32:PHE:N	2.82	0.48
6:AF:38:ARG:HG3	6:AF:39:LEU:N	2.29	0.48
8:AH:124:ILE:O	8:AH:124:ILE:HG13	2.13	0.48
9:AI:49:GLN:C	9:AI:51:LEU:H	2.22	0.48
10:AJ:65:TYR:OH	14:AN:85:ARG:CD	2.62	0.48
11:AK:95:THR:HG23	11:AK:96:ILE:H	1.79	0.48
12:AL:54:VAL:HG12	12:AL:56:LEU:HD23	1.96	0.48
15:AO:69:LEU:O	15:AO:70:LYS:C	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:20:ILE:HD13	17:AQ:47:ASP:OD1	2.14	0.48
1:BA:600:A:C2	1:BA:601:G:C5	3.02	0.48
1:BA:634:C:O2'	1:BA:635:A:H5'	2.13	0.48
1:BA:717:U:O2'	1:BA:734:G:O4'	2.27	0.48
1:BA:1237:C:C2'	1:BA:1238:A:OP1	2.60	0.48
1:BA:1262:C:C4	1:BA:1263:C:C4	3.02	0.48
1:BA:1299:A:N3	1:BA:1299:A:H2'	2.28	0.48
3:BC:82:ASP:O	3:BC:85:LYS:HG3	2.13	0.48
7:BG:124:SER:C	7:BG:126:ALA:N	2.70	0.48
12:BL:24:GLU:O	12:BL:25:ALA:O	2.31	0.48
14:BN:14:ALA:O	14:BN:16:ALA:N	2.47	0.48
15:BO:3:SER:HB3	15:BO:6:ALA:H	1.79	0.48
15:BO:42:PHE:CE1	15:BO:55:LEU:HD22	2.48	0.48
25:CA:141:G:C2	44:CT:1:MET:HE3	2.49	0.48
25:CA:361:G:O2'	25:CA:362:A:O5'	2.30	0.48
25:CA:1079:C:C4	25:CA:1088:A:C6	3.02	0.48
25:CA:1104:C:OP2	25:CA:1104:C:C6	2.67	0.48
25:CA:2191:A:N3	25:CA:2191:A:H2'	2.29	0.48
25:CA:2774:C:H2'	25:CA:2775:G:O4'	2.14	0.48
26:CB:65:U:O5'	26:CB:65:U:H6	1.97	0.48
27:CC:10:PRO:O	27:CC:11:GLY:O	2.32	0.48
27:CC:104:LEU:N	27:CC:104:LEU:HD13	2.28	0.48
28:CD:136:ASN:HD22	28:CD:140:HIS:CD2	2.31	0.48
28:CD:157:LYS:HE3	34:CJ:79:GLY:O	2.14	0.48
29:CE:84:THR:HG22	29:CE:85:PHE:CG	2.48	0.48
30:CF:71:LYS:HD3	30:CF:72:SER:H	1.78	0.48
30:CF:94:ARG:HB3	30:CF:94:ARG:NH1	2.29	0.48
31:CG:5:LYS:O	31:CG:7:PRO:HD3	2.13	0.48
34:CJ:23:LYS:HE3	34:CJ:142:ILE:OXT	2.13	0.48
36:CL:77:ILE:HD13	36:CL:77:ILE:N	2.27	0.48
38:CN:2:ARG:HD3	38:CN:2:ARG:C	2.37	0.48
39:CO:2:ASP:O	39:CO:3:LYS:C	2.57	0.48
39:CO:19:GLN:C	39:CO:21:LEU:H	2.20	0.48
39:CO:59:ALA:O	39:CO:60:GLU:C	2.56	0.48
44:CT:12:ARG:HH21	49:CY:29:ARG:NH2	2.12	0.48
46:CV:60:VAL:C	46:CV:61:LEU:HD13	2.39	0.48
49:CY:9:LYS:H	49:CY:12:GLU:HB2	1.78	0.48
25:DA:67:U:C2	25:DA:68:G:C8	3.01	0.48
25:DA:404:A:C2	25:DA:406:G:N3	2.82	0.48
25:DA:563:A:C4	25:DA:2018:G:C2	3.02	0.48
25:DA:833:A:P	36:DL:39:LYS:HE2	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:898:C:C2'	25:DA:899:A:H5'	2.43	0.48
25:DA:967:U:H2'	25:DA:968:C:C6	2.49	0.48
25:DA:1097:U:C3'	25:DA:1098:A:H5'	2.44	0.48
25:DA:1354:A:N7	25:DA:1355:G:C4	2.82	0.48
25:DA:1421:G:C2	25:DA:1422:G:C8	3.02	0.48
25:DA:1528:A:H2'	25:DA:1529:G:O4'	2.13	0.48
25:DA:1779:U:O4	25:DA:1784:A:C8	2.66	0.48
25:DA:2347:C:H2'	25:DA:2348:U:C6	2.48	0.48
25:DA:2414:G:C5	25:DA:2415:G:N7	2.82	0.48
25:DA:2555:U:H5	25:DA:2556:C:C2	2.31	0.48
25:DA:2648:G:H2'	25:DA:2649:C:H6	1.75	0.48
32:DH:76:GLU:O	32:DH:76:GLU:CG	2.62	0.48
33:DI:11:GLN:NE2	33:DI:53:PRO:HA	2.29	0.48
40:DP:51:ASN:H	40:DP:51:ASN:ND2	2.12	0.48
40:DP:69:VAL:C	40:DP:70:GLU:HG3	2.39	0.48
42:DR:61:ALA:CB	42:DR:97:LYS:O	2.59	0.48
42:DR:63:VAL:HA	42:DR:95:ASP:O	2.13	0.48
45:DU:45:GLN:O	45:DU:45:GLN:HG2	2.13	0.48
46:DV:8:VAL:O	46:DV:9:ARG:C	2.56	0.48
49:DY:50:VAL:O	49:DY:54:LYS:HG3	2.13	0.48
49:DY:56:LEU:HD23	49:DY:59:GLU:OE1	2.13	0.48
50:DZ:5:LYS:O	50:DZ:56:VAL:HG23	2.14	0.48
1:AA:20:U:H2'	1:AA:21:G:H5'	1.95	0.48
1:AA:94:G:N1	1:AA:98:A:C2	2.82	0.48
1:AA:201:G:H2'	1:AA:202:G:C8	2.49	0.48
1:AA:1238:A:N3	1:AA:1241:G:H1'	2.29	0.48
1:AA:1288:A:H2'	1:AA:1289:A:O4'	2.13	0.48
2:AB:30:ILE:CD1	2:AB:38:HIS:HB2	2.44	0.48
2:AB:53:LEU:N	2:AB:53:LEU:CD2	2.77	0.48
4:AD:162:GLU:HA	4:AD:166:LYS:CD	2.44	0.48
4:AD:171:GLU:HG2	4:AD:182:LYS:NZ	2.29	0.48
5:AE:150:GLU:O	5:AE:153:ALA:N	2.47	0.48
7:AG:148:LYS:C	7:AG:150:PHE:N	2.69	0.48
9:AI:22:PRO:HA	9:AI:60:LEU:HB3	1.96	0.48
9:AI:129:ARG:CZ	9:AI:129:ARG:HB3	2.44	0.48
16:AP:42:ILE:O	16:AP:44:SER:N	2.46	0.48
19:AS:11:ASP:OD1	19:AS:36:ARG:HD2	2.13	0.48
24:AY:157:SER:O	24:AY:160:ASP:N	2.47	0.48
1:BA:184:G:O2'	1:BA:185:U:H5'	2.12	0.48
1:BA:211:G:N3	1:BA:211:G:H2'	2.28	0.48
1:BA:778:G:O2'	11:BK:120:CYS:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1397:C:H3'	1:BA:1398:A:H5"	1.94	0.48
2:BB:49:PHE:C	2:BB:52:ALA:HB3	2.39	0.48
4:BD:90:LEU:HD11	4:BD:196:GLU:HG3	1.96	0.48
6:BF:82:ASP:C	6:BF:84:VAL:H	2.22	0.48
9:BI:41:GLU:O	9:BI:42:THR:C	2.56	0.48
9:BI:62:LEU:HD23	9:BI:62:LEU:H	1.78	0.48
9:BI:62:LEU:HD23	9:BI:62:LEU:N	2.29	0.48
10:BJ:8:ILE:HD13	10:BJ:25:ILE:HD11	1.96	0.48
15:BO:36:ASN:C	15:BO:38:LEU:N	2.70	0.48
15:BO:48:ASP:CG	15:BO:51:SER:HB2	2.39	0.48
15:BO:70:LYS:HD2	15:BO:77:TYR:CZ	2.49	0.48
15:BO:73:ASP:HB3	15:BO:76:ARG:HG3	1.94	0.48
16:BP:44:SER:HG	16:BP:46:LYS:HG2	1.79	0.48
18:BR:48:ALA:O	18:BR:51:GLN:HB3	2.13	0.48
21:BU:10:PRO:O	21:BU:11:PHE:CB	2.61	0.48
25:CA:1532:A:H3'	25:CA:1533:C:H6	1.79	0.48
25:CA:1716:U:C2'	25:CA:1717:A:H5'	2.44	0.48
25:CA:1734:G:C5	25:CA:1735:A:N7	2.82	0.48
25:CA:1925:C:C5'	25:CA:1926:U:C5	2.97	0.48
25:CA:2415:G:H2'	25:CA:2416:C:O5'	2.14	0.48
25:CA:2552:U:C2	25:CA:2554:U:H5'	2.49	0.48
27:CC:181:ARG:HH21	27:CC:181:ARG:HG2	1.79	0.48
29:CE:189:THR:HB	29:CE:192:ALA:HB2	1.94	0.48
38:CN:48:VAL:CG1	38:CN:49:GLU:N	2.74	0.48
42:CR:49:ILE:HB	42:CR:51:VAL:O	2.13	0.48
48:CX:40:GLU:O	48:CX:42:GLU:N	2.46	0.48
49:CY:37:LEU:C	49:CY:37:LEU:CD1	2.87	0.48
25:DA:71:A:H2'	25:DA:71:A:N3	2.29	0.48
25:DA:205:G:O2'	25:DA:206:U:OP2	2.29	0.48
25:DA:548:G:H4'	25:DA:549:G:N1	2.28	0.48
25:DA:732:C:H2'	25:DA:733:G:H5'	1.96	0.48
25:DA:863:A:N7	60:DA:3733:HOH:O	2.35	0.48
25:DA:898:C:H2'	25:DA:899:A:C5'	2.44	0.48
25:DA:911:A:H8	25:DA:911:A:O5'	1.96	0.48
25:DA:1019:U:OP1	25:DA:1035:U:O2'	2.26	0.48
25:DA:1240:U:HO2'	25:DA:1241:A:P	2.37	0.48
25:DA:1525:A:C4	25:DA:1526:C:C6	3.02	0.48
25:DA:1663:G:C6	25:DA:1992:G:C8	3.02	0.48
25:DA:1676:A:N1	25:DA:1677:A:N3	2.61	0.48
25:DA:1708:C:C2'	25:DA:1709:U:H5'	2.43	0.48
25:DA:1709:U:H2'	25:DA:1710:G:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1754:A:N6	25:DA:1755:A:N6	2.62	0.48
25:DA:2013:A:H2'	25:DA:2014:A:O5'	2.14	0.48
25:DA:2118:U:C4	25:DA:2149:U:H1'	2.48	0.48
25:DA:2162:G:H4'	25:DA:2171:A:H2'	1.95	0.48
25:DA:2422:C:C4	25:DA:2424:C:N4	2.81	0.48
25:DA:2662:A:H2'	25:DA:2663:G:O4'	2.14	0.48
25:DA:2730:C:H2'	25:DA:2731:G:O5'	2.14	0.48
56:DB:63:C:H2'	56:DB:64:G:O5'	2.13	0.48
56:DB:78:A:H2'	56:DB:79:G:O4'	2.13	0.48
56:DB:81:G:C5	56:DB:82:U:C5	3.02	0.48
28:DD:14:ILE:HA	40:DP:11:GLN:HE22	1.77	0.48
28:DD:172:VAL:CG2	28:DD:194:PRO:CD	2.90	0.48
31:DG:140:ILE:HA	31:DG:143:VAL:HG23	1.96	0.48
33:DI:72:THR:HB	33:DI:73:PRO:CD	2.43	0.48
33:DI:73:PRO:HB2	33:DI:74:PRO:HD2	1.95	0.48
34:DJ:104:ALA:O	34:DJ:108:MET:HG3	2.14	0.48
36:DL:8:PRO:O	36:DL:9:ALA:O	2.32	0.48
38:DN:32:GLU:CB	38:DN:115:LEU:HD12	2.44	0.48
38:DN:51:LEU:HD11	38:DN:70:THR:HG22	1.94	0.48
42:DR:35:PHE:O	42:DR:58:VAL:HA	2.14	0.48
45:DU:23:LYS:HB3	45:DU:36:GLU:CD	2.39	0.48
46:DV:38:LEU:HB3	46:DV:40:ILE:CD1	2.43	0.48
1:AA:55:A:H2'	1:AA:56:U:O4'	2.14	0.48
1:AA:108:G:H5'	1:AA:109:A:H2	1.78	0.48
1:AA:157:U:H1'	1:AA:165:G:N2	2.29	0.48
1:AA:258:G:C6	1:AA:259:G:C5	3.01	0.48
1:AA:572:A:C5'	1:AA:573:A:OP2	2.62	0.48
1:AA:643:C:C2'	1:AA:644:U:H5'	2.44	0.48
1:AA:706:A:H2'	1:AA:707:U:H5'	1.95	0.48
1:AA:949:A:C5	1:AA:950:U:C5	3.02	0.48
1:AA:949:A:C4	1:AA:1233:G:N2	2.82	0.48
1:AA:951:G:C5	1:AA:1231:G:C6	3.01	0.48
1:AA:1160:G:O2'	1:AA:1161:C:P	2.72	0.48
1:AA:1304:G:C6	1:AA:1305:G:N2	2.82	0.48
1:AA:1413:A:C6	1:AA:1414:U:C5	3.02	0.48
2:AB:53:LEU:CD1	2:AB:216:VAL:HG13	2.43	0.48
2:AB:206:ILE:O	2:AB:210:THR:HG23	2.14	0.48
3:AC:84:GLU:C	3:AC:86:LEU:N	2.70	0.48
3:AC:158:GLY:HA2	3:AC:192:TYR:CD1	2.49	0.48
4:AD:149:LYS:O	4:AD:150:LYS:C	2.56	0.48
4:AD:167:PRO:HB2	4:AD:170:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:110:MET:HA	5:AE:113:VAL:HG13	1.95	0.48
7:AG:65:LEU:C	7:AG:67:ASN:H	2.22	0.48
9:AI:24:ASN:C	9:AI:58:GLU:CA	2.87	0.48
10:AJ:6:ILE:HD13	10:AJ:76:ILE:HB	1.96	0.48
11:AK:37:GLN:CA	11:AK:37:GLN:OE1	2.61	0.48
14:AN:43:ASN:OD1	14:AN:47:LYS:NZ	2.47	0.48
14:AN:61:ARG:HG2	14:AN:70:PRO:HB3	1.95	0.48
15:AO:5:GLU:HG2	15:AO:6:ALA:N	2.29	0.48
16:AP:53:ASP:O	16:AP:57:ILE:HG13	2.14	0.48
21:AU:36:PHE:O	21:AU:37:TYR:CB	2.61	0.48
22:AV:64:A:C6	22:AV:65:G:N7	2.82	0.48
24:AY:122:ALA:O	24:AY:125:ALA:HB3	2.13	0.48
1:BA:162:A:H5"	1:BA:163:C:OP2	2.12	0.48
1:BA:275:G:C2	1:BA:276:G:C8	3.02	0.48
1:BA:728:A:C6	1:BA:729:A:N6	2.82	0.48
1:BA:980:C:H4'	14:BN:59:ARG:HH12	1.79	0.48
1:BA:1313:U:C2	1:BA:1314:C:C6	3.02	0.48
1:BA:1360:A:C1'	14:BN:58:SER:HG	2.27	0.48
1:BA:1534:A:H5"	1:BA:1535:C:OP1	2.12	0.48
2:BB:61:SER:O	2:BB:63:LYS:N	2.47	0.48
2:BB:102:ASN:O	2:BB:103:TRP:C	2.57	0.48
4:BD:173:ASP:HB3	4:BD:178:GLU:O	2.13	0.48
5:BE:80:LEU:HB3	5:BE:146:MET:HE3	1.96	0.48
5:BE:115:GLU:O	5:BE:118:GLY:HA2	2.14	0.48
5:BE:122:VAL:O	5:BE:122:VAL:HG23	2.14	0.48
7:BG:105:GLU:O	7:BG:108:ARG:HB2	2.13	0.48
9:BI:33:SER:HB3	9:BI:36:GLN:HB2	1.95	0.48
11:BK:58:THR:HB	11:BK:59:PRO:HD2	1.96	0.48
11:BK:85:VAL:CG1	11:BK:92:ARG:NH1	2.77	0.48
11:BK:111:ASP:HB3	21:BU:3:ILE:CG2	2.44	0.48
13:BM:15:VAL:CG1	13:BM:40:GLU:HA	2.44	0.48
22:BV:65:G:H2'	22:BV:66:U:C6	2.49	0.48
25:CA:1:G:H8	25:CA:1:G:OP2	1.97	0.48
25:CA:141:G:H5"	25:CA:142:A:N7	2.29	0.48
25:CA:183:C:C2'	25:CA:184:C:H5'	2.42	0.48
25:CA:225:C:C2'	25:CA:226:A:H5'	2.44	0.48
25:CA:883:G:N2	25:CA:894:U:H1'	2.29	0.48
25:CA:1057:A:N6	25:CA:1086:A:O3'	2.47	0.48
25:CA:1319:C:C2'	25:CA:1320:C:H5'	2.44	0.48
25:CA:1979:U:C2'	25:CA:1980:G:H5'	2.44	0.48
25:CA:2032:G:N1	25:CA:2572:A:C8	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2105:U:O4	25:CA:2184:A:N1	2.47	0.48
25:CA:2161:C:O2	25:CA:2162:G:H8	1.96	0.48
25:CA:2547:A:H2'	25:CA:2548:U:C6	2.49	0.48
25:CA:2751:G:H2'	25:CA:2751:G:N3	2.29	0.48
27:CC:90:ILE:HD12	27:CC:102:TYR:CD1	2.49	0.48
27:CC:170:TYR:CD2	27:CC:184:GLU:CA	2.96	0.48
30:CF:30:VAL:O	30:CF:30:VAL:CG2	2.62	0.48
30:CF:71:LYS:HE2	30:CF:71:LYS:HA	1.96	0.48
31:CG:169:ARG:HH12	55:C4:29:ALA:HA	1.78	0.48
33:CI:57:VAL:HG23	33:CI:71:LYS:HZ3	1.78	0.48
38:CN:78:LYS:HG2	38:CN:78:LYS:O	2.13	0.48
45:CU:68:ASN:C	45:CU:69:VAL:HG13	2.38	0.48
45:CU:70:ALA:HB3	45:CU:79:ALA:HB1	1.95	0.48
25:DA:157:C:H3'	25:DA:157:C:H6	1.79	0.48
25:DA:217:A:H2'	25:DA:218:A:O4'	2.14	0.48
25:DA:446:G:OP1	41:DQ:2:ARG:CD	2.62	0.48
25:DA:528:A:N1	25:DA:2043:C:H5'	2.29	0.48
25:DA:587:C:OP2	36:DL:21:ARG:NH1	2.47	0.48
25:DA:778:G:C5	25:DA:779:U:C4	3.02	0.48
25:DA:1372:U:H2'	25:DA:1373:A:C5'	2.44	0.48
25:DA:2482:A:H2'	25:DA:2483:C:C6	2.48	0.48
25:DA:2712:C:OP1	25:DA:2714:G:H4'	2.14	0.48
25:DA:2729:G:H2'	25:DA:2730:C:C6	2.48	0.48
56:DB:102:G:O5'	56:DB:102:G:C8	2.64	0.48
30:DF:42:ALA:O	30:DF:46:LYS:HD2	2.14	0.48
33:DI:79:LEU:O	33:DI:83:ALA:HB3	2.14	0.48
36:DL:23:ILE:HD13	42:DR:84:ARG:HG2	1.95	0.48
43:DS:35:ILE:O	43:DS:36:LEU:C	2.53	0.48
52:D1:24:LYS:CG	52:D1:25:ASN:N	2.75	0.48
54:D3:39:ARG:O	54:D3:43:LEU:HD12	2.14	0.48
1:AA:16:A:C2'	1:AA:17:U:H5'	2.44	0.47
1:AA:244:U:O2	1:AA:894:G:H1'	2.13	0.47
1:AA:413:G:N1	4:AD:32:LYS:HD2	2.29	0.47
1:AA:452:A:H3'	1:AA:452:A:H8	1.77	0.47
1:AA:503:C:O5'	1:AA:503:C:H6	1.97	0.47
1:AA:745:G:O2'	1:AA:746:A:H5'	2.14	0.47
1:AA:921:U:H2'	1:AA:922:G:O4'	2.14	0.47
1:AA:1306:A:C5	1:AA:1307:U:C5	3.01	0.47
2:AB:110:ILE:CD1	2:AB:150:ILE:HG12	2.43	0.47
3:AC:10:ARG:O	3:AC:12:GLY:N	2.46	0.47
4:AD:11:SER:O	4:AD:12:ARG:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:123:MET:HE2	4:AD:145:ARG:HD2	1.95	0.47
4:AD:160:LEU:N	4:AD:160:LEU:HD22	2.29	0.47
8:AH:122:GLY:O	8:AH:123:GLU:C	2.56	0.47
10:AJ:40:ILE:HB	10:AJ:73:LEU:CB	2.44	0.47
12:AL:105:GLY:HA3	12:AL:117:GLY:O	2.14	0.47
13:AM:59:VAL:C	13:AM:61:LYS:H	2.21	0.47
16:AP:72:ALA:HA	16:AP:75:ILE:HD11	1.95	0.47
1:BA:49:U:C4	1:BA:364:A:C6	3.02	0.47
1:BA:81:A:H2'	1:BA:82:G:H8	1.79	0.47
1:BA:340:U:C2	1:BA:350:G:N2	2.82	0.47
1:BA:452:A:H3'	1:BA:452:A:C8	2.49	0.47
1:BA:681:A:C6	1:BA:710:G:C6	3.02	0.47
1:BA:857:C:H2'	1:BA:858:G:O5'	2.14	0.47
2:BB:44:LYS:O	2:BB:48:MET:HB2	2.14	0.47
2:BB:86:CYS:H	2:BB:88:GLN:NE2	2.12	0.47
3:BC:76:ILE:HA	3:BC:83:VAL:HG21	1.96	0.47
5:BE:110:MET:O	5:BE:114:LEU:HB2	2.14	0.47
7:BG:131:GLY:CA	7:BG:134:VAL:HG13	2.44	0.47
8:BH:105:THR:HG21	8:BH:115:ALA:HB2	1.96	0.47
13:BM:33:LEU:N	13:BM:33:LEU:HD23	2.29	0.47
14:BN:35:ALA:HB3	14:BN:41:ARG:HD3	1.96	0.47
15:BO:34:GLN:O	15:BO:35:ILE:C	2.56	0.47
17:BQ:5:ARG:HB2	17:BQ:5:ARG:HH11	1.78	0.47
19:BS:32:THR:HB	19:BS:34:SER:H	1.78	0.47
20:BT:80:ALA:O	20:BT:81:GLN:C	2.57	0.47
25:CA:220:G:H1'	25:CA:234:U:H1'	1.95	0.47
25:CA:359:G:C6	25:CA:360:U:C6	3.01	0.47
25:CA:565:C:H4'	25:CA:1253:A:N6	2.29	0.47
25:CA:1314:C:O2	25:CA:1314:C:C2'	2.61	0.47
25:CA:1871:A:N7	25:CA:1872:A:N1	2.61	0.47
25:CA:1894:C:H2'	25:CA:1895:C:H6	1.79	0.47
25:CA:2136:G:H1	25:CA:2155:U:H3	1.61	0.47
25:CA:2141:G:C2'	25:CA:2142:A:H5'	2.44	0.47
25:CA:2145:C:H3'	25:CA:2145:C:C6	2.49	0.47
25:CA:2196:C:C2'	25:CA:2197:U:H5'	2.43	0.47
25:CA:2469:A:H4'	37:CM:55:ARG:HH22	1.78	0.47
25:CA:2472:G:H2'	25:CA:2475:C:H42	1.79	0.47
27:CC:100:ARG:NH1	27:CC:100:ARG:HG3	2.28	0.47
27:CC:159:THR:N	27:CC:194:VAL:CG1	2.77	0.47
32:CH:80:ILE:CD1	32:CH:144:VAL:CG1	2.92	0.47
33:CI:41:PHE:CE2	33:CI:42:ASN:OD1	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CJ:33:ALA:HB2	34:CJ:105:VAL:HG13	1.95	0.47
35:CK:47:ILE:HB	35:CK:48:PRO:HD3	1.96	0.47
39:CO:16:ARG:O	39:CO:20:GLU:HG3	2.14	0.47
43:CS:66:ILE:HA	43:CS:69:LEU:CD2	2.44	0.47
25:DA:59:U:H2'	25:DA:60:G:O5'	2.14	0.47
25:DA:66:C:H2'	25:DA:67:U:H6	1.80	0.47
25:DA:362:A:C2	25:DA:363:G:C8	3.02	0.47
25:DA:417:C:H2'	25:DA:418:C:H6	1.79	0.47
25:DA:447:A:C6	25:DA:454:A:C8	3.01	0.47
25:DA:616:A:C2'	25:DA:617:G:C5'	2.91	0.47
25:DA:643:A:H3'	25:DA:644:A:H8	1.78	0.47
25:DA:1161:C:H1'	42:DR:8:GLY:O	2.13	0.47
25:DA:1231:U:H2'	25:DA:1232:G:H8	1.79	0.47
25:DA:1268:A:H2'	25:DA:1269:A:O5'	2.14	0.47
25:DA:1475:G:O2'	25:DA:1476:U:OP1	2.25	0.47
25:DA:1527:G:H5"	25:DA:1528:A:OP1	2.14	0.47
25:DA:1789:A:OP2	27:DC:220:ARG:NH1	2.47	0.47
25:DA:2016:U:H1'	51:D0:2:VAL:HG21	1.95	0.47
25:DA:2091:C:C3'	25:DA:2092:U:H5"	2.43	0.47
25:DA:2472:G:N2	25:DA:2529:G:N1	2.61	0.47
25:DA:2746:U:C4	25:DA:2747:G:C8	3.01	0.47
25:DA:2857:G:N2	25:DA:2859:G:C8	2.82	0.47
25:DA:2870:C:C4	25:DA:2871:U:C5	3.02	0.47
56:DB:4:C:H2'	56:DB:5:U:H6	1.78	0.47
56:DB:91:C:H2'	56:DB:92:C:H6	1.79	0.47
27:DC:212:TRP:C	27:DC:214:GLY:H	2.22	0.47
27:DC:236:GLY:O	27:DC:237:ARG:CG	2.62	0.47
28:DD:105:LYS:C	28:DD:177:VAL:HG12	2.39	0.47
30:DF:95:MET:O	30:DF:96:TRP:C	2.57	0.47
30:DF:97:GLU:O	30:DF:100:GLU:HB3	2.14	0.47
33:DI:89:SER:HB3	33:DI:92:PRO:CG	2.44	0.47
35:DK:99:ILE:N	35:DK:99:ILE:HD12	2.29	0.47
37:DM:21:ALA:HA	37:DM:97:GLN:HE21	1.79	0.47
38:DN:48:VAL:O	38:DN:49:GLU:C	2.56	0.47
49:DY:12:GLU:OE1	49:DY:12:GLU:CA	2.61	0.47
50:DZ:20:LYS:O	50:DZ:23:LEU:HB2	2.14	0.47
1:AA:212:G:H2'	1:AA:213:G:C8	2.48	0.47
1:AA:335:C:O2'	1:AA:336:A:H5'	2.14	0.47
1:AA:430:A:OP2	4:AD:7:LYS:HG2	2.15	0.47
1:AA:623:C:H2'	1:AA:624:C:H5'	1.96	0.47
1:AA:656:G:C4	1:AA:657:U:C6	3.01	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:710:G:H5”	6:AF:53:LYS:NZ	2.29	0.47
1:AA:748:G:H2’	1:AA:749:A:H8	1.79	0.47
1:AA:806:C:O2	1:AA:807:A:C8	2.67	0.47
1:AA:872:A:N7	1:AA:874:G:C8	2.83	0.47
1:AA:1007:U:C2’	1:AA:1008:U:H5’	2.45	0.47
1:AA:1215:G:C2	1:AA:1216:A:C8	3.02	0.47
1:AA:1259:C:N4	1:AA:1260:G:C4	2.82	0.47
1:AA:1519:A:C8	1:AA:1520:C:H1’	2.49	0.47
2:AB:68:PHE:HE2	2:AB:88:GLN:CB	2.27	0.47
2:AB:145:ASN:O	2:AB:146:SER:CB	2.61	0.47
2:AB:183:PHE:CE2	2:AB:197:PHE:CD2	3.02	0.47
3:AC:166:TRP:HE3	3:AC:166:TRP:O	1.98	0.47
4:AD:97:LEU:CD2	4:AD:117:VAL:HG11	2.44	0.47
4:AD:167:PRO:CB	4:AD:170:LEU:HD11	2.44	0.47
5:AE:56:PRO:O	5:AE:60:GLN:HB2	2.14	0.47
5:AE:81:GLN:NE2	5:AE:149:PRO:CD	2.77	0.47
5:AE:115:GLU:OE1	5:AE:116:VAL:HG12	2.15	0.47
10:AJ:42:LEU:HD23	10:AJ:43:PRO:HD2	1.94	0.47
10:AJ:63:ASP:OD2	14:AN:98:LYS:HD2	2.14	0.47
15:AO:78:THR:C	15:AO:82:GLU:OE1	2.57	0.47
17:AQ:47:ASP:O	17:AQ:48:GLU:C	2.56	0.47
23:AX:5:A:H5’	23:AX:6:G:OP2	2.15	0.47
1:BA:166:U:C2’	1:BA:167:A:H5’	2.43	0.47
1:BA:186:C:H4’	20:BT:75:LYS:HG3	1.96	0.47
1:BA:342:C:C4	1:BA:348:G:N1	2.82	0.47
1:BA:957:U:O2	1:BA:959:A:H8	1.96	0.47
1:BA:1014:A:N7	1:BA:1015:G:C5	2.82	0.47
1:BA:1036:A:H5’	1:BA:1037:C:P	2.54	0.47
1:BA:1237:C:C6	1:BA:1336:C:C4	3.03	0.47
1:BA:1477:U:H2’	1:BA:1478:U:C6	2.49	0.47
3:BC:10:ARG:HH21	3:BC:181:ILE:HG13	1.79	0.47
4:BD:35:GLN:O	4:BD:36:ALA:CB	2.62	0.47
5:BE:82:HIS:CG	8:BH:95:MET:CE	2.97	0.47
6:BF:5:GLU:O	6:BF:89:VAL:HA	2.13	0.47
9:BI:67:LYS:HD3	9:BI:67:LYS:N	2.28	0.47
11:BK:15:VAL:HG12	11:BK:76:TYR:HB3	1.96	0.47
17:BQ:54:ILE:HD13	17:BQ:54:ILE:O	2.13	0.47
18:BR:28:LEU:O	18:BR:30:ASN:N	2.47	0.47
25:CA:152:A:C2	25:CA:175:G:C2	3.02	0.47
25:CA:277:G:H2’	25:CA:278:A:OP2	2.14	0.47
25:CA:1098:A:C5	25:CA:1099:G:C6	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1820:U:O2	27:CC:200:MET:HB3	2.14	0.47
25:CA:1924:C:H3'	25:CA:1925:C:C5'	2.44	0.47
25:CA:2221:G:H2'	25:CA:2222:C:H5'	1.95	0.47
25:CA:2371:G:N2	25:CA:2372:U:H1'	2.28	0.47
27:CC:224:MET:HE3	27:CC:229:HIS:CD2	2.48	0.47
29:CE:29:HIS:CE1	36:CL:8:PRO:HD3	2.48	0.47
30:CF:23:SER:O	30:CF:25:MET:N	2.47	0.47
31:CG:24:THR:C	31:CG:25:ILE:HG12	2.39	0.47
32:CH:1:MET:SD	32:CH:3:VAL:CG1	3.02	0.47
33:CI:17:ALA:CB	33:CI:41:PHE:CE2	2.97	0.47
34:CJ:58:ASN:N	34:CJ:127:GLY:O	2.45	0.47
36:CL:4:ASN:C	36:CL:5:THR:CG2	2.87	0.47
40:CP:102:ARG:HD2	40:CP:106:ALA:O	2.15	0.47
41:CQ:90:ASP:C	41:CQ:90:ASP:OD2	2.55	0.47
45:CU:37:GLY:O	45:CU:38:ILE:HD13	2.15	0.47
49:CY:9:LYS:C	49:CY:11:VAL:N	2.72	0.47
52:C1:44:GLN:HA	52:C1:44:GLN:OE1	2.15	0.47
25:DA:3:U:H2'	25:DA:4:U:O4'	2.14	0.47
25:DA:280:U:H2'	25:DA:281:C:C6	2.50	0.47
25:DA:602:A:O2'	25:DA:655:A:N1	2.45	0.47
25:DA:1225:G:H2'	25:DA:1226:A:C8	2.49	0.47
25:DA:1414:C:N3	25:DA:1415:U:H5	2.12	0.47
25:DA:1458:U:H5'	25:DA:1459:G:N3	2.28	0.47
25:DA:1647:U:H3'	25:DA:1647:U:P	2.54	0.47
25:DA:1883:U:O4	25:DA:1884:G:C6	2.67	0.47
25:DA:1929:G:H4'	25:DA:1930:G:OP1	2.13	0.47
25:DA:2286:G:H5'	25:DA:2287:A:O4'	2.14	0.47
25:DA:2297:A:N3	25:DA:2298:A:C8	2.82	0.47
25:DA:2303:G:H2'	25:DA:2304:G:C5'	2.44	0.47
25:DA:2891:U:O2'	25:DA:2892:G:H5'	2.14	0.47
56:DB:73:A:C4	56:DB:104:A:C2	3.03	0.47
29:DE:15:SER:N	29:DE:197:GLU:OE2	2.47	0.47
29:DE:45:ALA:HB1	29:DE:87:ALA:O	2.14	0.47
30:DF:16:MET:HA	30:DF:16:MET:HE3	1.95	0.47
30:DF:39:VAL:CG1	30:DF:40:GLY:N	2.77	0.47
36:DL:41:ARG:O	36:DL:42:SER:C	2.57	0.47
40:DP:88:ARG:CD	40:DP:112:ARG:NH2	2.77	0.47
42:DR:95:ASP:C	42:DR:96:VAL:HG13	2.38	0.47
44:DT:1:MET:C	44:DT:2:ILE:HD12	2.39	0.47
1:AA:143:A:H5'	1:AA:144:G:O5'	2.15	0.47
1:AA:160:A:H1'	1:AA:344:A:N7	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:173:U:C6	1:AA:197:A:C2	3.01	0.47
1:AA:277:C:H2'	1:AA:278:G:C5'	2.44	0.47
1:AA:373:A:H2'	1:AA:374:A:H8	1.79	0.47
1:AA:427:U:H3'	1:AA:428:G:H2'	1.96	0.47
1:AA:656:G:C4	1:AA:657:U:C5	3.02	0.47
1:AA:735:C:H2'	1:AA:736:C:H6	1.78	0.47
1:AA:859:G:C2'	1:AA:860:A:O5'	2.62	0.47
1:AA:872:A:C5	1:AA:874:G:C8	3.03	0.47
1:AA:923:A:H2'	1:AA:924:C:O4'	2.15	0.47
1:AA:1103:C:C2'	1:AA:1104:G:O5'	2.62	0.47
1:AA:1124:G:C2	1:AA:1150:A:C2	3.03	0.47
1:AA:1285:A:H4'	1:AA:1286:U:C4	2.50	0.47
1:AA:1374:A:C2'	1:AA:1375:A:H5'	2.44	0.47
2:AB:26:MET:CE	2:AB:29:PHE:CD2	2.97	0.47
2:AB:49:PHE:CB	2:AB:212:TYR:OH	2.62	0.47
2:AB:84:LEU:O	2:AB:88:GLN:O	2.33	0.47
3:AC:69:THR:O	3:AC:104:GLU:HA	2.14	0.47
5:AE:80:LEU:CA	5:AE:146:MET:HE1	2.44	0.47
6:AF:71:ILE:HG23	6:AF:72:ASP:H	1.79	0.47
11:AK:46:ALA:HA	11:AK:65:ALA:HB2	1.96	0.47
11:AK:52:ARG:O	11:AK:55:ARG:HB2	2.14	0.47
11:AK:109:ILE:HG22	21:AU:16:ARG:HE	1.79	0.47
13:AM:18:LEU:HD12	13:AM:32:ILE:HG21	1.96	0.47
13:AM:40:GLU:CG	13:AM:41:ASP:H	2.28	0.47
13:AM:44:ILE:HG22	13:AM:44:ILE:O	2.15	0.47
17:AQ:12:VAL:HG12	17:AQ:21:VAL:HG13	1.96	0.47
19:AS:39:ILE:CD1	19:AS:70:LEU:CD2	2.92	0.47
22:AV:12:U:C2'	22:AV:13:C:O5'	2.63	0.47
24:AY:130:ARG:HD3	25:CA:1942:C:O2	2.15	0.47
1:BA:82:G:N7	1:BA:83:C:C4	2.82	0.47
1:BA:144:G:H2'	1:BA:145:G:O5'	2.14	0.47
1:BA:381:C:C4	1:BA:382:A:C5	3.03	0.47
1:BA:753:A:H4'	1:BA:754:C:O2	2.14	0.47
1:BA:840:C:O2	1:BA:847:G:C2	2.67	0.47
1:BA:985:C:H2'	1:BA:985:C:O2	2.13	0.47
1:BA:1049:U:C4'	1:BA:1050:G:OP2	2.62	0.47
1:BA:1501:C:OP1	1:BA:1508:A:H4'	2.13	0.47
3:BC:49:ALA:O	3:BC:71:ARG:HB2	2.14	0.47
4:BD:58:GLN:HA	4:BD:58:GLN:OE1	2.14	0.47
5:BE:37:VAL:CG1	5:BE:38:VAL:N	2.77	0.47
6:BF:53:LYS:O	6:BF:54:LEU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:82:LEU:HD11	8:BH:84:ILE:HD11	1.95	0.47
12:BL:2:THR:N	12:BL:5:GLN:HG3	2.29	0.47
12:BL:24:GLU:C	12:BL:26:CYS:N	2.65	0.47
15:BO:58:MET:O	15:BO:59:VAL:C	2.56	0.47
25:CA:359:G:C5	25:CA:360:U:C6	3.02	0.47
25:CA:587:C:N3	36:CL:33:ARG:NH2	2.61	0.47
25:CA:1106:G:C4	25:CA:1107:G:C8	3.01	0.47
25:CA:1249:U:H4'	41:CQ:3:VAL:HG11	1.96	0.47
25:CA:1281:G:C2	25:CA:1290:C:C2	3.02	0.47
25:CA:1922:G:N7	25:CA:1923:U:C5	2.82	0.47
25:CA:2128:G:H2'	25:CA:2129:C:C6	2.49	0.47
25:CA:2211:A:O2'	25:CA:2212:A:P	2.72	0.47
25:CA:2516:A:C6	25:CA:2517:C:N4	2.82	0.47
26:CB:35:C:H2'	26:CB:36:C:O4'	2.14	0.47
28:CD:97:SER:C	28:CD:99:GLU:H	2.22	0.47
29:CE:145:ASP:HA	29:CE:166:LYS:O	2.15	0.47
30:CF:37:MET:HE1	30:CF:55:ASP:HB2	1.96	0.47
33:CI:115:ASP:O	33:CI:116:MET:CG	2.63	0.47
42:CR:68:ARG:HG2	42:CR:92:TRP:CE3	2.49	0.47
45:CU:98:ASN:C	45:CU:100:GLU:N	2.70	0.47
25:DA:207:A:H2'	25:DA:208:C:O4'	2.13	0.47
25:DA:528:A:N1	25:DA:2043:C:C5'	2.77	0.47
25:DA:818:G:H2'	25:DA:819:A:H5"	1.95	0.47
25:DA:1581:G:O2'	25:DA:1582:C:O5'	2.31	0.47
25:DA:1606:C:C2'	25:DA:1607:C:OP2	2.62	0.47
25:DA:1678:A:H2'	25:DA:1679:A:H5'	1.95	0.47
25:DA:2214:C:H2'	25:DA:2215:C:O4'	2.15	0.47
25:DA:2294:G:O2'	25:DA:2295:C:H5'	2.14	0.47
25:DA:2344:U:P	52:D1:36:LYS:HD2	2.55	0.47
25:DA:2491:U:C5'	25:DA:2570:G:C5'	2.92	0.47
25:DA:2591:C:H2'	25:DA:2592:G:H8	1.79	0.47
25:DA:2748:A:C5	25:DA:2749:A:C8	3.02	0.47
29:DE:40:ARG:NH2	29:DE:92:HIS:CE1	2.82	0.47
31:DG:95:ALA:CB	31:DG:104:LEU:HD23	2.44	0.47
33:DI:32:VAL:HG11	33:DI:37:PHE:CE2	2.49	0.47
33:DI:79:LEU:HD13	33:DI:135:MET:HE2	1.95	0.47
33:DI:123:ALA:C	33:DI:125:THR:H	2.23	0.47
36:DL:112:LEU:HD13	36:DL:130:GLY:O	2.15	0.47
38:DN:48:VAL:C	38:DN:50:PRO:HD2	2.39	0.47
40:DP:28:LYS:HB3	40:DP:39:LEU:HD21	1.96	0.47
43:DS:36:LEU:CD1	43:DS:48:LYS:HA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DU:4:ILE:HG22	45:DU:5:ARG:N	2.29	0.47
48:DX:39:VAL:O	48:DX:39:VAL:HG23	2.14	0.47
49:DY:7:ARG:O	49:DY:7:ARG:HG3	2.14	0.47
1:AA:66:A:H2'	1:AA:66:A:N3	2.30	0.47
1:AA:69:G:H2'	1:AA:70:U:C6	2.49	0.47
1:AA:79:G:H2'	1:AA:80:A:O4'	2.15	0.47
1:AA:744:C:H2'	1:AA:745:G:H8	1.76	0.47
1:AA:1020:G:H2'	1:AA:1020:G:N3	2.28	0.47
1:AA:1367:C:C2	1:AA:1368:A:C8	3.03	0.47
1:AA:1397:C:H3'	1:AA:1398:A:H5"	1.95	0.47
2:AB:142:LYS:O	2:AB:145:ASN:OD1	2.32	0.47
3:AC:13:ILE:HG12	3:AC:13:ILE:O	2.14	0.47
3:AC:154:GLY:HA2	3:AC:163:ARG:N	2.29	0.47
5:AE:152:VAL:CG1	8:AH:98:LEU:HD13	2.43	0.47
7:AG:149:ALA:CB	11:AK:55:ARG:HH22	2.28	0.47
10:AJ:5:ARG:HG2	10:AJ:79:PRO:CG	2.43	0.47
10:AJ:80:THR:HB	10:AJ:83:THR:CB	2.42	0.47
13:AM:65:GLU:O	13:AM:68:LEU:N	2.48	0.47
15:AO:45:HIS:O	15:AO:47:LYS:N	2.48	0.47
16:AP:6:LEU:HG	16:AP:17:TYR:CB	2.44	0.47
16:AP:44:SER:OG	16:AP:46:LYS:HG3	2.14	0.47
16:AP:72:ALA:HA	16:AP:75:ILE:HD12	1.97	0.47
20:AT:34:VAL:HG21	20:AT:53:MET:HG2	1.96	0.47
24:AY:29:ARG:HD3	24:AY:110:ARG:HH22	1.79	0.47
24:AY:155:ARG:NH2	25:CA:2602:A:O2'	2.48	0.47
1:BA:247:G:C6	1:BA:278:G:C2	3.02	0.47
1:BA:554:A:H5'	12:BL:25:ALA:HB1	1.96	0.47
1:BA:558:G:H5"	1:BA:559:A:O5'	2.14	0.47
1:BA:652:U:H1'	1:BA:653:U:C6	2.50	0.47
1:BA:806:C:H2'	1:BA:807:A:H8	1.79	0.47
1:BA:1093:A:C2	1:BA:1095:U:O4'	2.67	0.47
1:BA:1221:G:C5'	19:BS:76:THR:HG21	2.44	0.47
1:BA:1308:U:C5	13:BM:97:ARG:NH2	2.82	0.47
2:BB:66:ILE:HB	2:BB:88:GLN:HB3	1.96	0.47
3:BC:34:SER:HA	3:BC:37:LYS:HB3	1.97	0.47
3:BC:80:GLY:O	3:BC:81:GLU:C	2.57	0.47
3:BC:120:THR:CG2	3:BC:121:SER:N	2.78	0.47
3:BC:149:LYS:CB	3:BC:168:ARG:HA	2.44	0.47
3:BC:180:ASP:HB3	3:BC:204:GLY:H	1.79	0.47
4:BD:119:HIS:O	4:BD:120:LYS:HB2	2.14	0.47
4:BD:190:LEU:O	4:BD:191:SER:CB	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:15:ILE:O	5:BE:16:ALA:HB2	2.15	0.47
5:BE:80:LEU:N	5:BE:80:LEU:CD1	2.76	0.47
5:BE:82:HIS:CG	8:BH:95:MET:HE3	2.49	0.47
6:BF:8:PHE:CE1	6:BF:60:VAL:HG21	2.49	0.47
6:BF:69:GLU:CA	6:BF:69:GLU:OE1	2.62	0.47
7:BG:14:ASP:HB3	7:BG:18:GLY:N	2.28	0.47
7:BG:27:ASN:O	7:BG:28:ILE:C	2.56	0.47
7:BG:106:ALA:CB	7:BG:122:GLU:HG3	2.45	0.47
9:BI:7:GLY:HA2	9:BI:84:ARG:HB3	1.96	0.47
9:BI:28:VAL:HB	9:BI:63:TYR:CD2	2.48	0.47
9:BI:42:THR:HA	9:BI:44:ARG:NH2	2.29	0.47
11:BK:76:TYR:N	11:BK:76:TYR:HD1	2.13	0.47
17:BQ:13:SER:OG	17:BQ:16:MET:CE	2.60	0.47
17:BQ:47:ASP:HB2	17:BQ:51:GLU:OE2	2.14	0.47
18:BR:44:THR:OG1	18:BR:46:THR:CG2	2.63	0.47
19:BS:57:VAL:CG1	19:BS:74:ALA:HB2	2.45	0.47
20:BT:34:VAL:CG1	20:BT:78:LEU:CD1	2.92	0.47
20:BT:53:MET:O	20:BT:54:GLN:C	2.58	0.47
21:BU:14:ALA:C	21:BU:16:ARG:H	2.22	0.47
25:CA:178:G:O2'	25:CA:179:C:H5'	2.14	0.47
25:CA:417:C:H2'	25:CA:418:C:C6	2.48	0.47
25:CA:742:A:H2'	25:CA:743:A:C8	2.49	0.47
25:CA:1234:U:H6	25:CA:1234:U:O5'	1.97	0.47
25:CA:1519:G:C4	25:CA:1520:U:C5	3.02	0.47
25:CA:1880:U:H2'	25:CA:1881:C:C6	2.49	0.47
25:CA:2102:G:C5	25:CA:2103:C:C5	3.02	0.47
27:CC:17:LYS:HA	27:CC:17:LYS:CE	2.44	0.47
28:CD:55:LYS:HG2	28:CD:56:LYS:H	1.79	0.47
30:CF:105:ILE:CD1	30:CF:138:PRO:HG3	2.44	0.47
33:CI:18:ASN:H	33:CI:19:PRO:HD3	1.79	0.47
35:CK:113:MET:C	35:CK:115:ILE:N	2.68	0.47
37:CM:47:GLU:O	37:CM:48:ALA:C	2.56	0.47
37:CM:111:GLU:OE1	37:CM:111:GLU:O	2.31	0.47
41:CQ:23:TYR:HB3	41:CQ:27:ARG:HB3	1.96	0.47
50:CZ:3:THR:CG2	50:CZ:36:GLU:HB3	2.45	0.47
25:DA:38:A:N3	29:DE:43:THR:HB	2.29	0.47
25:DA:46:G:C6	25:DA:47:C:N4	2.82	0.47
25:DA:611:C:C5	25:DA:612:G:N7	2.82	0.47
25:DA:690:G:O2'	27:DC:42:ARG:NH2	2.43	0.47
25:DA:989:G:OP2	50:DZ:11:SER:OG	2.26	0.47
25:DA:1057:A:H2'	25:DA:1057:A:N3	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1275:A:O2'	25:DA:1645:G:N3	2.47	0.47
25:DA:1477:A:N3	25:DA:1515:A:C6	2.83	0.47
25:DA:1681:G:O2'	25:DA:1762:A:H1'	2.14	0.47
25:DA:2059:A:C2	25:DA:2503:A:C6	3.02	0.47
25:DA:2523:G:C2'	25:DA:2524:G:H5'	2.44	0.47
25:DA:2673:G:H2'	25:DA:2674:G:H8	1.78	0.47
25:DA:2678:C:H2'	25:DA:2679:A:O4'	2.14	0.47
25:DA:2682:A:C2'	25:DA:2683:C:H5'	2.45	0.47
25:DA:2771:C:H2'	25:DA:2772:C:H6	1.79	0.47
56:DB:50:A:OP2	39:DO:67:ASN:HA	2.14	0.47
28:DD:49:GLN:OE1	28:DD:79:LEU:HB3	2.14	0.47
32:DH:21:VAL:HG23	32:DH:25:TYR:CD2	2.48	0.47
38:DN:38:LEU:HB3	38:DN:39:PRO:HD3	1.95	0.47
45:DU:11:ILE:CG1	45:DU:19:GLY:O	2.62	0.47
46:DV:28:ALA:CB	46:DV:42:LEU:HD21	2.44	0.47
48:DX:1:SER:O	48:DX:3:VAL:HG23	2.14	0.47
1:AA:103:U:O2'	1:AA:104:G:H5'	2.14	0.47
1:AA:147:G:H2'	1:AA:148:G:H8	1.77	0.47
1:AA:158:G:C2'	1:AA:159:G:H5"	2.43	0.47
1:AA:540:G:O2'	1:AA:541:G:H5'	2.14	0.47
1:AA:915:A:H2'	1:AA:916:U:H5'	1.96	0.47
1:AA:987:G:C2'	1:AA:988:G:H5'	2.45	0.47
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.50	0.47
1:AA:1322:C:OP1	19:AS:77:ARG:NH2	2.47	0.47
2:AB:9:LEU:HG	2:AB:11:ALA:H	1.78	0.47
2:AB:84:LEU:HG	2:AB:85:SER:CA	2.44	0.47
2:AB:134:LEU:HA	2:AB:137:THR:OG1	2.14	0.47
3:AC:6:PRO:O	3:AC:10:ARG:HG3	2.14	0.47
4:AD:123:MET:HG3	4:AD:145:ARG:HG2	1.96	0.47
6:AF:82:ASP:OD1	6:AF:82:ASP:N	2.47	0.47
7:AG:145:GLU:HA	7:AG:148:LYS:HE2	1.96	0.47
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.78	0.47
8:AH:110:MET:CE	8:AH:115:ALA:HA	2.45	0.47
9:AI:60:LEU:HD23	9:AI:60:LEU:N	2.28	0.47
10:AJ:19:ASP:O	10:AJ:23:ALA:HB2	2.14	0.47
13:AM:53:ASP:CB	13:AM:56:ARG:HE	2.27	0.47
14:AN:17:ASP:C	14:AN:19:TYR:N	2.71	0.47
14:AN:34:ASN:O	14:AN:41:ARG:HD3	2.14	0.47
24:AY:107:THR:HG23	24:AY:110:ARG:CG	2.44	0.47
1:BA:9:G:OP2	5:BE:125:LYS:HE2	2.14	0.47
1:BA:53:A:C2	1:BA:359:G:C2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:94:G:H5'	1:BA:95:C:H5	1.79	0.47
1:BA:446:G:C2'	1:BA:447:G:O5'	2.63	0.47
1:BA:448:A:H3'	1:BA:449:G:H8	1.78	0.47
1:BA:468:A:H2'	1:BA:469:C:C5'	2.44	0.47
1:BA:468:A:O4'	1:BA:468:A:N3	2.46	0.47
1:BA:498:A:H8	1:BA:498:A:OP2	1.96	0.47
1:BA:560:A:H4'	1:BA:561:U:H5"	1.96	0.47
1:BA:686:U:C2	1:BA:687:A:C8	3.01	0.47
1:BA:833:G:C4	1:BA:834:U:C6	3.02	0.47
1:BA:1251:A:O2'	1:BA:1252:A:C5'	2.62	0.47
1:BA:1275:A:C5	1:BA:1276:G:N7	2.82	0.47
1:BA:1539:C:C2'	1:BA:1540:U:H5'	2.45	0.47
2:BB:181:PRO:CA	2:BB:196:ASP:OD1	2.61	0.47
2:BB:202:ASN:OD1	2:BB:203:ASP:N	2.47	0.47
3:BC:65:VAL:O	3:BC:65:VAL:HG12	2.13	0.47
4:BD:169:TRP:CG	4:BD:185:PRO:HG3	2.49	0.47
6:BF:51:ILE:HD11	6:BF:85:ILE:HB	1.96	0.47
6:BF:86:ARG:CG	6:BF:86:ARG:NH1	2.70	0.47
7:BG:7:GLY:O	7:BG:8:GLN:CB	2.63	0.47
7:BG:16:LYS:HD3	7:BG:17:PHE:CE1	2.50	0.47
7:BG:16:LYS:CE	7:BG:17:PHE:CE1	2.98	0.47
10:BJ:19:ASP:O	10:BJ:22:THR:HG22	2.14	0.47
11:BK:81:LEU:HD23	11:BK:81:LEU:N	2.30	0.47
13:BM:50:GLY:C	13:BM:52:ILE:H	2.21	0.47
22:BV:32:U:C4	22:BV:33:U:C5	3.02	0.47
25:CA:371:A:H5"	25:CA:423:A:C2	2.48	0.47
25:CA:483:A:O2'	45:CU:56:GLY:HA2	2.15	0.47
25:CA:720:U:O2	25:CA:720:U:C2'	2.61	0.47
25:CA:892:A:C2	25:CA:893:C:C5	3.02	0.47
25:CA:1199:U:H5"	60:CA:3712:HOH:O	2.15	0.47
25:CA:1306:C:O2	25:CA:1306:C:C2'	2.62	0.47
25:CA:1408:G:C2'	25:CA:1409:U:H5'	2.44	0.47
25:CA:1434:A:O2'	25:CA:1435:G:H8	1.95	0.47
25:CA:1536:C:H4'	25:CA:1537:G:C5'	2.45	0.47
25:CA:1855:U:O2'	25:CA:1856:U:H5'	2.15	0.47
25:CA:1924:C:H2'	25:CA:1925:C:H5"	1.96	0.47
25:CA:2655:G:O2'	25:CA:2656:U:OP2	2.32	0.47
25:CA:2831:G:OP1	28:CD:56:LYS:HE2	2.15	0.47
27:CC:16:VAL:CG2	27:CC:203:VAL:HG22	2.44	0.47
28:CD:67:HIS:O	28:CD:68:PHE:C	2.57	0.47
30:CF:30:VAL:HG23	30:CF:95:MET:SD	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:56:LEU:HD11	30:CF:86:CYS:O	2.14	0.47
32:CH:57:LYS:HG2	32:CH:58:LEU:HG	1.96	0.47
33:CI:6:ALA:CB	33:CI:60:VAL:N	2.78	0.47
33:CI:56:VAL:O	33:CI:57:VAL:O	2.32	0.47
33:CI:105:LEU:HA	33:CI:108:ILE:CB	2.43	0.47
34:CJ:73:VAL:HG12	34:CJ:75:TYR:CE2	2.49	0.47
41:CQ:35:PHE:C	41:CQ:37:ALA:H	2.22	0.47
44:CT:35:ALA:HB1	44:CT:37:ASP:OD1	2.15	0.47
45:CU:97:SER:O	45:CU:98:ASN:HB3	2.14	0.47
25:DA:59:U:C2'	25:DA:60:G:O5'	2.62	0.47
25:DA:149:A:C2'	25:DA:150:U:O5'	2.62	0.47
25:DA:158:U:C3'	25:DA:159:G:H5'	2.44	0.47
25:DA:410:G:C6	25:DA:2407:A:N6	2.82	0.47
25:DA:585:G:C5'	25:DA:586:A:OP1	2.62	0.47
25:DA:625:G:H2'	25:DA:626:A:C8	2.50	0.47
25:DA:838:C:O2'	25:DA:839:U:H5'	2.15	0.47
25:DA:909:A:C6	25:DA:912:C:C2	3.02	0.47
25:DA:929:U:O2	50:DZ:25:GLY:HA2	2.14	0.47
25:DA:1043:C:H2'	25:DA:1044:C:O4'	2.14	0.47
25:DA:1123:C:O2'	25:DA:1124:G:H5'	2.14	0.47
25:DA:1168:G:H2'	25:DA:1169:A:O4'	2.14	0.47
25:DA:1244:A:H5'	36:DL:8:PRO:HD2	1.97	0.47
25:DA:1269:A:O5'	25:DA:1269:A:H8	1.97	0.47
25:DA:1331:G:C5	25:DA:1333:G:C8	3.02	0.47
25:DA:1398:C:H2'	25:DA:1399:C:O5'	2.15	0.47
25:DA:1414:C:C5	25:DA:1415:U:H5	2.31	0.47
25:DA:1455:G:C5	25:DA:1456:G:C8	3.02	0.47
25:DA:1494:A:C6	25:DA:1495:A:C5	3.03	0.47
25:DA:1588:G:C3'	25:DA:1589:U:H6	2.27	0.47
25:DA:1893:C:H2'	25:DA:1894:C:H5'	1.97	0.47
25:DA:2259:U:H1'	25:DA:2427:C:C2	2.49	0.47
25:DA:2476:A:C2	25:DA:2477:U:C2	3.02	0.47
25:DA:2646:C:O5'	25:DA:2646:C:H6	1.98	0.47
25:DA:2656:U:C5	25:DA:2664:G:N2	2.82	0.47
25:DA:2660:A:C6	25:DA:2661:G:C6	3.02	0.47
56:DB:12:C:C2	57:DW:70:PRO:HA	2.50	0.47
56:DB:62:C:O5'	56:DB:62:C:H6	1.97	0.47
27:DC:123:ILE:HG22	27:DC:123:ILE:O	2.14	0.47
27:DC:220:ARG:O	27:DC:221:GLY:C	2.57	0.47
30:DF:32:LYS:O	30:DF:33:ILE:HG12	2.14	0.47
31:DG:67:ALA:O	31:DG:71:LEU:HD12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DH:9:VAL:HB	32:DH:13:GLY:HA3	1.96	0.47
32:DH:131:SER:C	32:DH:132:PHE:CD2	2.92	0.47
33:DI:125:THR:HG22	33:DI:126:ARG:N	2.29	0.47
35:DK:19:VAL:HG11	35:DK:41:ILE:HD13	1.97	0.47
36:DL:59:ARG:HB3	36:DL:59:ARG:NH1	2.29	0.47
37:DM:130:PHE:CD2	37:DM:131:VAL:N	2.82	0.47
39:DO:58:ILE:HG22	39:DO:62:LEU:HD11	1.96	0.47
41:DQ:24:TYR:CG	41:DQ:25:GLY:N	2.83	0.47
45:DU:8:ASP:O	45:DU:24:VAL:HG23	2.15	0.47
45:DU:35:VAL:CG1	45:DU:38:ILE:HG13	2.44	0.47
54:D3:60:CYS:O	54:D3:61:LEU:HD23	2.14	0.47
1:AA:140:U:H2'	1:AA:141:G:O5'	2.13	0.47
1:AA:198:G:C6	1:AA:199:A:N7	2.82	0.47
1:AA:456:A:N6	1:AA:457:G:C6	2.83	0.47
1:AA:591:U:H2'	1:AA:592:G:H8	1.79	0.47
1:AA:1181:G:C6	1:AA:1182:G:N2	2.83	0.47
1:AA:1186:G:H2'	1:AA:1187:G:O5'	2.14	0.47
3:AC:205:GLU:OE2	3:AC:205:GLU:HA	2.14	0.47
4:AD:186:GLU:O	4:AD:187:ARG:C	2.56	0.47
10:AJ:65:TYR:HB2	14:AN:96:LEU:HD11	1.96	0.47
13:AM:53:ASP:HB3	13:AM:56:ARG:HH21	1.79	0.47
13:AM:66:GLY:O	13:AM:70:ARG:HB3	2.15	0.47
13:AM:68:LEU:O	13:AM:72:ILE:HG13	2.14	0.47
15:AO:49:HIS:O	15:AO:52:ARG:HB3	2.15	0.47
23:AX:18:C:H3'	23:AX:19:U:C5'	2.45	0.47
1:BA:220:G:N3	1:BA:221:C:C6	2.83	0.47
1:BA:243:A:N1	1:BA:246:A:N7	2.62	0.47
1:BA:318:G:N1	1:BA:319:G:C5	2.82	0.47
1:BA:590:U:H2'	1:BA:591:U:H6	1.76	0.47
1:BA:594:U:C3'	1:BA:595:A:H8	2.26	0.47
1:BA:606:G:N2	1:BA:632:U:OP1	2.47	0.47
1:BA:791:G:H2'	1:BA:792:A:H5'	1.95	0.47
1:BA:842:U:O2	1:BA:845:A:OP1	2.33	0.47
1:BA:929:G:C6	1:BA:930:C:C5	3.02	0.47
1:BA:1298:U:H5'	1:BA:1299:A:C8	2.50	0.47
1:BA:1350:A:C6	1:BA:1351:U:N3	2.83	0.47
1:BA:1424:U:C2	1:BA:1425:U:C6	3.03	0.47
1:BA:1505:G:H4'	1:BA:1506:U:C5'	2.45	0.47
3:BC:70:ALA:C	3:BC:72:PRO:HD3	2.39	0.47
4:BD:123:MET:CE	4:BD:145:ARG:HD2	2.44	0.47
6:BF:6:ILE:HB	6:BF:62:MET:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:67:PRO:C	6:BF:69:GLU:N	2.70	0.47
6:BF:70:VAL:O	6:BF:71:ILE:C	2.57	0.47
7:BG:114:SER:HB3	7:BG:117:LEU:HG	1.96	0.47
11:BK:18:GLY:O	11:BK:81:LEU:HB2	2.15	0.47
12:BL:20:VAL:N	12:BL:21:PRO:HD3	2.30	0.47
16:BP:44:SER:O	16:BP:46:LYS:HG3	2.14	0.47
16:BP:61:VAL:HG21	16:BP:67:ILE:HD11	1.90	0.47
25:CA:7:G:H5'	34:CJ:132:HIS:CE1	2.49	0.47
25:CA:278:A:H2'	25:CA:278:A:N3	2.29	0.47
25:CA:528:A:C8	25:CA:528:A:C3'	2.97	0.47
25:CA:729:G:H2'	25:CA:1775:U:H1'	1.96	0.47
25:CA:1069:A:N1	25:CA:1074:G:C5	2.82	0.47
25:CA:1075:C:H3'	25:CA:1075:C:C6	2.49	0.47
25:CA:1122:G:C6	25:CA:1123:C:C5	3.03	0.47
25:CA:1124:G:H2'	25:CA:1125:G:H5'	1.95	0.47
25:CA:1637:A:H5'	25:CA:1760:C:O2'	2.14	0.47
25:CA:1731:G:C2	25:CA:1733:G:C4	3.03	0.47
25:CA:1735:A:C2	25:CA:1736:U:C2	3.03	0.47
25:CA:1776:G:N3	25:CA:1776:G:H2'	2.29	0.47
25:CA:1878:G:H2'	25:CA:1879:C:O4'	2.15	0.47
25:CA:2140:G:O6	25:CA:2151:U:O2	2.32	0.47
29:CE:30:GLN:HG2	29:CE:30:GLN:O	2.14	0.47
30:CF:73:VAL:HG22	30:CF:78:ILE:CD1	2.44	0.47
33:CI:100:ILE:HG22	33:CI:104:GLN:HB2	1.95	0.47
34:CJ:96:ARG:NH2	34:CJ:99:ARG:HD3	2.30	0.47
36:CL:2:ARG:O	36:CL:2:ARG:CG	2.62	0.47
39:CO:27:VAL:HG23	39:CO:38:GLN:HG3	1.97	0.47
39:CO:66:GLY:C	39:CO:102:ARG:NH2	2.72	0.47
44:CT:87:LEU:O	44:CT:89:GLU:N	2.46	0.47
45:CU:71:ILE:HG12	45:CU:71:ILE:O	2.14	0.47
46:CV:70:ILE:HG22	46:CV:72:VAL:HG13	1.96	0.47
52:C1:31:GLU:O	52:C1:31:GLU:HG2	2.15	0.47
25:DA:140:C:O2	25:DA:140:C:O4'	2.33	0.47
25:DA:252:G:N2	25:DA:253:C:H1'	2.30	0.47
25:DA:615:U:C3'	25:DA:616:A:H5'	2.42	0.47
25:DA:915:C:H2'	25:DA:916:G:H5'	1.97	0.47
25:DA:947:A:H2'	25:DA:948:C:C6	2.49	0.47
25:DA:1018:U:C2	25:DA:1019:U:C5	3.02	0.47
25:DA:1464:G:H2'	25:DA:1465:G:C8	2.49	0.47
25:DA:1523:U:O2'	25:DA:1524:G:H5'	2.14	0.47
25:DA:1635:A:C6	25:DA:1636:U:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1911:U:H2'	25:DA:1918:A:C2	2.49	0.47
25:DA:1918:A:HO2'	25:DA:1920:C:N4	2.13	0.47
25:DA:2137:U:N3	25:DA:2138:G:C8	2.83	0.47
25:DA:2293:G:H2'	25:DA:2294:G:O4'	2.14	0.47
25:DA:2418:A:OP1	54:D3:44:ARG:HD3	2.15	0.47
25:DA:2555:U:H2'	25:DA:2556:C:H5'	1.96	0.47
25:DA:2723:C:H2'	25:DA:2724:U:O5'	2.14	0.47
25:DA:2793:C:C2	25:DA:2794:C:C5	3.03	0.47
27:DC:188:ARG:HG3	27:DC:188:ARG:HH21	1.80	0.47
31:DG:26:LYS:CB	31:DG:31:GLU:HG3	2.45	0.47
32:DH:135:HIS:HB3	32:DH:138:VAL:HB	1.96	0.47
33:DI:7:TYR:O	33:DI:8:VAL:HG13	2.15	0.47
33:DI:16:MET:SD	33:DI:22:PRO:HG2	2.55	0.47
33:DI:122:GLU:O	33:DI:125:THR:HB	2.14	0.47
36:DL:132:ARG:HG3	36:DL:142:ILE:HD12	1.95	0.47
38:DN:26:GLY:O	38:DN:29:VAL:N	2.47	0.47
44:DT:17:SER:O	44:DT:20:ALA:N	2.47	0.47
57:DW:15:LYS:O	57:DW:16:ARG:CB	2.63	0.47
1:AA:49:U:O2'	1:AA:50:A:H2'	2.14	0.47
1:AA:71:A:O2'	1:AA:72:A:P	2.73	0.47
1:AA:130:A:N7	17:AQ:64:ARG:HB2	2.29	0.47
1:AA:154:U:O4	1:AA:167:A:N1	2.48	0.47
1:AA:258:G:C2	1:AA:269:C:O2	2.68	0.47
1:AA:299:G:O6	1:AA:300:A:N1	2.48	0.47
1:AA:340:U:H2'	1:AA:341:C:C6	2.47	0.47
1:AA:417:G:C2	1:AA:418:C:C2	3.02	0.47
1:AA:502:A:C2	1:AA:503:C:C2	3.03	0.47
1:AA:599:C:O2	1:AA:640:A:C2	2.68	0.47
1:AA:609:A:O5'	1:AA:609:A:H8	1.97	0.47
1:AA:714:G:O2'	1:AA:715:A:H5'	2.14	0.47
1:AA:763:G:H2'	1:AA:764:C:O5'	2.13	0.47
1:AA:864:A:OP1	1:AA:864:A:H8	1.98	0.47
1:AA:946:A:O2'	1:AA:1333:A:N3	2.47	0.47
1:AA:1230:C:H6	1:AA:1230:C:O5'	1.97	0.47
1:AA:1286:U:O2	1:AA:1286:U:H2'	2.14	0.47
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.29	0.47
1:AA:1490:U:H2'	1:AA:1491:G:H5'	1.94	0.47
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.96	0.47
1:AA:1507:A:C5	1:AA:1530:G:C6	3.02	0.47
1:AA:1508:A:H2'	1:AA:1509:C:C6	2.50	0.47
2:AB:27:LYS:N	2:AB:28:PRO:HD3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:40:ILE:HG21	2:AB:201:GLY:H	1.79	0.47
2:AB:205:ALA:C	2:AB:206:ILE:HD13	2.39	0.47
3:AC:153:SER:HA	3:AC:164:THR:HA	1.95	0.47
4:AD:101:VAL:HA	4:AD:104:MET:HG3	1.96	0.47
5:AE:94:PHE:HZ	5:AE:96:GLN:HG3	1.79	0.47
5:AE:108:GLY:O	5:AE:109:ALA:CB	2.62	0.47
6:AF:20:GLY:O	6:AF:21:MET:C	2.58	0.47
6:AF:67:PRO:O	6:AF:69:GLU:N	2.48	0.47
7:AG:42:VAL:O	7:AG:46:LEU:N	2.47	0.47
7:AG:94:ARG:CZ	7:AG:98:LEU:HD21	2.44	0.47
11:AK:96:ILE:HA	11:AK:99:LEU:HD23	1.96	0.47
12:AL:115:LYS:O	12:AL:116:TYR:CB	2.63	0.47
13:AM:70:ARG:HD2	13:AM:70:ARG:O	2.15	0.47
14:AN:81:ARG:O	14:AN:82:ILE:C	2.58	0.47
16:AP:52:LEU:O	16:AP:54:LEU:N	2.48	0.47
17:AQ:14:ASP:N	17:AQ:16:MET:HE1	2.30	0.47
17:AQ:17:GLU:O	17:AQ:18:LYS:HB2	2.15	0.47
18:AR:25:ILE:HA	18:AR:28:LEU:HB2	1.95	0.47
20:AT:53:MET:HA	20:AT:56:ILE:CG2	2.44	0.47
21:AU:38:GLU:HA	21:AU:40:PRO:HD2	1.96	0.47
21:AU:38:GLU:OE2	21:AU:41:THR:HG21	2.14	0.47
21:AU:44:ARG:O	21:AU:45:LYS:C	2.58	0.47
22:AV:21:A:O4'	22:AV:48:C:N4	2.48	0.47
22:AV:48:C:C2	22:AV:59:U:H1'	2.50	0.47
1:BA:8:A:N6	4:BD:201:GLU:O	2.47	0.47
1:BA:15:G:C6	1:BA:16:A:C6	3.03	0.47
1:BA:158:G:C5	1:BA:159:G:N7	2.82	0.47
1:BA:161:A:H2'	1:BA:162:A:C8	2.49	0.47
1:BA:179:A:H2'	1:BA:180:U:C6	2.50	0.47
1:BA:337:G:C6	1:BA:338:A:C6	3.02	0.47
1:BA:352:C:H42	1:BA:357:G:N2	2.11	0.47
1:BA:389:A:H2'	1:BA:390:U:H5'	1.97	0.47
1:BA:406:G:C2	1:BA:407:U:C5	3.03	0.47
1:BA:414:A:C2	1:BA:415:A:C1'	2.97	0.47
1:BA:467:U:H3'	1:BA:467:U:O2	2.15	0.47
1:BA:484:G:H4'	1:BA:485:U:C5'	2.44	0.47
1:BA:518:C:C2'	1:BA:530:G:C8	2.91	0.47
1:BA:560:A:C8	1:BA:566:G:N3	2.83	0.47
1:BA:607:A:H2'	1:BA:608:A:C8	2.48	0.47
1:BA:709:U:H2'	1:BA:710:G:H8	1.79	0.47
1:BA:801:U:C2	1:BA:802:A:C8	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1155:A:O2'	1:BA:1156:G:H5'	2.15	0.47
1:BA:1302:C:C4	13:BM:16:ILE:CD1	2.98	0.47
1:BA:1323:G:C1'	1:BA:1362:A:C2	2.97	0.47
1:BA:1381:U:H2'	1:BA:1382:C:H6	1.80	0.47
1:BA:1392:G:C2'	1:BA:1393:U:H5'	2.45	0.47
1:BA:1422:G:C2'	1:BA:1423:G:H5'	2.44	0.47
1:BA:1438:G:C2'	1:BA:1439:G:H5'	2.44	0.47
1:BA:1523:G:OP1	11:BK:124:LYS:HD3	2.15	0.47
2:BB:49:PHE:O	2:BB:52:ALA:HB3	2.15	0.47
2:BB:68:PHE:O	2:BB:90:PHE:HA	2.15	0.47
2:BB:82:ALA:O	2:BB:85:SER:OG	2.30	0.47
2:BB:95:TRP:CH2	2:BB:99:MET:HG3	2.49	0.47
2:BB:163:ILE:HG13	2:BB:203:ASP:HB2	1.96	0.47
3:BC:130:ARG:H	3:BC:130:ARG:HE	1.62	0.47
3:BC:151:GLU:HA	3:BC:166:TRP:HB3	1.96	0.47
4:BD:36:ALA:O	4:BD:38:GLY:N	2.48	0.47
4:BD:71:PHE:HE1	4:BD:199:ILE:HD11	1.79	0.47
4:BD:165:GLU:O	4:BD:166:LYS:C	2.57	0.47
5:BE:92:ARG:HB3	5:BE:92:ARG:CZ	2.43	0.47
5:BE:155:LYS:CG	8:BH:65:PHE:HB2	2.43	0.47
6:BF:29:ILE:HG21	6:BF:36:ILE:HG22	1.97	0.47
6:BF:70:VAL:HG23	6:BF:71:ILE:H	1.80	0.47
9:BI:5:TYR:HB2	9:BI:20:ILE:CG2	2.44	0.47
9:BI:19:PHE:O	9:BI:62:LEU:HA	2.14	0.47
9:BI:66:VAL:O	9:BI:66:VAL:HG13	2.14	0.47
9:BI:81:GLY:O	9:BI:82:ILE:C	2.58	0.47
9:BI:88:GLU:C	9:BI:88:GLU:OE2	2.58	0.47
11:BK:109:ILE:CG2	21:BU:16:ARG:NE	2.77	0.47
12:BL:50:LYS:CD	12:BL:50:LYS:N	2.78	0.47
13:BM:18:LEU:O	13:BM:20:SER:N	2.47	0.47
17:BQ:69:THR:O	17:BQ:70:LYS:CB	2.63	0.47
20:BT:53:MET:HG3	20:BT:54:GLN:H	1.78	0.47
20:BT:66:ILE:O	20:BT:67:HIS:CB	2.62	0.47
21:BU:19:LYS:C	21:BU:21:SER:N	2.73	0.47
21:BU:24:LYS:NZ	21:BU:25:ALA:HB2	2.30	0.47
25:CA:21:A:C2'	25:CA:22:C:O5'	2.63	0.47
25:CA:158:U:H2'	25:CA:159:G:H5'	1.96	0.47
25:CA:460:A:P	53:C2:41:ARG:HH12	2.37	0.47
25:CA:632:A:H2'	25:CA:633:A:C8	2.49	0.47
25:CA:662:G:O3'	36:CL:16:GLY:HA2	2.14	0.47
25:CA:684:G:C6	25:CA:774:G:C4	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:729:G:C6	27:CC:206:LYS:HB2	2.49	0.47
25:CA:894:U:H2'	25:CA:895:U:H6	1.77	0.47
25:CA:1076:C:H2'	25:CA:1077:A:O4'	2.14	0.47
25:CA:1079:C:N4	25:CA:1088:A:C4	2.83	0.47
25:CA:1090:A:N1	25:CA:1091:G:N7	2.62	0.47
25:CA:1196:C:O4'	25:CA:1226:A:C2	2.68	0.47
25:CA:1287:A:H3'	25:CA:1288:G:N2	2.30	0.47
25:CA:1415:U:O2	25:CA:1415:U:C3'	2.63	0.47
25:CA:1433:A:H2'	25:CA:1434:A:O4'	2.15	0.47
25:CA:1441:G:H2'	25:CA:1442:U:C6	2.50	0.47
25:CA:1533:C:N4	25:CA:1534:U:C4	2.83	0.47
25:CA:1534:U:O2	25:CA:1534:U:H2'	2.13	0.47
25:CA:1547:C:C2'	25:CA:1548:A:O5'	2.62	0.47
25:CA:1585:C:C2'	25:CA:1586:A:H5'	2.44	0.47
25:CA:1773:A:N7	25:CA:1829:A:H1'	2.30	0.47
25:CA:1800:C:H3'	27:CC:145:MET:HE1	1.97	0.47
25:CA:1838:C:C4	25:CA:1899:A:C5	3.03	0.47
25:CA:1840:G:C4	25:CA:1841:U:C5	3.02	0.47
25:CA:1869:G:H2'	25:CA:1870:C:H5'	1.97	0.47
25:CA:1888:G:H5"	25:CA:1889:A:OP1	2.15	0.47
25:CA:2063:C:O2	25:CA:2450:A:N1	2.48	0.47
25:CA:2161:C:O2	25:CA:2162:G:C8	2.66	0.47
25:CA:2210:U:O3'	25:CA:2211:A:H4'	2.14	0.47
25:CA:2219:U:C2'	25:CA:2220:U:O5'	2.62	0.47
25:CA:2303:G:C4	25:CA:2304:G:C8	3.02	0.47
25:CA:2317:A:N6	25:CA:2318:G:C2	2.83	0.47
25:CA:2388:A:H5'	25:CA:2389:G:OP2	2.15	0.47
25:CA:2516:A:C2	25:CA:2569:G:N3	2.83	0.47
27:CC:96:LYS:HA	27:CC:96:LYS:CE	2.45	0.47
27:CC:156:SER:O	27:CC:194:VAL:CG1	2.62	0.47
28:CD:12:THR:HG21	40:CP:8:GLU:CG	2.45	0.47
30:CF:57:ALA:O	30:CF:60:SER:O	2.33	0.47
31:CG:102:ILE:HD12	31:CG:147:LEU:HD11	1.96	0.47
32:CH:135:HIS:CD2	32:CH:137:GLU:HG2	2.49	0.47
33:CI:27:LEU:HD11	33:CI:34:ILE:HA	1.96	0.47
33:CI:42:ASN:HB3	33:CI:46:ASP:OD1	2.14	0.47
33:CI:111:THR:O	33:CI:112:LYS:C	2.57	0.47
39:CO:64:TYR:HB3	39:CO:67:ASN:ND2	2.29	0.47
41:CQ:10:ARG:HD2	41:CQ:10:ARG:HA	1.63	0.47
41:CQ:26:ALA:O	41:CQ:28:SER:N	2.48	0.47
41:CQ:26:ALA:O	41:CQ:27:ARG:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CS:11:ARG:O	43:CS:12:SER:HB3	2.14	0.47
49:CY:9:LYS:HB3	49:CY:12:GLU:CG	2.45	0.47
49:CY:39:GLN:O	49:CY:40:SER:C	2.55	0.47
50:CZ:36:GLU:O	50:CZ:37:ARG:HD3	2.14	0.47
25:DA:7:G:C5	25:DA:8:C:C5	3.03	0.47
25:DA:227:A:N6	25:DA:410:G:H1'	2.30	0.47
25:DA:227:A:N3	25:DA:2407:A:H1'	2.29	0.47
25:DA:282:A:H2'	25:DA:283:G:O4'	2.15	0.47
25:DA:294:A:N7	25:DA:345:A:C6	2.82	0.47
25:DA:295:G:N1	25:DA:296:U:C5	2.83	0.47
25:DA:396:G:H1'	48:DX:28:PHE:HB3	1.97	0.47
25:DA:404:A:N1	25:DA:406:G:C2	2.82	0.47
25:DA:511:U:C2'	25:DA:512:G:H5'	2.45	0.47
25:DA:609:A:C8	25:DA:610:C:C6	3.03	0.47
25:DA:640:C:H2'	25:DA:641:U:O4'	2.14	0.47
25:DA:709:U:H2'	25:DA:710:U:O4'	2.15	0.47
25:DA:818:G:C2'	25:DA:819:A:H5"	2.44	0.47
25:DA:845:A:C2	25:DA:847:U:C6	3.03	0.47
25:DA:948:C:H1'	25:DA:984:A:O2'	2.15	0.47
25:DA:1010:A:H1'	25:DA:1153:C:C1'	2.45	0.47
25:DA:1069:A:C2	25:DA:1073:A:N7	2.83	0.47
25:DA:1087:G:N1	25:DA:1089:A:C2	2.83	0.47
25:DA:1165:A:C2	25:DA:1185:G:C2	3.03	0.47
25:DA:1214:A:H4'	25:DA:1239:G:H4'	1.97	0.47
25:DA:1287:A:H5'	38:DN:103:ARG:HD2	1.96	0.47
25:DA:1340:U:O2'	44:DT:61:LEU:HD13	2.15	0.47
25:DA:1441:G:C2'	25:DA:1442:U:O5'	2.63	0.47
25:DA:1490:A:O2'	27:DC:97:ASP:OD2	2.32	0.47
25:DA:1587:G:C5	25:DA:1588:G:C8	3.03	0.47
25:DA:1833:C:H2'	25:DA:1834:U:C6	2.50	0.47
25:DA:2180:U:C4	25:DA:2181:U:C4	3.03	0.47
25:DA:2292:U:H2'	25:DA:2293:G:O5'	2.15	0.47
25:DA:2293:G:C2	25:DA:2340:A:C2	3.03	0.47
25:DA:2350:C:H2'	25:DA:2351:G:O5'	2.15	0.47
25:DA:2362:C:O5'	25:DA:2362:C:H6	1.97	0.47
25:DA:2378:A:C2'	25:DA:2379:G:O5'	2.62	0.47
25:DA:2420:C:OP1	54:D3:33:THR:HB	2.14	0.47
25:DA:2556:C:C2'	25:DA:2557:G:O5'	2.63	0.47
25:DA:2850:A:C6	25:DA:2851:A:C5	3.02	0.47
56:DB:15:A:C8	56:DB:109:A:C6	3.03	0.47
56:DB:49:C:O3'	39:DO:68:LYS:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:1:ALA:CA	27:DC:198:GLU:OE2	2.62	0.47
27:DC:139:THR:C	27:DC:140:VAL:CG2	2.88	0.47
30:DF:101:ARG:O	30:DF:102:LEU:O	2.32	0.47
31:DG:8:VAL:HG21	31:DG:72:ASN:HB2	1.95	0.47
31:DG:119:GLY:C	31:DG:120:ILE:HD13	2.38	0.47
32:DH:96:THR:O	32:DH:97:ARG:C	2.57	0.47
33:DI:8:VAL:O	33:DI:56:VAL:O	2.32	0.47
33:DI:30:GLN:HG2	33:DI:32:VAL:HG23	1.95	0.47
33:DI:50:LYS:N	33:DI:50:LYS:CD	2.78	0.47
37:DM:30:SER:HB2	37:DM:31:PHE:CE1	2.50	0.47
37:DM:130:PHE:C	37:DM:130:PHE:HD2	2.23	0.47
38:DN:24:MET:O	38:DN:25:ALA:C	2.58	0.47
38:DN:43:GLU:C	38:DN:45:ARG:N	2.71	0.47
38:DN:49:GLU:O	38:DN:50:PRO:C	2.58	0.47
39:DO:49:VAL:HG11	39:DO:81:ARG:CB	2.44	0.47
39:DO:69:ASP:C	39:DO:71:ALA:N	2.73	0.47
39:DO:75:GLY:C	39:DO:77:ALA:N	2.72	0.47
39:DO:101:GLY:O	39:DO:102:ARG:C	2.58	0.47
41:DQ:13:HIS:O	41:DQ:14:LYS:C	2.57	0.47
41:DQ:26:ALA:HB1	41:DQ:30:VAL:CG2	2.44	0.47
42:DR:40:MET:C	42:DR:41:ILE:HG13	2.39	0.47
43:DS:2:GLU:HA	43:DS:108:SER:HB3	1.97	0.47
44:DT:8:LEU:O	44:DT:9:LYS:C	2.57	0.47
44:DT:38:ALA:O	44:DT:39:THR:HB	2.15	0.47
44:DT:44:LYS:HG3	44:DT:55:VAL:CG1	2.43	0.47
44:DT:51:PHE:O	44:DT:53:VAL:HG13	2.15	0.47
57:DW:15:LYS:O	57:DW:16:ARG:HB2	2.14	0.47
48:DX:29:LEU:HD23	48:DX:29:LEU:HA	1.77	0.47
48:DX:65:THR:O	48:DX:68:ALA:HB3	2.15	0.47
49:DY:8:GLU:C	49:DY:12:GLU:HB2	2.39	0.47
49:DY:26:PHE:CE2	49:DY:30:MET:CG	2.95	0.47
52:D1:42:VAL:HG12	52:D1:44:GLN:H	1.80	0.47
1:AA:47:C:H4'	1:AA:48:C:O5'	2.15	0.47
1:AA:203:G:N2	1:AA:215:C:C2	2.83	0.47
1:AA:833:G:C4	1:AA:834:U:C6	3.03	0.47
1:AA:985:C:H2'	1:AA:986:U:C6	2.50	0.47
1:AA:1079:G:C6	1:AA:1080:A:N6	2.83	0.47
1:AA:1106:G:C6	1:AA:1107:C:N4	2.83	0.47
1:AA:1225:A:O4'	19:AS:77:ARG:HD3	2.15	0.47
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.49	0.47
1:AA:1480:A:C4	1:AA:1481:U:C6	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:175:ALA:C	2:AB:177:ASN:N	2.73	0.47
7:AG:39:GLU:C	7:AG:41:ILE:N	2.71	0.47
8:AH:24:VAL:CG1	8:AH:62:LEU:HD21	2.44	0.47
8:AH:100:ILE:C	8:AH:100:ILE:HD12	2.40	0.47
9:AI:27:ILE:CG1	9:AI:62:LEU:HD21	2.45	0.47
10:AJ:44:THR:O	10:AJ:45:ARG:C	2.57	0.47
11:AK:87:GLY:H	11:AK:113:THR:CG2	2.27	0.47
13:AM:32:ILE:HD13	13:AM:58:GLU:HG3	1.97	0.47
15:AO:24:THR:O	15:AO:25:GLU:C	2.58	0.47
16:AP:39:PHE:CB	16:AP:74:LEU:HD11	2.45	0.47
18:AR:22:TYR:CE1	18:AR:23:LYS:HG3	2.49	0.47
24:AY:18:VAL:O	24:AY:21:PHE:HB3	2.14	0.47
1:BA:4:U:H5"	1:BA:5:U:OP1	2.14	0.47
1:BA:409:U:OP1	4:BD:23:GLY:HA3	2.14	0.47
1:BA:443:C:H2'	1:BA:444:G:O4'	2.15	0.47
1:BA:489:C:H2'	1:BA:490:C:H6	1.80	0.47
1:BA:562:U:C4'	1:BA:563:A:H5'	2.43	0.47
1:BA:629:A:H2'	1:BA:630:A:O4'	2.15	0.47
1:BA:631:C:C3'	1:BA:632:U:H5'	2.44	0.47
1:BA:712:A:C2'	1:BA:713:G:O5'	2.62	0.47
1:BA:784:A:H2'	1:BA:785:G:O4'	2.15	0.47
1:BA:841:C:C3'	1:BA:843:U:H5"	2.38	0.47
1:BA:1242:G:O2'	1:BA:1243:C:H5'	2.15	0.47
1:BA:1361:G:C6	1:BA:1362:A:C8	3.03	0.47
1:BA:1397:C:C3'	1:BA:1398:A:H5"	2.44	0.47
1:BA:1458:G:H2'	1:BA:1459:G:H8	1.79	0.47
5:BE:153:ALA:N	5:BE:156:ARG:HB3	2.30	0.47
6:BF:6:ILE:CG2	6:BF:7:VAL:N	2.77	0.47
7:BG:109:LYS:O	7:BG:110:ARG:C	2.57	0.47
12:BL:17:LYS:HD2	12:BL:17:LYS:O	2.15	0.47
12:BL:80:LEU:HD12	12:BL:81:ILE:H	1.80	0.47
13:BM:15:VAL:HG23	13:BM:16:ILE:HG13	1.97	0.47
13:BM:76:ILE:HG23	13:BM:90:HIS:CD2	2.49	0.47
17:BQ:27:PHE:C	17:BQ:28:VAL:HG12	2.40	0.47
21:BU:8:ASN:C	21:BU:11:PHE:CE2	2.93	0.47
25:CA:134:G:H2'	25:CA:135:U:O5'	2.15	0.47
25:CA:396:G:H1'	48:CX:28:PHE:HB3	1.97	0.47
25:CA:1121:C:C6	25:CA:1121:C:C3'	2.98	0.47
25:CA:2383:G:C2'	25:CA:2384:U:H5'	2.45	0.47
25:CA:2593:U:H2'	25:CA:2594:C:C6	2.50	0.47
25:CA:2660:A:C2	25:CA:2661:G:H1'	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2785:C:O2'	28:CD:67:HIS:CD2	2.62	0.47
25:CA:2881:U:H2'	25:CA:2882:A:O5'	2.15	0.47
26:CB:36:C:H5"	26:CB:37:C:OP2	2.15	0.47
26:CB:45:A:H2'	26:CB:46:A:O4'	2.15	0.47
27:CC:51:ARG:O	27:CC:52:HIS:HB2	2.14	0.47
29:CE:3:LEU:CD1	29:CE:14:VAL:HG21	2.44	0.47
29:CE:5:LEU:N	29:CE:5:LEU:CD1	2.77	0.47
29:CE:119:ILE:N	29:CE:119:ILE:HD13	2.30	0.47
29:CE:171:ASP:O	29:CE:172:ALA:C	2.58	0.47
30:CF:30:VAL:CG2	30:CF:95:MET:SD	3.03	0.47
31:CG:71:LEU:N	31:CG:71:LEU:CD1	2.78	0.47
32:CH:72:ILE:HD12	32:CH:140:ALA:HB3	1.97	0.47
35:CK:69:VAL:O	35:CK:76:VAL:HA	2.14	0.47
36:CL:106:GLU:CB	36:CL:107:PHE:CE2	2.98	0.47
37:CM:36:VAL:HG23	37:CM:129:THR:CG2	2.42	0.47
38:CN:2:ARG:C	38:CN:2:ARG:HD2	2.39	0.47
38:CN:77:ALA:O	38:CN:79:LEU:O	2.33	0.47
40:CP:21:PRO:HD3	40:CP:49:ILE:CD1	2.44	0.47
40:CP:30:TRP:CE3	40:CP:39:LEU:HD12	2.50	0.47
41:CQ:63:ARG:O	41:CQ:64:ILE:C	2.58	0.47
46:CV:18:ARG:HH11	46:CV:18:ARG:HG3	1.79	0.47
48:CX:76:LYS:HE3	48:CX:77:TYR:H	1.79	0.47
54:C3:53:ASP:O	54:C3:54:LEU:C	2.57	0.47
25:DA:18:U:O3'	41:DQ:22:GLY:HA2	2.14	0.47
25:DA:64:A:C6	25:DA:65:U:O4	2.68	0.47
25:DA:511:U:H2'	25:DA:512:G:H5'	1.96	0.47
25:DA:545:U:O2	25:DA:545:U:P	2.73	0.47
25:DA:624:C:O2'	25:DA:657:U:H5"	2.15	0.47
25:DA:705:A:C2	25:DA:706:A:C4	3.03	0.47
25:DA:877:A:C2	25:DA:900:A:N7	2.82	0.47
25:DA:1066:U:H1'	25:DA:1074:G:H22	1.78	0.47
25:DA:1356:G:C2	25:DA:1376:C:O2	2.67	0.47
25:DA:1356:G:C2	25:DA:1357:C:C2	3.02	0.47
25:DA:1517:G:O2'	25:DA:1518:C:H5'	2.15	0.47
25:DA:1565:C:H5"	27:DC:17:LYS:HZ2	1.80	0.47
25:DA:1943:U:C4'	25:DA:1944:U:OP1	2.56	0.47
25:DA:1990:C:H5"	25:DA:1991:U:P	2.54	0.47
25:DA:2070:A:H2'	25:DA:2070:A:N3	2.30	0.47
25:DA:2278:A:C2'	25:DA:2279:G:O5'	2.62	0.47
25:DA:2424:C:H5'	25:DA:2424:C:H6	1.80	0.47
25:DA:2531:A:C6	25:DA:2532:G:C5	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2661:G:H2'	25:DA:2662:A:O5'	2.15	0.47
25:DA:2663:G:O2'	25:DA:2664:G:H5'	2.14	0.47
25:DA:2839:G:C4	25:DA:2840:C:C5	3.02	0.47
56:DB:14:U:H4'	56:DB:15:A:OP2	2.14	0.47
27:DC:161:VAL:HG11	27:DC:173:LEU:HG	1.96	0.47
29:DE:23:PHE:CD1	29:DE:111:GLU:HG3	2.49	0.47
31:DG:89:VAL:HG21	31:DG:162:ARG:HE	1.79	0.47
31:DG:126:THR:HG22	31:DG:127:GLN:N	2.29	0.47
33:DI:17:ALA:HB1	33:DI:41:PHE:CD2	2.50	0.47
33:DI:101:SER:HB2	33:DI:140:GLU:O	2.15	0.47
37:DM:34:LYS:HE3	37:DM:131:VAL:HG11	1.96	0.47
38:DN:20:MET:CG	38:DN:21:PHE:N	2.78	0.47
38:DN:117:ASP:O	38:DN:118:ARG:HB2	2.14	0.47
39:DO:40:ILE:CG2	39:DO:44:GLY:HA2	2.45	0.47
43:DS:19:LEU:HG	51:D0:21:LEU:HG	1.96	0.47
43:DS:36:LEU:O	43:DS:37:THR:C	2.57	0.47
44:DT:29:THR:HG23	44:DT:86:THR:N	2.29	0.47
46:DV:69:GLU:O	46:DV:70:ILE:HG12	2.14	0.47
48:DX:10:ARG:HB3	48:DX:11:PRO:CD	2.45	0.47
48:DX:39:VAL:O	48:DX:40:GLU:C	2.57	0.47
48:DX:66:VAL:O	48:DX:69:GLU:HB2	2.15	0.47
49:DY:28:LEU:HD23	49:DY:37:LEU:HD11	1.97	0.47
1:AA:214:C:H2'	1:AA:215:C:C6	2.48	0.47
1:AA:478:A:H2'	1:AA:479:U:O5'	2.14	0.47
1:AA:853:C:C2	1:AA:854:U:C6	3.03	0.47
1:AA:1149:C:O5'	1:AA:1149:C:H6	1.98	0.47
1:AA:1164:G:C5'	10:BJ:89:ARG:HD2	2.45	0.47
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.80	0.47
2:AB:9:LEU:HD11	2:AB:11:ALA:O	2.14	0.47
2:AB:30:ILE:HD13	2:AB:38:HIS:CG	2.50	0.47
2:AB:63:LYS:O	2:AB:65:LYS:CE	2.61	0.47
2:AB:112:ARG:O	2:AB:116:LEU:HD23	2.15	0.47
3:AC:28:PHE:C	3:AC:28:PHE:HD2	2.23	0.47
3:AC:41:TYR:CE1	3:AC:42:LEU:HD12	2.50	0.47
3:AC:46:LEU:HD21	3:AC:86:LEU:HD11	1.97	0.47
11:AK:106:ILE:HD13	11:AK:106:ILE:C	2.40	0.47
13:AM:88:LEU:O	13:AM:92:ARG:HG3	2.13	0.47
13:AM:94:LEU:CB	13:AM:95:PRO:HD2	2.45	0.47
14:AN:73:PHE:CZ	14:AN:78:GLY:HA2	2.49	0.47
24:AY:133:ARG:HH22	25:CA:1941:C:H2'	1.80	0.47
1:BA:66:A:O4'	1:BA:173:U:C4	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:188:C:C2	1:BA:189:A:C8	3.02	0.47
1:BA:317:U:N3	1:BA:318:G:N7	2.63	0.47
1:BA:634:C:C2'	1:BA:635:A:O5'	2.63	0.47
1:BA:664:G:H22	1:BA:741:G:H1	1.63	0.47
1:BA:1031:C:H4'	1:BA:1032:G:C4	2.50	0.47
1:BA:1072:G:C4	1:BA:1073:U:C6	3.02	0.47
1:BA:1085:U:H5'	1:BA:1094:G:C2	2.50	0.47
1:BA:1269:A:H2	1:BA:1312:G:N3	2.13	0.47
1:BA:1374:A:C2'	1:BA:1375:A:H5'	2.45	0.47
2:BB:117:GLU:N	2:BB:140:LEU:HD21	2.29	0.47
3:BC:41:TYR:CE1	3:BC:89:VAL:HG21	2.50	0.47
3:BC:153:SER:HB3	3:BC:164:THR:HB	1.96	0.47
5:BE:10:LEU:HD23	5:BE:11:GLN:H	1.80	0.47
5:BE:93:VAL:CG1	5:BE:110:MET:CE	2.93	0.47
5:BE:155:LYS:N	5:BE:155:LYS:CE	2.77	0.47
6:BF:6:ILE:C	6:BF:7:VAL:HG12	2.40	0.47
6:BF:10:VAL:HG11	6:BF:18:VAL:HG22	1.97	0.47
10:BJ:19:ASP:HB3	10:BJ:72:ARG:HH21	1.80	0.47
14:BN:19:TYR:N	14:BN:19:TYR:CD1	2.83	0.47
14:BN:42:TRP:CD1	14:BN:42:TRP:O	2.68	0.47
15:BO:16:ARG:O	15:BO:17:ASP:CB	2.63	0.47
16:BP:39:PHE:CZ	16:BP:41:PRO:HB3	2.50	0.47
25:CA:368:A:H8	25:CA:368:A:O5'	1.97	0.47
25:CA:551:G:H2'	25:CA:552:U:O4'	2.15	0.47
25:CA:601:C:O2	25:CA:605:G:H4'	2.14	0.47
25:CA:1079:C:C2	25:CA:1080:A:C8	3.03	0.47
25:CA:1139:G:O3'	34:CJ:26:GLY:CA	2.62	0.47
25:CA:1292:G:O2'	25:CA:1293:C:H5'	2.15	0.47
25:CA:1724:G:H1	25:CA:1737:G:H1'	1.80	0.47
25:CA:1907:G:C5	25:CA:1908:C:C5	3.03	0.47
25:CA:1919:A:H5"	25:CA:1920:C:OP2	2.15	0.47
25:CA:2591:C:H2'	25:CA:2592:G:C8	2.49	0.47
25:CA:2732:G:O2'	25:CA:2733:A:H5'	2.14	0.47
27:CC:58:LYS:O	27:CC:59:GLN:HG3	2.15	0.47
30:CF:68:LYS:O	30:CF:69:ALA:C	2.58	0.47
31:CG:16:VAL:HG22	31:CG:25:ILE:HD13	1.97	0.47
31:CG:164:ALA:C	31:CG:166:GLU:N	2.69	0.47
33:CI:12:VAL:O	33:CI:13:ALA:HB2	2.15	0.47
33:CI:18:ASN:ND2	33:CI:27:LEU:CD1	2.78	0.47
33:CI:24:GLY:O	33:CI:34:ILE:HG23	2.15	0.47
33:CI:33:ASN:CB	33:CI:36:GLU:HG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:95:ASP:CG	33:CI:97:VAL:H	2.23	0.47
33:CI:100:ILE:HG12	33:CI:137:LEU:HD13	1.97	0.47
35:CK:104:THR:HB	35:CK:106:GLU:OE1	2.15	0.47
37:CM:42:THR:HG22	37:CM:93:VAL:HG12	1.97	0.47
40:CP:103:THR:O	40:CP:105:LYS:N	2.48	0.47
25:DA:236:C:O2'	25:DA:237:C:H5'	2.15	0.47
25:DA:249:C:O2'	36:DL:63:LYS:HE2	2.15	0.47
25:DA:447:A:N1	25:DA:454:A:C8	2.83	0.47
25:DA:480:A:OP2	45:DU:43:LYS:NZ	2.47	0.47
25:DA:782:A:C2	27:DC:224:MET:SD	3.08	0.47
25:DA:858:G:C4	25:DA:2268:A:C2	3.02	0.47
25:DA:979:A:C2'	25:DA:980:A:OP1	2.62	0.47
25:DA:1053:C:C2	25:DA:1107:G:N2	2.82	0.47
25:DA:1387:A:C4'	25:DA:1469:A:H1'	2.44	0.47
25:DA:1395:A:O2'	25:DA:1397:U:C6	2.68	0.47
25:DA:1454:C:N4	38:DN:73:ASN:HD21	2.13	0.47
25:DA:1482:G:H1'	25:DA:1509:A:H61	1.80	0.47
25:DA:1575:C:N3	25:DA:1576:U:C5	2.83	0.47
25:DA:2210:U:C2	25:DA:2212:A:N7	2.83	0.47
25:DA:2232:C:C4	25:DA:2233:U:C5	3.03	0.47
25:DA:2677:G:C6	25:DA:2731:G:C6	3.03	0.47
25:DA:2704:C:H3'	25:DA:2705:A:H8	1.80	0.47
25:DA:2755:C:HO2'	25:DA:2756:U:H6	1.58	0.47
27:DC:118:GLY:O	27:DC:120:ASP:N	2.48	0.47
29:DE:109:LEU:HD12	29:DE:109:LEU:HA	1.74	0.47
30:DF:21:TYR:HD1	30:DF:26:GLN:HG2	1.80	0.47
30:DF:142:TYR:O	30:DF:142:TYR:CG	2.68	0.47
32:DH:2:GLN:O	32:DH:19:VAL:HG23	2.15	0.47
32:DH:2:GLN:HA	32:DH:19:VAL:O	2.15	0.47
33:DI:7:TYR:HB2	33:DI:58:ILE:H	1.80	0.47
33:DI:27:LEU:O	33:DI:30:GLN:OE1	2.32	0.47
35:DK:22:ILE:O	35:DK:23:LYS:HB2	2.15	0.47
41:DQ:7:VAL:HG12	41:DQ:8:ILE:HG22	1.96	0.47
42:DR:81:LYS:O	42:DR:82:HIS:HB3	2.14	0.47
46:DV:20:LEU:CD2	46:DV:26:PHE:HA	2.44	0.47
49:DY:16:THR:O	49:DY:17:GLU:C	2.57	0.47
54:D3:30:HIS:ND1	54:D3:31:ILE:HG13	2.29	0.47
1:AA:143:A:N3	1:AA:143:A:C2'	2.75	0.47
1:AA:323:U:O4	1:AA:324:G:C6	2.68	0.47
1:AA:458:U:H2'	1:AA:458:U:O2	2.14	0.47
1:AA:540:G:C4	1:AA:541:G:C8	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:854:U:C6	1:AA:871:U:O4	2.68	0.47
1:AA:921:U:C5	1:AA:922:G:N7	2.83	0.47
1:AA:1004:A:C2	1:AA:1026:G:C4	3.03	0.47
1:AA:1126:U:H4'	1:AA:1127:G:OP2	2.15	0.47
1:AA:1164:G:H5"	10:BJ:89:ARG:HD2	1.97	0.47
1:AA:1175:G:O2'	1:AA:1176:A:H5'	2.14	0.47
3:AC:39:ARG:HG2	3:AC:54:ILE:CG1	2.45	0.47
3:AC:54:ILE:O	3:AC:54:ILE:HG13	2.15	0.47
3:AC:134:LYS:O	3:AC:135:ARG:C	2.57	0.47
3:AC:147:GLY:CA	3:AC:171:ARG:H	2.27	0.47
3:AC:183:TYR:HA	3:AC:199:VAL:O	2.14	0.47
4:AD:164:ARG:O	4:AD:166:LYS:N	2.47	0.47
5:AE:88:HIS:CE1	5:AE:137:ARG:HD3	2.50	0.47
7:AG:30:MET:CG	7:AG:31:VAL:N	2.78	0.47
8:AH:48:PHE:HB3	8:AH:60:LEU:HD23	1.97	0.47
9:AI:48:ARG:HD3	9:AI:49:GLN:N	2.30	0.47
9:AI:49:GLN:HE22	9:AI:79:ARG:NH1	2.12	0.47
10:AJ:56:HIS:C	10:AJ:57:VAL:O	2.54	0.47
10:AJ:56:HIS:C	10:AJ:57:VAL:HG12	2.40	0.47
11:AK:124:LYS:HA	21:AU:34:ARG:HG3	1.97	0.47
13:AM:75:SER:O	13:AM:79:LEU:HD12	2.15	0.47
14:AN:31:SER:O	14:AN:32:ASP:CB	2.62	0.47
17:AQ:47:ASP:O	17:AQ:48:GLU:O	2.33	0.47
21:AU:9:GLU:CD	21:AU:10:PRO:HG3	2.40	0.47
22:AV:8:U:C2	22:AV:15:G:O6	2.67	0.47
22:AV:21:A:N6	22:AV:46:G:N9	2.62	0.47
22:AV:63:G:H2'	22:AV:63:G:N3	2.30	0.47
1:BA:59:A:C5	1:BA:331:G:N2	2.83	0.47
1:BA:138:G:C4	1:BA:226:G:C2	3.03	0.47
1:BA:189:A:N6	1:BA:190:A:N1	2.63	0.47
1:BA:479:U:C2'	1:BA:480:U:H5'	2.45	0.47
1:BA:861:G:C4	1:BA:862:C:C6	3.03	0.47
1:BA:1303:C:N4	1:BA:1304:G:C6	2.82	0.47
2:BB:216:VAL:HA	2:BB:219:THR:CG2	2.45	0.47
3:BC:154:GLY:C	3:BC:156:LEU:HD12	2.40	0.47
5:BE:11:GLN:OE1	5:BE:11:GLN:CA	2.62	0.47
5:BE:55:VAL:N	5:BE:56:PRO:HD2	2.30	0.47
9:BI:125:GLN:HE21	9:BI:125:GLN:C	2.23	0.47
10:BJ:98:VAL:O	10:BJ:99:GLN:HG2	2.15	0.47
12:BL:51:VAL:HG23	12:BL:52:CYS:N	2.28	0.47
13:BM:32:ILE:HD13	13:BM:58:GLU:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:35:ALA:HB1	14:BN:41:ARG:HB2	1.96	0.47
15:BO:58:MET:O	15:BO:60:SER:N	2.48	0.47
16:BP:4:ILE:HD12	16:BP:66:THR:O	2.15	0.47
16:BP:39:PHE:CD2	16:BP:74:LEU:HD11	2.49	0.47
18:BR:33:THR:HG23	18:BR:36:GLY:H	1.79	0.47
19:BS:39:ILE:O	19:BS:66:VAL:O	2.32	0.47
19:BS:50:VAL:CG2	19:BS:70:LEU:HD13	2.44	0.47
20:BT:8:LYS:HG2	20:BT:12:GLN:OE1	2.13	0.47
25:CA:60:G:O2'	25:CA:61:C:P	2.73	0.47
25:CA:128:C:H2'	25:CA:129:C:H6	1.80	0.47
25:CA:416:U:H6	25:CA:416:U:H3'	1.80	0.47
25:CA:682:G:H5'	53:C2:26:ASN:CG	2.40	0.47
25:CA:777:G:O2'	25:CA:778:G:H5'	2.15	0.47
25:CA:1023:U:H2'	25:CA:1024:G:H5'	1.96	0.47
25:CA:1088:A:N3	25:CA:1088:A:H5"	2.30	0.47
25:CA:1270:C:O5'	25:CA:1270:C:H6	1.98	0.47
25:CA:1270:C:H5"	25:CA:1271:G:O5'	2.15	0.47
25:CA:1482:G:C2	25:CA:1483:G:C5	3.02	0.47
25:CA:1616:A:H4'	25:CA:1617:C:OP2	2.15	0.47
25:CA:2102:G:C5	25:CA:2103:C:C4	3.03	0.47
25:CA:2255:G:H2'	25:CA:2256:G:C5'	2.45	0.47
25:CA:2348:U:H2'	25:CA:2349:G:O4'	2.14	0.47
25:CA:2668:G:C2'	25:CA:2669:G:O5'	2.62	0.47
26:CB:34:A:O2'	26:CB:35:C:C5'	2.63	0.47
30:CF:148:VAL:O	30:CF:148:VAL:HG23	2.15	0.47
32:CH:135:HIS:HB3	32:CH:138:VAL:HB	1.96	0.47
36:CL:130:GLY:O	36:CL:131:ALA:C	2.57	0.47
38:CN:36:THR:HG23	38:CN:37:THR:N	2.29	0.47
38:CN:49:GLU:HB2	38:CN:50:PRO:HD3	1.96	0.47
40:CP:102:ARG:HD3	40:CP:106:ALA:O	2.15	0.47
42:CR:1:MET:HE3	42:CR:1:MET:HB3	1.77	0.47
44:CT:8:LEU:HD22	49:CY:22:LEU:HA	1.95	0.47
49:CY:36:GLN:O	49:CY:37:LEU:CB	2.63	0.47
54:C3:49:VAL:HG12	54:C3:53:ASP:HB2	1.96	0.47
55:C4:19:ARG:O	55:C4:21:GLY:N	2.48	0.47
25:DA:65:U:O2'	25:DA:66:C:H5'	2.15	0.47
25:DA:81:G:O4'	25:DA:294:A:C2	2.68	0.47
25:DA:161:A:H2	25:DA:2218:G:O4'	1.97	0.47
25:DA:540:C:H2'	25:DA:541:A:H5'	1.95	0.47
25:DA:976:G:H5'	25:DA:1156:A:N6	2.30	0.47
25:DA:1024:G:OP2	25:DA:1025:G:H3'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1050:A:H2'	25:DA:1051:G:O4'	2.14	0.47
25:DA:1060:U:H4'	25:DA:1061:U:H3'	1.97	0.47
25:DA:1292:G:C2'	25:DA:1293:C:H5'	2.45	0.47
25:DA:1389:G:C2	25:DA:1390:U:C2	3.03	0.47
25:DA:1476:U:C5	25:DA:1514:G:N2	2.83	0.47
25:DA:1513:U:C2	25:DA:1514:G:C8	3.03	0.47
25:DA:1633:G:C6	25:DA:1635:A:C4	3.03	0.47
25:DA:1864:U:C2'	25:DA:1865:U:H5'	2.44	0.47
25:DA:1915:U:H2'	25:DA:1916:A:O5'	2.14	0.47
25:DA:1972:G:OP2	27:DC:237:ARG:NH1	2.47	0.47
25:DA:2127:G:C2'	25:DA:2128:G:C8	2.97	0.47
25:DA:2183:A:H2'	25:DA:2184:A:C8	2.50	0.47
25:DA:2199:A:H2'	25:DA:2200:C:H6	1.80	0.47
25:DA:2345:G:C4	25:DA:2347:C:C5	3.03	0.47
25:DA:2714:G:H2'	25:DA:2715:C:H5'	1.97	0.47
25:DA:2836:U:H2'	25:DA:2837:A:C8	2.50	0.47
25:DA:2839:G:H2'	25:DA:2840:C:O5'	2.15	0.47
56:DB:21:G:H2'	56:DB:22:U:O4'	2.15	0.47
56:DB:45:A:N1	56:DB:46:A:C4	2.83	0.47
27:DC:118:GLY:C	27:DC:120:ASP:N	2.71	0.47
28:DD:24:VAL:HA	28:DD:189:VAL:O	2.15	0.47
30:DF:63:LYS:HE2	30:DF:63:LYS:H	1.80	0.47
33:DI:30:GLN:HG2	33:DI:31:GLY:N	2.30	0.47
35:DK:68:GLY:C	35:DK:69:VAL:HG13	2.40	0.47
36:DL:113:ALA:O	36:DL:114:GLY:O	2.33	0.47
39:DO:49:VAL:HG11	39:DO:81:ARG:HB3	1.97	0.47
39:DO:93:ASP:OD2	39:DO:95:SER:N	2.48	0.47
46:DV:80:HIS:HE1	46:DV:82:TYR:CE2	2.33	0.47
57:DW:64:LYS:HE3	57:DW:66:GLU:OE1	2.15	0.47
49:DY:13:GLU:C	49:DY:15:ASN:H	2.22	0.47
49:DY:36:GLN:O	49:DY:37:LEU:C	2.58	0.47
50:DZ:52:PHE:CE2	50:DZ:53:MET:HG2	2.50	0.47
1:AA:22:G:C6	1:AA:23:C:C4	3.03	0.46
1:AA:75:G:H5'	1:AA:76:G:OP2	2.15	0.46
1:AA:92:U:H2'	1:AA:93:U:C6	2.50	0.46
1:AA:374:A:C5	1:AA:375:U:C5	3.04	0.46
1:AA:455:G:C2	1:AA:478:A:N1	2.83	0.46
1:AA:499:A:H61	1:AA:547:A:C5'	2.28	0.46
1:AA:659:U:O2'	1:AA:660:C:H5'	2.15	0.46
1:AA:790:A:C6	1:AA:791:G:C6	3.03	0.46
1:AA:833:G:H2'	1:AA:834:U:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:932:C:N4	7:AG:2:ARG:NH2	2.63	0.46
1:AA:1000:A:C2	1:AA:1041:G:C2	3.03	0.46
1:AA:1162:C:C2	1:AA:1175:G:N2	2.83	0.46
1:AA:1239:A:N3	1:AA:1241:G:N1	2.63	0.46
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.97	0.46
1:AA:1538:C:O2'	1:AA:1539:C:H5'	2.13	0.46
2:AB:69:VAL:HG12	2:AB:69:VAL:O	2.15	0.46
4:AD:197:HIS:O	4:AD:201:GLU:HG3	2.15	0.46
5:AE:19:ARG:HA	5:AE:31:SER:O	2.15	0.46
5:AE:66:ALA:O	5:AE:67:ARG:C	2.58	0.46
8:AH:82:LEU:HD22	8:AH:83:ARG:N	2.31	0.46
8:AH:100:ILE:HD11	8:AH:128:VAL:HB	1.96	0.46
9:AI:98:ARG:HD3	9:AI:103:VAL:HG21	1.97	0.46
10:AJ:32:THR:HG23	10:AJ:83:THR:HA	1.97	0.46
11:AK:94:SER:O	11:AK:97:ARG:HB2	2.15	0.46
12:AL:37:TYR:O	12:AL:38:THR:CG2	2.63	0.46
12:AL:87:LYS:HE3	12:AL:87:LYS:HB2	1.78	0.46
13:AM:78:ARG:O	13:AM:82:LEU:HG	2.15	0.46
14:AN:22:LYS:HA	14:AN:25:GLU:OE2	2.15	0.46
14:AN:93:ILE:HA	14:AN:94:PRO:HD3	1.70	0.46
15:AO:66:LEU:HD13	15:AO:87:ARG:HH22	1.75	0.46
17:AQ:30:HIS:ND1	17:AQ:31:PRO:HD2	2.30	0.46
17:AQ:48:GLU:O	17:AQ:49:ASN:C	2.58	0.46
20:AT:67:HIS:HB3	20:AT:68:LYS:HG3	1.96	0.46
21:AU:32:ARG:HH11	21:AU:32:ARG:HG2	1.78	0.46
23:AX:13:A:O2'	23:AX:14:A:C8	2.68	0.46
24:AY:157:SER:C	24:AY:159:ASP:N	2.69	0.46
1:BA:49:U:C2	1:BA:362:G:H1'	2.50	0.46
1:BA:72:A:N6	1:BA:73:C:N4	2.63	0.46
1:BA:245:U:O2	1:BA:245:U:C2'	2.53	0.46
1:BA:472:U:H2'	1:BA:473:U:C6	2.50	0.46
1:BA:580:C:C2'	1:BA:581:G:O5'	2.63	0.46
1:BA:895:G:C6	1:BA:896:C:C4	3.03	0.46
1:BA:981:U:H2'	1:BA:982:U:H5	1.79	0.46
1:BA:1309:G:C4	1:BA:1310:G:C8	3.03	0.46
3:BC:101:ASN:O	3:BC:102:ILE:HG13	2.15	0.46
3:BC:149:LYS:HB3	3:BC:168:ARG:HA	1.98	0.46
4:BD:30:LYS:HD3	4:BD:30:LYS:N	2.30	0.46
4:BD:134:TYR:C	4:BD:134:TYR:CD2	2.93	0.46
7:BG:65:LEU:CD2	7:BG:69:ARG:CZ	2.94	0.46
7:BG:148:LYS:CD	11:BK:60:PHE:CZ	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:48:ARG:HG2	10:BJ:48:ARG:NH1	2.30	0.46
10:BJ:58:ASN:O	10:BJ:59:LYS:C	2.58	0.46
11:BK:84:MET:HE2	11:BK:112:VAL:HG11	1.97	0.46
12:BL:23:LEU:HG	12:BL:24:GLU:H	1.79	0.46
13:BM:18:LEU:C	13:BM:20:SER:N	2.73	0.46
14:BN:20:PHE:HA	14:BN:24:ALA:HB2	1.97	0.46
18:BR:26:ALA:O	18:BR:27:THR:C	2.58	0.46
25:CA:31:C:H2'	25:CA:32:C:C5'	2.45	0.46
25:CA:84:A:H62	25:CA:101:A:H2	1.63	0.46
25:CA:142:A:C8	25:CA:142:A:OP2	2.67	0.46
25:CA:158:U:C2'	25:CA:159:G:H5'	2.46	0.46
25:CA:371:A:N6	25:CA:402:A:OP2	2.48	0.46
25:CA:449:A:C2'	25:CA:450:G:H5'	2.45	0.46
25:CA:490:C:H4'	25:CA:491:G:OP2	2.15	0.46
25:CA:547:A:H8	25:CA:548:G:N3	2.13	0.46
25:CA:586:A:C2	25:CA:1254:A:C2	3.04	0.46
25:CA:1140:C:H5'	34:CJ:26:GLY:HA3	1.97	0.46
25:CA:1445:G:C2	25:CA:1446:C:C2	3.03	0.46
25:CA:1607:C:H4'	25:CA:1608:A:C8	2.50	0.46
25:CA:2162:G:O2'	25:CA:2163:A:N7	2.47	0.46
25:CA:2223:G:C3'	25:CA:2224:G:H5'	2.45	0.46
25:CA:2782:G:H2'	25:CA:2783:U:H5'	1.97	0.46
31:CG:117:PRO:HD2	31:CG:120:ILE:HB	1.97	0.46
33:CI:102:ARG:HA	33:CI:141:ASP:OD2	2.14	0.46
36:CL:143:GLU:O	36:CL:143:GLU:HG3	2.15	0.46
37:CM:105:MET:HE3	37:CM:117:PHE:CE1	2.50	0.46
48:CX:26:ARG:HG3	48:CX:27:ARG:N	2.30	0.46
51:C0:10:SER:O	51:C0:11:LYS:C	2.56	0.46
25:DA:371:A:N6	25:DA:401:A:H3'	2.31	0.46
25:DA:404:A:C2	25:DA:406:G:C2	3.04	0.46
25:DA:417:C:C2	25:DA:418:C:C6	3.03	0.46
25:DA:709:U:O2'	25:DA:710:U:H5'	2.15	0.46
25:DA:980:A:N7	25:DA:1136:G:H5"	2.31	0.46
25:DA:1071:G:O2'	25:DA:1072:C:H5"	2.15	0.46
25:DA:1131:G:C4	34:DJ:77:HIS:CD2	3.02	0.46
25:DA:1342:A:C2	25:DA:1345:C:C5	3.04	0.46
25:DA:1455:G:C6	25:DA:1456:G:C8	3.03	0.46
25:DA:1474:U:C5	25:DA:1475:G:C2	3.03	0.46
25:DA:1514:G:H5"	25:DA:1515:A:OP1	2.15	0.46
25:DA:1556:C:C2'	25:DA:1557:C:C5'	2.94	0.46
25:DA:1565:C:C5	25:DA:1567:G:C6	3.02	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1688:U:H1'	25:DA:1701:A:C6	2.49	0.46
25:DA:2004:G:C6	25:DA:2005:A:C4	3.03	0.46
25:DA:2370:G:H4'	52:D1:43:ARG:NH1	2.31	0.46
25:DA:2871:U:O2	25:DA:2871:U:H2'	2.13	0.46
31:DG:108:PHE:CE2	31:DG:151:ARG:NH2	2.83	0.46
32:DH:69:ALA:HB2	32:DH:138:VAL:HG11	1.97	0.46
32:DH:142:VAL:HG12	32:DH:143:ILE:H	1.80	0.46
37:DM:32:GLY:C	37:DM:117:PHE:HE2	2.23	0.46
42:DR:19:THR:HA	42:DR:96:VAL:O	2.14	0.46
45:DU:44:HIS:HD2	45:DU:57:ILE:HG12	1.79	0.46
48:DX:11:PRO:HB3	48:DX:29:LEU:CD2	2.46	0.46
48:DX:70:LEU:HB3	48:DX:75:GLU:HG3	1.97	0.46
53:D2:31:LEU:O	53:D2:34:ARG:N	2.48	0.46
1:AA:191:G:C2'	1:AA:192:A:H5'	2.45	0.46
1:AA:198:G:C6	1:AA:220:G:C4	3.03	0.46
1:AA:374:A:C4	1:AA:375:U:C5	3.03	0.46
1:AA:452:A:N7	1:AA:453:G:C8	2.83	0.46
1:AA:501:C:O2'	1:AA:502:A:H5'	2.15	0.46
1:AA:511:C:C2	1:AA:512:U:C6	3.04	0.46
1:AA:643:C:H6	1:AA:643:C:O5'	1.98	0.46
1:AA:841:C:C6	1:AA:843:U:OP2	2.69	0.46
1:AA:1213:A:C4	1:AA:1215:G:C8	3.02	0.46
1:AA:1356:G:N2	1:AA:1357:A:C4	2.83	0.46
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.15	0.46
1:AA:1539:C:H5"	21:AU:17:ARG:HE	1.79	0.46
3:AC:6:PRO:HA	3:AC:174:LEU:HD11	1.97	0.46
4:AD:34:GLU:CD	4:AD:34:GLU:C	2.84	0.46
5:AE:40:ASP:OD1	5:AE:42:ASN:N	2.49	0.46
8:AH:23:ALA:HA	8:AH:60:LEU:O	2.15	0.46
8:AH:40:LYS:N	8:AH:45:ILE:HG12	2.29	0.46
8:AH:46:GLU:HA	8:AH:63:LYS:HG2	1.98	0.46
8:AH:105:THR:HG21	8:AH:120:LEU:CD1	2.45	0.46
10:AJ:59:LYS:N	10:AJ:59:LYS:NZ	2.62	0.46
11:AK:124:LYS:HE3	21:AU:34:ARG:NH2	2.31	0.46
14:AN:15:LEU:C	14:AN:17:ASP:N	2.71	0.46
14:AN:44:ALA:HA	14:AN:47:LYS:HG3	1.97	0.46
16:AP:79:ASN:CB	16:AP:82:ALA:O	2.63	0.46
18:AR:72:ARG:HH11	18:AR:72:ARG:HG3	1.80	0.46
19:AS:43:MET:CE	19:AS:48:ILE:HG12	2.45	0.46
21:AU:32:ARG:HH11	21:AU:32:ARG:CG	2.28	0.46
1:BA:111:G:C6	1:BA:330:C:N4	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:152:A:N1	1:BA:170:U:O2	2.48	0.46
1:BA:176:C:C2'	1:BA:177:G:O5'	2.63	0.46
1:BA:248:C:C4	1:BA:249:U:C4	3.03	0.46
1:BA:780:A:C2	1:BA:803:G:C6	3.03	0.46
1:BA:1015:G:H2'	1:BA:1016:A:C8	2.50	0.46
1:BA:1267:C:H2'	1:BA:1268:G:C5'	2.46	0.46
1:BA:1275:A:C6	1:BA:1276:G:C5	3.03	0.46
2:BB:18:GLN:O	2:BB:37:VAL:HG22	2.15	0.46
2:BB:53:LEU:CD2	2:BB:212:TYR:OH	2.63	0.46
2:BB:67:LEU:HD21	2:BB:91:VAL:CG2	2.45	0.46
2:BB:93:HIS:CD2	2:BB:145:ASN:HB2	2.50	0.46
3:BC:64:ARG:O	3:BC:65:VAL:CB	2.63	0.46
4:BD:40:HIS:O	4:BD:42:ALA:N	2.48	0.46
7:BG:30:MET:SD	7:BG:33:GLY:HA2	2.54	0.46
7:BG:96:ASN:HA	7:BG:99:ALA:HB2	1.97	0.46
8:BH:82:LEU:O	8:BH:82:LEU:CD1	2.63	0.46
9:BI:119:LYS:O	9:BI:120:ALA:CB	2.63	0.46
11:BK:67:GLU:O	11:BK:70:ALA:HB3	2.15	0.46
12:BL:73:LEU:H	12:BL:73:LEU:HD23	1.80	0.46
13:BM:20:SER:C	13:BM:21:ILE:HD12	2.39	0.46
20:BT:35:TYR:CD2	20:BT:36:ALA:CA	2.98	0.46
25:CA:388:G:H5'	25:CA:389:G:OP2	2.15	0.46
25:CA:415:A:O5'	25:CA:415:A:H8	1.98	0.46
25:CA:1084:A:C5	25:CA:1085:A:N6	2.82	0.46
25:CA:1096:A:C5	25:CA:1097:U:C5	3.04	0.46
25:CA:1413:A:C2	25:CA:1414:C:O2	2.68	0.46
25:CA:1413:A:C2	25:CA:1590:A:C2	3.02	0.46
25:CA:1486:U:C2'	25:CA:1487:U:H5'	2.45	0.46
25:CA:1801:A:C8	25:CA:2203:U:H2'	2.50	0.46
25:CA:1871:A:C8	25:CA:1872:A:C2	3.03	0.46
25:CA:2046:G:C2'	25:CA:2047:C:H5'	2.45	0.46
25:CA:2333:A:P	47:CW:73:ARG:HH22	2.37	0.46
25:CA:2849:U:C6	25:CA:2867:G:N2	2.83	0.46
26:CB:29:A:OP2	39:CO:31:THR:HG23	2.14	0.46
27:CC:77:VAL:HG12	27:CC:111:ALA:HA	1.97	0.46
27:CC:221:GLY:C	27:CC:223:ALA:N	2.72	0.46
30:CF:40:GLY:HA2	30:CF:84:ILE:HD12	1.97	0.46
33:CI:57:VAL:HB	33:CI:68:PHE:HB2	1.97	0.46
37:CM:110:GLU:O	37:CM:111:GLU:C	2.57	0.46
39:CO:14:ALA:O	39:CO:18:LEU:CD2	2.63	0.46
42:CR:51:VAL:CB	42:CR:52:PRO:CD	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CS:20:VAL:HG11	43:CS:47:VAL:HG11	1.97	0.46
52:C1:33:LEU:HB3	52:C1:51:ALA:HB2	1.96	0.46
25:DA:164:C:H2'	25:DA:165:A:C5'	2.44	0.46
25:DA:237:C:H2'	25:DA:238:C:H6	1.80	0.46
25:DA:648:G:H1'	25:DA:2351:G:OP1	2.15	0.46
25:DA:669:G:H2'	25:DA:670:A:N7	2.31	0.46
25:DA:1406:U:H2'	25:DA:1407:G:H8	1.79	0.46
25:DA:1504:A:H3'	25:DA:1505:A:H8	1.80	0.46
25:DA:2283:C:H2'	25:DA:2284:A:O4'	2.15	0.46
25:DA:2482:A:H2'	25:DA:2483:C:H6	1.80	0.46
25:DA:2803:G:C2'	25:DA:2804:U:O5'	2.62	0.46
25:DA:2843:G:H2'	25:DA:2844:G:O4'	2.15	0.46
25:DA:2849:U:P	40:DP:92:ARG:HH21	2.38	0.46
25:DA:2870:C:C4	25:DA:2871:U:C4	3.03	0.46
56:DB:12:C:N3	57:DW:70:PRO:HB3	2.30	0.46
56:DB:54:G:N3	56:DB:54:G:H2'	2.30	0.46
28:DD:202:ILE:O	28:DD:202:ILE:HG22	2.16	0.46
29:DE:1:MET:HG2	29:DE:16:GLU:HA	1.96	0.46
30:DF:11:VAL:HG12	30:DF:15:LEU:HD11	1.96	0.46
30:DF:105:ILE:CG1	30:DF:106:ALA:N	2.78	0.46
30:DF:150:GLY:O	30:DF:151:LEU:HB3	2.15	0.46
31:DG:23:ILE:HD12	31:DG:71:LEU:HD21	1.96	0.46
31:DG:26:LYS:CB	31:DG:31:GLU:CD	2.87	0.46
33:DI:20:SER:O	33:DI:24:GLY:CA	2.64	0.46
36:DL:76:GLU:O	36:DL:76:GLU:HG3	2.14	0.46
37:DM:106:ASP:OD1	37:DM:107:GLY:N	2.48	0.46
38:DN:98:LEU:HD13	51:D0:53:VAL:HG21	1.96	0.46
39:DO:72:ALA:HA	39:DO:109:ALA:HB2	1.97	0.46
40:DP:51:ASN:ND2	40:DP:51:ASN:N	2.63	0.46
41:DQ:16:ILE:O	41:DQ:19:GLN:HB2	2.15	0.46
48:DX:1:SER:C	48:DX:3:VAL:HG23	2.40	0.46
49:DY:8:GLU:HB3	49:DY:12:GLU:HB3	1.98	0.46
52:D1:37:LYS:HB2	52:D1:48:TYR:CD2	2.49	0.46
1:AA:294:U:H2'	1:AA:295:C:H6	1.78	0.46
1:AA:413:G:N1	4:AD:32:LYS:HD3	2.31	0.46
1:AA:490:C:H2'	1:AA:491:G:C8	2.50	0.46
1:AA:579:A:H2'	1:AA:580:C:C6	2.50	0.46
1:AA:754:C:H3'	1:AA:754:C:O2	2.16	0.46
1:AA:791:G:C5	1:AA:792:A:N7	2.83	0.46
1:AA:978:A:C6	1:AA:1319:A:C2	3.03	0.46
1:AA:1020:G:C2	1:AA:1021:A:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1156:G:H5"	1:AA:1157:A:P	2.55	0.46
1:AA:1204:A:C4	1:AA:1205:U:C6	3.03	0.46
1:AA:1216:A:H2'	1:AA:1217:C:C6	2.50	0.46
1:AA:1238:A:H2	1:AA:1241:G:N3	2.11	0.46
1:AA:1291:U:O5'	1:AA:1291:U:H6	1.97	0.46
1:AA:1291:U:OP1	7:AG:36:SER:OG	2.30	0.46
1:AA:1313:U:C2	1:AA:1314:C:C5	3.02	0.46
1:AA:1389:C:C2'	1:AA:1390:U:H5'	2.45	0.46
2:AB:32:GLY:HA3	2:AB:39:ILE:H	1.80	0.46
3:AC:55:VAL:HG12	3:AC:56:ILE:N	2.30	0.46
3:AC:60:ALA:O	3:AC:62:SER:N	2.49	0.46
3:AC:68:HIS:HA	3:AC:103:ALA:O	2.15	0.46
4:AD:54:LEU:HD23	4:AD:55:ARG:CA	2.46	0.46
4:AD:146:GLU:HA	4:AD:149:LYS:CD	2.46	0.46
5:AE:116:VAL:O	5:AE:116:VAL:HG23	2.15	0.46
6:AF:99:ALA:O	6:AF:100:SER:CB	2.63	0.46
7:AG:85:GLN:OE1	7:AG:85:GLN:HA	2.15	0.46
9:AI:7:GLY:HA3	9:AI:84:ARG:O	2.16	0.46
11:AK:63:GLN:O	11:AK:64:VAL:C	2.58	0.46
12:AL:49:ARG:HG3	12:AL:89:LEU:HD11	1.96	0.46
13:AM:2:ARG:C	13:AM:3:ILE:HD13	2.40	0.46
16:AP:18:GLN:HE21	16:AP:35:ARG:HE	1.63	0.46
19:AS:13:HIS:O	19:AS:17:LYS:HG3	2.15	0.46
1:BA:9:G:C4	1:BA:10:A:C8	3.04	0.46
1:BA:175:C:H2'	1:BA:176:C:H6	1.80	0.46
1:BA:782:A:H2'	1:BA:783:C:O4'	2.15	0.46
1:BA:844:G:OP2	1:BA:844:G:N7	2.49	0.46
1:BA:1012:A:C2	1:BA:1018:G:N1	2.83	0.46
1:BA:1130:A:H2'	1:BA:1131:G:H5'	1.97	0.46
1:BA:1312:G:N7	19:BS:2:ARG:N	2.63	0.46
1:BA:1540:U:H4'	21:BU:17:ARG:CG	2.43	0.46
2:BB:20:ARG:HA	2:BB:20:ARG:CZ	2.45	0.46
2:BB:209:VAL:CG2	2:BB:210:THR:N	2.79	0.46
2:BB:216:VAL:HA	2:BB:219:THR:HG21	1.97	0.46
3:BC:63:ILE:HG22	3:BC:96:VAL:HG23	1.98	0.46
3:BC:179:ALA:HB1	3:BC:202:PHE:HE1	1.79	0.46
3:BC:180:ASP:O	3:BC:202:PHE:HA	2.16	0.46
4:BD:45:PRO:O	4:BD:47:LEU:HB2	2.15	0.46
4:BD:99:ASN:O	4:BD:100:VAL:C	2.57	0.46
4:BD:191:SER:OG	4:BD:192:ALA:N	2.41	0.46
5:BE:114:LEU:O	5:BE:119:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:153:ALA:O	5:BE:156:ARG:O	2.32	0.46
7:BG:68:VAL:HG23	7:BG:99:ALA:CB	2.45	0.46
9:BI:8:THR:HB	9:BI:84:ARG:NH1	2.31	0.46
9:BI:117:LEU:HD23	9:BI:120:ALA:O	2.15	0.46
15:BO:81:ILE:HG13	15:BO:82:GLU:N	2.30	0.46
20:BT:34:VAL:C	20:BT:36:ALA:N	2.72	0.46
20:BT:53:MET:CE	20:BT:57:VAL:CG2	2.93	0.46
25:CA:1060:U:O4'	25:CA:1062:G:OP2	2.34	0.46
25:CA:1094:U:O4	25:CA:1097:U:OP2	2.34	0.46
25:CA:1217:U:O2	25:CA:1217:U:H2'	2.15	0.46
25:CA:1917:U:C4	25:CA:1918:A:N7	2.83	0.46
25:CA:2174:C:H2'	25:CA:2175:C:H6	1.80	0.46
25:CA:2180:U:H3'	25:CA:2181:U:C6	2.51	0.46
25:CA:2887:A:H5'	25:CA:2888:C:OP2	2.15	0.46
27:CC:5:CYS:SG	27:CC:15:VAL:HG12	2.55	0.46
27:CC:250:GLN:HB3	27:CC:254:LYS:HB2	1.96	0.46
28:CD:207:VAL:HG13	28:CD:208:LYS:N	2.29	0.46
29:CE:84:THR:HG22	29:CE:85:PHE:CD2	2.50	0.46
30:CF:107:VAL:N	30:CF:108:PRO:HD2	2.30	0.46
32:CH:45:GLU:O	32:CH:46:PHE:C	2.59	0.46
33:CI:50:LYS:HD3	33:CI:50:LYS:N	2.31	0.46
35:CK:19:VAL:CG1	35:CK:41:ILE:HD13	2.45	0.46
35:CK:21:CYS:HA	35:CK:41:ILE:HG22	1.97	0.46
37:CM:83:GLY:C	37:CM:84:LYS:HG2	2.39	0.46
38:CN:70:THR:O	38:CN:71:ARG:C	2.58	0.46
38:CN:103:ARG:HD3	38:CN:110:MET:HE3	1.98	0.46
39:CO:87:ILE:HG22	39:CO:88:LYS:N	2.30	0.46
52:C1:50:GLU:OE2	52:C1:52:LYS:HD3	2.15	0.46
25:DA:261:G:C2	25:DA:262:A:C8	3.04	0.46
25:DA:359:G:C2'	25:DA:360:U:H5'	2.46	0.46
25:DA:640:C:H2'	25:DA:641:U:C6	2.51	0.46
25:DA:748:G:O6	25:DA:751:A:H4'	2.14	0.46
25:DA:1017:G:C2'	25:DA:1018:U:H5'	2.45	0.46
25:DA:1050:A:H2'	25:DA:1051:G:C8	2.50	0.46
25:DA:1097:U:H2'	25:DA:1098:A:H5'	1.97	0.46
25:DA:1271:G:H5"	25:DA:1272:A:OP1	2.14	0.46
25:DA:1315:C:N3	25:DA:1316:U:C5	2.84	0.46
25:DA:1362:C:H2'	25:DA:1363:C:H5'	1.97	0.46
25:DA:1412:U:O2	25:DA:1591:A:N1	2.49	0.46
25:DA:1816:C:C5	27:DC:61:TYR:CE1	3.03	0.46
25:DA:1866:A:C6	25:DA:1876:A:N7	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2310:C:C2'	25:DA:2311:A:O5'	2.51	0.46
25:DA:2738:A:N1	25:DA:2739:U:C2	2.83	0.46
27:DC:124:LYS:HB2	27:DC:125:PRO:CD	2.45	0.46
27:DC:143:VAL:C	27:DC:151:GLY:HA2	2.40	0.46
28:DD:97:SER:O	28:DD:99:GLU:N	2.48	0.46
30:DF:19:PHE:CD1	30:DF:19:PHE:N	2.82	0.46
30:DF:69:ALA:HB3	30:DF:80:GLN:HA	1.97	0.46
31:DG:26:LYS:HB3	31:DG:31:GLU:CD	2.39	0.46
32:DH:62:LEU:HD13	32:DH:63:ALA:CA	2.46	0.46
33:DI:45:THR:O	33:DI:49:GLU:N	2.49	0.46
34:DJ:105:VAL:HG11	34:DJ:122:LEU:HD23	1.97	0.46
36:DL:132:ARG:O	36:DL:133:ALA:C	2.58	0.46
38:DN:87:PHE:CZ	38:DN:94:TYR:HB3	2.50	0.46
52:D1:50:GLU:HG3	52:D1:51:ALA:N	2.29	0.46
1:AA:97:G:C2'	1:AA:98:A:O5'	2.63	0.46
1:AA:218:U:C2'	1:AA:219:U:H5'	2.46	0.46
1:AA:258:G:C2	1:AA:259:G:H1'	2.50	0.46
1:AA:276:G:C5	1:AA:277:C:C5	3.03	0.46
1:AA:610:U:H2'	1:AA:611:C:C6	2.51	0.46
1:AA:654:G:C2'	1:AA:655:A:H5'	2.46	0.46
1:AA:1141:C:O2	1:AA:1142:G:C8	2.68	0.46
1:AA:1219:A:OP1	14:AN:53:ARG:NH1	2.49	0.46
1:AA:1451:U:C3'	1:AA:1452:C:H5'	2.46	0.46
3:AC:141:MET:CE	3:AC:147:GLY:HA2	2.44	0.46
3:AC:143:LEU:HD13	3:AC:143:LEU:N	2.31	0.46
5:AE:130:THR:O	5:AE:131:ASN:C	2.58	0.46
9:AI:23:GLY:H	9:AI:60:LEU:HA	1.81	0.46
11:AK:73:VAL:O	11:AK:75:GLU:N	2.48	0.46
12:AL:28:GLN:HB2	12:AL:81:ILE:O	2.14	0.46
13:AM:94:LEU:HB3	13:AM:95:PRO:HD2	1.97	0.46
19:AS:79:TYR:CD2	19:AS:79:TYR:C	2.93	0.46
23:AX:7:G:O2'	23:AX:8:A:H5'	2.15	0.46
1:BA:152:A:C6	1:BA:170:U:O2	2.68	0.46
1:BA:429:U:H4'	1:BA:430:A:OP1	2.14	0.46
1:BA:455:G:H2'	1:BA:456:A:H5'	1.97	0.46
1:BA:549:C:H2'	1:BA:550:G:O5'	2.15	0.46
1:BA:600:A:C4	1:BA:639:G:C2	3.04	0.46
1:BA:747:A:H2'	1:BA:748:G:O4'	2.15	0.46
1:BA:1287:A:N6	1:BA:1288:A:N6	2.63	0.46
1:BA:1291:U:H2'	1:BA:1292:G:H8	1.80	0.46
2:BB:157:PRO:O	2:BB:180:ILE:HD12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:131:ARG:HD3	3:BC:135:ARG:HH21	1.80	0.46
5:BE:56:PRO:O	5:BE:59:ILE:HD11	2.15	0.46
6:BF:20:GLY:O	6:BF:24:ARG:HB2	2.16	0.46
7:BG:26:VAL:HG23	7:BG:27:ASN:N	2.31	0.46
9:BI:16:ALA:HB2	9:BI:66:VAL:CB	2.44	0.46
10:BJ:7:ARG:HD2	10:BJ:73:LEU:HD11	1.96	0.46
14:BN:19:TYR:N	14:BN:19:TYR:HD1	2.13	0.46
20:BT:34:VAL:O	20:BT:36:ALA:N	2.48	0.46
20:BT:66:ILE:HG13	20:BT:70:LYS:HB3	1.97	0.46
20:BT:68:LYS:CB	20:BT:69:ASN:OD1	2.63	0.46
21:BU:40:PRO:C	21:BU:42:THR:H	2.22	0.46
25:CA:132:G:H2'	25:CA:133:U:C6	2.50	0.46
25:CA:547:A:C8	25:CA:548:G:C1'	2.99	0.46
25:CA:622:G:H2'	25:CA:623:C:C6	2.50	0.46
25:CA:666:A:H2'	25:CA:667:U:H6	1.79	0.46
25:CA:752:A:H61	25:CA:2609:U:H3	1.58	0.46
25:CA:772:C:H2'	25:CA:773:U:H6	1.79	0.46
25:CA:823:C:C4	25:CA:824:U:C4	3.04	0.46
25:CA:927:A:H2'	25:CA:928:A:C8	2.49	0.46
25:CA:1121:C:C2'	25:CA:1122:G:O5'	2.63	0.46
25:CA:1168:G:C5'	25:CA:1168:G:H8	2.29	0.46
25:CA:1348:C:H2'	25:CA:1349:C:C5'	2.45	0.46
25:CA:1581:G:C2'	25:CA:1582:C:H5'	2.45	0.46
25:CA:1664:A:C2	25:CA:2726:A:C8	3.03	0.46
25:CA:1808:A:O2'	48:CX:2:ARG:NH1	2.49	0.46
25:CA:2258:C:O2'	25:CA:2426:A:H5"	2.16	0.46
25:CA:2414:G:C2'	25:CA:2415:G:H5'	2.46	0.46
25:CA:2544:G:H2'	25:CA:2545:G:O5'	2.15	0.46
27:CC:7:PRO:HA	27:CC:13:ARG:HA	1.97	0.46
27:CC:105:ALA:O	27:CC:195:GLY:CA	2.63	0.46
30:CF:162:ASP:O	30:CF:163:GLU:C	2.58	0.46
32:CH:29:PHE:CD2	32:CH:30:LEU:HD23	2.50	0.46
32:CH:72:ILE:HD11	32:CH:132:PHE:CD2	2.51	0.46
33:CI:101:SER:HB3	33:CI:104:GLN:HG3	1.96	0.46
33:CI:102:ARG:HB3	33:CI:141:ASP:O	2.15	0.46
34:CJ:4:PHE:CG	34:CJ:5:THR:N	2.83	0.46
34:CJ:77:HIS:HD2	34:CJ:79:GLY:HA2	1.80	0.46
37:CM:7:THR:O	37:CM:8:LYS:C	2.57	0.46
37:CM:24:THR:O	37:CM:24:THR:CG2	2.60	0.46
37:CM:50:ARG:CG	37:CM:51:ARG:N	2.78	0.46
39:CO:56:LYS:HA	39:CO:59:ALA:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CQ:90:ASP:OD1	42:CR:11:GLN:HG3	2.16	0.46
41:CQ:105:PHE:CE1	41:CQ:109:VAL:CG2	2.98	0.46
43:CS:109:ASP:O	43:CS:110:ARG:O	2.34	0.46
45:CU:86:PHE:CE1	45:CU:91:LYS:HB2	2.50	0.46
47:CW:43:ALA:HB1	47:CW:47:VAL:O	2.15	0.46
49:CY:22:LEU:CG	49:CY:23:ARG:H	2.28	0.46
51:C0:29:VAL:HG12	51:C0:34:GLY:HA2	1.97	0.46
51:C0:52:LYS:HE2	51:C0:55:ALA:HB2	1.98	0.46
25:DA:55:G:O2'	25:DA:56:A:C5'	2.62	0.46
25:DA:65:U:C2	25:DA:66:C:C6	3.04	0.46
25:DA:301:G:H5'	25:DA:317:G:H22	1.78	0.46
25:DA:840:C:H2'	25:DA:841:G:O4'	2.16	0.46
25:DA:1045:C:H3'	25:DA:1046:A:H5'	1.96	0.46
25:DA:1097:U:O2'	33:DI:8:VAL:HG11	2.16	0.46
25:DA:1160:G:C6	25:DA:1161:C:C4	3.04	0.46
25:DA:1343:G:N2	25:DA:1405:U:C4	2.83	0.46
25:DA:1799:G:OP1	27:DC:257:ARG:CD	2.59	0.46
25:DA:2026:U:C4	25:DA:2027:G:N7	2.83	0.46
25:DA:2121:G:C2	25:DA:2178:C:N3	2.83	0.46
25:DA:2165:C:O2	25:DA:2165:C:C2'	2.62	0.46
25:DA:2182:U:O2	25:DA:2182:U:H2'	2.14	0.46
25:DA:2287:A:N7	25:DA:2289:G:C8	2.84	0.46
25:DA:2371:G:C6	25:DA:2372:U:C5	3.03	0.46
25:DA:2392:A:O3'	54:D3:26:ALA:HB1	2.15	0.46
25:DA:2516:A:O2'	25:DA:2517:C:H5'	2.15	0.46
56:DB:34:A:C2'	56:DB:35:C:OP2	2.64	0.46
28:DD:45:TYR:C	28:DD:45:TYR:CD1	2.91	0.46
31:DG:84:LYS:HB2	31:DG:132:LEU:HD11	1.97	0.46
31:DG:104:LEU:O	31:DG:111:PRO:HB3	2.16	0.46
31:DG:104:LEU:HB2	31:DG:112:VAL:HB	1.96	0.46
32:DH:59:ALA:O	32:DH:60:GLU:C	2.58	0.46
32:DH:63:ALA:HB1	32:DH:66:ASN:HD22	1.80	0.46
32:DH:104:THR:HG22	32:DH:109:GLU:HA	1.98	0.46
33:DI:71:LYS:HG2	33:DI:115:ASP:OD2	2.16	0.46
33:DI:135:MET:HG3	33:DI:137:LEU:HD11	1.97	0.46
38:DN:52:ILE:O	38:DN:55:ALA:N	2.49	0.46
41:DQ:65:ASN:O	41:DQ:66:ALA:C	2.57	0.46
41:DQ:105:PHE:C	41:DQ:107:ALA:N	2.71	0.46
42:DR:1:MET:HE1	42:DR:101:ILE:CG1	2.45	0.46
42:DR:66:HIS:CE1	42:DR:94:THR:HG21	2.50	0.46
42:DR:69:GLY:O	42:DR:70:GLU:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:2:ILE:CA	44:DT:3:ARG:HB2	2.45	0.46
44:DT:18:GLU:CD	44:DT:18:GLU:N	2.73	0.46
45:DU:62:ALA:O	45:DU:63:ALA:C	2.57	0.46
49:DY:56:LEU:O	49:DY:57:LEU:HB2	2.14	0.46
51:D0:53:VAL:O	51:D0:54:ILE:HB	2.15	0.46
53:D2:44:VAL:O	53:D2:44:VAL:CG1	2.61	0.46
1:AA:4:U:H3'	1:AA:4:U:O2	2.15	0.46
1:AA:739:C:HO2'	15:AO:41:HIS:HD1	1.63	0.46
1:AA:812:G:OP1	1:AA:903:G:H1'	2.15	0.46
1:AA:987:G:C2	1:AA:988:G:C4	3.04	0.46
1:AA:1066:C:H5'	1:AA:1067:A:OP2	2.16	0.46
1:AA:1271:A:C5'	1:AA:1314:C:C5'	2.93	0.46
2:AB:14:HIS:HB2	2:AB:202:ASN:HB3	1.97	0.46
3:AC:35:ASP:O	3:AC:38:VAL:HG22	2.16	0.46
3:AC:61:LYS:HA	3:AC:61:LYS:HE3	1.97	0.46
4:AD:53:GLN:HE21	4:AD:202:LEU:CA	2.28	0.46
4:AD:54:LEU:CD2	4:AD:58:GLN:HB2	2.46	0.46
4:AD:56:GLU:OE2	4:AD:194:ILE:HA	2.15	0.46
4:AD:149:LYS:O	4:AD:151:GLN:N	2.48	0.46
4:AD:154:VAL:O	4:AD:157:ALA:HB3	2.15	0.46
9:AI:9:GLY:HA3	9:AI:80:HIS:HB3	1.98	0.46
9:AI:29:ILE:HG22	9:AI:64:ILE:HD11	1.96	0.46
9:AI:48:ARG:C	9:AI:50:PRO:HD2	2.40	0.46
9:AI:93:LEU:HD12	9:AI:94:ARG:N	2.29	0.46
11:AK:112:VAL:O	11:AK:113:THR:C	2.54	0.46
12:AL:89:LEU:N	12:AL:89:LEU:CD1	2.78	0.46
17:AQ:44:HIS:HD1	17:AQ:69:THR:CG2	2.28	0.46
17:AQ:47:ASP:O	17:AQ:47:ASP:CG	2.57	0.46
1:BA:26:A:H61	1:BA:558:G:C2'	2.29	0.46
1:BA:243:A:H4'	1:BA:244:U:H5"	1.97	0.46
1:BA:368:U:N3	32:CH:91:PHE:HB3	2.30	0.46
1:BA:404:G:C2	1:BA:405:U:C2	3.04	0.46
1:BA:543:U:C2	1:BA:544:G:C8	3.03	0.46
1:BA:811:C:O2'	1:BA:901:A:N1	2.46	0.46
1:BA:1126:U:O4	10:BJ:73:LEU:HD12	2.15	0.46
1:BA:1134:G:C2	1:BA:1141:C:N3	2.84	0.46
1:BA:1182:G:H5"	1:BA:1184:G:H5"	1.98	0.46
1:BA:1286:U:H5'	1:BA:1287:A:OP2	2.16	0.46
1:BA:1445:U:H2'	1:BA:1446:A:OP2	2.15	0.46
1:BA:1537:U:O2	1:BA:1537:U:H2'	2.14	0.46
2:BB:202:ASN:HD22	2:BB:205:ALA:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:58:GLN:O	4:BD:59:LYS:C	2.58	0.46
6:BF:43:GLY:O	6:BF:58:HIS:CD2	2.69	0.46
6:BF:61:LEU:CD1	6:BF:62:MET:H	2.29	0.46
7:BG:36:SER:O	7:BG:39:GLU:HG2	2.15	0.46
7:BG:103:ILE:O	7:BG:106:ALA:HB3	2.15	0.46
8:BH:78:SER:HB3	8:BH:124:ILE:O	2.15	0.46
8:BH:88:LYS:HA	8:BH:91:LEU:HD12	1.97	0.46
11:BK:13:LYS:O	11:BK:13:LYS:HD3	2.15	0.46
13:BM:88:LEU:O	13:BM:89:ARG:C	2.58	0.46
14:BN:19:TYR:O	14:BN:22:LYS:HB3	2.15	0.46
15:BO:87:ARG:O	15:BO:87:ARG:CG	2.63	0.46
16:BP:6:LEU:CD1	16:BP:71:VAL:HG23	2.46	0.46
16:BP:18:GLN:O	16:BP:20:VAL:HG12	2.15	0.46
16:BP:52:LEU:CD2	16:BP:54:LEU:CD2	2.94	0.46
17:BQ:7:LEU:HB2	17:BQ:60:ILE:CG2	2.45	0.46
17:BQ:46:HIS:HA	17:BQ:70:LYS:HE3	1.98	0.46
21:BU:23:GLU:CA	21:BU:27:VAL:HG22	2.46	0.46
25:CA:39:G:H1'	29:CE:43:THR:HG21	1.96	0.46
25:CA:164:C:C2'	25:CA:165:A:H5'	2.46	0.46
25:CA:245:G:O6	54:C3:7:ARG:HD3	2.15	0.46
25:CA:368:A:H3'	25:CA:368:A:C8	2.51	0.46
25:CA:417:C:C2	25:CA:418:C:C5	3.03	0.46
25:CA:964:C:O2'	25:CA:2273:A:N3	2.35	0.46
25:CA:1085:A:C2'	25:CA:1086:A:C2	2.91	0.46
25:CA:1484:U:O2	25:CA:1484:U:C2'	2.63	0.46
25:CA:1671:U:H6	25:CA:1671:U:O5'	1.98	0.46
25:CA:1710:G:H4'	25:CA:2858:C:O2	2.15	0.46
25:CA:1866:A:C2	25:CA:1876:A:C5	3.03	0.46
25:CA:2111:U:O2	25:CA:2118:U:O2	2.33	0.46
25:CA:2127:G:C2	25:CA:2161:C:O2	2.68	0.46
25:CA:2278:A:OP1	37:CM:10:ARG:NH2	2.48	0.46
25:CA:2313:C:C6	25:CA:2313:C:C3'	2.98	0.46
25:CA:2648:G:H2'	25:CA:2649:C:H6	1.78	0.46
25:CA:2799:A:O2'	25:CA:2800:A:C5'	2.63	0.46
30:CF:16:MET:HE3	30:CF:16:MET:O	2.16	0.46
31:CG:64:ALA:O	31:CG:67:ALA:N	2.48	0.46
31:CG:75:VAL:C	31:CG:77:GLY:N	2.67	0.46
33:CI:18:ASN:ND2	33:CI:27:LEU:HD11	2.30	0.46
34:CJ:61:LYS:O	34:CJ:62:VAL:C	2.58	0.46
37:CM:16:ARG:HD3	37:CM:16:ARG:N	2.31	0.46
38:CN:58:ASP:C	38:CN:58:ASP:OD2	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CP:24:THR:HB	40:CP:87:ARG:HB3	1.97	0.46
55:C4:2:LYS:HB2	55:C4:2:LYS:NZ	2.31	0.46
25:DA:58:G:C2	25:DA:70:G:C2	3.03	0.46
25:DA:214:G:H8	25:DA:214:G:O5'	1.98	0.46
25:DA:292:U:N3	25:DA:293:U:C5	2.84	0.46
25:DA:417:C:N3	25:DA:418:C:C5	2.84	0.46
25:DA:635:C:P	36:DL:126:ARG:HD2	2.56	0.46
25:DA:879:G:N1	25:DA:880:G:C6	2.84	0.46
25:DA:935:C:O2'	25:DA:936:A:H5'	2.16	0.46
25:DA:1064:C:O4'	33:DI:89:SER:HB2	2.15	0.46
25:DA:1105:U:C2	25:DA:1106:G:N7	2.83	0.46
25:DA:1240:U:O2'	25:DA:1241:A:O5'	2.31	0.46
25:DA:1281:G:N2	25:DA:1290:C:C2	2.84	0.46
25:DA:1353:A:N6	25:DA:1354:A:N1	2.64	0.46
25:DA:1421:G:C8	25:DA:1421:G:O5'	2.69	0.46
25:DA:1838:C:N4	25:DA:1898:U:H2'	2.31	0.46
25:DA:2091:C:H1'	48:DX:33:HIS:CD2	2.50	0.46
25:DA:2128:G:H22	25:DA:2161:C:H1'	1.80	0.46
56:DB:50:A:C5	56:DB:51:G:C8	3.03	0.46
56:DB:89:U:O2	56:DB:89:U:O4'	2.33	0.46
27:DC:100:ARG:HG3	27:DC:100:ARG:HH11	1.81	0.46
30:DF:73:VAL:HG23	30:DF:78:ILE:HD11	1.97	0.46
30:DF:121:PHE:O	30:DF:122:ASP:C	2.58	0.46
32:DH:3:VAL:HA	32:DH:37:VAL:O	2.15	0.46
34:DJ:119:PHE:C	34:DJ:121:LYS:N	2.73	0.46
38:DN:72:ASP:HB3	38:DN:75:ILE:HG12	1.98	0.46
41:DQ:16:ILE:HG22	41:DQ:17:LEU:N	2.28	0.46
42:DR:62:GLU:O	42:DR:62:GLU:HG3	2.16	0.46
45:DU:32:LYS:HB3	45:DU:63:ALA:HB1	1.97	0.46
45:DU:97:SER:O	45:DU:98:ASN:HB3	2.14	0.46
46:DV:61:LEU:HD12	46:DV:61:LEU:N	2.30	0.46
1:AA:102:G:C2	1:AA:103:U:C5	3.04	0.46
1:AA:142:G:C6	1:AA:143:A:C5	3.03	0.46
1:AA:625:U:O2'	1:AA:626:G:C5'	2.64	0.46
1:AA:748:G:C4	1:AA:749:A:C8	3.03	0.46
1:AA:773:G:C2	1:AA:807:A:C2	3.03	0.46
1:AA:1072:G:OP1	5:AE:61:LYS:NZ	2.49	0.46
1:AA:1151:A:HO2'	1:AA:1152:A:P	2.39	0.46
2:AB:9:LEU:HG	2:AB:11:ALA:N	2.30	0.46
2:AB:216:VAL:O	2:AB:220:VAL:HG23	2.15	0.46
3:AC:71:ARG:HB3	3:AC:74:ILE:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:112:ALA:O	3:AC:113:LYS:C	2.57	0.46
7:AG:119:LEU:CD2	7:AG:123:LEU:HD21	2.45	0.46
8:AH:77:VAL:HG11	8:AH:124:ILE:CG1	2.46	0.46
9:AI:24:ASN:O	9:AI:60:LEU:C	2.58	0.46
10:AJ:25:ILE:HG22	10:AJ:26:VAL:N	2.28	0.46
12:AL:1:ALA:HB3	12:AL:5:GLN:OE1	2.16	0.46
24:AY:150:SER:O	24:AY:153:ASP:HB2	2.16	0.46
1:BA:74:A:C2	1:BA:97:G:C5	3.04	0.46
1:BA:413:G:H22	1:BA:429:U:P	2.39	0.46
1:BA:473:U:H2'	1:BA:474:G:H8	1.81	0.46
1:BA:617:G:C6	1:BA:618:C:C5	3.04	0.46
1:BA:1141:C:C2	1:BA:1142:G:C8	3.03	0.46
1:BA:1170:A:H8	1:BA:1170:A:O5'	1.98	0.46
1:BA:1226:C:H2'	13:BM:101:THR:HB	1.97	0.46
1:BA:1253:G:N2	1:BA:1285:A:H62	2.13	0.46
1:BA:1302:C:C4	13:BM:16:ILE:HD11	2.51	0.46
1:BA:1319:A:OP2	19:BS:4:LEU:HD21	2.16	0.46
2:BB:139:GLU:C	2:BB:143:LEU:HD23	2.41	0.46
3:BC:132:ALA:O	3:BC:136:ALA:CB	2.64	0.46
3:BC:132:ALA:O	3:BC:136:ALA:HB2	2.16	0.46
4:BD:116:LEU:HD23	4:BD:121:ALA:HB3	1.97	0.46
5:BE:45:VAL:HG22	5:BE:117:ALA:CB	2.46	0.46
5:BE:152:VAL:C	5:BE:154:ALA:N	2.73	0.46
6:BF:13:ASP:O	6:BF:15:SER:N	2.48	0.46
8:BH:35:ILE:HD11	8:BH:125:ILE:HG21	1.97	0.46
9:BI:41:GLU:O	9:BI:42:THR:O	2.33	0.46
10:BJ:5:ARG:CD	10:BJ:79:PRO:HG3	2.45	0.46
13:BM:47:LEU:CD2	13:BM:52:ILE:HG13	2.46	0.46
15:BO:35:ILE:CD1	15:BO:62:ARG:NH1	2.78	0.46
15:BO:45:HIS:C	15:BO:47:LYS:H	2.23	0.46
18:BR:33:THR:HG23	18:BR:35:SER:HB2	1.97	0.46
18:BR:34:GLU:HB2	21:BU:18:PHE:CE1	2.51	0.46
18:BR:70:THR:HG23	18:BR:72:ARG:H	1.80	0.46
21:BU:32:ARG:O	21:BU:32:ARG:CG	2.62	0.46
25:CA:1085:A:C5	25:CA:1086:A:C6	3.04	0.46
25:CA:1908:C:C4	25:CA:1909:C:C5	3.04	0.46
25:CA:1909:C:H5'	25:CA:1910:G:OP2	2.16	0.46
25:CA:2102:G:H3'	25:CA:2103:C:H6	1.80	0.46
25:CA:2157:G:O2'	25:CA:2158:A:O5'	2.24	0.46
25:CA:2415:G:C4'	36:CL:66:PHE:HB3	2.46	0.46
25:CA:2516:A:C2	25:CA:2569:G:C2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2656:U:C5	25:CA:2664:G:N2	2.83	0.46
28:CD:136:ASN:ND2	28:CD:140:HIS:CD2	2.83	0.46
30:CF:6:TYR:CD2	30:CF:6:TYR:C	2.93	0.46
30:CF:35:LEU:HD11	30:CF:98:PHE:CZ	2.49	0.46
30:CF:43:ILE:O	30:CF:82:TYR:OH	2.32	0.46
31:CG:71:LEU:HD12	31:CG:71:LEU:H	1.79	0.46
33:CI:122:GLU:O	33:CI:126:ARG:HD3	2.16	0.46
42:CR:14:VAL:HG11	42:CR:98:ILE:CD1	2.45	0.46
45:CU:80:ASP:OD1	45:CU:80:ASP:C	2.59	0.46
45:CU:96:LYS:O	45:CU:97:SER:OG	2.34	0.46
46:CV:75:GLN:HB2	46:CV:92:VAL:HG23	1.97	0.46
25:DA:178:G:C2'	25:DA:179:C:H5'	2.46	0.46
25:DA:189:G:H2'	25:DA:205:G:H22	1.80	0.46
25:DA:511:U:C5	25:DA:512:G:C5	3.04	0.46
25:DA:566:U:H5"	36:DL:29:LYS:HE3	1.97	0.46
25:DA:569:U:O4	25:DA:570:G:C6	2.69	0.46
25:DA:1385:A:H4'	25:DA:1386:C:OP1	2.15	0.46
25:DA:1402:U:H2'	25:DA:1403:A:O5'	2.15	0.46
25:DA:1403:A:N3	25:DA:1404:C:C6	2.84	0.46
25:DA:1579:A:H2'	25:DA:1580:A:O4'	2.15	0.46
25:DA:1588:G:H3'	25:DA:1589:U:H6	1.81	0.46
25:DA:1738:G:C2'	25:DA:1739:A:OP2	2.63	0.46
25:DA:1824:G:O2'	25:DA:1825:U:H5'	2.16	0.46
25:DA:2325:G:C6	25:DA:2326:C:N4	2.84	0.46
25:DA:2345:G:C4	25:DA:2381:A:C2	3.03	0.46
56:DB:3:C:O2'	56:DB:4:C:H5'	2.16	0.46
28:DD:47:ALA:HA	28:DD:84:LEU:HG	1.97	0.46
30:DF:31:GLU:OE1	30:DF:91:ARG:NH1	2.49	0.46
33:DI:82:ALA:O	33:DI:83:ALA:HB2	2.15	0.46
36:DL:62:PRO:CG	54:D3:24:LYS:HD2	2.45	0.46
36:DL:78:ARG:HG3	36:DL:81:ASP:OD1	2.15	0.46
37:DM:30:SER:HB2	37:DM:31:PHE:CD1	2.50	0.46
38:DN:101:GLY:C	38:DN:102:PHE:CD2	2.94	0.46
39:DO:27:VAL:HA	39:DO:93:ASP:HB3	1.98	0.46
39:DO:88:LYS:HG3	39:DO:88:LYS:O	2.14	0.46
40:DP:4:ILE:O	40:DP:5:LYS:C	2.56	0.46
41:DQ:75:TYR:CD2	41:DQ:75:TYR:C	2.93	0.46
44:DT:63:VAL:O	44:DT:79:ASP:HA	2.15	0.46
44:DT:91:GLN:OE1	44:DT:91:GLN:O	2.33	0.46
46:DV:56:PHE:CD1	46:DV:61:LEU:CD2	2.99	0.46
52:D1:8:ILE:HB	52:D1:51:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:68:G:C5	1:AA:69:G:H1'	2.50	0.46
1:AA:328:C:O2	1:AA:328:C:C2'	2.62	0.46
1:AA:470:C:N3	1:AA:471:U:C4	2.84	0.46
1:AA:610:U:H2'	1:AA:611:C:H6	1.79	0.46
1:AA:619:U:H3	4:AD:130:ASN:ND2	2.14	0.46
1:AA:687:A:C8	1:AA:701:U:C4	3.04	0.46
1:AA:763:G:C4	1:AA:764:C:C6	3.04	0.46
1:AA:922:G:C2	1:AA:1396:A:C6	3.04	0.46
1:AA:1002:G:C6	1:AA:1003:G:C5	3.03	0.46
1:AA:1053:G:H4'	1:AA:1054:C:C5'	2.43	0.46
2:AB:15:PHE:HB2	2:AB:39:ILE:HG23	1.97	0.46
2:AB:27:LYS:N	2:AB:28:PRO:CD	2.79	0.46
2:AB:122:ASP:O	2:AB:123:GLY:C	2.59	0.46
2:AB:135:MET:C	2:AB:138:ARG:HG2	2.41	0.46
2:AB:163:ILE:HG12	2:AB:164:ASP:N	2.30	0.46
3:AC:156:LEU:C	3:AC:158:GLY:H	2.24	0.46
4:AD:52:VAL:HG23	4:AD:53:GLN:N	2.30	0.46
4:AD:112:GLU:O	4:AD:115:GLN:N	2.49	0.46
4:AD:172:VAL:HG22	4:AD:173:ASP:N	2.31	0.46
5:AE:31:SER:C	5:AE:32:PHE:CD2	2.94	0.46
5:AE:55:VAL:HB	5:AE:56:PRO:HD3	1.98	0.46
6:AF:35:LYS:HE3	6:AF:65:GLU:OE2	2.15	0.46
7:AG:73:GLU:HA	7:AG:140:VAL:CG1	2.46	0.46
9:AI:16:ALA:HA	9:AI:65:THR:O	2.15	0.46
10:AJ:27:GLU:C	10:AJ:29:ALA:N	2.73	0.46
11:AK:121:ARG:NE	21:AU:35:GLU:HG3	2.31	0.46
14:AN:7:ALA:HA	14:AN:10:VAL:CG2	2.46	0.46
16:AP:12:LYS:C	16:AP:14:ARG:H	2.24	0.46
16:AP:20:VAL:HG11	16:AP:32:PHE:CB	2.46	0.46
17:AQ:60:ILE:HA	17:AQ:73:THR:O	2.16	0.46
18:AR:33:THR:HG23	18:AR:36:GLY:H	1.81	0.46
20:AT:53:MET:HE3	20:AT:54:GLN:N	2.29	0.46
22:AV:70:G:O2'	25:CA:1893:C:H1'	2.15	0.46
24:AY:40:GLY:O	24:AY:41:ILE:C	2.57	0.46
1:BA:71:A:C8	1:BA:71:A:H3'	2.50	0.46
1:BA:146:G:N2	1:BA:177:G:C8	2.84	0.46
1:BA:283:U:C4	1:BA:284:C:N4	2.84	0.46
1:BA:341:C:C2	1:BA:349:A:C2	3.04	0.46
1:BA:600:A:C2	1:BA:601:G:C4	3.03	0.46
1:BA:681:A:N1	1:BA:710:G:C6	2.84	0.46
1:BA:721:G:H4'	1:BA:722:G:C5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1057:G:C5	1:BA:1058:G:C5	3.04	0.46
1:BA:1090:U:O2	1:BA:1090:U:H2'	2.16	0.46
1:BA:1097:C:H5"	2:BB:138:ARG:NH2	2.31	0.46
1:BA:1151:A:O4'	10:BJ:41:PRO:HB2	2.15	0.46
2:BB:67:LEU:O	2:BB:160:LEU:CD1	2.62	0.46
2:BB:86:CYS:HB2	2:BB:88:GLN:HG3	1.97	0.46
2:BB:97:GLY:HA2	2:BB:174:GLU:OE2	2.15	0.46
2:BB:102:ASN:O	2:BB:102:ASN:CG	2.59	0.46
2:BB:137:THR:C	2:BB:139:GLU:N	2.73	0.46
4:BD:60:VAL:O	4:BD:61:ARG:C	2.59	0.46
4:BD:109:THR:O	4:BD:112:GLU:N	2.49	0.46
5:BE:56:PRO:O	5:BE:59:ILE:CD1	2.64	0.46
5:BE:92:ARG:C	5:BE:93:VAL:HG23	2.40	0.46
7:BG:26:VAL:O	7:BG:27:ASN:C	2.57	0.46
7:BG:35:LYS:O	7:BG:38:ALA:HB3	2.15	0.46
7:BG:45:ALA:HB1	7:BG:120:ALA:HB2	1.98	0.46
7:BG:88:VAL:CG2	7:BG:89:GLU:N	2.79	0.46
8:BH:62:LEU:HD23	8:BH:62:LEU:N	2.31	0.46
9:BI:18:VAL:CG1	9:BI:85:ALA:HB2	2.45	0.46
13:BM:103:THR:O	13:BM:104:ASN:C	2.59	0.46
15:BO:87:ARG:O	15:BO:88:ARG:OXT	2.34	0.46
16:BP:5:ARG:NH1	16:BP:24:SER:HA	2.30	0.46
16:BP:23:ASP:OD1	16:BP:23:ASP:C	2.57	0.46
18:BR:19:GLU:HG3	18:BR:54:LEU:HD13	1.98	0.46
18:BR:24:ASP:C	18:BR:26:ALA:H	2.23	0.46
18:BR:37:LYS:HZ2	21:BU:22:CYS:HB3	1.81	0.46
20:BT:36:ALA:O	20:BT:37:ALA:C	2.57	0.46
20:BT:42:ASP:HB3	20:BT:45:ALA:CB	2.44	0.46
21:BU:34:ARG:O	21:BU:35:GLU:O	2.33	0.46
22:BV:33:U:O2	22:BV:35:A:C8	2.69	0.46
25:CA:1291:C:O2'	25:CA:1292:G:H5'	2.15	0.46
25:CA:1482:G:N3	25:CA:1483:G:C8	2.83	0.46
25:CA:1782:U:H2'	25:CA:2608:G:O2'	2.16	0.46
25:CA:1853:A:C5	25:CA:1889:A:C6	3.03	0.46
25:CA:1897:G:C6	25:CA:1898:U:N3	2.83	0.46
25:CA:2123:G:O2'	25:CA:2124:G:H5'	2.16	0.46
25:CA:2172:U:OP1	25:CA:2174:C:H5	1.98	0.46
25:CA:2534:A:C2'	25:CA:2535:G:O5'	2.64	0.46
25:CA:2585:U:O2'	25:CA:2586:U:H5'	2.16	0.46
25:CA:2592:G:C5	25:CA:2593:U:C4	3.03	0.46
25:CA:2661:G:C2'	25:CA:2662:A:O5'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2852:G:C5	25:CA:2853:C:C5	3.04	0.46
26:CB:30:C:C3'	26:CB:31:C:H5'	2.46	0.46
26:CB:61:G:H2'	26:CB:62:C:C6	2.50	0.46
27:CC:221:GLY:O	27:CC:223:ALA:N	2.48	0.46
33:CI:33:ASN:HB3	33:CI:36:GLU:CB	2.45	0.46
38:CN:103:ARG:CZ	38:CN:110:MET:HE1	2.46	0.46
39:CO:66:GLY:HA2	39:CO:102:ARG:NH2	2.30	0.46
40:CP:19:PHE:C	40:CP:19:PHE:CD1	2.93	0.46
49:CY:9:LYS:O	49:CY:13:GLU:HB2	2.15	0.46
49:CY:17:GLU:OE2	49:CY:17:GLU:CA	2.63	0.46
49:CY:18:LEU:HD23	49:CY:22:LEU:HD23	1.98	0.46
25:DA:12:U:O2	25:DA:12:U:H2'	2.14	0.46
25:DA:80:G:C2'	25:DA:81:G:H5'	2.46	0.46
25:DA:224:U:H2'	25:DA:225:C:O5'	2.15	0.46
25:DA:230:G:C2	25:DA:231:A:C4	3.04	0.46
25:DA:537:G:C2	25:DA:555:G:N2	2.83	0.46
25:DA:666:A:H2'	25:DA:667:U:C6	2.51	0.46
25:DA:828:U:C5	25:DA:2247:A:H4'	2.51	0.46
25:DA:845:A:N1	25:DA:847:U:C6	2.84	0.46
25:DA:1062:G:H2'	25:DA:1063:G:C5	2.50	0.46
25:DA:1063:G:C3'	25:DA:1064:C:H6	2.29	0.46
25:DA:1272:A:N7	25:DA:1618:A:H1'	2.30	0.46
25:DA:1400:U:H2'	25:DA:1401:G:O5'	2.16	0.46
25:DA:1586:A:N7	25:DA:1587:G:C4	2.84	0.46
25:DA:2137:U:O2	25:DA:2137:U:H2'	2.16	0.46
25:DA:2290:G:C6	25:DA:2291:U:C4	3.04	0.46
56:DB:42:C:O2'	30:DF:62:GLN:HB3	2.16	0.46
56:DB:70:C:H2'	56:DB:70:C:O2	2.16	0.46
28:DD:39:ASP:H	28:DD:43:ASP:HB2	1.81	0.46
29:DE:76:PRO:HA	29:DE:82:GLY:CA	2.45	0.46
29:DE:155:GLU:HA	29:DE:155:GLU:OE1	2.15	0.46
29:DE:191:ASP:O	29:DE:194:LYS:HB3	2.16	0.46
33:DI:63:ASP:O	33:DI:64:ARG:CB	2.64	0.46
35:DK:14:SER:O	35:DK:52:VAL:HG22	2.15	0.46
36:DL:68:SER:C	36:DL:69:ARG:HG3	2.41	0.46
36:DL:100:ILE:O	36:DL:100:ILE:HG13	2.15	0.46
36:DL:110:VAL:HG11	36:DL:135:ILE:HD11	1.98	0.46
39:DO:61:GLN:C	39:DO:62:LEU:HG	2.40	0.46
40:DP:21:PRO:HG3	40:DP:94:ALA:HA	1.98	0.46
41:DQ:57:ARG:NH2	41:DQ:91:ARG:CZ	2.79	0.46
41:DQ:81:GLY:CA	41:DQ:116:LEU:HD13	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DR:45:GLU:HA	42:DR:45:GLU:OE2	2.16	0.46
43:DS:59:GLU:OE1	43:DS:66:ILE:HD11	2.16	0.46
44:DT:69:ARG:CB	44:DT:74:ILE:CG2	2.94	0.46
45:DU:71:ILE:CD1	45:DU:82:VAL:HG22	2.46	0.46
57:DW:30:GLY:O	57:DW:56:PHE:HB2	2.15	0.46
48:DX:66:VAL:O	48:DX:69:GLU:N	2.49	0.46
1:AA:375:U:O2'	16:AP:6:LEU:O	2.33	0.46
1:AA:426:U:H5"	4:AD:36:ALA:CB	2.46	0.46
1:AA:439:U:C4	1:AA:440:C:C5	3.04	0.46
1:AA:622:A:N7	1:AA:623:C:C6	2.84	0.46
1:AA:675:A:H2'	1:AA:676:A:O5'	2.15	0.46
1:AA:739:C:C5	1:AA:740:U:C5	3.03	0.46
1:AA:1093:A:N3	1:AA:1109:C:O2'	2.33	0.46
2:AB:32:GLY:HA3	2:AB:38:HIS:CA	2.46	0.46
2:AB:52:ALA:CB	2:AB:212:TYR:OH	2.64	0.46
2:AB:57:ASN:HA	2:AB:60:ALA:HB3	1.97	0.46
2:AB:101:THR:N	2:AB:174:GLU:OE1	2.49	0.46
3:AC:166:TRP:CE3	3:AC:166:TRP:CA	2.99	0.46
4:AD:164:ARG:C	4:AD:166:LYS:H	2.24	0.46
5:AE:113:VAL:O	5:AE:114:LEU:C	2.58	0.46
7:AG:119:LEU:HD23	7:AG:123:LEU:CD2	2.46	0.46
9:AI:100:ALA:O	9:AI:102:PHE:CD1	2.69	0.46
13:AM:2:ARG:O	13:AM:7:ASN:O	2.34	0.46
18:AR:54:LEU:O	18:AR:58:ILE:HG13	2.15	0.46
20:AT:68:LYS:HB2	20:AT:69:ASN:H	1.60	0.46
20:AT:69:ASN:OD1	20:AT:69:ASN:N	2.49	0.46
22:AV:14:A:N6	22:AV:22:G:C5	2.83	0.46
1:BA:19:A:C4	1:BA:917:G:C2	3.04	0.46
1:BA:69:G:H2'	1:BA:70:U:H6	1.79	0.46
1:BA:72:A:C6	1:BA:99:C:H1'	2.51	0.46
1:BA:72:A:C8	1:BA:73:C:H5	2.34	0.46
1:BA:101:A:O2'	1:BA:102:G:H5'	2.16	0.46
1:BA:110:C:O2	1:BA:110:C:H2'	2.14	0.46
1:BA:158:G:C3'	1:BA:159:G:H5"	2.46	0.46
1:BA:251:G:C6	1:BA:266:G:C6	3.04	0.46
1:BA:318:G:C6	1:BA:319:G:N7	2.84	0.46
1:BA:856:C:C2'	1:BA:857:C:H5'	2.46	0.46
1:BA:972:C:O2'	10:BJ:57:VAL:HG22	2.16	0.46
1:BA:972:C:O2'	10:BJ:57:VAL:CG2	2.64	0.46
1:BA:1103:C:H5"	2:BB:96:LEU:HD13	1.97	0.46
1:BA:1216:A:C6	1:BA:1217:C:N4	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1245:C:C4	1:BA:1246:A:N7	2.84	0.46
1:BA:1256:A:H5'	1:BA:1258:G:O4'	2.15	0.46
1:BA:1350:A:C2	1:BA:1351:U:C2	3.04	0.46
2:BB:67:LEU:HD13	2:BB:160:LEU:HD11	1.97	0.46
4:BD:31:CYS:SG	4:BD:32:LYS:N	2.88	0.46
4:BD:122:ILE:CG2	4:BD:142:VAL:HG23	2.46	0.46
5:BE:158:LYS:O	5:BE:158:LYS:HG3	2.16	0.46
7:BG:68:VAL:O	7:BG:69:ARG:C	2.59	0.46
7:BG:110:ARG:CZ	7:BG:121:ASN:HB3	2.46	0.46
7:BG:120:ALA:HA	7:BG:123:LEU:HB2	1.98	0.46
8:BH:4:ASP:CG	8:BH:7:ALA:CB	2.89	0.46
8:BH:13:ILE:O	8:BH:14:ARG:C	2.59	0.46
9:BI:11:ARG:O	9:BI:11:ARG:CG	2.63	0.46
19:BS:17:LYS:HA	19:BS:20:LYS:HZ3	1.81	0.46
19:BS:57:VAL:CG1	19:BS:74:ALA:CB	2.94	0.46
21:BU:28:LEU:O	21:BU:28:LEU:HD23	2.15	0.46
22:BV:50:U:C2	22:BV:51:U:C5	3.04	0.46
22:BV:52:G:C6	22:BV:53:G:N7	2.83	0.46
25:CA:31:C:O3'	25:CA:1238:G:C5'	2.64	0.46
25:CA:263:G:H2'	25:CA:264:C:O4'	2.16	0.46
25:CA:277:G:C2'	25:CA:361:G:O6	2.64	0.46
25:CA:354:A:C5	25:CA:355:U:C5	3.03	0.46
25:CA:1372:U:H5'	25:CA:1372:U:H6	1.81	0.46
25:CA:1420:A:O2'	25:CA:1421:G:C5'	2.64	0.46
25:CA:1473:G:C6	25:CA:1474:U:N3	2.83	0.46
25:CA:1520:U:O2	25:CA:1520:U:C2'	2.62	0.46
25:CA:1693:U:O2'	27:CC:13:ARG:NH2	2.49	0.46
25:CA:1830:C:H2'	25:CA:1831:G:H8	1.80	0.46
25:CA:2016:U:H1'	51:C0:2:VAL:CG2	2.46	0.46
25:CA:2111:U:H5'	25:CA:2112:G:P	2.55	0.46
25:CA:2124:G:H2'	25:CA:2125:G:C5'	2.45	0.46
25:CA:2189:U:H2'	25:CA:2190:G:H8	1.80	0.46
25:CA:2229:U:H2'	25:CA:2230:G:C8	2.51	0.46
27:CC:259:ASN:OD1	27:CC:262:THR:HG23	2.15	0.46
28:CD:99:GLU:O	28:CD:102:ALA:N	2.49	0.46
29:CE:138:LEU:CD1	29:CE:167:VAL:HG21	2.46	0.46
30:CF:32:LYS:HD3	30:CF:91:ARG:NH1	2.30	0.46
31:CG:154:GLU:HG2	31:CG:155:PRO:CD	2.45	0.46
33:CI:20:SER:N	33:CI:21:PRO:CD	2.79	0.46
33:CI:100:ILE:HD11	33:CI:137:LEU:HD13	1.97	0.46
33:CI:110:GLN:O	33:CI:110:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CM:69:PRO:O	37:CM:70:ASP:OD2	2.33	0.46
38:CN:75:ILE:O	38:CN:79:LEU:CD1	2.61	0.46
39:CO:94:ARG:O	39:CO:95:SER:C	2.59	0.46
40:CP:32:VAL:HG13	40:CP:36:LYS:O	2.16	0.46
40:CP:80:VAL:CG1	40:CP:83:ILE:CD1	2.94	0.46
45:CU:4:ILE:CG2	45:CU:5:ARG:N	2.79	0.46
25:DA:59:U:C6	25:DA:59:U:C3'	2.98	0.46
25:DA:106:C:H5"	25:DA:107:G:OP2	2.16	0.46
25:DA:222:A:C5	25:DA:224:U:C2	3.04	0.46
25:DA:305:C:H1'	25:DA:313:G:N2	2.30	0.46
25:DA:584:C:OP1	41:DQ:5:ARG:HG2	2.16	0.46
25:DA:1172:C:H3'	25:DA:1173:U:C5	2.51	0.46
25:DA:1237:A:H2'	25:DA:1237:A:O5'	2.15	0.46
25:DA:1519:G:C6	25:DA:1520:U:N3	2.84	0.46
25:DA:1676:A:N7	60:DA:3775:HOH:O	2.36	0.46
25:DA:1710:G:C5	25:DA:1749:A:N1	2.83	0.46
25:DA:1874:C:H3'	25:DA:1875:G:C8	2.50	0.46
25:DA:1893:C:C5	25:DA:1894:C:C5	3.03	0.46
25:DA:1953:A:H2	25:DA:2549:G:N3	2.13	0.46
25:DA:2245:U:O2'	25:DA:2436:G:OP2	2.30	0.46
25:DA:2492:U:O2'	25:DA:2493:U:H5'	2.16	0.46
25:DA:2648:G:C6	25:DA:2649:C:C4	3.04	0.46
56:DB:2:G:H2'	56:DB:2:G:N3	2.31	0.46
31:DG:30:GLY:CA	31:DG:78:VAL:HG12	2.45	0.46
33:DI:35:MET:C	33:DI:37:PHE:N	2.74	0.46
34:DJ:34:ARG:HH11	34:DJ:34:ARG:HG3	1.81	0.46
34:DJ:72:LYS:HD3	34:DJ:74:TYR:CE1	2.51	0.46
35:DK:19:VAL:HG12	35:DK:43:ILE:HG12	1.96	0.46
36:DL:90:VAL:HB	36:DL:122:VAL:HG22	1.98	0.46
40:DP:32:VAL:O	40:DP:34:GLY:N	2.49	0.46
42:DR:47:VAL:HG13	42:DR:54:VAL:HG22	1.97	0.46
43:DS:15:GLN:HG3	51:D0:16:ARG:HH12	1.80	0.46
44:DT:7:LEU:CD2	44:DT:46:ALA:CA	2.93	0.46
45:DU:62:ALA:O	45:DU:63:ALA:O	2.33	0.46
46:DV:56:PHE:CE1	46:DV:61:LEU:HD22	2.51	0.46
46:DV:64:VAL:HG13	46:DV:67:GLY:HA2	1.97	0.46
49:DY:9:LYS:HB3	49:DY:12:GLU:HG2	1.97	0.46
50:DZ:41:PRO:O	50:DZ:44:ARG:HB2	2.16	0.46
1:AA:100:G:C6	1:AA:101:A:C5	3.04	0.46
1:AA:189:A:C5	1:AA:190:A:C2	3.04	0.46
1:AA:421:U:O2	3:AC:126:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:564:C:C4	1:AA:565:U:C4	3.04	0.46
1:AA:726:C:O2'	1:AA:727:G:H5'	2.16	0.46
1:AA:1057:G:H2'	1:AA:1058:G:C5'	2.46	0.46
1:AA:1152:A:H5'	10:AJ:15:HIS:CD2	2.50	0.46
1:AA:1203:C:N4	1:AA:1204:A:N6	2.64	0.46
1:AA:1309:G:P	13:AM:90:HIS:HE1	2.38	0.46
1:AA:1519:A:N7	1:AA:1520:C:H1'	2.31	0.46
2:AB:15:PHE:HD1	2:AB:16:GLY:H	1.64	0.46
2:AB:62:ARG:O	2:AB:63:LYS:HB2	2.16	0.46
3:AC:13:ILE:C	3:AC:15:LYS:H	2.24	0.46
4:AD:97:LEU:HD23	4:AD:117:VAL:CG1	2.45	0.46
4:AD:156:ALA:C	4:AD:159:GLU:HB3	2.41	0.46
5:AE:125:LYS:HD3	5:AE:127:TYR:CE2	2.50	0.46
6:AF:70:VAL:HA	6:AF:73:GLU:HG2	1.98	0.46
8:AH:38:VAL:CG1	8:AH:111:THR:HG22	2.46	0.46
8:AH:95:MET:HE3	8:AH:129:ALA:HB1	1.98	0.46
9:AI:27:ILE:HG12	9:AI:62:LEU:HD21	1.97	0.46
9:AI:38:PHE:CE1	9:AI:75:ALA:HB2	2.50	0.46
10:AJ:6:ILE:HD12	10:AJ:6:ILE:H	1.81	0.46
10:AJ:58:ASN:O	10:AJ:60:ASP:N	2.49	0.46
11:AK:88:PRO:HD3	21:AU:28:LEU:HD11	1.97	0.46
11:AK:93:GLU:O	11:AK:94:SER:C	2.57	0.46
14:AN:43:ASN:C	14:AN:45:VAL:HG22	2.41	0.46
16:AP:16:PHE:C	16:AP:16:PHE:HD1	2.23	0.46
16:AP:67:ILE:O	16:AP:67:ILE:CG2	2.63	0.46
17:AQ:13:SER:CB	17:AQ:21:VAL:HG11	2.46	0.46
19:AS:10:ILE:HG21	19:AS:40:PHE:HE2	1.81	0.46
24:AY:140:VAL:C	24:AY:142:ALA:N	2.73	0.46
24:AY:150:SER:C	24:AY:152:ASP:N	2.69	0.46
1:BA:220:G:H2'	1:BA:221:C:O5'	2.16	0.46
1:BA:402:G:C6	1:BA:403:C:C4	3.03	0.46
1:BA:489:C:H2'	1:BA:490:C:C6	2.51	0.46
1:BA:500:G:C6	1:BA:501:C:C4	3.04	0.46
1:BA:706:A:C1'	11:BK:30:ILE:HD11	2.45	0.46
1:BA:775:G:C2'	1:BA:776:G:H5'	2.45	0.46
1:BA:799:G:C2'	1:BA:800:G:H5'	2.46	0.46
1:BA:932:C:C4	7:BG:2:ARG:NH2	2.83	0.46
1:BA:1070:U:H2'	1:BA:1071:C:C6	2.50	0.46
1:BA:1349:A:H2'	1:BA:1350:A:O4'	2.16	0.46
1:BA:1423:G:C5	1:BA:1424:U:C5	3.04	0.46
2:BB:100:LEU:N	2:BB:100:LEU:CD2	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:27:ILE:O	4:BD:28:ASP:O	2.34	0.46
6:BF:21:MET:HB3	6:BF:25:TYR:CZ	2.50	0.46
6:BF:69:GLU:OE1	6:BF:69:GLU:HA	2.16	0.46
7:BG:96:ASN:HA	7:BG:99:ALA:CB	2.45	0.46
11:BK:109:ILE:O	21:BU:5:VAL:HG22	2.16	0.46
13:BM:4:ALA:O	13:BM:6:ILE:N	2.49	0.46
14:BN:27:LYS:O	14:BN:28:ALA:O	2.34	0.46
16:BP:6:LEU:HD23	16:BP:17:TYR:CB	2.45	0.46
16:BP:71:VAL:HG12	16:BP:75:ILE:HD11	1.98	0.46
20:BT:65:LEU:C	20:BT:67:HIS:CD2	2.93	0.46
25:CA:277:G:H4'	25:CA:278:A:C6	2.50	0.46
25:CA:362:A:C8	25:CA:362:A:OP2	2.69	0.46
25:CA:392:U:H2'	25:CA:393:C:H6	1.81	0.46
25:CA:570:G:H2'	25:CA:2030:A:N7	2.31	0.46
25:CA:708:G:O6	25:CA:723:C:N3	2.49	0.46
25:CA:1004:U:C2'	25:CA:1005:C:OP2	2.63	0.46
25:CA:1098:A:C6	25:CA:1099:G:C6	3.04	0.46
25:CA:1142:A:C4	25:CA:1144:A:C8	3.04	0.46
25:CA:1446:C:H2'	25:CA:1447:C:C6	2.50	0.46
25:CA:1501:G:C2'	25:CA:1502:A:O5'	2.64	0.46
25:CA:1714:U:C5'	25:CA:1715:G:H5'	2.46	0.46
25:CA:1748:C:H2'	25:CA:1749:A:O4'	2.16	0.46
25:CA:1904:G:H1'	25:CA:1927:A:N1	2.31	0.46
25:CA:2110:G:O2'	25:CA:2120:G:H5"	2.16	0.46
25:CA:2182:U:C2	25:CA:2183:A:N7	2.83	0.46
25:CA:2355:G:O2'	47:CW:35:ARG:HD2	2.16	0.46
25:CA:2526:G:H2'	25:CA:2527:C:O5'	2.16	0.46
25:CA:2567:G:H2'	25:CA:2568:U:C6	2.51	0.46
25:CA:2760:C:O2	25:CA:2760:C:C2'	2.60	0.46
25:CA:2820:A:C2'	25:CA:2821:A:OP1	2.64	0.46
27:CC:16:VAL:HB	27:CC:203:VAL:HG13	1.98	0.46
29:CE:48:THR:CG2	29:CE:86:ALA:HB3	2.46	0.46
29:CE:145:ASP:HB3	29:CE:184:ASP:CG	2.40	0.46
32:CH:24:GLY:O	32:CH:28:ASN:HB2	2.16	0.46
32:CH:111:ALA:C	32:CH:113:SER:H	2.22	0.46
33:CI:57:VAL:O	33:CI:68:PHE:CB	2.64	0.46
33:CI:126:ARG:HA	33:CI:129:GLU:CG	2.45	0.46
36:CL:29:LYS:HG2	36:CL:30:THR:HG23	1.97	0.46
36:CL:76:GLU:O	36:CL:77:ILE:HD13	2.15	0.46
40:CP:64:SER:OG	40:CP:65:ASN:ND2	2.49	0.46
42:CR:54:VAL:O	42:CR:55:ASP:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CU:19:GLY:O	45:CU:20:LYS:C	2.59	0.46
46:CV:1:MET:SD	46:CV:1:MET:C	2.99	0.46
47:CW:27:VAL:HG21	47:CW:78:ILE:HD11	1.98	0.46
49:CY:9:LYS:N	49:CY:12:GLU:HB2	2.31	0.46
25:DA:84:A:N3	25:DA:85:G:H1'	2.31	0.46
25:DA:137:U:C2	25:DA:140:C:H1'	2.51	0.46
25:DA:155:A:C2	25:DA:172:A:C2	3.03	0.46
25:DA:227:A:C4	25:DA:2407:A:H1'	2.51	0.46
25:DA:412:A:N6	25:DA:2412:A:O4'	2.49	0.46
25:DA:590:A:O2'	25:DA:591:U:H5'	2.16	0.46
25:DA:640:C:C6	25:DA:641:U:C5	3.04	0.46
25:DA:681:G:H2'	25:DA:682:G:O4'	2.15	0.46
25:DA:747:U:C4	25:DA:2613:U:C5	3.03	0.46
25:DA:846:U:H1'	25:DA:847:U:H5	1.80	0.46
25:DA:979:A:H2'	25:DA:980:A:OP1	2.15	0.46
25:DA:996:A:N6	25:DA:1160:G:C6	2.83	0.46
25:DA:1031:G:C4'	55:D4:6:SER:HB2	2.45	0.46
25:DA:1359:A:C8	25:DA:1373:A:C2	3.03	0.46
25:DA:1394:U:C2'	25:DA:1395:A:O5'	2.62	0.46
25:DA:1401:G:C6	25:DA:1402:U:C4	3.04	0.46
25:DA:1553:A:C6	25:DA:1555:G:H1'	2.51	0.46
25:DA:1614:A:C6	43:DS:87:PRO:HB3	2.51	0.46
25:DA:1709:U:C2	25:DA:1710:G:C8	3.04	0.46
25:DA:2114:A:N1	25:DA:2115:G:H1'	2.31	0.46
25:DA:2292:U:C2'	25:DA:2293:G:O5'	2.64	0.46
25:DA:2671:G:C2	25:DA:2672:U:C2	3.04	0.46
30:DF:45:ASP:HB3	30:DF:48:LEU:HB3	1.97	0.46
32:DH:9:VAL:HG11	32:DH:12:LEU:HD11	1.96	0.46
32:DH:62:LEU:CD1	32:DH:63:ALA:HB2	2.45	0.46
32:DH:142:VAL:HG12	32:DH:143:ILE:N	2.30	0.46
33:DI:10:LEU:HD13	33:DI:23:VAL:HG11	1.98	0.46
35:DK:105:ARG:NH1	40:DP:33:GLU:HG3	2.31	0.46
36:DL:127:VAL:HG13	36:DL:131:ALA:CB	2.46	0.46
37:DM:97:GLN:H	37:DM:97:GLN:NE2	2.14	0.46
39:DO:35:ILE:HG23	39:DO:74:VAL:HG11	1.97	0.46
42:DR:39:LEU:HB3	42:DR:49:ILE:HD13	1.97	0.46
44:DT:57:VAL:HG22	44:DT:58:VAL:N	2.30	0.46
44:DT:61:LEU:O	44:DT:61:LEU:HG	2.15	0.46
45:DU:25:LYS:HA	45:DU:25:LYS:HE3	1.98	0.46
49:DY:3:ALA:O	49:DY:4:LYS:C	2.58	0.46
50:DZ:9:THR:CG2	50:DZ:53:MET:HA	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:71:A:N1	1:AA:99:C:O2'	2.48	0.46
1:AA:91:U:H2'	1:AA:92:U:C1'	2.45	0.46
1:AA:101:A:C5	1:AA:102:G:N7	2.83	0.46
1:AA:142:G:N3	1:AA:143:A:C8	2.83	0.46
1:AA:255:G:H5'	17:AQ:17:GLU:O	2.16	0.46
1:AA:276:G:C5	1:AA:277:C:H5	2.33	0.46
1:AA:322:C:O2	1:AA:332:G:N2	2.49	0.46
1:AA:451:A:C8	1:AA:481:G:N1	2.84	0.46
1:AA:456:A:C6	1:AA:457:G:C5	3.04	0.46
1:AA:503:C:O2'	1:AA:504:C:H5'	2.16	0.46
1:AA:550:G:C6	1:AA:551:U:C4	3.04	0.46
1:AA:646:G:C4	1:AA:647:C:C5	3.04	0.46
1:AA:757:U:C5'	1:AA:822:U:O2	2.64	0.46
1:AA:794:A:C6	1:AA:795:C:N4	2.84	0.46
1:AA:1020:G:C2	1:AA:1021:A:N7	2.84	0.46
1:AA:1061:G:C6	1:AA:1197:A:C2	3.03	0.46
1:AA:1439:G:N7	1:AA:1440:U:C5	2.84	0.46
1:AA:1494:G:C8	25:CA:1913:A:C2	3.04	0.46
2:AB:134:LEU:HG	2:AB:137:THR:OG1	2.16	0.46
2:AB:207:ARG:O	2:AB:211:LEU:HD13	2.14	0.46
3:AC:72:PRO:HG2	3:AC:104:GLU:HG3	1.98	0.46
3:AC:84:GLU:O	3:AC:86:LEU:N	2.49	0.46
4:AD:162:GLU:HA	4:AD:166:LYS:HD3	1.97	0.46
4:AD:167:PRO:HB2	4:AD:170:LEU:CD1	2.46	0.46
5:AE:152:VAL:HG22	5:AE:153:ALA:H	1.80	0.46
7:AG:82:SER:CB	7:AG:84:TYR:CE2	2.99	0.46
10:AJ:52:LEU:CD1	10:AJ:61:ALA:HB3	2.46	0.46
11:AK:32:THR:OG1	11:AK:43:TRP:HB3	2.16	0.46
11:AK:69:CYS:O	11:AK:70:ALA:C	2.59	0.46
15:AO:3:SER:HB3	15:AO:6:ALA:H	1.81	0.46
20:AT:34:VAL:O	20:AT:35:TYR:C	2.56	0.46
1:BA:457:G:C5	1:BA:458:U:C4	3.03	0.46
1:BA:459:A:C2	1:BA:460:A:C5	3.04	0.46
1:BA:630:A:C2	1:BA:631:C:C2	3.03	0.46
1:BA:1086:U:O2'	1:BA:1087:G:H5'	2.15	0.46
1:BA:1107:C:C2	1:BA:1108:G:C8	3.04	0.46
1:BA:1239:A:H62	1:BA:1299:A:N6	2.14	0.46
1:BA:1514:G:H2'	1:BA:1515:G:O4'	2.16	0.46
2:BB:9:LEU:HA	2:BB:42:LEU:HD13	1.98	0.46
3:BC:153:SER:HB3	3:BC:164:THR:HG22	1.98	0.46
8:BH:4:ASP:CG	8:BH:7:ALA:HB2	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:31:LEU:O	8:BH:33:VAL:N	2.49	0.46
9:BI:12:LYS:H	9:BI:105:ARG:HH12	1.63	0.46
9:BI:113:LYS:HG3	9:BI:119:LYS:HA	1.97	0.46
10:BJ:81:GLU:OE2	10:BJ:81:GLU:HA	2.17	0.46
11:BK:19:VAL:HB	11:BK:34:THR:CG2	2.46	0.46
11:BK:80:ASN:HA	11:BK:105:ARG:O	2.16	0.46
11:BK:85:VAL:HG11	11:BK:92:ARG:NH1	2.31	0.46
12:BL:33:CYS:HB3	12:BL:54:VAL:CG2	2.42	0.46
12:BL:106:VAL:HG23	12:BL:116:TYR:O	2.15	0.46
15:BO:17:ASP:OD1	15:BO:20:ASP:HB2	2.16	0.46
15:BO:26:VAL:HG12	15:BO:30:LEU:CD1	2.45	0.46
15:BO:86:LEU:C	15:BO:88:ARG:N	2.74	0.46
16:BP:74:LEU:HD23	16:BP:74:LEU:N	2.31	0.46
20:BT:81:GLN:O	20:BT:84:LYS:HB2	2.16	0.46
25:CA:185:G:C5	25:CA:186:G:N7	2.84	0.46
25:CA:208:C:O2	25:CA:208:C:H2'	2.14	0.46
25:CA:734:A:C4	25:CA:735:A:C8	3.04	0.46
25:CA:785:G:H2'	25:CA:786:C:C6	2.51	0.46
25:CA:1268:A:C2	25:CA:2013:A:C4	3.04	0.46
25:CA:1417:C:O2'	25:CA:1587:G:C2'	2.64	0.46
25:CA:1449:G:C2'	25:CA:1450:G:O5'	2.64	0.46
25:CA:1456:G:H2'	25:CA:1456:G:N3	2.31	0.46
25:CA:1482:G:C6	25:CA:1508:A:N1	2.84	0.46
25:CA:1595:C:O2	25:CA:1595:C:C2'	2.53	0.46
25:CA:1601:G:C2'	25:CA:1602:U:H5'	2.46	0.46
25:CA:1838:C:C5	25:CA:1899:A:C6	3.04	0.46
25:CA:1983:G:C2'	25:CA:1984:G:H5'	2.46	0.46
25:CA:2186:G:H2'	25:CA:2187:U:H6	1.78	0.46
25:CA:2250:G:H8	25:CA:2250:G:O5'	1.99	0.46
25:CA:2313:C:H5"	30:CF:87:LYS:HD3	1.97	0.46
26:CB:38:C:C6	26:CB:38:C:H3'	2.51	0.46
26:CB:54:G:C5	26:CB:55:U:C5	3.03	0.46
28:CD:8:LYS:HE3	28:CD:193:VAL:O	2.15	0.46
30:CF:28:PRO:O	30:CF:29:ARG:HG2	2.16	0.46
31:CG:72:ASN:ND2	31:CG:76:ILE:HD11	2.31	0.46
33:CI:15:GLY:CA	33:CI:50:LYS:HB3	2.41	0.46
35:CK:104:THR:O	35:CK:107:LEU:HD12	2.16	0.46
36:CL:110:VAL:O	36:CL:110:VAL:CG1	2.64	0.46
37:CM:42:THR:O	37:CM:46:ILE:HG13	2.16	0.46
38:CN:55:ALA:HB1	38:CN:80:PHE:H	1.81	0.46
45:CU:82:VAL:CG1	45:CU:83:GLY:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CV:4:ILE:HG12	46:CV:50:MET:SD	2.55	0.46
52:C1:10:LEU:HD23	52:C1:10:LEU:N	2.30	0.46
25:DA:24:G:H1'	43:DS:77:ASP:HB3	1.98	0.46
25:DA:31:C:O3'	25:DA:1238:G:C5'	2.64	0.46
25:DA:55:G:C2'	25:DA:56:A:C5'	2.94	0.46
25:DA:65:U:N3	25:DA:66:C:C5	2.83	0.46
25:DA:104:A:C5	25:DA:105:C:C4	3.03	0.46
25:DA:391:A:H1'	25:DA:411:G:O4'	2.16	0.46
25:DA:833:A:H2'	25:DA:834:G:C8	2.51	0.46
25:DA:1078:U:H5"	25:DA:1079:C:OP1	2.16	0.46
25:DA:1092:C:H3'	25:DA:1093:G:H8	1.81	0.46
25:DA:1164:C:O2'	25:DA:1165:A:H5'	2.15	0.46
25:DA:1407:G:C2	25:DA:1596:A:C2	3.03	0.46
25:DA:1930:G:N2	25:DA:1968:G:H2'	2.31	0.46
25:DA:2148:G:C2	25:DA:2149:U:C4	3.04	0.46
25:DA:2197:U:C6	25:DA:2224:G:C6	3.03	0.46
25:DA:2681:C:OP2	28:DD:114:LYS:CE	2.64	0.46
25:DA:2720:U:H4'	25:DA:2845:U:O2'	2.16	0.46
25:DA:2738:A:N3	25:DA:2738:A:C2'	2.76	0.46
27:DC:16:VAL:CB	27:DC:203:VAL:HG13	2.45	0.46
27:DC:188:ARG:HH21	27:DC:188:ARG:CG	2.29	0.46
28:DD:12:THR:HG22	40:DP:8:GLU:OE2	2.15	0.46
28:DD:22:ILE:HG23	28:DD:190:LYS:HD2	1.98	0.46
28:DD:30:GLU:O	28:DD:31:ALA:C	2.59	0.46
30:DF:6:TYR:C	30:DF:6:TYR:CD1	2.91	0.46
30:DF:55:ASP:O	30:DF:59:ILE:HG13	2.16	0.46
30:DF:100:GLU:HG3	30:DF:104:THR:OG1	2.15	0.46
31:DG:147:LEU:HA	31:DG:150:TYR:CD1	2.51	0.46
33:DI:14:ALA:CB	33:DI:45:THR:HG21	2.45	0.46
33:DI:58:ILE:HG23	33:DI:66:PHE:CD1	2.51	0.46
36:DL:99:ASN:ND2	60:DL:302:HOH:O	2.48	0.46
38:DN:113:ILE:O	38:DN:113:ILE:HG23	2.16	0.46
39:DO:105:ALA:O	39:DO:107:ALA:N	2.49	0.46
41:DQ:93:ILE:HD13	42:DR:11:GLN:CB	2.46	0.46
44:DT:23:ALA:O	44:DT:27:SER:HB3	2.16	0.46
48:DX:34:SER:HA	48:DX:49:ARG:HA	1.96	0.46
49:DY:16:THR:CG2	49:DY:17:GLU:N	2.79	0.46
55:D4:16:ILE:HD13	55:D4:25:VAL:HG22	1.98	0.46
1:AA:54:C:O2	1:AA:54:C:H2'	2.16	0.45
1:AA:71:A:H61	1:AA:99:C:C2'	2.29	0.45
1:AA:159:G:H5"	1:AA:159:G:H8	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:293:G:C6	1:AA:294:U:C4	3.04	0.45
1:AA:299:G:C6	1:AA:300:A:C6	3.04	0.45
1:AA:373:A:C2	1:AA:482:A:N6	2.84	0.45
1:AA:410:G:H5"	1:AA:411:A:P	2.56	0.45
1:AA:418:C:H2'	1:AA:419:C:C6	2.52	0.45
1:AA:435:A:C6	1:AA:436:C:C5	3.04	0.45
1:AA:451:A:N7	1:AA:481:G:C6	2.83	0.45
1:AA:525:C:C4	1:AA:526:C:N4	2.84	0.45
1:AA:614:C:H2'	1:AA:615:G:O4'	2.16	0.45
1:AA:945:G:N1	1:AA:1337:G:C2	2.84	0.45
1:AA:1013:G:H3'	1:AA:1013:G:C8	2.51	0.45
1:AA:1076:U:N3	1:AA:1082:A:C2	2.84	0.45
1:AA:1216:A:C5	1:AA:1217:C:C5	3.04	0.45
1:AA:1271:A:H5"	1:AA:1314:C:H5"	1.98	0.45
1:AA:1378:C:C6	1:AA:1378:C:C3'	2.99	0.45
1:AA:1379:G:N7	7:AG:1:PRO:HB2	2.30	0.45
1:AA:1386:G:H2'	1:AA:1387:G:C8	2.51	0.45
1:AA:1441:A:H62	1:AA:1461:G:H21	1.65	0.45
3:AC:100:ILE:O	3:AC:100:ILE:HG23	2.16	0.45
3:AC:110:LEU:HD13	3:AC:203:LYS:HE3	1.98	0.45
4:AD:91:ALA:O	4:AD:94:GLU:N	2.48	0.45
4:AD:186:GLU:HA	4:AD:186:GLU:OE1	2.15	0.45
5:AE:55:VAL:CB	5:AE:56:PRO:CD	2.94	0.45
5:AE:150:GLU:CG	5:AE:151:MET:N	2.80	0.45
9:AI:30:ASN:C	9:AI:32:ARG:N	2.73	0.45
9:AI:40:ARG:H	9:AI:44:ARG:HB3	1.82	0.45
9:AI:66:VAL:HG21	9:AI:74:GLN:HB3	1.98	0.45
9:AI:123:ARG:CG	9:AI:124:PRO:HD2	2.46	0.45
12:AL:54:VAL:HG21	12:AL:79:ILE:HD11	1.98	0.45
12:AL:100:ALA:O	12:AL:101:LEU:C	2.58	0.45
15:AO:87:ARG:O	15:AO:88:ARG:HB2	2.15	0.45
16:AP:51:ARG:HH11	16:AP:51:ARG:HB3	1.81	0.45
19:AS:12:LEU:C	19:AS:14:LEU:N	2.72	0.45
20:AT:47:GLN:C	20:AT:47:GLN:NE2	2.74	0.45
20:AT:76:ALA:O	20:AT:79:THR:HB	2.16	0.45
21:AU:11:PHE:C	21:AU:12:ASP:OD2	2.58	0.45
1:BA:758:C:H2'	1:BA:759:A:OP2	2.17	0.45
1:BA:853:C:C2	1:BA:854:U:C6	3.03	0.45
1:BA:869:G:H4'	1:BA:872:A:C8	2.51	0.45
1:BA:1114:C:O2	1:BA:1114:C:H2'	2.16	0.45
1:BA:1202:U:O2	1:BA:1202:U:H2'	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1230:C:O2'	1:BA:1231:G:H5'	2.16	0.45
1:BA:1349:A:OP2	9:BI:119:LYS:HE2	2.16	0.45
1:BA:1540:U:O3'	21:BU:17:ARG:NH2	2.50	0.45
2:BB:15:PHE:CE1	2:BB:17:HIS:CE1	3.04	0.45
2:BB:182:VAL:HG12	2:BB:195:VAL:HG13	1.99	0.45
3:BC:70:ALA:O	3:BC:72:PRO:HD3	2.16	0.45
3:BC:106:ARG:HD3	3:BC:106:ARG:H	1.81	0.45
5:BE:136:VAL:HA	5:BE:139:THR:OG1	2.16	0.45
6:BF:18:VAL:CB	6:BF:19:PRO:HD3	2.45	0.45
6:BF:25:TYR:O	6:BF:27:ALA:N	2.49	0.45
7:BG:34:LYS:HB2	7:BG:37:THR:HG22	1.95	0.45
7:BG:94:ARG:HG3	7:BG:98:LEU:HG	1.97	0.45
7:BG:145:GLU:OE1	7:BG:148:LYS:CE	2.65	0.45
8:BH:100:ILE:H	8:BH:100:ILE:HD12	1.81	0.45
9:BI:37:TYR:CD2	9:BI:38:PHE:CD2	3.04	0.45
9:BI:47:VAL:HG12	9:BI:78:ILE:HG22	1.98	0.45
9:BI:52:GLU:O	9:BI:54:VAL:O	2.34	0.45
10:BJ:80:THR:O	10:BJ:84:VAL:HB	2.16	0.45
11:BK:125:LYS:C	21:BU:33:ARG:CZ	2.89	0.45
13:BM:51:GLN:O	13:BM:55:LEU:HD12	2.16	0.45
16:BP:53:ASP:OD1	16:BP:53:ASP:C	2.59	0.45
16:BP:56:ARG:O	16:BP:57:ILE:C	2.59	0.45
17:BQ:31:PRO:C	17:BQ:32:ILE:HD12	2.41	0.45
20:BT:43:LYS:NZ	20:BT:85:LEU:O	2.48	0.45
25:CA:184:C:H2'	25:CA:185:G:H8	1.81	0.45
25:CA:198:C:H6	25:CA:198:C:O5'	2.00	0.45
25:CA:242:G:H5"	54:C3:63:TYR:CZ	2.50	0.45
25:CA:653:U:H2'	25:CA:654:A:OP1	2.16	0.45
25:CA:771:G:C6	25:CA:772:C:C4	3.04	0.45
25:CA:847:U:O2	25:CA:934:U:H1'	2.16	0.45
25:CA:896:A:H5'	25:CA:897:C:OP2	2.16	0.45
25:CA:1519:G:H2'	25:CA:1520:U:O4'	2.16	0.45
25:CA:1525:A:C2'	25:CA:1526:C:H5'	2.46	0.45
25:CA:1724:G:C5	25:CA:1725:U:C5	3.04	0.45
25:CA:1735:A:C4	25:CA:1736:U:C5	3.04	0.45
25:CA:1928:A:C3'	25:CA:1929:G:H5"	2.46	0.45
25:CA:2039:U:H2'	25:CA:2040:G:C8	2.51	0.45
25:CA:2094:A:OP1	32:CH:22:LYS:HD2	2.16	0.45
25:CA:2313:C:H2'	25:CA:2314:A:H5'	1.97	0.45
29:CE:138:LEU:HD22	29:CE:143:LEU:HB2	1.98	0.45
30:CF:41:GLU:O	30:CF:43:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CG:77:GLY:C	31:CG:79:THR:H	2.24	0.45
31:CG:120:ILE:O	31:CG:121:THR:HG23	2.16	0.45
32:CH:41:LYS:H	32:CH:44:ILE:HG23	1.80	0.45
33:CI:37:PHE:CE1	33:CI:41:PHE:HD1	2.35	0.45
33:CI:83:ALA:HB1	33:CI:100:ILE:CD1	2.46	0.45
44:CT:2:ILE:HG23	44:CT:7:LEU:CD1	2.46	0.45
52:C1:9:LYS:C	52:C1:10:LEU:HD23	2.41	0.45
55:C4:3:VAL:CG1	55:C4:36:ARG:HB3	2.45	0.45
25:DA:78:U:P	49:DY:2:LYS:CD	3.02	0.45
25:DA:260:G:C6	25:DA:261:G:C8	3.04	0.45
25:DA:709:U:C2'	25:DA:710:U:H5'	2.46	0.45
25:DA:1248:G:P	41:DQ:1:ALA:HB3	2.56	0.45
25:DA:1347:A:H2'	25:DA:1348:C:O5'	2.16	0.45
25:DA:1429:G:H2'	25:DA:1430:G:H8	1.81	0.45
25:DA:1708:C:O2'	25:DA:1709:U:H5'	2.16	0.45
25:DA:1824:G:H2'	25:DA:1825:U:H5'	1.98	0.45
25:DA:2199:A:C2'	25:DA:2200:C:H5'	2.46	0.45
25:DA:2331:G:C2'	25:DA:2336:A:N1	2.79	0.45
25:DA:2472:G:H3'	25:DA:2473:U:C5'	2.46	0.45
25:DA:2504:U:H5"	25:DA:2505:G:OP2	2.16	0.45
25:DA:2640:G:H8	25:DA:2640:G:O5'	1.99	0.45
25:DA:2738:A:C2	25:DA:2739:U:H1'	2.51	0.45
25:DA:2767:C:C2'	25:DA:2768:U:H5'	2.45	0.45
25:DA:2857:G:N2	25:DA:2859:G:H3'	2.31	0.45
56:DB:24:G:C6	56:DB:56:G:C4	3.04	0.45
56:DB:53:A:N3	56:DB:53:A:H2'	2.30	0.45
27:DC:73:ILE:HD12	27:DC:73:ILE:H	1.78	0.45
27:DC:225:ASN:O	27:DC:226:PRO:C	2.57	0.45
28:DD:113:SER:HB3	28:DD:170:VAL:HG21	1.97	0.45
30:DF:101:ARG:O	30:DF:102:LEU:C	2.59	0.45
31:DG:7:PRO:HB3	31:DG:49:LEU:O	2.16	0.45
31:DG:30:GLY:N	31:DG:78:VAL:HG12	2.30	0.45
32:DH:2:GLN:HA	32:DH:2:GLN:OE1	2.15	0.45
32:DH:53:GLU:O	32:DH:57:LYS:HB2	2.15	0.45
32:DH:143:ILE:CG2	32:DH:144:VAL:N	2.79	0.45
36:DL:79:LEU:N	36:DL:113:ALA:HB3	2.25	0.45
37:DM:35:ALA:O	37:DM:98:PRO:HA	2.16	0.45
43:DS:59:GLU:HA	43:DS:64:ALA:CA	2.46	0.45
1:AA:379:C:H2'	1:AA:380:G:H5'	1.97	0.45
1:AA:414:A:C4	1:AA:415:A:C8	3.04	0.45
1:AA:457:G:C5	1:AA:458:U:C5	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:600:A:C4	1:AA:639:G:C2	3.04	0.45
1:AA:794:A:C6	1:AA:795:C:C4	3.04	0.45
1:AA:952:U:H4'	1:AA:964:A:H61	1.82	0.45
1:AA:1032:G:C2	1:AA:1033:G:C1'	2.95	0.45
1:AA:1180:A:P	9:AI:104:THR:HG23	2.56	0.45
1:AA:1435:G:O6	1:AA:1465:A:N6	2.49	0.45
2:AB:139:GLU:O	2:AB:143:LEU:CD2	2.64	0.45
3:AC:89:VAL:O	3:AC:93:ILE:HB	2.16	0.45
5:AE:143:LEU:O	5:AE:144:GLU:C	2.59	0.45
6:AF:74:LEU:HD23	6:AF:78:PHE:CZ	2.51	0.45
7:AG:21:LEU:CD1	7:AG:22:LEU:HD23	2.47	0.45
9:AI:123:ARG:HG3	9:AI:124:PRO:HD2	1.99	0.45
10:AJ:92:LEU:O	10:AJ:93:ALA:HB3	2.15	0.45
13:AM:76:ILE:HG22	13:AM:77:LYS:N	2.31	0.45
13:AM:79:LEU:HD23	13:AM:86:ARG:HD3	1.97	0.45
14:AN:85:ARG:O	14:AN:86:GLU:C	2.60	0.45
14:AN:86:GLU:HB3	14:AN:90:ARG:NH2	2.31	0.45
16:AP:70:ARG:HB2	16:AP:70:ARG:HH11	1.81	0.45
20:AT:14:GLU:C	20:AT:16:ALA:N	2.75	0.45
20:AT:22:SER:O	20:AT:25:SER:HB3	2.15	0.45
20:AT:67:HIS:C	20:AT:68:LYS:HG3	2.42	0.45
23:AX:5:A:C5'	23:AX:6:G:OP2	2.65	0.45
24:AY:133:ARG:HG2	24:AY:165:THR:OG1	2.17	0.45
1:BA:2:A:N3	1:BA:613:C:O2'	2.48	0.45
1:BA:16:A:C5	1:BA:17:U:C5	3.04	0.45
1:BA:173:U:H6	1:BA:198:G:HO2'	1.64	0.45
1:BA:516:U:H2'	1:BA:517:G:H5'	1.98	0.45
1:BA:636:U:H2'	1:BA:637:C:C6	2.52	0.45
1:BA:936:C:C2'	1:BA:937:A:H5'	2.46	0.45
1:BA:939:G:C6	1:BA:940:C:N4	2.84	0.45
1:BA:1137:C:H1'	1:BA:1138:G:N2	2.31	0.45
1:BA:1256:A:N7	1:BA:1258:G:C2	2.84	0.45
1:BA:1266:G:N2	1:BA:1269:A:OP2	2.48	0.45
1:BA:1276:G:H2'	1:BA:1277:C:H6	1.81	0.45
1:BA:1381:U:C5	1:BA:1382:C:H5	2.34	0.45
4:BD:22:SER:O	4:BD:26:ALA:HB2	2.16	0.45
4:BD:40:HIS:C	4:BD:42:ALA:N	2.72	0.45
5:BE:154:ALA:HB1	8:BH:65:PHE:CD2	2.51	0.45
7:BG:22:LEU:O	7:BG:26:VAL:HG22	2.16	0.45
7:BG:55:LYS:O	7:BG:56:SER:O	2.35	0.45
9:BI:19:PHE:HB2	9:BI:63:TYR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BI:59:LYS:O	9:BI:59:LYS:HD2	2.17	0.45
10:BJ:57:VAL:HG22	10:BJ:58:ASN:H	1.81	0.45
13:BM:21:ILE:CG2	13:BM:22:TYR:N	2.79	0.45
13:BM:36:ALA:HB3	13:BM:38:ILE:HG12	1.98	0.45
19:BS:46:LEU:C	19:BS:47:THR:HG23	2.41	0.45
25:CA:411:G:OP2	25:CA:2406:A:O2'	2.31	0.45
25:CA:981:A:N1	25:CA:2027:G:O2'	2.40	0.45
25:CA:1075:C:C6	25:CA:1075:C:C3'	2.99	0.45
25:CA:1292:G:C2'	25:CA:1293:C:O5'	2.65	0.45
25:CA:1301:A:C2	25:CA:1303:G:C6	3.03	0.45
25:CA:1681:G:N3	25:CA:1762:A:H2'	2.31	0.45
25:CA:1766:G:O2'	25:CA:1767:G:H5'	2.16	0.45
25:CA:2171:A:H3'	25:CA:2173:A:C8	2.51	0.45
25:CA:2228:G:H2'	25:CA:2229:U:C6	2.50	0.45
25:CA:2332:C:H2'	25:CA:2335:A:N3	2.31	0.45
25:CA:2393:U:O3'	36:CL:62:PRO:HA	2.15	0.45
30:CF:56:LEU:HD12	30:CF:64:PRO:HB2	1.97	0.45
31:CG:34:ARG:HG2	31:CG:35:THR:H	1.81	0.45
31:CG:51:PHE:CD2	31:CG:51:PHE:N	2.84	0.45
31:CG:130:ILE:C	31:CG:131:VAL:HG23	2.40	0.45
33:CI:100:ILE:HG22	33:CI:104:GLN:CB	2.45	0.45
35:CK:122:VAL:OXT	35:CK:122:VAL:CG1	2.64	0.45
37:CM:57:VAL:O	37:CM:57:VAL:HG23	2.15	0.45
40:CP:8:GLU:HB3	40:CP:54:LEU:HB2	1.99	0.45
41:CQ:91:ARG:HG2	41:CQ:91:ARG:H	1.62	0.45
49:CY:28:LEU:HD23	49:CY:37:LEU:HD21	1.98	0.45
50:CZ:41:PRO:O	50:CZ:45:GLY:N	2.49	0.45
25:DA:40:U:H2'	25:DA:41:C:C6	2.51	0.45
25:DA:88:G:H2'	25:DA:89:A:C5'	2.46	0.45
25:DA:258:G:H8	25:DA:258:G:O5'	1.99	0.45
25:DA:447:A:C5	25:DA:454:A:N7	2.84	0.45
25:DA:490:C:H4'	25:DA:491:G:OP2	2.16	0.45
25:DA:997:G:H5"	41:DQ:91:ARG:HH21	1.80	0.45
25:DA:1124:G:C2'	25:DA:1125:G:H5'	2.47	0.45
25:DA:1179:G:C8	25:DA:1180:U:O4'	2.70	0.45
25:DA:1359:A:N6	25:DA:1360:G:C2	2.84	0.45
25:DA:1416:G:C4	25:DA:1417:C:C5	3.03	0.45
25:DA:1576:U:O2'	25:DA:1577:C:H5'	2.16	0.45
25:DA:1775:U:P	60:DA:3454:HOH:O	2.74	0.45
25:DA:2114:A:H2'	25:DA:2114:A:N3	2.30	0.45
25:DA:2221:G:H2'	25:DA:2222:C:H5'	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2248:C:H6	25:DA:2248:C:O5'	1.99	0.45
25:DA:2347:C:C2	25:DA:2348:U:C5	3.04	0.45
25:DA:2377:A:O2'	25:DA:2378:A:H5'	2.16	0.45
25:DA:2785:C:H2'	25:DA:2786:U:H6	1.81	0.45
28:DD:15:PHE:HA	28:DD:20:VAL:O	2.17	0.45
29:DE:28:VAL:O	29:DE:32:VAL:HG23	2.16	0.45
33:DI:9:LYS:CB	33:DI:55:PRO:CB	2.88	0.45
33:DI:99:LYS:HA	33:DI:138:VAL:H	1.81	0.45
36:DL:132:ARG:HG3	36:DL:142:ILE:CD1	2.46	0.45
37:DM:65:ILE:O	37:DM:65:ILE:HG22	2.16	0.45
38:DN:76:VAL:O	38:DN:79:LEU:HD12	2.15	0.45
40:DP:103:THR:O	40:DP:104:GLY:C	2.59	0.45
42:DR:39:LEU:C	42:DR:49:ILE:CG2	2.88	0.45
45:DU:39:ASN:CB	45:DU:62:ALA:O	2.64	0.45
46:DV:69:GLU:C	46:DV:70:ILE:HG12	2.42	0.45
46:DV:80:HIS:C	46:DV:80:HIS:ND1	2.74	0.45
48:DX:70:LEU:HB2	48:DX:75:GLU:HB2	1.97	0.45
52:D1:8:ILE:HD11	52:D1:22:THR:CG2	2.46	0.45
1:AA:79:G:H2'	1:AA:80:A:C8	2.51	0.45
1:AA:375:U:N3	1:AA:376:G:C8	2.85	0.45
1:AA:438:U:O2'	1:AA:439:U:P	2.75	0.45
1:AA:632:U:C6	1:AA:632:U:C3'	2.99	0.45
1:AA:632:U:C2'	1:AA:633:G:OP1	2.64	0.45
1:AA:865:A:H2	1:AA:918:A:H4'	1.81	0.45
1:AA:1071:C:N3	1:AA:1105:A:C2	2.83	0.45
1:AA:1285:A:C5'	1:AA:1286:U:C4	2.98	0.45
1:AA:1293:C:O2	1:AA:1293:C:H2'	2.16	0.45
1:AA:1304:G:C6	1:AA:1305:G:N1	2.84	0.45
1:AA:1317:C:H2'	1:AA:1318:A:O5'	2.16	0.45
1:AA:1348:U:O4	1:AA:1374:A:C8	2.70	0.45
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.46	0.45
2:AB:80:LYS:CG	2:AB:84:LEU:HD22	2.47	0.45
3:AC:35:ASP:C	3:AC:37:LYS:H	2.24	0.45
5:AE:76:ASN:O	5:AE:77:ASN:HB2	2.16	0.45
5:AE:90:GLY:O	5:AE:128:GLY:HA3	2.15	0.45
6:AF:25:TYR:CD2	6:AF:25:TYR:N	2.84	0.45
7:AG:4:ARG:O	7:AG:5:VAL:C	2.59	0.45
7:AG:22:LEU:O	7:AG:25:PHE:HB3	2.17	0.45
8:AH:17:GLN:CD	8:AH:69:ALA:HB1	2.41	0.45
16:AP:72:ALA:O	16:AP:75:ILE:HD12	2.15	0.45
17:AQ:15:LYS:N	17:AQ:16:MET:CE	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:74:ALA:N	19:AS:75:PRO:HD2	2.32	0.45
20:AT:20:ASN:HB3	20:AT:65:LEU:HD22	1.99	0.45
24:AY:74:SER:O	24:AY:77:PRO:HD2	2.16	0.45
1:BA:294:U:H2'	1:BA:295:C:C6	2.52	0.45
1:BA:369:G:H2'	1:BA:370:C:O5'	2.16	0.45
1:BA:522:C:H2'	1:BA:523:A:O4'	2.16	0.45
1:BA:613:C:H2'	1:BA:614:C:C6	2.52	0.45
1:BA:1000:A:C2	1:BA:1001:C:C2	3.05	0.45
1:BA:1086:U:O2'	1:BA:1087:G:C5'	2.64	0.45
1:BA:1095:U:H5'	1:BA:1109:C:O2	2.16	0.45
1:BA:1151:A:C5'	10:BJ:44:THR:H	2.29	0.45
1:BA:1435:G:H2'	1:BA:1436:U:C6	2.51	0.45
2:BB:110:ILE:O	2:BB:111:LYS:C	2.60	0.45
3:BC:46:LEU:HB3	3:BC:49:ALA:CB	2.45	0.45
3:BC:54:ILE:HD13	3:BC:56:ILE:HD11	1.97	0.45
4:BD:28:ASP:C	4:BD:30:LYS:N	2.74	0.45
6:BF:74:LEU:O	6:BF:76:THR:N	2.49	0.45
6:BF:88:MET:CE	18:BR:63:TYR:HD2	2.29	0.45
11:BK:89:GLY:O	11:BK:90:PRO:C	2.59	0.45
11:BK:109:ILE:CG2	21:BU:16:ARG:CZ	2.93	0.45
13:BM:57:ASP:O	13:BM:60:ALA:N	2.49	0.45
18:BR:24:ASP:CB	18:BR:27:THR:HB	2.46	0.45
20:BT:7:LYS:H	20:BT:7:LYS:HG2	1.55	0.45
21:BU:13:VAL:C	21:BU:15:LEU:HG	2.42	0.45
21:BU:19:LYS:N	21:BU:19:LYS:HZ3	2.15	0.45
22:BV:76:A:N6	25:DA:2450:A:O2'	2.49	0.45
25:CA:536:G:H2'	25:CA:537:G:O5'	2.16	0.45
25:CA:545:U:H6	25:CA:548:G:P	2.39	0.45
25:CA:807:U:H1'	25:CA:2445:G:OP1	2.16	0.45
25:CA:813:U:H2'	25:CA:814:C:C6	2.51	0.45
25:CA:1059:G:O2'	33:CI:128:ILE:HA	2.16	0.45
25:CA:1080:A:N3	25:CA:1080:A:C2'	2.79	0.45
25:CA:1169:A:H8	25:CA:1169:A:O5'	1.99	0.45
25:CA:1461:C:H2'	25:CA:1462:C:O5'	2.16	0.45
25:CA:1534:U:H5'	25:CA:1535:A:P	2.56	0.45
25:CA:1641:A:H2'	25:CA:1642:G:O4'	2.16	0.45
25:CA:1712:U:C4	25:CA:1713:A:C6	3.05	0.45
25:CA:1870:C:H5"	25:CA:1871:A:C8	2.51	0.45
25:CA:1889:A:C2'	25:CA:1890:A:O5'	2.63	0.45
25:CA:2070:A:C2	25:CA:2442:C:C2	3.05	0.45
25:CA:2218:G:O2'	25:CA:2219:U:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2298:A:H2'	25:CA:2298:A:N3	2.31	0.45
25:CA:2469:A:C4'	37:CM:55:ARG:HH12	2.23	0.45
27:CC:74:PRO:HB2	27:CC:96:LYS:HD3	1.97	0.45
29:CE:138:LEU:O	29:CE:139:LYS:C	2.59	0.45
30:CF:135:ILE:HG22	30:CF:135:ILE:O	2.15	0.45
31:CG:82:PHE:CD2	31:CG:82:PHE:N	2.83	0.45
31:CG:145:ALA:O	31:CG:148:ARG:HB3	2.16	0.45
33:CI:85:ILE:HG12	33:CI:88:GLY:HA2	1.97	0.45
36:CL:127:VAL:HG13	36:CL:131:ALA:HB3	1.97	0.45
38:CN:20:MET:HG2	38:CN:21:PHE:N	2.31	0.45
39:CO:87:ILE:C	39:CO:88:LYS:O	2.59	0.45
39:CO:89:ASP:HA	39:CO:116:GLN:HB3	1.96	0.45
41:CQ:35:PHE:C	41:CQ:37:ALA:N	2.70	0.45
46:CV:21:ARG:HA	46:CV:25:LYS:O	2.17	0.45
50:CZ:53:MET:O	50:CZ:54:VAL:CG1	2.65	0.45
54:C3:16:THR:CG2	54:C3:20:GLY:C	2.89	0.45
25:DA:280:U:N3	25:DA:281:C:C4	2.85	0.45
25:DA:410:G:O3'	25:DA:2407:A:OP2	2.34	0.45
25:DA:714:U:H5'	25:DA:715:A:OP2	2.17	0.45
25:DA:843:G:C6	25:DA:936:A:N1	2.85	0.45
25:DA:870:U:C4	25:DA:871:U:H5	2.34	0.45
25:DA:878:A:C6	25:DA:900:A:C8	3.05	0.45
25:DA:930:G:C1'	50:DZ:24:LEU:HD21	2.47	0.45
25:DA:1146:C:H2'	25:DA:1146:C:O2	2.16	0.45
25:DA:1188:U:H2'	25:DA:1189:A:O5'	2.17	0.45
25:DA:1356:G:O2'	25:DA:1357:C:H5'	2.17	0.45
25:DA:1509:A:O2'	25:DA:1510:G:P	2.74	0.45
25:DA:1718:G:N2	25:DA:1719:G:H1'	2.31	0.45
25:DA:2211:A:C1'	25:DA:2212:A:OP1	2.64	0.45
25:DA:2316:G:N2	25:DA:2317:A:H1'	2.30	0.45
25:DA:2604:U:C2'	25:DA:2605:U:O5'	2.65	0.45
25:DA:2803:G:O2'	25:DA:2804:U:O5'	2.34	0.45
25:DA:2888:C:O2	25:DA:2888:C:H2'	2.16	0.45
29:DE:28:VAL:O	29:DE:29:HIS:C	2.59	0.45
30:DF:170:ALA:C	30:DF:172:PHE:N	2.72	0.45
31:DG:26:LYS:CB	31:DG:31:GLU:CG	2.94	0.45
31:DG:61:TRP:O	31:DG:64:ALA:N	2.49	0.45
31:DG:109:SER:O	31:DG:110:HIS:HB3	2.17	0.45
32:DH:40:THR:O	32:DH:42:LYS:HB3	2.16	0.45
35:DK:58:LEU:N	35:DK:58:LEU:CD2	2.79	0.45
35:DK:114:LYS:HD2	35:DK:114:LYS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DM:26:VAL:CG1	37:DM:104:GLU:OE2	2.64	0.45
38:DN:24:MET:CE	38:DN:44:LEU:HB2	2.45	0.45
38:DN:29:VAL:HG12	38:DN:30:ARG:N	2.31	0.45
39:DO:7:ARG:O	39:DO:7:ARG:HG2	2.16	0.45
39:DO:66:GLY:HA2	39:DO:102:ARG:NH2	2.32	0.45
39:DO:116:GLN:N	39:DO:116:GLN:OE1	2.50	0.45
40:DP:45:VAL:HG12	40:DP:46:VAL:N	2.31	0.45
1:AA:261:U:C5	20:AT:73:ARG:NH1	2.85	0.45
1:AA:403:C:O2'	1:AA:404:G:H5'	2.16	0.45
1:AA:451:A:H5'	16:AP:70:ARG:HH22	1.81	0.45
1:AA:939:G:C6	1:AA:940:C:N4	2.84	0.45
1:AA:1206:G:H2'	1:AA:1207:G:O4'	2.17	0.45
1:AA:1270:G:O3'	1:AA:1314:C:H5'	2.15	0.45
1:AA:1277:C:H1'	1:AA:1282:C:H1'	1.99	0.45
1:AA:1422:G:N2	1:AA:1423:G:C4	2.85	0.45
1:AA:1475:G:C2'	1:AA:1476:A:H5'	2.46	0.45
1:AA:1492:A:N3	25:CA:1913:A:N6	2.65	0.45
2:AB:53:LEU:HD13	2:AB:56:LEU:HD12	1.98	0.45
2:AB:95:TRP:CZ3	2:AB:97:GLY:HA2	2.51	0.45
2:AB:131:LYS:O	2:AB:132:GLU:C	2.60	0.45
3:AC:6:PRO:HG2	3:AC:183:TYR:CD1	2.52	0.45
4:AD:77:GLU:O	4:AD:80:ARG:N	2.49	0.45
10:AJ:53:ILE:HG22	10:AJ:54:SER:N	2.31	0.45
12:AL:93:ARG:C	12:AL:94:TYR:CG	2.95	0.45
13:AM:38:ILE:N	13:AM:38:ILE:HD13	2.32	0.45
17:AQ:44:HIS:ND1	17:AQ:69:THR:HG21	2.30	0.45
18:AR:24:ASP:C	18:AR:26:ALA:N	2.72	0.45
20:AT:71:ALA:O	20:AT:72:ALA:C	2.59	0.45
21:AU:7:GLU:CB	21:AU:11:PHE:HZ	2.26	0.45
23:AX:7:G:H2'	23:AX:8:A:O4'	2.17	0.45
24:AY:75:MET:O	24:AY:76:SER:C	2.59	0.45
1:BA:149:A:H2'	1:BA:149:A:N3	2.32	0.45
1:BA:253:A:C2	1:BA:254:G:C4	3.04	0.45
1:BA:983:A:O2'	1:BA:984:C:O5'	2.33	0.45
1:BA:1096:C:N4	1:BA:1097:C:N4	2.65	0.45
1:BA:1154:G:C2	1:BA:1155:A:C8	3.04	0.45
1:BA:1187:G:H2'	1:BA:1188:A:H8	1.81	0.45
1:BA:1506:U:H2'	60:BA:1884:HOH:O	2.17	0.45
2:BB:153:MET:O	2:BB:154:GLY:O	2.35	0.45
4:BD:173:ASP:CG	4:BD:176:LYS:HE2	2.42	0.45
5:BE:57:ALA:O	5:BE:60:GLN:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BF:6:ILE:HB	6:BF:62:MET:HB3	1.98	0.45
7:BG:72:VAL:HG12	7:BG:89:GLU:HA	1.98	0.45
8:BH:74:ILE:HA	8:BH:127:TYR:O	2.16	0.45
9:BI:47:VAL:O	9:BI:50:PRO:HD2	2.16	0.45
10:BJ:6:ILE:O	10:BJ:8:ILE:N	2.50	0.45
10:BJ:22:THR:C	10:BJ:25:ILE:HG22	2.42	0.45
11:BK:63:GLN:O	11:BK:66:ALA:HB3	2.16	0.45
13:BM:63:VAL:O	13:BM:68:LEU:HD13	2.16	0.45
14:BN:14:ALA:C	14:BN:16:ALA:N	2.74	0.45
17:BQ:35:LYS:CG	17:BQ:37:ILE:HD11	2.47	0.45
21:BU:8:ASN:N	21:BU:8:ASN:OD1	2.49	0.45
22:BV:5:G:C4	22:BV:69:G:N2	2.84	0.45
25:CA:245:G:O6	54:C3:7:ARG:CD	2.64	0.45
25:CA:578:G:O2'	25:CA:580:U:OP2	2.30	0.45
25:CA:866:A:C5	25:CA:867:C:C5	3.05	0.45
25:CA:1056:G:H4'	25:CA:1086:A:H8	1.77	0.45
25:CA:1173:U:O2	25:CA:1173:U:H2'	2.17	0.45
25:CA:1735:A:H2'	25:CA:1736:U:H6	1.82	0.45
25:CA:2157:G:H8	25:CA:2157:G:OP2	2.00	0.45
25:CA:2667:C:N3	31:CG:109:SER:OG	2.49	0.45
28:CD:63:PRO:O	28:CD:64:GLU:C	2.60	0.45
33:CI:75:ALA:HB1	33:CI:128:ILE:HG23	1.98	0.45
37:CM:14:LYS:HE3	37:CM:14:LYS:HB2	1.80	0.45
37:CM:24:THR:HG22	37:CM:25:ASP:OD1	2.15	0.45
37:CM:57:VAL:C	37:CM:60:GLN:HE21	2.24	0.45
38:CN:63:ARG:HG3	38:CN:80:PHE:CE1	2.51	0.45
40:CP:30:TRP:CE2	40:CP:39:LEU:CD1	2.99	0.45
41:CQ:86:SER:HB2	42:CR:51:VAL:HA	1.98	0.45
46:CV:48:MET:HA	46:CV:51:GLN:HG2	1.98	0.45
48:CX:40:GLU:O	48:CX:41:SER:C	2.58	0.45
25:DA:64:A:C6	25:DA:65:U:C4	3.04	0.45
25:DA:181:A:C4	25:DA:435:C:C6	3.04	0.45
25:DA:186:G:C2'	25:DA:187:G:H5'	2.45	0.45
25:DA:282:A:C2	25:DA:283:G:C5	3.04	0.45
25:DA:319:G:O2'	25:DA:320:A:O5'	2.34	0.45
25:DA:322:A:H5'	25:DA:340:A:H1'	1.98	0.45
25:DA:359:G:C6	25:DA:360:U:C2	3.04	0.45
25:DA:398:C:OP1	48:DX:52:ALA:CB	2.64	0.45
25:DA:840:C:O2	25:DA:939:G:C6	2.69	0.45
25:DA:1361:G:C5	25:DA:1371:G:N2	2.85	0.45
25:DA:1556:C:H2'	25:DA:1557:C:O5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2007:U:O5'	25:DA:2007:U:H6	1.99	0.45
25:DA:2293:G:H5"	39:DO:94:ARG:HH12	1.82	0.45
25:DA:2756:U:C4'	25:DA:2757:A:O5'	2.65	0.45
56:DB:43:C:O2	30:DF:89:THR:HG21	2.16	0.45
27:DC:144:GLU:HG2	27:DC:151:GLY:N	2.29	0.45
27:DC:160:TYR:C	27:DC:160:TYR:CD1	2.95	0.45
28:DD:85:ALA:HB3	28:DD:88:GLU:HG3	1.97	0.45
30:DF:5:ASP:HA	30:DF:8:LYS:HD2	1.98	0.45
32:DH:40:THR:O	32:DH:40:THR:OG1	2.31	0.45
32:DH:85:GLY:O	32:DH:86:ASP:C	2.60	0.45
33:DI:53:PRO:O	33:DI:74:PRO:HD2	2.15	0.45
37:DM:130:PHE:HD2	37:DM:131:VAL:N	2.14	0.45
40:DP:74:GLN:O	40:DP:77:SER:HB3	2.16	0.45
42:DR:79:ARG:O	42:DR:79:ARG:HG3	2.17	0.45
45:DU:6:ARG:O	45:DU:8:ASP:HB3	2.16	0.45
45:DU:52:ASN:OD1	45:DU:52:ASN:N	2.50	0.45
57:DW:33:ILE:HG21	57:DW:76:ILE:HG21	1.97	0.45
51:D0:30:ASP:O	51:D0:31:LYS:C	2.60	0.45
55:D4:22:VAL:HG11	55:D4:36:ARG:HG2	1.99	0.45
1:AA:67:C:H4'	1:AA:172:A:O4'	2.17	0.45
1:AA:69:G:O6	1:AA:98:A:N6	2.50	0.45
1:AA:71:A:OP2	1:AA:71:A:C3'	2.62	0.45
1:AA:93:U:C2'	1:AA:94:G:H5"	2.47	0.45
1:AA:264:C:N4	1:AA:265:G:C6	2.85	0.45
1:AA:539:A:H2'	1:AA:540:G:C8	2.50	0.45
1:AA:549:C:C2'	1:AA:550:G:O5'	2.64	0.45
1:AA:781:A:C5	1:AA:802:A:C2	3.04	0.45
1:AA:918:A:C2'	1:AA:919:A:O5'	2.64	0.45
1:AA:1021:A:H2'	1:AA:1022:A:O4'	2.15	0.45
1:AA:1048:G:OP1	14:AN:2:LYS:HA	2.16	0.45
1:AA:1098:C:C4	1:AA:1099:G:N7	2.85	0.45
1:AA:1217:C:C2	1:AA:1218:C:C5	3.03	0.45
1:AA:1241:G:N3	1:AA:1242:G:C8	2.84	0.45
2:AB:196:ASP:OD1	2:AB:196:ASP:N	2.49	0.45
2:AB:216:VAL:HA	2:AB:219:THR:CG2	2.46	0.45
3:AC:135:ARG:O	3:AC:138:GLN:HB2	2.16	0.45
4:AD:115:GLN:HE21	4:AD:115:GLN:HA	1.82	0.45
4:AD:176:LYS:HB3	4:AD:178:GLU:HG2	1.98	0.45
5:AE:33:THR:HG22	5:AE:51:LYS:CB	2.45	0.45
5:AE:79:THR:HG23	5:AE:80:LEU:O	2.16	0.45
7:AG:61:PHE:CD1	7:AG:62:GLU:N	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:70:PRO:O	7:AG:95:ARG:HD3	2.15	0.45
11:AK:111:ASP:CG	11:AK:113:THR:HG23	2.42	0.45
14:AN:42:TRP:CE3	14:AN:42:TRP:N	2.84	0.45
17:AQ:21:VAL:C	17:AQ:22:VAL:CG2	2.89	0.45
17:AQ:57:VAL:C	17:AQ:58:VAL:CG1	2.89	0.45
20:AT:26:MET:HE3	20:AT:56:ILE:HD13	1.96	0.45
21:AU:33:ARG:HH22	21:AU:34:ARG:HD2	1.81	0.45
1:BA:190:A:C2'	1:BA:191:G:O5'	2.64	0.45
1:BA:428:G:O4'	1:BA:430:A:C8	2.70	0.45
1:BA:577:G:C8	1:BA:816:A:N1	2.85	0.45
1:BA:623:C:N3	1:BA:624:C:C5	2.84	0.45
1:BA:791:G:C5	1:BA:792:A:N7	2.84	0.45
1:BA:827:U:O4	1:BA:870:U:C2	2.69	0.45
1:BA:952:U:H2'	1:BA:953:G:H8	1.81	0.45
1:BA:1204:A:H2'	1:BA:1205:U:O4'	2.17	0.45
1:BA:1328:C:H5"	13:BM:27:THR:HB	1.99	0.45
1:BA:1341:U:H5'	22:BV:32:U:H5"	1.98	0.45
1:BA:1350:A:H2'	1:BA:1351:U:O4'	2.17	0.45
1:BA:1355:G:C2	1:BA:1356:G:C4	3.05	0.45
2:BB:165:ALA:CB	2:BB:186:VAL:HG12	2.44	0.45
2:BB:170:ILE:O	2:BB:171:ALA:C	2.59	0.45
2:BB:187:ASP:OD2	2:BB:202:ASN:HA	2.16	0.45
3:BC:182:ASP:HB2	3:BC:203:LYS:HE3	1.97	0.45
4:BD:97:LEU:C	4:BD:97:LEU:CD1	2.88	0.45
4:BD:129:VAL:HG11	4:BD:134:TYR:CD1	2.51	0.45
5:BE:130:THR:O	5:BE:130:THR:HG23	2.17	0.45
7:BG:49:LEU:C	7:BG:51:GLN:N	2.72	0.45
11:BK:87:GLY:N	11:BK:113:THR:HG22	2.31	0.45
13:BM:88:LEU:C	13:BM:90:HIS:N	2.72	0.45
16:BP:20:VAL:CG2	16:BP:32:PHE:HB2	2.46	0.45
16:BP:52:LEU:CD2	16:BP:54:LEU:HD21	2.46	0.45
17:BQ:51:GLU:N	17:BQ:51:GLU:CD	2.75	0.45
20:BT:28:ARG:O	20:BT:32:LYS:HG2	2.16	0.45
20:BT:42:ASP:HB2	20:BT:45:ALA:HB3	1.93	0.45
25:CA:21:A:O2'	25:CA:22:C:H5'	2.17	0.45
25:CA:138:U:OP2	25:CA:139:U:H5"	2.16	0.45
25:CA:196:A:H2'	25:CA:196:A:N3	2.31	0.45
25:CA:205:G:O2'	25:CA:206:U:P	2.74	0.45
25:CA:928:A:C2	50:CZ:46:MET:HE1	2.52	0.45
25:CA:1098:A:H5'	25:CA:1099:G:OP2	2.17	0.45
25:CA:1413:A:N1	25:CA:1590:A:C2	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2154:A:C2	25:CA:2155:U:C4	3.05	0.45
25:CA:2204:G:O5'	27:CC:149:LYS:CE	2.65	0.45
27:CC:110:LYS:HE2	27:CC:113:ASP:CG	2.40	0.45
27:CC:202:ARG:O	27:CC:202:ARG:HG2	2.15	0.45
28:CD:56:LYS:O	28:CD:57:ALA:O	2.35	0.45
30:CF:92:GLY:H	30:CF:95:MET:HE2	1.80	0.45
30:CF:110:ILE:HB	30:CF:113:PHE:HB2	1.98	0.45
32:CH:104:THR:HG22	32:CH:109:GLU:HA	1.98	0.45
33:CI:33:ASN:CB	33:CI:36:GLU:HG3	2.38	0.45
36:CL:132:ARG:NH1	36:CL:142:ILE:HG21	2.31	0.45
37:CM:54:THR:C	37:CM:56:ALA:N	2.75	0.45
39:CO:9:ARG:O	39:CO:10:ARG:C	2.58	0.45
46:CV:25:LYS:HE2	46:CV:43:ASP:HB2	1.98	0.45
49:CY:17:GLU:HG3	49:CY:18:LEU:N	2.30	0.45
50:CZ:34:THR:HG22	50:CZ:35:VAL:H	1.82	0.45
55:C4:3:VAL:O	55:C4:4:ARG:HB3	2.16	0.45
25:DA:71:A:OP2	25:DA:113:U:C5'	2.64	0.45
25:DA:558:U:H6	25:DA:558:U:O5'	1.99	0.45
25:DA:1026:G:OP1	25:DA:1134:A:H1'	2.16	0.45
25:DA:1315:C:C2'	25:DA:1316:U:O5'	2.64	0.45
25:DA:1589:U:H2'	25:DA:1590:A:H8	1.78	0.45
25:DA:1738:G:O2'	25:DA:1739:A:OP2	2.34	0.45
25:DA:2478:A:C2	25:DA:2529:G:H2'	2.52	0.45
25:DA:2648:G:C5	25:DA:2649:C:C4	3.04	0.45
25:DA:2679:A:O2'	25:DA:2680:U:H5'	2.16	0.45
25:DA:2854:G:H2'	25:DA:2855:C:O5'	2.17	0.45
56:DB:28:C:H2'	56:DB:29:A:C8	2.51	0.45
27:DC:106:PRO:HD2	27:DC:109:LEU:HD22	1.99	0.45
27:DC:119:VAL:HG13	27:DC:132:ARG:HH11	1.81	0.45
28:DD:105:LYS:O	28:DD:177:VAL:HG12	2.17	0.45
29:DE:48:THR:C	29:DE:50:ALA:H	2.23	0.45
30:DF:151:LEU:HD12	30:DF:151:LEU:C	2.42	0.45
31:DG:83:THR:HG23	31:DG:133:LYS:HG3	1.97	0.45
32:DH:9:VAL:HA	32:DH:35:LYS:HE2	1.98	0.45
32:DH:9:VAL:HG12	32:DH:12:LEU:HG	1.99	0.45
33:DI:17:ALA:O	33:DI:18:ASN:CB	2.64	0.45
34:DJ:99:ARG:C	34:DJ:103:ILE:HD12	2.42	0.45
36:DL:96:LYS:CE	36:DL:103:ILE:O	2.65	0.45
38:DN:37:THR:OG1	38:DN:40:LYS:HB2	2.17	0.45
38:DN:86:ARG:HG2	38:DN:86:ARG:O	2.17	0.45
38:DN:103:ARG:NE	38:DN:110:MET:CE	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:47:VAL:O	39:DO:48:LEU:CD2	2.65	0.45
40:DP:5:LYS:O	40:DP:9:GLN:HG2	2.17	0.45
42:DR:49:ILE:HB	42:DR:52:PRO:C	2.42	0.45
43:DS:89:ALA:O	43:DS:90:LYS:HB2	2.16	0.45
45:DU:51:LEU:O	45:DU:52:ASN:C	2.60	0.45
45:DU:55:GLY:O	45:DU:56:GLY:O	2.35	0.45
46:DV:75:GLN:CB	46:DV:92:VAL:HG23	2.47	0.45
1:AA:144:G:N2	1:AA:145:G:H1'	2.31	0.45
1:AA:176:C:H5"	20:AT:23:ARG:NH1	2.31	0.45
1:AA:737:C:C2'	1:AA:738:C:O5'	2.64	0.45
1:AA:900:A:H2'	1:AA:901:A:C8	2.52	0.45
1:AA:953:G:C2	1:AA:1229:A:C2	3.04	0.45
1:AA:957:U:H1'	1:AA:960:U:N3	2.31	0.45
1:AA:992:U:H4'	1:AA:993:G:O5'	2.17	0.45
1:AA:1004:A:C2	1:AA:1026:G:N3	2.85	0.45
1:AA:1319:A:C8	1:AA:1323:G:C5	3.04	0.45
4:AD:56:GLU:OE2	4:AD:59:LYS:HE3	2.16	0.45
4:AD:196:GLU:C	4:AD:198:LEU:N	2.74	0.45
6:AF:4:TYR:OH	6:AF:68:GLN:HB3	2.17	0.45
6:AF:92:THR:CG2	6:AF:93:LYS:N	2.74	0.45
7:AG:91:ARG:O	7:AG:95:ARG:HB2	2.17	0.45
9:AI:18:VAL:HG11	9:AI:82:ILE:CA	2.46	0.45
9:AI:20:ILE:CD1	9:AI:86:LEU:HD12	2.47	0.45
10:AJ:35:GLN:HG2	10:AJ:78:GLU:N	2.31	0.45
10:AJ:40:ILE:CB	10:AJ:73:LEU:HB2	2.46	0.45
11:AK:75:GLU:OE1	11:AK:75:GLU:CA	2.65	0.45
17:AQ:4:ILE:HG22	17:AQ:5:ARG:HG3	1.99	0.45
17:AQ:13:SER:CB	17:AQ:21:VAL:HG12	2.46	0.45
1:BA:28:A:OP1	4:BD:72:ARG:NH2	2.50	0.45
1:BA:220:G:C2'	1:BA:221:C:O5'	2.64	0.45
1:BA:273:U:N3	1:BA:274:A:N7	2.64	0.45
1:BA:415:A:H2'	1:BA:416:G:O4'	2.16	0.45
1:BA:476:U:H2'	1:BA:476:U:O2	2.16	0.45
1:BA:587:G:C2	1:BA:755:G:C5	3.04	0.45
1:BA:688:G:C5	1:BA:700:G:C2	3.05	0.45
1:BA:715:A:H2'	1:BA:716:A:C8	2.52	0.45
1:BA:972:C:H4'	10:BJ:59:LYS:HG3	1.99	0.45
1:BA:1050:G:N2	1:BA:1209:C:C2	2.85	0.45
1:BA:1079:G:C6	1:BA:1080:A:N6	2.84	0.45
1:BA:1151:A:C2	1:BA:1152:A:C8	3.04	0.45
1:BA:1211:U:H1'	1:BA:1213:A:N1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1240:U:C4	7:BG:115:MET:HG2	2.52	0.45
1:BA:1374:A:H2'	1:BA:1375:A:H5'	1.99	0.45
1:BA:1386:G:C2	1:BA:1387:G:C5	3.05	0.45
1:BA:1422:G:N3	1:BA:1423:G:C8	2.84	0.45
2:BB:174:GLU:O	2:BB:178:LEU:CD2	2.65	0.45
2:BB:183:PHE:HB3	2:BB:199:ILE:HD11	1.99	0.45
3:BC:71:ARG:HB3	3:BC:74:ILE:HG21	1.96	0.45
3:BC:106:ARG:HD3	3:BC:106:ARG:N	2.31	0.45
3:BC:123:LEU:HD21	3:BC:129:PHE:HB3	1.98	0.45
4:BD:191:SER:O	4:BD:192:ALA:HB3	2.17	0.45
6:BF:40:GLU:HB3	6:BF:42:TRP:HE1	1.81	0.45
6:BF:82:ASP:N	6:BF:82:ASP:OD2	2.49	0.45
6:BF:97:THR:O	6:BF:98:GLU:CG	2.64	0.45
6:BF:97:THR:O	6:BF:98:GLU:HB3	2.16	0.45
8:BH:30:LYS:HA	8:BH:30:LYS:HE3	1.98	0.45
8:BH:85:TYR:O	8:BH:86:LYS:CE	2.65	0.45
9:BI:89:TYR:CB	9:BI:93:LEU:HD11	2.47	0.45
10:BJ:36:VAL:HG12	10:BJ:38:GLY:H	1.82	0.45
10:BJ:80:THR:OG1	10:BJ:83:THR:HB	2.16	0.45
11:BK:37:GLN:HB2	11:BK:39:ASN:ND2	2.32	0.45
12:BL:3:VAL:HG13	12:BL:4:ASN:N	2.32	0.45
13:BM:4:ALA:HB2	13:BM:56:ARG:CG	2.46	0.45
14:BN:15:LEU:O	14:BN:55:SER:CB	2.65	0.45
16:BP:6:LEU:HB3	16:BP:17:TYR:CD2	2.52	0.45
25:CA:60:G:HO2'	25:CA:61:C:P	2.39	0.45
25:CA:188:G:H2'	25:CA:189:G:C5'	2.46	0.45
25:CA:225:C:H2'	25:CA:226:A:H5'	1.98	0.45
25:CA:823:C:C2'	25:CA:824:U:H5'	2.47	0.45
25:CA:960:A:C5'	25:CA:961:C:OP2	2.58	0.45
25:CA:1076:C:H2'	25:CA:1077:A:C1'	2.46	0.45
25:CA:1174:U:O2	25:CA:1174:U:O4'	2.35	0.45
25:CA:1180:U:C2'	25:CA:1181:U:H5'	2.42	0.45
25:CA:1293:C:H2'	25:CA:1294:U:O5'	2.16	0.45
25:CA:1358:G:C2'	25:CA:1359:A:OP2	2.64	0.45
25:CA:1392:A:N6	25:CA:1393:A:N6	2.64	0.45
25:CA:1833:C:C4	25:CA:1834:U:C4	3.05	0.45
25:CA:1869:G:C5	25:CA:1871:A:OP2	2.70	0.45
25:CA:2103:C:O2'	25:CA:2104:C:H5'	2.17	0.45
25:CA:2723:C:C2'	25:CA:2724:U:O5'	2.65	0.45
25:CA:2820:A:H4'	38:CN:3:HIS:HD2	1.74	0.45
26:CB:39:A:C2	26:CB:44:G:N3	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:63:ILE:O	27:CC:63:ILE:HG22	2.14	0.45
28:CD:103:ASP:C	28:CD:104:VAL:CG2	2.89	0.45
30:CF:34:THR:HA	30:CF:88:VAL:O	2.17	0.45
31:CG:140:ILE:HD12	31:CG:140:ILE:C	2.40	0.45
32:CH:54:LEU:HD22	32:CH:54:LEU:HA	1.80	0.45
32:CH:132:PHE:CE2	32:CH:142:VAL:HG23	2.52	0.45
33:CI:57:VAL:C	33:CI:68:PHE:CB	2.90	0.45
33:CI:103:ALA:O	33:CI:105:LEU:N	2.50	0.45
36:CL:37:GLY:O	36:CL:41:ARG:HG3	2.16	0.45
36:CL:110:VAL:O	36:CL:110:VAL:HG12	2.17	0.45
40:CP:9:GLN:HA	40:CP:12:MET:HG3	1.99	0.45
41:CQ:80:ASN:O	41:CQ:83:LYS:HB3	2.15	0.45
48:CX:16:ASN:OD1	48:CX:26:ARG:HD2	2.15	0.45
52:C1:16:THR:CG2	52:C1:41:VAL:CG1	2.95	0.45
53:C2:1:MET:HE2	53:C2:1:MET:HB2	1.72	0.45
25:DA:461:C:O5’	25:DA:461:C:H6	1.99	0.45
25:DA:497:A:C2’	25:DA:498:G:H5’	2.46	0.45
25:DA:693:A:O2’	25:DA:694:U:O5’	2.34	0.45
25:DA:769:U:C2	25:DA:770:G:C8	3.04	0.45
25:DA:1358:G:C2’	25:DA:1359:A:OP2	2.64	0.45
25:DA:1394:U:C6	25:DA:1394:U:C3’	3.00	0.45
25:DA:1485:U:H2’	25:DA:1486:U:H6	1.80	0.45
25:DA:1585:C:H2’	25:DA:1586:A:H5’	1.97	0.45
25:DA:2049:G:C2’	25:DA:2050:C:H5’	2.47	0.45
25:DA:2467:C:H41	25:DA:2468:A:N6	2.15	0.45
25:DA:2748:A:C5	25:DA:2749:A:N7	2.85	0.45
25:DA:2788:C:H2’	25:DA:2789:C:C6	2.51	0.45
56:DB:51:G:C2	56:DB:52:A:N7	2.84	0.45
56:DB:53:A:C2	56:DB:54:G:C8	3.04	0.45
27:DC:203:VAL:O	27:DC:204:LEU:HB2	2.16	0.45
30:DF:16:MET:HE3	30:DF:16:MET:CA	2.47	0.45
31:DG:112:VAL:HG21	31:DG:150:TYR:HD2	1.81	0.45
31:DG:128:THR:C	31:DG:129:GLU:CG	2.89	0.45
32:DH:9:VAL:HG11	32:DH:12:LEU:CG	2.47	0.45
33:DI:46:ASP:HA	33:DI:50:LYS:CD	2.45	0.45
33:DI:73:PRO:HB2	33:DI:74:PRO:CD	2.46	0.45
37:DM:4:PRO:HB2	37:DM:7:THR:CG2	2.46	0.45
38:DN:46:ARG:O	38:DN:50:PRO:HG2	2.16	0.45
38:DN:103:ARG:CZ	38:DN:110:MET:HE1	2.46	0.45
40:DP:54:LEU:CD1	40:DP:76:HIS:HB2	2.46	0.45
41:DQ:40:LYS:C	41:DQ:42:GLY:N	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DS:62:ASP:O	43:DS:63:GLY:C	2.59	0.45
45:DU:71:ILE:HD11	45:DU:82:VAL:CG2	2.46	0.45
49:DY:6:LEU:HD13	49:DY:56:LEU:HD22	1.99	0.45
50:DZ:35:VAL:HG22	50:DZ:37:ARG:CZ	2.46	0.45
1:AA:27:G:H2'	1:AA:28:A:O5'	2.17	0.45
1:AA:61:G:C5	1:AA:107:G:C2	3.04	0.45
1:AA:202:G:N2	1:AA:216:U:O2	2.49	0.45
1:AA:439:U:C5	1:AA:440:C:H5	2.32	0.45
1:AA:457:G:C6	1:AA:458:U:C4	3.04	0.45
1:AA:459:A:C2	1:AA:460:A:C5	3.05	0.45
1:AA:489:C:C2'	1:AA:490:C:O5'	2.65	0.45
1:AA:650:G:C5	1:AA:651:C:C5	3.05	0.45
1:AA:654:G:C6	1:AA:753:A:N7	2.85	0.45
1:AA:692:U:O2'	1:AA:694:A:N7	2.32	0.45
1:AA:922:G:N2	1:AA:1396:A:C5	2.85	0.45
1:AA:946:A:H2'	1:AA:947:G:C8	2.52	0.45
1:AA:954:G:N1	1:AA:955:U:O2	2.49	0.45
1:AA:1032:G:C5'	1:AA:1032:G:N3	2.80	0.45
1:AA:1151:A:H5"	10:AJ:44:THR:OG1	2.16	0.45
1:AA:1346:A:H5"	9:AI:121:ARG:HH12	1.82	0.45
1:AA:1397:C:O2	1:AA:1397:C:O4'	2.33	0.45
1:AA:1399:C:O2	1:AA:1401:G:C6	2.70	0.45
1:AA:1485:U:H2'	1:AA:1486:G:H8	1.80	0.45
2:AB:19:THR:O	2:AB:20:ARG:CZ	2.65	0.45
2:AB:34:ARG:HE	2:AB:34:ARG:CA	2.27	0.45
2:AB:206:ILE:CG1	2:AB:207:ARG:N	2.78	0.45
3:AC:96:VAL:CB	3:AC:97:PRO:HD2	2.41	0.45
4:AD:12:ARG:HH11	4:AD:12:ARG:HB3	1.81	0.45
4:AD:53:GLN:NE2	4:AD:202:LEU:HA	2.32	0.45
4:AD:103:ARG:NH1	4:AD:110:ARG:HH22	2.14	0.45
5:AE:56:PRO:HA	5:AE:59:ILE:HG12	1.97	0.45
6:AF:42:TRP:CD1	6:AF:42:TRP:H	2.34	0.45
8:AH:39:LEU:C	8:AH:45:ILE:HG12	2.42	0.45
9:AI:29:ILE:CD1	9:AI:38:PHE:HE2	2.30	0.45
9:AI:93:LEU:HA	9:AI:96:GLU:OE1	2.16	0.45
10:AJ:67:ILE:O	10:AJ:67:ILE:HG22	2.17	0.45
14:AN:1:ALA:O	14:AN:2:LYS:HB3	2.16	0.45
14:AN:2:LYS:C	14:AN:6:LYS:HE2	2.42	0.45
22:AV:13:C:O2'	22:AV:14:A:H5'	2.16	0.45
1:BA:35:G:C6	1:BA:36:C:N4	2.85	0.45
1:BA:342:C:C2'	1:BA:343:U:H5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:960:U:O2'	1:BA:1223:C:H4'	2.17	0.45
1:BA:994:A:C5	1:BA:1216:A:H4'	2.52	0.45
1:BA:1013:G:N2	1:BA:1017:U:H1'	2.32	0.45
1:BA:1446:A:N3	1:BA:1446:A:H2'	2.32	0.45
1:BA:1485:U:O2'	1:BA:1486:G:H5'	2.17	0.45
1:BA:1492:A:H8	1:BA:1492:A:OP2	1.99	0.45
1:BA:1504:G:H4'	1:BA:1505:G:C4	2.52	0.45
2:BB:49:PHE:HA	2:BB:212:TYR:OH	2.16	0.45
2:BB:101:THR:N	2:BB:178:LEU:HD21	2.32	0.45
2:BB:183:PHE:HA	2:BB:197:PHE:O	2.17	0.45
4:BD:114:ARG:O	4:BD:115:GLN:C	2.59	0.45
10:BJ:53:ILE:HG13	14:BN:85:ARG:HD2	1.97	0.45
11:BK:88:PRO:HD3	21:BU:28:LEU:HD11	1.97	0.45
11:BK:92:ARG:HH22	21:BU:19:LYS:HD2	1.82	0.45
12:BL:115:LYS:O	12:BL:116:TYR:HB2	2.16	0.45
14:BN:46:LEU:HD11	14:BN:49:GLN:HG2	1.97	0.45
14:BN:93:ILE:HG21	14:BN:96:LEU:HB2	1.99	0.45
17:BQ:46:HIS:CG	17:BQ:47:ASP:N	2.85	0.45
20:BT:43:LYS:HG2	20:BT:86:ALA:HA	1.96	0.45
22:BV:72:C:N4	22:BV:73:A:N6	2.65	0.45
25:CA:760:G:H2'	25:CA:761:A:H5'	1.96	0.45
25:CA:771:G:H2'	25:CA:772:C:H5'	1.99	0.45
25:CA:829:A:H5"	25:CA:831:G:N7	2.32	0.45
25:CA:1172:C:C5	25:CA:1173:U:C6	3.04	0.45
25:CA:1979:U:H2'	25:CA:1980:G:O5'	2.16	0.45
25:CA:2461:A:H1'	25:CA:2492:U:C2	2.52	0.45
25:CA:2727:A:C2'	25:CA:2728:U:H5'	2.47	0.45
26:CB:43:C:C4	26:CB:45:A:C6	3.05	0.45
26:CB:61:G:H2'	26:CB:62:C:H6	1.82	0.45
27:CC:16:VAL:HG23	27:CC:203:VAL:HG22	1.97	0.45
27:CC:26:GLY:O	27:CC:27:LYS:C	2.60	0.45
29:CE:171:ASP:OD1	29:CE:171:ASP:C	2.60	0.45
30:CF:46:LYS:NZ	30:CF:83:PRO:HG2	2.32	0.45
32:CH:46:PHE:O	32:CH:49:ALA:HB3	2.16	0.45
35:CK:99:ILE:HG21	35:CK:119:ALA:HB2	1.99	0.45
35:CK:108:ARG:NH1	40:CP:34:GLY:CA	2.80	0.45
39:CO:19:GLN:C	39:CO:21:LEU:N	2.73	0.45
42:CR:14:VAL:HG11	42:CR:98:ILE:HD12	1.99	0.45
42:CR:79:ARG:O	42:CR:80:ARG:HB3	2.16	0.45
48:CX:30:PRO:HB2	48:CX:32:LEU:HG	1.98	0.45
51:C0:8:THR:C	51:C0:10:SER:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:88:G:H2'	25:DA:89:A:H5'	1.98	0.45
25:DA:120:U:C1'	25:DA:149:A:N7	2.79	0.45
25:DA:264:C:O2	25:DA:264:C:H2'	2.16	0.45
25:DA:346:A:C6	25:DA:347:A:C5	3.05	0.45
25:DA:776:G:C8	25:DA:793:A:C2	3.05	0.45
25:DA:909:A:O2'	25:DA:910:A:H5'	2.16	0.45
25:DA:929:U:O2'	25:DA:930:G:H5'	2.16	0.45
25:DA:1051:G:H2'	25:DA:1051:G:N3	2.32	0.45
25:DA:1063:G:C8	25:DA:1064:C:C6	3.05	0.45
25:DA:1078:U:H4'	25:DA:1079:C:C5'	2.45	0.45
25:DA:1153:C:N4	25:DA:1154:G:C6	2.85	0.45
25:DA:1256:G:C2'	29:DE:77:ILE:HD11	2.46	0.45
25:DA:1479:G:H2'	25:DA:1480:C:O4'	2.17	0.45
25:DA:1509:A:N3	25:DA:1510:G:C8	2.85	0.45
25:DA:1540:G:C4	25:DA:1541:C:C6	3.04	0.45
25:DA:2093:G:C5	25:DA:2225:A:N7	2.85	0.45
25:DA:2103:C:C2	25:DA:2104:C:C5	3.04	0.45
25:DA:2205:A:C2	25:DA:2206:C:N3	2.85	0.45
25:DA:2591:C:H2'	25:DA:2592:G:H5'	1.97	0.45
25:DA:2852:G:H2'	25:DA:2853:C:C6	2.52	0.45
27:DC:226:PRO:HD3	27:DC:233:GLY:CA	2.43	0.45
29:DE:124:PHE:C	29:DE:124:PHE:CD1	2.95	0.45
30:DF:173:ASP:O	30:DF:174:PHE:HB3	2.17	0.45
31:DG:76:ILE:HD13	31:DG:76:ILE:N	2.32	0.45
32:DH:62:LEU:HD13	32:DH:63:ALA:HB2	1.98	0.45
32:DH:96:THR:HG22	32:DH:115:VAL:HG11	1.97	0.45
32:DH:125:THR:HA	32:DH:146:VAL:HB	1.97	0.45
33:DI:56:VAL:HG23	33:DI:70:THR:N	2.32	0.45
36:DL:85:VAL:CG1	36:DL:95:LEU:HD23	2.47	0.45
37:DM:53:MET:C	37:DM:57:VAL:HG13	2.41	0.45
40:DP:105:LYS:HA	40:DP:108:ARG:HD2	1.98	0.45
41:DQ:31:TYR:O	41:DQ:32:ARG:C	2.56	0.45
43:DS:1:MET:HE3	43:DS:62:ASP:OD2	2.16	0.45
43:DS:97:LEU:HD23	43:DS:99:ARG:HH12	1.80	0.45
44:DT:7:LEU:CD2	44:DT:46:ALA:CB	2.94	0.45
46:DV:17:SER:O	46:DV:20:LEU:HB3	2.16	0.45
57:DW:45:ALA:H	57:DW:77:SER:HB3	1.80	0.45
1:AA:22:G:O2'	1:AA:913:A:N1	2.39	0.45
1:AA:64:G:C2	1:AA:67:C:C4	3.05	0.45
1:AA:205:A:N3	1:AA:205:A:C2'	2.78	0.45
1:AA:355:C:C4	1:AA:356:A:N7	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:513:C:O2'	1:AA:514:C:H5'	2.16	0.45
1:AA:549:C:H2'	1:AA:550:G:O4'	2.16	0.45
1:AA:620:C:H1'	4:AD:131:ILE:HD13	1.98	0.45
1:AA:662:U:O2'	1:AA:836:G:O5'	2.35	0.45
1:AA:723:U:C5'	1:AA:724:G:O5'	2.65	0.45
1:AA:1036:A:H2'	1:AA:1036:A:N3	2.32	0.45
1:AA:1038:C:O2'	1:AA:1039:G:H5'	2.17	0.45
1:AA:1061:G:H5'	1:AA:1062:U:OP2	2.17	0.45
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.52	0.45
1:AA:1106:G:C6	1:AA:1107:C:C4	3.05	0.45
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.47	0.45
1:AA:1216:A:N1	1:AA:1217:C:N4	2.65	0.45
1:AA:1299:A:C2	1:AA:1301:U:C2	3.05	0.45
1:AA:1366:C:C2'	1:AA:1367:C:H5'	2.46	0.45
1:AA:1539:C:H1'	23:AX:7:G:C2	2.52	0.45
2:AB:80:LYS:HB2	2:AB:90:PHE:HE1	1.81	0.45
4:AD:8:LEU:C	4:AD:10:LEU:N	2.74	0.45
4:AD:29:THR:O	4:AD:30:LYS:C	2.58	0.45
4:AD:57:LYS:N	4:AD:199:ILE:CG2	2.80	0.45
5:AE:72:ASN:H	5:AE:72:ASN:ND2	2.14	0.45
5:AE:150:GLU:C	5:AE:152:VAL:H	2.25	0.45
7:AG:11:ILE:HD11	7:AG:23:ALA:HB3	1.98	0.45
8:AH:58:LEU:C	8:AH:58:LEU:CD1	2.90	0.45
9:AI:6:TYR:HE2	9:AI:17:ARG:CA	2.30	0.45
10:AJ:67:ILE:HD11	14:AN:96:LEU:HB2	1.97	0.45
10:AJ:73:LEU:O	10:AJ:74:VAL:CB	2.65	0.45
11:AK:18:GLY:O	11:AK:81:LEU:HA	2.17	0.45
12:AL:63:THR:CG2	12:AL:91:GLY:O	2.65	0.45
15:AO:38:LEU:HD12	15:AO:38:LEU:HA	1.81	0.45
16:AP:12:LYS:O	16:AP:13:LYS:HB2	2.17	0.45
18:AR:54:LEU:HD13	18:AR:54:LEU:C	2.42	0.45
22:AV:69:G:H2'	22:AV:70:G:H5'	1.99	0.45
1:BA:96:U:H2'	1:BA:97:G:H8	1.80	0.45
1:BA:128:G:C6	1:BA:129:A:N6	2.85	0.45
1:BA:147:G:C2	1:BA:176:C:C2	3.05	0.45
1:BA:185:U:O2'	1:BA:186:C:H5'	2.17	0.45
1:BA:283:U:H2'	1:BA:284:C:H6	1.78	0.45
1:BA:424:G:N2	1:BA:425:G:C4	2.85	0.45
1:BA:457:G:C6	1:BA:458:U:C4	3.04	0.45
1:BA:720:C:N4	1:BA:721:G:C2	2.85	0.45
1:BA:767:A:H2'	1:BA:768:A:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:935:A:N3	1:BA:935:A:H2'	2.31	0.45
1:BA:957:U:O2	1:BA:959:A:C8	2.70	0.45
1:BA:1053:G:H5"	1:BA:1055:A:OP1	2.17	0.45
1:BA:1126:U:O2'	1:BA:1127:G:H5'	2.17	0.45
1:BA:1227:A:N1	1:BA:1228:C:O2	2.50	0.45
1:BA:1422:G:N1	1:BA:1423:G:C5	2.85	0.45
2:BB:93:HIS:HB2	2:BB:145:ASN:O	2.17	0.45
3:BC:5:HIS:HE1	3:BC:183:TYR:HD2	1.63	0.45
3:BC:86:LEU:O	3:BC:87:ARG:C	2.60	0.45
7:BG:75:LYS:O	7:BG:86:VAL:HG23	2.17	0.45
8:BH:10:LEU:HD13	8:BH:74:ILE:HG13	1.99	0.45
8:BH:29:SER:O	8:BH:32:LYS:N	2.50	0.45
9:BI:24:ASN:HB3	9:BI:58:GLU:OE1	2.17	0.45
9:BI:27:ILE:HG23	9:BI:62:LEU:CG	2.45	0.45
10:BJ:35:GLN:C	10:BJ:36:VAL:HG23	2.42	0.45
12:BL:21:PRO:C	12:BL:23:LEU:N	2.74	0.45
13:BM:6:ILE:O	13:BM:7:ASN:C	2.59	0.45
13:BM:109:LYS:O	13:BM:110:GLY:O	2.35	0.45
14:BN:53:ARG:O	14:BN:59:ARG:HD2	2.17	0.45
19:BS:48:ILE:O	19:BS:48:ILE:HD12	2.17	0.45
21:BU:7:GLU:C	21:BU:11:PHE:HE2	2.24	0.45
21:BU:11:PHE:O	21:BU:12:ASP:CB	2.65	0.45
25:CA:637:A:H4'	25:CA:638:G:O5'	2.17	0.45
25:CA:703:U:C2'	25:CA:704:G:H5'	2.46	0.45
25:CA:717:C:C2'	25:CA:718:A:H5'	2.46	0.45
25:CA:924:G:O2'	25:CA:925:A:H5'	2.17	0.45
25:CA:1069:A:H4'	25:CA:1070:A:C8	2.50	0.45
25:CA:1421:G:H2'	25:CA:1422:G:O5'	2.17	0.45
25:CA:1726:C:O2'	25:CA:1727:C:H5'	2.17	0.45
25:CA:1901:A:OP2	27:CC:252:LYS:HD2	2.17	0.45
25:CA:2107:G:N2	25:CA:2108:A:H1'	2.32	0.45
25:CA:2139:U:C2'	25:CA:2140:G:H5'	2.47	0.45
25:CA:2172:U:OP2	25:CA:2173:A:H5"	2.16	0.45
25:CA:2331:G:N2	25:CA:2385:C:C5	2.85	0.45
25:CA:2415:G:C2'	25:CA:2416:C:O5'	2.65	0.45
25:CA:2651:C:O2'	25:CA:2652:C:H5'	2.17	0.45
25:CA:2800:A:C3'	25:CA:2801:G:C5'	2.91	0.45
26:CB:112:G:H2'	26:CB:113:C:H6	1.80	0.45
27:CC:234:GLY:HA2	27:CC:238:ASN:HB2	1.98	0.45
28:CD:131:ASP:C	28:CD:133:THR:H	2.25	0.45
28:CD:172:VAL:CG2	28:CD:194:PRO:HD3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:54:GLY:N	29:CE:74:LYS:HE2	2.32	0.45
29:CE:60:TRP:O	29:CE:61:ARG:O	2.35	0.45
30:CF:56:LEU:CD1	30:CF:86:CYS:O	2.65	0.45
30:CF:147:ARG:HG2	30:CF:148:VAL:N	2.32	0.45
33:CI:107:GLU:CA	33:CI:110:GLN:HB3	2.40	0.45
35:CK:13:ASN:HD22	35:CK:98:ARG:CB	2.30	0.45
37:CM:50:ARG:HG2	37:CM:51:ARG:N	2.31	0.45
39:CO:67:ASN:O	39:CO:68:LYS:C	2.57	0.45
41:CQ:29:ARG:HE	51:C0:9:ARG:HH11	1.63	0.45
46:CV:78:GLN:O	46:CV:87:GLN:HB2	2.17	0.45
25:DA:54:G:H2'	25:DA:55:G:O5'	2.17	0.45
25:DA:303:G:H2'	25:DA:304:U:C6	2.51	0.45
25:DA:404:A:C1'	25:DA:405:U:P	3.04	0.45
25:DA:1011:G:C2	25:DA:1013:C:O2	2.70	0.45
25:DA:1071:G:N7	25:DA:1089:A:C6	2.85	0.45
25:DA:1606:C:H3'	25:DA:1606:C:C6	2.51	0.45
25:DA:1717:A:H2'	25:DA:1718:G:H5'	1.98	0.45
25:DA:1993:U:H4'	28:DD:133:THR:CG2	2.37	0.45
25:DA:2007:U:C2'	25:DA:2008:C:O5'	2.65	0.45
25:DA:2043:C:N3	25:DA:2777:G:C2	2.85	0.45
25:DA:2304:G:H4'	30:DF:128:SER:C	2.42	0.45
25:DA:2476:A:C2'	25:DA:2477:U:H5'	2.47	0.45
25:DA:2702:G:H2'	25:DA:2703:C:C6	2.52	0.45
25:DA:2884:U:O2	25:DA:2884:U:C3'	2.65	0.45
56:DB:4:C:H2'	56:DB:5:U:C6	2.51	0.45
56:DB:34:A:O4'	56:DB:35:C:H5	2.00	0.45
27:DC:116:GLN:HG2	27:DC:117:SER:N	2.32	0.45
27:DC:236:GLY:O	27:DC:237:ARG:HG3	2.17	0.45
30:DF:27:VAL:O	30:DF:28:PRO:O	2.34	0.45
30:DF:89:THR:O	30:DF:90:LEU:HD23	2.17	0.45
31:DG:109:SER:O	31:DG:110:HIS:CB	2.65	0.45
32:DH:62:LEU:C	32:DH:62:LEU:HD22	2.42	0.45
37:DM:34:LYS:HD3	37:DM:99:GLY:HA2	1.99	0.45
37:DM:105:MET:HG2	37:DM:106:ASP:N	2.32	0.45
39:DO:34:HIS:HB3	39:DO:36:TYR:HE2	1.81	0.45
39:DO:51:ALA:HB1	39:DO:77:ALA:CB	2.47	0.45
44:DT:44:LYS:O	44:DT:45:ALA:C	2.59	0.45
46:DV:66:ASP:C	46:DV:68:LYS:H	2.24	0.45
57:DW:32:ILE:HG23	57:DW:54:THR:CG2	2.47	0.45
49:DY:33:ALA:C	49:DY:35:GLY:N	2.75	0.45
49:DY:35:GLY:C	49:DY:36:GLN:HG2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DZ:35:VAL:CG2	50:DZ:37:ARG:NH2	2.79	0.45
52:D1:39:ASP:HA	52:D1:48:TYR:OH	2.16	0.45
55:D4:16:ILE:O	55:D4:16:ILE:HG22	2.17	0.45
1:AA:189:A:O2'	1:AA:190:A:H5'	2.16	0.45
1:AA:375:U:C2	1:AA:376:G:C8	3.05	0.45
1:AA:462:G:N7	1:AA:463:U:C5	2.84	0.45
1:AA:550:G:C5	1:AA:551:U:C5	3.05	0.45
1:AA:623:C:C2'	1:AA:624:C:H5'	2.46	0.45
1:AA:657:U:O2	1:AA:657:U:C2'	2.62	0.45
1:AA:854:U:H2'	1:AA:855:U:H6	1.82	0.45
1:AA:858:G:O2'	1:AA:859:G:C5'	2.65	0.45
1:AA:938:A:N6	1:AA:939:G:C6	2.85	0.45
1:AA:979:C:P	1:AA:981:U:O4	2.75	0.45
1:AA:981:U:C2	1:AA:982:U:C5	3.04	0.45
1:AA:1210:C:O4'	1:AA:1214:C:H5	2.00	0.45
1:AA:1414:U:O2	1:AA:1414:U:H2'	2.16	0.45
3:AC:119:ILE:O	3:AC:121:SER:N	2.50	0.45
3:AC:159:ALA:C	3:AC:161:ILE:H	2.25	0.45
4:AD:101:VAL:CG1	4:AD:113:ALA:HB1	2.46	0.45
6:AF:24:ARG:O	6:AF:27:ALA:HB3	2.17	0.45
7:AG:73:GLU:HA	7:AG:140:VAL:HG12	1.98	0.45
8:AH:40:LYS:NZ	8:AH:47:ASP:OD2	2.49	0.45
9:AI:35:GLU:HA	9:AI:39:GLY:CA	2.47	0.45
9:AI:88:GLU:C	9:AI:90:ASP:H	2.25	0.45
11:AK:41:LEU:CB	11:AK:76:TYR:HE2	2.29	0.45
13:AM:35:ALA:HB3	13:AM:58:GLU:OE1	2.17	0.45
13:AM:55:LEU:O	13:AM:58:GLU:N	2.50	0.45
14:AN:7:ALA:HA	14:AN:10:VAL:HG23	1.99	0.45
14:AN:50:THR:H	14:AN:51:LEU:HD23	1.81	0.45
14:AN:90:ARG:HB3	14:AN:92:GLU:CG	2.47	0.45
15:AO:6:ALA:O	15:AO:10:ILE:CD1	2.64	0.45
19:AS:34:SER:O	19:AS:35:ARG:C	2.59	0.45
20:AT:53:MET:O	20:AT:54:GLN:C	2.60	0.45
24:AY:5:ASP:O	24:AY:8:LYS:HB2	2.17	0.45
1:BA:135:C:O2	16:BP:1:MET:HB2	2.16	0.45
1:BA:631:C:H3'	1:BA:632:U:H5'	1.99	0.45
1:BA:684:U:C3'	1:BA:685:G:H5'	2.46	0.45
1:BA:686:U:O2	1:BA:687:A:N7	2.50	0.45
1:BA:694:A:C2'	1:BA:695:A:O5'	2.65	0.45
1:BA:763:G:C2'	1:BA:764:C:O5'	2.65	0.45
1:BA:916:U:C2'	1:BA:917:G:H5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1060:U:O2'	1:BA:1061:G:C5'	2.64	0.45
1:BA:1117:A:H4'	9:BI:105:ARG:NE	2.32	0.45
1:BA:1202:U:H1'	14:BN:69:ARG:HD2	1.98	0.45
2:BB:143:LEU:HB2	2:BB:147:LEU:HD12	1.99	0.45
2:BB:175:ALA:HB1	2:BB:180:ILE:HB	1.97	0.45
2:BB:183:PHE:N	2:BB:183:PHE:CD2	2.85	0.45
3:BC:82:ASP:O	3:BC:85:LYS:CG	2.65	0.45
3:BC:120:THR:HG22	3:BC:121:SER:N	2.32	0.45
4:BD:3:TYR:CZ	4:BD:5:GLY:HA3	2.51	0.45
4:BD:109:THR:O	4:BD:110:ARG:C	2.60	0.45
4:BD:113:ALA:O	4:BD:116:LEU:HB2	2.17	0.45
4:BD:196:GLU:O	4:BD:197:HIS:C	2.59	0.45
5:BE:103:GLY:CA	5:BE:121:ASN:HA	2.41	0.45
6:BF:47:LEU:H	6:BF:56:LYS:H	1.64	0.45
7:BG:79:VAL:O	7:BG:80:GLY:C	2.60	0.45
9:BI:5:TYR:HD1	9:BI:20:ILE:O	2.00	0.45
9:BI:91:GLU:HA	9:BI:94:ARG:HB2	1.99	0.45
10:BJ:27:GLU:HA	10:BJ:30:LYS:CG	2.45	0.45
12:BL:116:TYR:O	12:BL:117:GLY:C	2.60	0.45
14:BN:101:TRP:N	14:BN:101:TRP:CE3	2.85	0.45
15:BO:69:LEU:HD13	15:BO:77:TYR:CB	2.47	0.45
19:BS:12:LEU:CD2	19:BS:16:LYS:HE3	2.46	0.45
25:CA:27:G:C4	25:CA:512:G:N2	2.85	0.45
25:CA:137:U:H2'	25:CA:140:C:N1	2.32	0.45
25:CA:825:A:H2'	25:CA:826:U:O4'	2.17	0.45
25:CA:911:A:C5	37:CM:9:PHE:CD2	3.05	0.45
25:CA:1107:G:C5	25:CA:1108:U:C5	3.05	0.45
25:CA:1378:A:H4'	25:CA:1379:U:OP1	2.16	0.45
25:CA:1407:G:C2	25:CA:1596:A:C2	3.05	0.45
25:CA:1494:A:N1	25:CA:1495:A:C4	2.85	0.45
25:CA:1494:A:N1	25:CA:1495:A:N3	2.65	0.45
25:CA:1807:G:H2'	25:CA:1809:A:N7	2.32	0.45
25:CA:1931:U:H5'	25:CA:1931:U:H6	1.81	0.45
25:CA:2023:C:O2'	25:CA:2024:G:H5'	2.16	0.45
25:CA:2144:G:O2'	25:CA:2145:C:H5	2.00	0.45
25:CA:2146:C:C5'	25:CA:2147:A:OP1	2.62	0.45
25:CA:2732:G:H3'	25:CA:2733:A:C5'	2.47	0.45
26:CB:99:A:C6	26:CB:100:G:C4	3.05	0.45
27:CC:7:PRO:CB	27:CC:13:ARG:HB2	2.47	0.45
27:CC:123:ILE:CD1	27:CC:129:LEU:HD11	2.47	0.45
30:CF:129:MET:HG3	30:CF:153:ILE:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:129:MET:HB2	30:CF:129:MET:HE3	1.70	0.45
31:CG:1:SER:C	31:CG:3:VAL:N	2.70	0.45
31:CG:59:ASP:HB2	31:CG:62:ALA:HB3	1.98	0.45
31:CG:114:HIS:CD2	31:CG:147:LEU:CD2	2.99	0.45
31:CG:122:ALA:HB2	31:CG:132:LEU:HA	1.99	0.45
31:CG:124:CYS:C	31:CG:126:THR:N	2.74	0.45
32:CH:69:ALA:HB2	32:CH:134:VAL:HG11	1.99	0.45
32:CH:72:ILE:CD1	32:CH:140:ALA:O	2.65	0.45
33:CI:72:THR:HB	33:CI:73:PRO:HD2	1.98	0.45
33:CI:102:ARG:HG2	33:CI:103:ALA:N	2.32	0.45
36:CL:19:LEU:CD2	36:CL:31:GLY:O	2.64	0.45
36:CL:30:THR:O	36:CL:32:GLY:N	2.50	0.45
42:CR:83:TYR:CD1	42:CR:83:TYR:C	2.95	0.45
42:CR:102:SER:C	42:CR:103:ALA:O	2.59	0.45
44:CT:12:ARG:HD2	44:CT:12:ARG:N	2.32	0.45
44:CT:30:ILE:HG23	44:CT:85:VAL:HB	1.98	0.45
45:CU:84:PHE:O	45:CU:85:ARG:HB3	2.16	0.45
46:CV:40:ILE:HD13	46:CV:40:ILE:HA	1.71	0.45
49:CY:24:GLU:OE1	49:CY:24:GLU:HA	2.17	0.45
25:DA:60:G:C4	25:DA:74:A:C2	3.05	0.45
25:DA:182:A:C6	25:DA:183:C:N3	2.85	0.45
25:DA:230:G:C2	25:DA:231:A:C5	3.05	0.45
25:DA:233:A:H2'	25:DA:234:U:O4'	2.17	0.45
25:DA:415:A:C2	25:DA:2409:G:C2	3.05	0.45
25:DA:934:U:H2'	25:DA:935:C:H6	1.81	0.45
25:DA:1052:C:O5'	25:DA:1052:C:H6	1.99	0.45
25:DA:1069:A:O2'	25:DA:1070:A:H5"	2.16	0.45
25:DA:1095:A:C5	25:DA:1096:A:C2	3.05	0.45
25:DA:1097:U:C2'	25:DA:1098:A:H5'	2.47	0.45
25:DA:1183:U:H2'	25:DA:1184:U:C6	2.51	0.45
25:DA:1429:G:C2	25:DA:1568:G:N2	2.84	0.45
25:DA:1441:G:C4	25:DA:1442:U:C5	3.05	0.45
25:DA:1492:G:H2'	25:DA:1493:C:OP1	2.16	0.45
25:DA:1588:G:H3'	25:DA:1589:U:C6	2.51	0.45
25:DA:1747:U:C2	25:DA:1748:C:C5	3.05	0.45
25:DA:2020:A:H5'	51:D0:8:THR:CG2	2.47	0.45
25:DA:2098:U:C2	25:DA:2099:U:C6	3.05	0.45
25:DA:2118:U:H5'	25:DA:2119:A:OP1	2.16	0.45
25:DA:2161:C:O2	25:DA:2161:C:H2'	2.17	0.45
25:DA:2259:U:H2'	25:DA:2260:C:H6	1.82	0.45
25:DA:2756:U:H4'	25:DA:2757:A:O5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2766:A:H2'	25:DA:2766:A:N3	2.31	0.45
56:DB:54:G:H21	56:DB:55:U:H1'	1.82	0.45
28:DD:13:ARG:O	28:DD:14:ILE:HD13	2.17	0.45
30:DF:53:ALA:O	30:DF:54:ALA:C	2.59	0.45
30:DF:116:LEU:O	30:DF:176:PHE:HA	2.17	0.45
30:DF:130:GLY:HA2	30:DF:152:ASP:HB3	1.99	0.45
31:DG:30:GLY:C	31:DG:78:VAL:HG11	2.41	0.45
31:DG:112:VAL:HG21	31:DG:150:TYR:CE2	2.52	0.45
32:DH:38:PRO:O	32:DH:40:THR:HG23	2.16	0.45
32:DH:63:ALA:HB1	32:DH:66:ASN:HB2	1.99	0.45
32:DH:135:HIS:CD2	32:DH:138:VAL:HG23	2.52	0.45
33:DI:107:GLU:C	33:DI:108:ILE:HG13	2.42	0.45
36:DL:85:VAL:HG12	36:DL:95:LEU:HD23	1.99	0.45
37:DM:42:THR:O	37:DM:45:GLN:HB2	2.16	0.45
40:DP:50:ARG:HG2	40:DP:50:ARG:O	2.17	0.45
43:DS:60:HIS:ND1	43:DS:61:ASN:N	2.65	0.45
44:DT:51:PHE:HB3	44:DT:53:VAL:HG22	1.99	0.45
44:DT:67:VAL:HG22	44:DT:76:ARG:HD2	1.98	0.45
45:DU:73:ASN:OD1	45:DU:76:THR:HG23	2.17	0.45
45:DU:82:VAL:CG1	45:DU:83:GLY:N	2.79	0.45
46:DV:25:LYS:O	46:DV:26:PHE:HB3	2.17	0.45
46:DV:64:VAL:C	46:DV:65:VAL:HG12	2.41	0.45
54:D3:15:LYS:HD2	54:D3:20:GLY:O	2.17	0.45
1:AA:213:G:H2'	1:AA:214:C:H5'	1.99	0.45
1:AA:233:C:H2'	1:AA:234:C:C6	2.52	0.45
1:AA:508:U:H4'	1:AA:509:A:OP1	2.17	0.45
1:AA:553:A:O2'	12:AL:25:ALA:HB1	2.17	0.45
1:AA:696:A:H2'	1:AA:697:U:H6	1.82	0.45
1:AA:757:U:H5"	1:AA:822:U:O2	2.17	0.45
1:AA:1025:U:OP2	1:AA:1025:U:C6	2.70	0.45
1:AA:1163:A:H2'	1:AA:1164:G:C8	2.52	0.45
1:AA:1188:A:H2'	1:AA:1189:U:O4'	2.17	0.45
1:AA:1335:U:H5"	1:AA:1336:C:H5'	1.99	0.45
1:AA:1504:G:OP2	1:AA:1507:A:O2'	2.28	0.45
2:AB:65:LYS:HE3	2:AB:158:ASP:OD2	2.18	0.45
2:AB:142:LYS:C	2:AB:144:GLU:N	2.74	0.45
3:AC:84:GLU:HA	3:AC:87:ARG:NH2	2.31	0.45
4:AD:157:ALA:O	4:AD:160:LEU:HD22	2.17	0.45
4:AD:193:ASP:C	4:AD:194:ILE:CG2	2.90	0.45
5:AE:40:ASP:O	5:AE:42:ASN:HB2	2.17	0.45
5:AE:67:ARG:C	5:AE:68:ARG:O	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:140:ILE:O	5:AE:143:LEU:HB2	2.16	0.45
7:AG:100:MET:O	7:AG:101:ARG:C	2.60	0.45
8:AH:88:LYS:HG3	8:AH:89:ASP:H	1.82	0.45
8:AH:101:ALA:O	8:AH:102:VAL:C	2.59	0.45
9:AI:105:ARG:CD	9:AI:105:ARG:C	2.90	0.45
11:AK:84:MET:HE2	11:AK:112:VAL:HG11	1.99	0.45
13:AM:39:ALA:O	13:AM:41:ASP:N	2.50	0.45
19:AS:58:PRO:C	19:AS:59:VAL:HG23	2.42	0.45
21:AU:28:LEU:O	21:AU:28:LEU:CD2	2.63	0.45
24:AY:25:ILE:HG23	24:AY:179:LYS:NZ	2.31	0.45
1:BA:55:A:H2'	1:BA:56:U:H6	1.81	0.45
1:BA:189:A:N1	1:BA:190:A:N3	2.65	0.45
1:BA:307:C:O5'	1:BA:307:C:H6	2.00	0.45
1:BA:462:G:C5	1:BA:463:U:C5	3.05	0.45
1:BA:484:G:C4'	1:BA:485:U:O5'	2.48	0.45
1:BA:502:A:OP1	12:BL:114:SER:HB2	2.17	0.45
1:BA:554:A:H2'	1:BA:555:U:C6	2.51	0.45
1:BA:673:A:C2'	1:BA:674:G:O4'	2.65	0.45
1:BA:740:U:O2'	1:BA:741:G:H5'	2.16	0.45
1:BA:818:G:O2'	1:BA:819:A:H5'	2.16	0.45
1:BA:1110:A:P	60:BA:1857:HOH:O	2.75	0.45
1:BA:1251:A:C2'	1:BA:1252:A:O5'	2.65	0.45
1:BA:1342:C:H1'	9:BI:125:GLN:CG	2.47	0.45
3:BC:63:ILE:HG12	3:BC:65:VAL:CG2	2.46	0.45
3:BC:63:ILE:HG12	3:BC:65:VAL:HG23	1.98	0.45
5:BE:75:LEU:HD23	5:BE:119:VAL:HG13	1.99	0.45
6:BF:21:MET:HA	6:BF:24:ARG:HB2	2.00	0.45
9:BI:118:ARG:O	9:BI:119:LYS:CB	2.62	0.45
12:BL:2:THR:C	12:BL:4:ASN:N	2.75	0.45
12:BL:89:LEU:CB	12:BL:92:VAL:CG2	2.94	0.45
13:BM:42:VAL:HG23	13:BM:42:VAL:O	2.16	0.45
15:BO:73:ASP:O	15:BO:74:VAL:C	2.59	0.45
19:BS:10:ILE:HD11	19:BS:15:LEU:CB	2.46	0.45
19:BS:63:ASP:HB3	19:BS:64:GLU:OE1	2.17	0.45
20:BT:2:ASN:O	20:BT:4:LYS:N	2.49	0.45
25:CA:707:G:O6	25:CA:724:U:C2	2.70	0.45
25:CA:1339:G:N2	25:CA:1603:A:N3	2.64	0.45
25:CA:1425:G:O2'	25:CA:1426:G:H5'	2.17	0.45
25:CA:1818:U:H2'	27:CC:155:ARG:HD2	1.99	0.45
25:CA:2337:G:H2'	25:CA:2337:G:N3	2.32	0.45
25:CA:2571:U:C2'	25:CA:2572:A:OP1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2658:C:O2	25:CA:2658:C:C2'	2.59	0.45
27:CC:30:ALA:HB3	27:CC:31:PRO:HD3	1.98	0.45
27:CC:97:ASP:OD1	27:CC:97:ASP:C	2.59	0.45
27:CC:211:ARG:HA	27:CC:211:ARG:HD2	1.55	0.45
28:CD:62:LYS:N	28:CD:63:PRO:CD	2.79	0.45
29:CE:12:LEU:C	29:CE:12:LEU:CD2	2.90	0.45
32:CH:6:LEU:CD1	32:CH:37:VAL:HG12	2.46	0.45
39:CO:74:VAL:O	39:CO:78:VAL:CG2	2.65	0.45
42:CR:40:MET:HA	42:CR:54:VAL:HG21	1.99	0.45
44:CT:30:ILE:HG12	44:CT:31:VAL:N	2.31	0.45
45:CU:80:ASP:OD1	45:CU:95:PHE:HD2	2.00	0.45
45:CU:82:VAL:HG13	45:CU:93:ARG:HB3	1.99	0.45
50:CZ:46:MET:O	50:CZ:47:ILE:C	2.60	0.45
51:C0:24:VAL:HG13	51:C0:25:THR:N	2.31	0.45
54:C3:36:ALA:O	54:C3:40:LYS:HG3	2.16	0.45
25:DA:65:U:H2'	25:DA:66:C:C6	2.43	0.45
25:DA:230:G:O2'	25:DA:231:A:H5'	2.17	0.45
25:DA:558:U:P	34:DJ:113:PRO:HD2	2.56	0.45
25:DA:565:C:H2'	25:DA:566:U:O4'	2.17	0.45
25:DA:588:U:H1'	29:DE:85:PHE:CD1	2.52	0.45
25:DA:729:G:C5	27:DC:206:LYS:HB2	2.52	0.45
25:DA:854:C:O2'	25:DA:855:G:H5'	2.17	0.45
25:DA:900:A:C2	25:DA:901:C:N1	2.84	0.45
25:DA:1012:U:O4	34:DJ:30:THR:HG21	2.17	0.45
25:DA:1132:U:O2'	25:DA:1133:A:H5'	2.17	0.45
25:DA:1340:U:H4'	25:DA:1341:G:OP2	2.17	0.45
25:DA:1346:G:H2'	25:DA:1347:A:O5'	2.16	0.45
25:DA:1354:A:C8	25:DA:1354:A:H3'	2.52	0.45
25:DA:1388:G:C2'	25:DA:1389:G:H5'	2.47	0.45
25:DA:1440:U:H2'	25:DA:1441:G:C8	2.52	0.45
25:DA:1586:A:N7	25:DA:1587:G:C8	2.85	0.45
25:DA:1825:U:H2'	25:DA:1826:G:C8	2.52	0.45
25:DA:1918:A:O2'	25:DA:1920:C:C4	2.70	0.45
25:DA:2208:C:H2'	25:DA:2208:C:O2	2.16	0.45
25:DA:2796:U:O2'	25:DA:2797:U:H2'	2.17	0.45
25:DA:2838:G:H1'	38:DN:45:ARG:NH1	2.32	0.45
56:DB:28:C:O2'	56:DB:29:A:H5'	2.17	0.45
56:DB:97:C:H2'	56:DB:98:G:O5'	2.17	0.45
27:DC:251:THR:HG22	27:DC:252:LYS:H	1.80	0.45
28:DD:125:TRP:O	28:DD:126:ASN:HB2	2.17	0.45
29:DE:101:TYR:O	29:DE:102:ARG:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DF:19:PHE:O	30:DF:20:ASN:ND2	2.50	0.45
31:DG:66:THR:O	31:DG:69:ALA:HB3	2.17	0.45
31:DG:167:VAL:O	31:DG:167:VAL:HG13	2.16	0.45
33:DI:5:GLN:O	33:DI:6:ALA:CB	2.65	0.45
33:DI:96:LYS:HD2	33:DI:96:LYS:N	2.31	0.45
36:DL:131:ALA:O	36:DL:132:ARG:C	2.60	0.45
38:DN:24:MET:HE3	38:DN:44:LEU:HD13	1.98	0.45
38:DN:51:LEU:CD1	38:DN:70:THR:CG2	2.95	0.45
42:DR:43:ASN:HB3	42:DR:44:GLY:H	1.62	0.45
46:DV:4:ILE:HB	46:DV:63:ILE:HG12	1.99	0.45
46:DV:60:VAL:CG1	46:DV:61:LEU:N	2.79	0.45
53:D2:34:ARG:HB2	53:D2:42:LEU:CD1	2.47	0.45
54:D3:14:LYS:HB3	54:D3:22:LYS:CE	2.47	0.45
1:AA:211:G:H3'	1:AA:211:G:N3	2.32	0.44
1:AA:315:A:OP1	60:AA:1709:HOH:O	2.21	0.44
1:AA:588:G:C6	1:AA:589:U:N3	2.84	0.44
1:AA:588:G:C6	1:AA:589:U:C2	3.05	0.44
1:AA:675:A:C2'	1:AA:676:A:O5'	2.65	0.44
1:AA:767:A:H2'	1:AA:768:A:O4'	2.16	0.44
1:AA:1039:G:C2'	1:AA:1040:U:O5'	2.65	0.44
1:AA:1047:G:H2'	1:AA:1048:G:H5'	1.98	0.44
1:AA:1377:A:C2	7:AG:6:ILE:HD11	2.52	0.44
2:AB:135:MET:CA	2:AB:138:ARG:HG2	2.47	0.44
3:AC:71:ARG:HB3	3:AC:74:ILE:CG2	2.47	0.44
3:AC:147:GLY:HA3	3:AC:171:ARG:H	1.82	0.44
5:AE:68:ARG:O	5:AE:69:ASN:C	2.60	0.44
6:AF:51:ILE:CG1	6:AF:52:ASN:HB2	2.47	0.44
7:AG:101:ARG:O	7:AG:102:TRP:C	2.58	0.44
8:AH:39:LEU:HD23	8:AH:39:LEU:HA	1.79	0.44
9:AI:95:SER:C	9:AI:98:ARG:HB2	2.41	0.44
10:AJ:17:LEU:HA	10:AJ:20:GLN:HB2	1.99	0.44
10:AJ:40:ILE:HG13	10:AJ:41:PRO:HD2	1.98	0.44
14:AN:13:VAL:HA	14:AN:16:ALA:HB2	1.98	0.44
14:AN:14:ALA:O	14:AN:18:LYS:HG3	2.17	0.44
17:AQ:11:VAL:HG12	17:AQ:12:VAL:H	1.80	0.44
17:AQ:59:GLU:HG2	17:AQ:75:VAL:CG2	2.47	0.44
24:AY:156:ARG:HH21	24:AY:159:ASP:HB3	1.82	0.44
1:BA:71:A:N3	1:BA:100:G:C4	2.86	0.44
1:BA:159:G:C8	1:BA:159:G:C5'	3.00	0.44
1:BA:181:A:N1	1:BA:195:A:C5	2.85	0.44
1:BA:247:G:C5	1:BA:278:G:N2	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:337:G:C6	1:BA:338:A:N6	2.85	0.44
1:BA:424:G:C2	1:BA:425:G:C4	3.05	0.44
1:BA:462:G:C5	1:BA:463:U:H6	2.34	0.44
1:BA:592:G:C6	1:BA:593:U:N3	2.84	0.44
1:BA:676:A:C2	1:BA:677:U:C2	3.05	0.44
1:BA:728:A:C8	15:BO:53:ARG:CZ	3.00	0.44
1:BA:923:A:H2'	1:BA:924:C:O4'	2.17	0.44
1:BA:941:G:C6	1:BA:1343:G:N1	2.85	0.44
1:BA:954:G:C2	1:BA:955:U:C2	3.05	0.44
1:BA:1115:U:H5'	10:BJ:68:ARG:HH22	1.81	0.44
1:BA:1399:C:N3	1:BA:1401:G:C2	2.85	0.44
3:BC:11:LEU:O	3:BC:13:ILE:N	2.50	0.44
3:BC:149:LYS:HB3	3:BC:168:ARG:CB	2.47	0.44
3:BC:152:VAL:HA	3:BC:197:VAL:HG22	1.99	0.44
4:BD:30:LYS:N	4:BD:30:LYS:CD	2.81	0.44
4:BD:144:ILE:HD12	4:BD:144:ILE:H	1.81	0.44
4:BD:173:ASP:O	4:BD:174:ALA:CB	2.64	0.44
6:BF:16:GLU:C	6:BF:18:VAL:N	2.75	0.44
9:BI:101:GLY:O	9:BI:103:VAL:N	2.49	0.44
10:BJ:19:ASP:HA	10:BJ:22:THR:CG2	2.48	0.44
12:BL:113:ARG:HB3	12:BL:118:VAL:HB	1.99	0.44
13:BM:6:ILE:HD11	30:DF:111:ARG:HD3	1.98	0.44
14:BN:41:ARG:O	14:BN:42:TRP:C	2.60	0.44
20:BT:54:GLN:N	20:BT:55:PRO:HD2	2.31	0.44
22:BV:61:C:H2'	22:BV:62:C:H6	1.82	0.44
25:CA:634:C:H2'	25:CA:635:C:O4'	2.17	0.44
25:CA:704:G:H1'	25:CA:726:G:N2	2.32	0.44
25:CA:707:G:N2	25:CA:708:G:H1'	2.32	0.44
25:CA:892:A:H2	25:CA:893:C:C6	2.34	0.44
25:CA:978:G:H2'	25:CA:979:A:C5'	2.46	0.44
25:CA:1373:A:H2'	25:CA:1374:G:O4'	2.16	0.44
25:CA:1408:G:O2'	25:CA:1409:U:H5'	2.16	0.44
25:CA:1724:G:C6	25:CA:1725:U:C4	3.05	0.44
25:CA:1875:G:H2'	25:CA:1876:A:OP2	2.17	0.44
25:CA:1889:A:H2'	25:CA:1890:A:O5'	2.17	0.44
25:CA:2091:C:O3'	48:CX:55:MET:HE1	2.16	0.44
25:CA:2124:G:H2'	25:CA:2125:G:O4'	2.17	0.44
25:CA:2142:A:H2'	25:CA:2143:C:H6	1.79	0.44
25:CA:2186:G:C4	25:CA:2187:U:C5	3.05	0.44
25:CA:2408:U:H2'	25:CA:2409:G:C8	2.52	0.44
25:CA:2550:G:O2'	25:CA:2551:C:H5'	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2703:C:C2	25:CA:2704:C:C5	3.05	0.44
26:CB:28:C:H2'	26:CB:29:A:O4'	2.17	0.44
26:CB:43:C:O2'	30:CF:91:ARG:HG3	2.17	0.44
26:CB:78:A:H61	26:CB:98:G:C2'	2.30	0.44
28:CD:49:GLN:OE1	28:CD:67:HIS:HE1	1.99	0.44
30:CF:69:ALA:CB	30:CF:82:TYR:O	2.65	0.44
30:CF:108:PRO:C	30:CF:110:ILE:H	2.24	0.44
32:CH:50:ARG:HA	32:CH:50:ARG:NH1	2.33	0.44
33:CI:104:GLN:O	33:CI:105:LEU:HB2	2.17	0.44
35:CK:77:ILE:N	35:CK:77:ILE:HD13	2.31	0.44
36:CL:99:ASN:O	36:CL:99:ASN:ND2	2.50	0.44
38:CN:8:ARG:HD2	38:CN:43:GLU:CG	2.47	0.44
25:DA:9:G:C6	25:DA:2629:U:C6	3.06	0.44
25:DA:126:A:C5	53:D2:18:PHE:CD2	3.05	0.44
25:DA:181:A:C2	25:DA:435:C:C5	3.04	0.44
25:DA:229:C:C2'	25:DA:230:G:O5'	2.65	0.44
25:DA:443:A:N1	25:DA:1245:G:O2'	2.45	0.44
25:DA:575:A:H4'	25:DA:2500:U:H5"	2.00	0.44
25:DA:645:C:O2'	25:DA:645:C:O2	2.34	0.44
25:DA:648:G:O5'	25:DA:648:G:H8	2.01	0.44
25:DA:1071:G:C5	25:DA:1089:A:C6	3.05	0.44
25:DA:1203:U:C4	25:DA:1204:A:C5	3.05	0.44
25:DA:1334:G:C6	25:DA:1335:C:C4	3.05	0.44
25:DA:1372:U:C2'	25:DA:1373:A:C5'	2.95	0.44
25:DA:1432:G:N2	25:DA:1433:A:N3	2.66	0.44
25:DA:1458:U:C4'	25:DA:1459:G:O5'	2.57	0.44
25:DA:1490:A:N3	25:DA:1490:A:H2'	2.31	0.44
25:DA:1588:G:C2	25:DA:1589:U:N3	2.85	0.44
25:DA:1630:A:H2'	25:DA:1631:G:H5'	1.98	0.44
25:DA:1712:U:H2'	25:DA:1713:A:C8	2.51	0.44
25:DA:2133:G:N3	25:DA:2158:A:N1	2.64	0.44
25:DA:2562:U:O2	25:DA:2562:U:H2'	2.17	0.44
25:DA:2817:U:OP1	38:DN:99:LYS:CE	2.64	0.44
27:DC:129:LEU:HD12	27:DC:133:ASN:HB2	1.98	0.44
27:DC:152:GLN:C	27:DC:153:LEU:HD23	2.42	0.44
27:DC:215:VAL:O	27:DC:215:VAL:CG1	2.65	0.44
30:DF:7:TYR:CA	30:DF:11:VAL:HB	2.44	0.44
30:DF:135:ILE:C	30:DF:137:PHE:H	2.26	0.44
31:DG:51:PHE:CD2	31:DG:68:ARG:HA	2.52	0.44
31:DG:85:LYS:C	31:DG:86:LEU:HD12	2.42	0.44
31:DG:106:LEU:HD21	31:DG:161:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DG:139:VAL:O	31:DG:142:GLN:HB3	2.17	0.44
32:DH:143:ILE:HG22	32:DH:144:VAL:N	2.31	0.44
33:DI:13:ALA:C	33:DI:15:GLY:N	2.75	0.44
34:DJ:105:VAL:HG11	34:DJ:122:LEU:CD2	2.47	0.44
35:DK:90:ASN:ND2	35:DK:90:ASN:H	2.14	0.44
37:DM:74:THR:HA	37:DM:88:ASN:O	2.17	0.44
38:DN:22:ARG:HG2	38:DN:23:ASN:N	2.33	0.44
40:DP:97:TYR:CD2	40:DP:100:ARG:NH2	2.84	0.44
44:DT:30:ILE:HD13	44:DT:31:VAL:N	2.33	0.44
45:DU:6:ARG:HG3	45:DU:7:ASP:H	1.82	0.44
1:AA:636:U:H5"	17:AQ:5:ARG:HG2	1.99	0.44
1:AA:676:A:H5"	11:AK:114:PRO:HB3	2.00	0.44
1:AA:721:G:H4'	1:AA:722:G:O4'	2.17	0.44
1:AA:918:A:H2'	1:AA:919:A:H8	1.78	0.44
1:AA:923:A:H8	1:AA:923:A:O5'	2.00	0.44
1:AA:1193:G:C2'	1:AA:1194:U:H5'	2.48	0.44
1:AA:1416:G:C2	1:AA:1485:U:O2	2.70	0.44
2:AB:53:LEU:HD12	2:AB:56:LEU:HD12	1.98	0.44
2:AB:57:ASN:HB2	2:AB:219:THR:O	2.18	0.44
2:AB:162:VAL:O	2:AB:184:ALA:HA	2.17	0.44
2:AB:184:ALA:HB3	2:AB:195:VAL:HG22	1.98	0.44
3:AC:79:LYS:O	3:AC:81:GLU:N	2.51	0.44
3:AC:140:ALA:H	3:AC:142:ARG:HB3	1.82	0.44
4:AD:96:ARG:HB3	4:AD:98:ASP:OD1	2.16	0.44
4:AD:119:HIS:C	4:AD:120:LYS:CG	2.91	0.44
5:AE:98:ALA:O	5:AE:100:GLU:N	2.50	0.44
6:AF:64:VAL:HG13	6:AF:65:GLU:N	2.31	0.44
6:AF:90:MET:O	6:AF:91:ARG:O	2.34	0.44
7:AG:65:LEU:O	7:AG:67:ASN:N	2.49	0.44
9:AI:25:GLY:N	9:AI:58:GLU:HG2	2.31	0.44
9:AI:96:GLU:CD	9:AI:96:GLU:H	2.24	0.44
10:AJ:58:ASN:C	10:AJ:60:ASP:H	2.24	0.44
13:AM:6:ILE:HG21	30:CF:144:LYS:HE3	2.00	0.44
13:AM:106:ARG:O	13:AM:107:THR:C	2.60	0.44
17:AQ:10:ARG:HH11	17:AQ:10:ARG:HG3	1.83	0.44
18:AR:71:ASP:OD1	18:AR:72:ARG:HG2	2.17	0.44
19:AS:63:ASP:HB3	30:CF:114:ARG:NH2	2.33	0.44
24:AY:56:ALA:CB	24:AY:70:VAL:HA	2.46	0.44
1:BA:16:A:O2'	1:BA:17:U:H5'	2.18	0.44
1:BA:85:U:H4'	1:BA:86:G:H5'	1.99	0.44
1:BA:503:C:O2	1:BA:510:A:H2	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:560:A:N7	1:BA:566:G:C5	2.84	0.44
1:BA:943:U:H2'	1:BA:944:G:H5'	1.99	0.44
1:BA:1032:G:N2	1:BA:1033:G:O4'	2.50	0.44
1:BA:1097:C:H5"	2:BB:138:ARG:HH21	1.81	0.44
1:BA:1120:C:H2'	1:BA:1121:U:C6	2.50	0.44
1:BA:1165:U:C2'	1:BA:1166:G:H5'	2.46	0.44
1:BA:1261:A:H5'	1:BA:1262:C:OP2	2.17	0.44
1:BA:1317:C:O2'	1:BA:1318:A:OP1	2.34	0.44
1:BA:1491:G:C2'	1:BA:1492:A:O5'	2.65	0.44
2:BB:71:THR:O	2:BB:72:LYS:HG3	2.17	0.44
2:BB:110:ILE:HD11	2:BB:147:LEU:HD22	2.00	0.44
3:BC:17:TRP:CZ2	14:BN:95:GLY:CA	2.97	0.44
4:BD:160:LEU:O	4:BD:163:GLN:N	2.49	0.44
5:BE:100:GLU:O	5:BE:102:THR:CA	2.64	0.44
5:BE:101:GLY:O	5:BE:102:THR:C	2.60	0.44
5:BE:148:SER:O	5:BE:151:MET:C	2.59	0.44
6:BF:88:MET:HG2	6:BF:90:MET:HG2	1.98	0.44
8:BH:48:PHE:O	8:BH:49:LYS:HB2	2.16	0.44
9:BI:5:TYR:HB2	9:BI:20:ILE:HG22	2.00	0.44
10:BJ:35:GLN:HG2	10:BJ:77:VAL:CB	2.47	0.44
11:BK:69:CYS:O	11:BK:73:VAL:CG1	2.65	0.44
13:BM:6:ILE:CG1	30:DF:111:ARG:HD3	2.46	0.44
17:BQ:10:ARG:NH2	17:BQ:12:VAL:N	2.65	0.44
21:BU:34:ARG:C	21:BU:35:GLU:O	2.61	0.44
25:CA:120:U:H4'	25:CA:121:G:H5"	1.99	0.44
25:CA:634:C:H2'	25:CA:635:C:C6	2.52	0.44
25:CA:1084:A:C2'	25:CA:1085:A:C8	3.00	0.44
25:CA:1386:C:H2'	25:CA:1387:A:C8	2.52	0.44
25:CA:2146:C:H4'	25:CA:2147:A:C8	2.51	0.44
25:CA:2216:G:H2'	25:CA:2217:G:H8	1.82	0.44
25:CA:2343:U:H2'	25:CA:2344:U:C5	2.51	0.44
25:CA:2644:G:C2'	25:CA:2645:G:H5'	2.47	0.44
25:CA:2658:C:O2	25:CA:2658:C:H2'	2.16	0.44
25:CA:2768:U:H2'	25:CA:2769:U:O5'	2.17	0.44
28:CD:4:LEU:HD23	28:CD:101:PHE:HE1	1.82	0.44
29:CE:136:GLN:HE22	29:CE:139:LYS:NZ	2.15	0.44
30:CF:107:VAL:HG12	30:CF:108:PRO:N	2.31	0.44
33:CI:57:VAL:HG23	33:CI:71:LYS:HZ1	1.79	0.44
33:CI:58:ILE:HA	33:CI:68:PHE:HB3	1.99	0.44
34:CJ:98:GLU:HB3	34:CJ:124:VAL:HG22	1.98	0.44
35:CK:77:ILE:HD12	40:CP:71:ARG:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CM:16:ARG:HG2	37:CM:16:ARG:NH1	2.23	0.44
37:CM:136:MET:HE3	46:CV:77:VAL:HG12	2.00	0.44
39:CO:55:GLU:HG3	39:CO:58:ILE:HG13	1.99	0.44
40:CP:32:VAL:HG12	40:CP:34:GLY:O	2.17	0.44
42:CR:51:VAL:CG2	42:CR:52:PRO:HD2	2.46	0.44
43:CS:7:HIS:CD2	43:CS:7:HIS:C	2.94	0.44
44:CT:18:GLU:O	44:CT:22:THR:HG23	2.17	0.44
44:CT:67:VAL:HG12	44:CT:68:LYS:N	2.32	0.44
25:DA:54:G:C2'	25:DA:55:G:O5'	2.66	0.44
25:DA:242:G:O2'	25:DA:254:G:O6	2.33	0.44
25:DA:501:A:N6	25:DA:502:A:C6	2.85	0.44
25:DA:609:A:C8	25:DA:610:C:C5	3.05	0.44
25:DA:636:G:OP2	36:DL:128:THR:HG22	2.17	0.44
25:DA:920:A:C2'	25:DA:921:C:O5'	2.65	0.44
25:DA:945:A:C4'	25:DA:946:C:OP2	2.66	0.44
25:DA:1043:C:C4	25:DA:1044:C:C5	3.05	0.44
25:DA:1383:A:N1	25:DA:1384:A:N1	2.65	0.44
25:DA:1403:A:H2'	25:DA:1404:C:H6	1.82	0.44
25:DA:1448:G:N1	25:DA:1449:G:C5	2.85	0.44
25:DA:1489:C:N3	25:DA:1501:G:C2	2.84	0.44
25:DA:1526:C:N3	25:DA:1527:G:C5	2.86	0.44
25:DA:1669:A:H2'	25:DA:1669:A:N3	2.32	0.44
25:DA:1676:A:N1	25:DA:1677:A:C2	2.85	0.44
25:DA:1750:G:C2'	25:DA:1751:U:O5'	2.65	0.44
25:DA:2093:G:C5	25:DA:2225:A:C8	3.05	0.44
25:DA:2110:G:C5	25:DA:2120:G:C8	3.05	0.44
25:DA:2111:U:H1'	25:DA:2118:U:O4'	2.17	0.44
25:DA:2407:A:C2	25:DA:2408:U:C5	3.05	0.44
25:DA:2685:G:C2	25:DA:2725:A:C2	3.05	0.44
25:DA:2702:G:C6	25:DA:2703:C:N4	2.85	0.44
56:DB:42:C:C6	30:DF:65:LEU:HD22	2.52	0.44
27:DC:119:VAL:HG13	27:DC:133:ASN:HD21	1.82	0.44
28:DD:112:THR:O	28:DD:113:SER:C	2.60	0.44
33:DI:13:ALA:C	33:DI:15:GLY:H	2.25	0.44
34:DJ:58:ASN:ND2	34:DJ:61:LYS:HD3	2.33	0.44
35:DK:13:ASN:OD1	35:DK:13:ASN:O	2.35	0.44
35:DK:105:ARG:O	35:DK:108:ARG:CB	2.66	0.44
36:DL:127:VAL:CG1	36:DL:131:ALA:HB3	2.42	0.44
37:DM:21:ALA:HB1	37:DM:100:LYS:CG	2.39	0.44
38:DN:27:SER:O	38:DN:31:HIS:HB2	2.17	0.44
39:DO:51:ALA:HB3	39:DO:78:VAL:CG2	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:105:ALA:C	39:DO:107:ALA:N	2.74	0.44
42:DR:42:ALA:HA	42:DR:46:GLU:CB	2.47	0.44
44:DT:27:SER:O	44:DT:28:ASN:HB2	2.17	0.44
44:DT:55:VAL:HG12	44:DT:55:VAL:O	2.17	0.44
45:DU:85:ARG:HG3	45:DU:92:VAL:HG23	1.97	0.44
46:DV:26:PHE:HD2	46:DV:44:HIS:HB2	1.81	0.44
1:AA:287:U:H2'	1:AA:288:A:C8	2.53	0.44
1:AA:452:A:H1'	16:AP:70:ARG:NH1	2.32	0.44
1:AA:496:A:C2	1:AA:497:G:N7	2.85	0.44
1:AA:749:A:N1	1:AA:750:C:N3	2.66	0.44
1:AA:1218:C:O2'	1:AA:1219:A:H5'	2.17	0.44
1:AA:1253:G:C2	1:AA:1254:A:C5	3.06	0.44
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.17	0.44
2:AB:87:ASP:C	2:AB:88:GLN:HG3	2.42	0.44
2:AB:130:LYS:HA	2:AB:130:LYS:CE	2.43	0.44
2:AB:134:LEU:HA	2:AB:137:THR:HG23	2.00	0.44
4:AD:54:LEU:HD23	4:AD:58:GLN:HB2	1.99	0.44
4:AD:55:ARG:NH2	4:AD:58:GLN:HG2	2.33	0.44
5:AE:100:GLU:CB	5:AE:121:ASN:CB	2.95	0.44
5:AE:150:GLU:C	5:AE:152:VAL:N	2.75	0.44
11:AK:22:ILE:CG1	11:AK:22:ILE:O	2.65	0.44
14:AN:1:ALA:HB3	14:AN:68:GLY:HA3	1.99	0.44
14:AN:64:CYS:HB2	14:AN:80:SER:CB	2.48	0.44
15:AO:88:ARG:NH1	25:CA:716:A:OP1	2.50	0.44
1:BA:22:G:H2'	1:BA:23:C:H6	1.82	0.44
1:BA:149:A:N1	1:BA:150:U:C2	2.86	0.44
1:BA:174:A:H2'	1:BA:175:C:C5'	2.48	0.44
1:BA:232:G:C5	1:BA:233:C:C5	3.05	0.44
1:BA:551:U:H5'	12:BL:115:LYS:HE2	2.00	0.44
1:BA:802:A:N3	1:BA:802:A:H2'	2.32	0.44
1:BA:953:G:O6	1:BA:1228:C:N4	2.50	0.44
1:BA:982:U:C4'	1:BA:983:A:H5'	2.44	0.44
1:BA:1027:C:N4	1:BA:1034:G:O6	2.50	0.44
1:BA:1072:G:C4	1:BA:1073:U:C5	3.04	0.44
1:BA:1227:A:N1	1:BA:1228:C:C2	2.86	0.44
1:BA:1239:A:N6	1:BA:1299:A:H62	2.16	0.44
1:BA:1244:G:N1	1:BA:1294:G:C6	2.86	0.44
1:BA:1360:A:C8	14:BN:58:SER:HB3	2.52	0.44
1:BA:1429:A:C4	1:BA:1430:A:C8	3.06	0.44
2:BB:40:ILE:HD12	2:BB:40:ILE:O	2.17	0.44
2:BB:58:LYS:O	2:BB:62:ARG:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:58:LYS:H	2:BB:60:ALA:H	1.65	0.44
3:BC:27:GLU:HG2	3:BC:27:GLU:O	2.16	0.44
3:BC:36:PHE:HA	3:BC:39:ARG:HD2	1.99	0.44
4:BD:54:LEU:C	4:BD:54:LEU:HD22	2.43	0.44
4:BD:160:LEU:C	4:BD:162:GLU:N	2.75	0.44
6:BF:16:GLU:O	6:BF:19:PRO:CD	2.62	0.44
8:BH:33:VAL:O	8:BH:34:ALA:C	2.61	0.44
8:BH:88:LYS:C	8:BH:90:GLU:N	2.74	0.44
9:BI:42:THR:HA	9:BI:44:ARG:HH21	1.82	0.44
9:BI:56:MET:HE2	9:BI:57:VAL:N	2.31	0.44
11:BK:58:THR:HB	11:BK:59:PRO:CD	2.48	0.44
11:BK:81:LEU:N	11:BK:81:LEU:CD2	2.81	0.44
11:BK:84:MET:CE	11:BK:112:VAL:HG11	2.47	0.44
12:BL:18:SER:C	12:BL:20:VAL:H	2.25	0.44
13:BM:82:LEU:CD1	19:BS:65:MET:HE2	2.44	0.44
14:BN:35:ALA:CB	14:BN:42:TRP:CH2	2.99	0.44
21:BU:36:PHE:HB3	21:BU:37:TYR:H	1.59	0.44
22:BV:60:U:H5"	22:BV:61:C:H5	1.83	0.44
23:BX:6:G:O2'	23:BX:7:G:H5'	2.16	0.44
25:CA:72:U:O2	49:CY:51:ALA:HB1	2.17	0.44
25:CA:90:U:H2'	25:CA:91:A:N7	2.32	0.44
25:CA:401:A:H2'	25:CA:402:A:O4'	2.16	0.44
25:CA:545:U:H2'	25:CA:546:U:O3'	2.16	0.44
25:CA:1078:U:O2	25:CA:1088:A:C2	2.71	0.44
25:CA:1244:A:OP1	36:CL:7:SER:HB2	2.16	0.44
25:CA:1275:A:N1	25:CA:1295:C:O2'	2.45	0.44
25:CA:1315:C:C2'	25:CA:1316:U:O5'	2.65	0.44
25:CA:2094:A:P	32:CH:22:LYS:HD2	2.57	0.44
25:CA:2124:G:C2'	25:CA:2125:G:H5'	2.46	0.44
25:CA:2145:C:C5	25:CA:2147:A:C2	3.05	0.44
25:CA:2291:U:H5"	25:CA:2380:C:O2'	2.16	0.44
25:CA:2419:U:H2'	25:CA:2420:C:C6	2.53	0.44
26:CB:20:G:C2	26:CB:64:G:N3	2.86	0.44
26:CB:33:G:H2'	26:CB:34:A:C5'	2.46	0.44
26:CB:85:G:H2'	26:CB:86:G:O5'	2.18	0.44
27:CC:86:ARG:HG3	27:CC:88:ALA:H	1.82	0.44
28:CD:4:LEU:CD2	28:CD:101:PHE:HE1	2.31	0.44
35:CK:58:LEU:N	35:CK:58:LEU:CD2	2.81	0.44
35:CK:98:ARG:O	35:CK:99:ILE:HD13	2.18	0.44
39:CO:29:HIS:CD2	39:CO:30:ARG:H	2.36	0.44
43:CS:65:ASP:C	43:CS:67:ASP:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CT:3:ARG:O	44:CT:6:ARG:HB3	2.18	0.44
50:CZ:2:LYS:H	50:CZ:2:LYS:HD3	1.82	0.44
25:DA:60:G:N1	25:DA:74:A:C6	2.85	0.44
25:DA:528:A:C2	25:DA:2043:C:C4'	3.00	0.44
25:DA:549:G:N3	25:DA:549:G:H5'	2.31	0.44
25:DA:621:A:H2'	25:DA:622:G:O4'	2.18	0.44
25:DA:640:C:H2'	25:DA:641:U:H6	1.82	0.44
25:DA:715:A:C6	25:DA:716:A:C6	3.05	0.44
25:DA:729:G:N3	25:DA:729:G:C2'	2.80	0.44
25:DA:797:G:C6	25:DA:798:G:C5	3.06	0.44
25:DA:858:G:H3'	25:DA:859:G:C8	2.52	0.44
25:DA:988:A:P	50:DZ:11:SER:HB2	2.57	0.44
25:DA:994:C:O2'	25:DA:996:A:OP1	2.32	0.44
25:DA:1063:G:C8	25:DA:1064:C:C5	3.05	0.44
25:DA:1142:A:C5	25:DA:1144:A:C5	3.05	0.44
25:DA:1157:G:H2'	25:DA:1158:C:H6	1.81	0.44
25:DA:1190:G:P	36:DL:32:GLY:HA2	2.57	0.44
25:DA:1396:U:O2	25:DA:1396:U:O4'	2.31	0.44
25:DA:1399:C:O2'	25:DA:1400:U:H5'	2.17	0.44
25:DA:2080:A:O5'	48:DX:18:SER:CB	2.64	0.44
25:DA:2148:G:C2'	25:DA:2149:U:H6	2.30	0.44
25:DA:2162:G:H21	25:DA:2163:A:H1'	1.81	0.44
25:DA:2324:U:C2'	25:DA:2325:G:OP1	2.65	0.44
25:DA:2661:G:C2'	25:DA:2662:A:O5'	2.66	0.44
25:DA:2688:G:H2'	25:DA:2689:U:OP2	2.17	0.44
56:DB:27:C:H2'	56:DB:28:C:O5'	2.18	0.44
27:DC:15:VAL:HG22	27:DC:205:GLY:HA3	1.99	0.44
27:DC:243:PRO:C	27:DC:244:VAL:CG1	2.90	0.44
29:DE:164:LEU:HB2	29:DE:167:VAL:HB	1.99	0.44
29:DE:200:LEU:N	29:DE:200:LEU:CD1	2.80	0.44
30:DF:36:ASN:ND2	30:DF:37:MET:N	2.65	0.44
30:DF:37:MET:HE3	30:DF:151:LEU:HD23	1.99	0.44
31:DG:39:ALA:O	31:DG:54:ARG:HB3	2.18	0.44
31:DG:64:ALA:O	31:DG:65:GLY:C	2.60	0.44
31:DG:126:THR:HG22	31:DG:127:GLN:H	1.82	0.44
31:DG:152:ARG:HH21	31:DG:152:ARG:HB2	1.81	0.44
32:DH:2:GLN:HB3	32:DH:39:ALA:CB	2.48	0.44
35:DK:76:VAL:HG22	35:DK:77:ILE:N	2.32	0.44
37:DM:27:SER:O	37:DM:28:PHE:CD2	2.70	0.44
37:DM:53:MET:O	37:DM:54:THR:C	2.60	0.44
40:DP:32:VAL:HA	40:DP:36:LYS:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DS:65:ASP:OD1	43:DS:65:ASP:C	2.59	0.44
44:DT:2:ILE:CG2	44:DT:3:ARG:C	2.91	0.44
45:DU:87:GLU:HB2	45:DU:92:VAL:HG21	1.99	0.44
45:DU:87:GLU:O	45:DU:88:ASP:CB	2.65	0.44
46:DV:6:ALA:HB1	46:DV:41:GLU:O	2.18	0.44
46:DV:60:VAL:HG22	46:DV:73:LYS:HG3	1.98	0.44
48:DX:55:MET:O	48:DX:56:ARG:C	2.61	0.44
49:DY:56:LEU:CD2	49:DY:59:GLU:OE1	2.66	0.44
1:AA:15:G:H4'	5:AE:28:ARG:NH1	2.32	0.44
1:AA:380:G:C4	1:AA:382:A:OP2	2.71	0.44
1:AA:463:U:O2	1:AA:463:U:C2'	2.65	0.44
1:AA:719:C:O2'	18:AR:38:ILE:O	2.29	0.44
1:AA:788:U:C2'	1:AA:789:U:H5'	2.47	0.44
1:AA:865:A:C2	1:AA:918:A:H4'	2.53	0.44
1:AA:918:A:H2'	1:AA:919:A:O5'	2.16	0.44
1:AA:943:U:O2'	1:AA:944:G:H5'	2.18	0.44
1:AA:1032:G:H3'	1:AA:1032:G:N3	2.32	0.44
1:AA:1118:U:H1'	1:AA:1179:A:C4	2.52	0.44
1:AA:1135:U:O4'	1:AA:1135:U:OP2	2.36	0.44
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.18	0.44
3:AC:171:ARG:O	3:AC:172:VAL:CG2	2.66	0.44
4:AD:42:ALA:O	4:AD:43:ARG:C	2.59	0.44
9:AI:38:PHE:HA	9:AI:41:GLU:OE1	2.17	0.44
10:AJ:53:ILE:HB	10:AJ:61:ALA:HB1	1.97	0.44
12:AL:34:THR:O	12:AL:35:ARG:HG3	2.17	0.44
12:AL:41:PRO:HD3	12:AL:47:ALA:O	2.17	0.44
13:AM:105:ALA:O	13:AM:106:ARG:C	2.59	0.44
18:AR:44:THR:OG1	18:AR:46:THR:HB	2.17	0.44
21:AU:13:VAL:O	21:AU:15:LEU:HD11	2.17	0.44
1:BA:39:G:O2'	1:BA:40:C:H5'	2.17	0.44
1:BA:110:C:H2'	1:BA:111:G:O4'	2.17	0.44
1:BA:306:A:H2'	1:BA:307:C:H5'	1.99	0.44
1:BA:647:C:O2	1:BA:647:C:H2'	2.17	0.44
1:BA:782:A:H4'	1:BA:1514:G:O2'	2.16	0.44
1:BA:840:C:C3'	1:BA:841:C:C5'	2.96	0.44
1:BA:1014:A:O3'	19:BS:13:HIS:CE1	2.70	0.44
1:BA:1018:G:O6	1:BA:1019:A:N6	2.51	0.44
1:BA:1074:G:H4'	2:BB:102:ASN:HB3	2.00	0.44
1:BA:1314:C:C5	19:BS:5:LYS:HE2	2.53	0.44
1:BA:1533:C:H4'	1:BA:1534:A:OP1	2.16	0.44
2:BB:223:GLY:C	2:BB:225:SER:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:130:ARG:H	3:BC:130:ARG:NE	2.15	0.44
4:BD:47:LEU:HD23	4:BD:52:VAL:HG13	1.98	0.44
4:BD:87:GLU:O	4:BD:89:LEU:N	2.50	0.44
6:BF:76:THR:O	6:BF:79:ARG:HB2	2.18	0.44
9:BI:48:ARG:HD3	9:BI:48:ARG:C	2.42	0.44
14:BN:18:LYS:HB3	14:BN:19:TYR:HD1	1.83	0.44
17:BQ:13:SER:HB3	17:BQ:21:VAL:HG11	1.92	0.44
18:BR:32:ILE:HA	18:BR:39:VAL:HG23	1.98	0.44
25:CA:100:U:N3	25:CA:101:A:N6	2.65	0.44
25:CA:272:A:C2	25:CA:366:C:O2	2.70	0.44
25:CA:361:G:O2'	25:CA:362:A:P	2.75	0.44
25:CA:812:C:H5"	25:CA:1250:G:O2'	2.17	0.44
25:CA:838:C:C2	25:CA:941:A:C2	3.05	0.44
25:CA:846:U:O2'	25:CA:847:U:C6	2.66	0.44
25:CA:1021:A:H3'	25:CA:1021:A:N3	2.32	0.44
25:CA:1072:C:P	25:CA:1075:C:N4	2.91	0.44
25:CA:1104:C:H2'	25:CA:1105:U:C6	2.52	0.44
25:CA:1410:G:C2	25:CA:1593:A:C2	3.06	0.44
25:CA:1483:G:C6	25:CA:1484:U:C4	3.05	0.44
25:CA:1509:A:H1'	25:CA:1510:G:H5'	1.99	0.44
25:CA:1586:A:H3'	25:CA:1586:A:C8	2.53	0.44
25:CA:1827:U:H2'	25:CA:1828:G:O5'	2.18	0.44
25:CA:2075:U:O2'	25:CA:2077:A:OP2	2.33	0.44
25:CA:2146:C:H5'	25:CA:2147:A:N7	2.32	0.44
26:CB:94:A:C5	26:CB:95:U:C5	3.06	0.44
27:CC:24:HIS:CD2	27:CC:79:ARG:NH2	2.85	0.44
28:CD:84:LEU:HD23	28:CD:84:LEU:HA	1.73	0.44
29:CE:180:LEU:HD23	29:CE:180:LEU:HA	1.77	0.44
29:CE:189:THR:CG2	29:CE:191:ASP:N	2.80	0.44
30:CF:151:LEU:HD13	30:CF:151:LEU:HA	1.91	0.44
33:CI:126:ARG:CB	33:CI:129:GLU:CD	2.91	0.44
36:CL:47:ARG:HG2	36:CL:47:ARG:HH21	1.81	0.44
37:CM:2:LEU:HB2	37:CM:69:PRO:HG2	1.98	0.44
37:CM:77:PRO:O	37:CM:78:LEU:C	2.61	0.44
42:CR:49:ILE:O	42:CR:50:GLY:O	2.35	0.44
45:CU:60:LYS:HG3	45:CU:61:GLU:H	1.82	0.44
45:CU:71:ILE:CD1	45:CU:82:VAL:CG2	2.95	0.44
47:CW:28:LEU:O	47:CW:29:ALA:C	2.61	0.44
49:CY:5:GLU:HG3	49:CY:56:LEU:HD11	1.98	0.44
25:DA:404:A:O4'	25:DA:405:U:OP2	2.34	0.44
25:DA:669:G:N3	25:DA:669:G:C2'	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:920:A:H2'	25:DA:921:C:O5'	2.18	0.44
25:DA:1043:C:N4	25:DA:1044:C:N4	2.65	0.44
25:DA:1078:U:H5"	25:DA:1079:C:P	2.57	0.44
25:DA:1429:G:C2	25:DA:1430:G:C4	3.06	0.44
25:DA:1486:U:H6	25:DA:1486:U:O5'	2.01	0.44
25:DA:1794:A:H1'	25:DA:1900:A:N3	2.33	0.44
25:DA:2118:U:C5	25:DA:2149:U:H1'	2.53	0.44
25:DA:2291:U:H2'	25:DA:2292:U:H6	1.77	0.44
25:DA:2441:U:C2'	25:DA:2442:C:H5'	2.47	0.44
25:DA:2672:U:H2'	25:DA:2673:G:O5'	2.18	0.44
25:DA:2746:U:H4'	31:DG:138:GLN:HA	1.98	0.44
25:DA:2782:G:N2	25:DA:2783:U:N1	2.66	0.44
56:DB:93:C:H2'	56:DB:94:A:C8	2.53	0.44
28:DD:3:GLY:O	28:DD:4:LEU:CD1	2.66	0.44
33:DI:72:THR:HG22	33:DI:112:LYS:HG2	1.99	0.44
34:DJ:1:MET:O	34:DJ:2:LYS:C	2.61	0.44
37:DM:110:GLU:O	37:DM:110:GLU:HG2	2.17	0.44
40:DP:58:PHE:CE2	40:DP:73:PHE:HB2	2.51	0.44
40:DP:64:SER:N	40:DP:67:GLU:O	2.51	0.44
43:DS:36:LEU:CD1	43:DS:48:LYS:CA	2.95	0.44
48:DX:4:CYS:SG	48:DX:51:SER:HB3	2.58	0.44
49:DY:32:ALA:O	49:DY:35:GLY:CA	2.65	0.44
50:DZ:9:THR:HG23	50:DZ:10:ARG:HG2	2.00	0.44
1:AA:103:U:H2'	1:AA:104:G:H8	1.82	0.44
1:AA:203:G:C2	1:AA:215:C:C2	3.06	0.44
1:AA:204:G:N3	1:AA:465:A:C2	2.84	0.44
1:AA:496:A:N3	1:AA:497:G:N7	2.65	0.44
1:AA:1000:A:N3	1:AA:1041:G:N2	2.66	0.44
1:AA:1060:U:O2'	10:AJ:54:SER:HB2	2.16	0.44
1:AA:1271:A:H2'	1:AA:1272:G:C8	2.52	0.44
1:AA:1280:A:H5"	10:AJ:42:LEU:HD21	1.98	0.44
1:AA:1286:U:O2	1:AA:1286:U:C2'	2.65	0.44
1:AA:1308:U:O3'	13:AM:90:HIS:HE1	2.00	0.44
1:AA:1481:U:O2	1:AA:1481:U:C2'	2.62	0.44
2:AB:23:ASN:O	2:AB:26:MET:HB2	2.18	0.44
2:AB:172:ILE:O	2:AB:175:ALA:HB3	2.17	0.44
3:AC:16:PRO:O	3:AC:17:TRP:CE3	2.71	0.44
3:AC:59:PRO:O	3:AC:60:ALA:CB	2.65	0.44
4:AD:60:VAL:O	4:AD:61:ARG:C	2.60	0.44
4:AD:62:ARG:HE	4:AD:62:ARG:CA	2.30	0.44
4:AD:94:GLU:CG	4:AD:185:PRO:HG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:150:LYS:HA	4:AD:177:MET:CE	2.36	0.44
5:AE:141:ASP:O	5:AE:143:LEU:N	2.50	0.44
5:AE:158:LYS:O	8:AH:63:LYS:CE	2.65	0.44
10:AJ:81:GLU:C	10:AJ:84:VAL:HG12	2.42	0.44
13:AM:8:ILE:HG22	13:AM:8:ILE:O	2.18	0.44
13:AM:94:LEU:C	13:AM:108:ARG:HG2	2.43	0.44
15:AO:56:LEU:O	15:AO:57:ARG:C	2.60	0.44
16:AP:60:TRP:HB3	16:AP:65:ALA:HB2	2.00	0.44
16:AP:78:VAL:O	16:AP:79:ASN:C	2.60	0.44
17:AQ:74:LEU:HD12	17:AQ:74:LEU:C	2.43	0.44
20:AT:27:MET:CG	20:AT:31:ILE:HD11	2.45	0.44
20:AT:73:ARG:O	20:AT:76:ALA:HB3	2.17	0.44
20:AT:79:THR:O	20:AT:80:ALA:C	2.61	0.44
21:AU:9:GLU:OE2	21:AU:10:PRO:HD3	2.17	0.44
22:AV:50:U:N3	22:AV:51:U:C5	2.85	0.44
1:BA:68:G:C6	1:BA:69:G:H1'	2.51	0.44
1:BA:358:U:H2'	1:BA:359:G:H8	1.79	0.44
1:BA:408:A:OP1	4:BD:109:THR:OG1	2.23	0.44
1:BA:445:G:H2'	1:BA:445:G:N3	2.32	0.44
1:BA:734:G:O2'	1:BA:735:C:H5'	2.18	0.44
1:BA:942:G:N2	1:BA:943:U:C2	2.86	0.44
1:BA:1014:A:H4'	19:BS:13:HIS:CE1	2.52	0.44
1:BA:1061:G:C8	1:BA:1062:U:C5	3.06	0.44
1:BA:1113:C:O2'	3:BC:13:ILE:HD11	2.17	0.44
1:BA:1212:U:C6	1:BA:1212:U:OP1	2.70	0.44
1:BA:1441:A:H3'	1:BA:1441:A:H8	1.77	0.44
1:BA:1451:U:C5'	1:BA:1452:C:H5	2.30	0.44
2:BB:17:HIS:O	2:BB:188:THR:CG2	2.65	0.44
2:BB:175:ALA:C	2:BB:177:ASN:N	2.70	0.44
3:BC:80:GLY:O	3:BC:84:GLU:HG2	2.18	0.44
4:BD:28:ASP:C	4:BD:30:LYS:H	2.24	0.44
4:BD:36:ALA:H	4:BD:37:PRO:CD	2.27	0.44
5:BE:65:LYS:O	5:BE:69:ASN:HB2	2.18	0.44
5:BE:153:ALA:HA	5:BE:156:ARG:HB3	1.99	0.44
6:BF:13:ASP:C	6:BF:15:SER:N	2.76	0.44
6:BF:20:GLY:O	6:BF:24:ARG:HD3	2.17	0.44
6:BF:29:ILE:HG22	6:BF:30:THR:N	2.31	0.44
8:BH:29:SER:N	8:BH:32:LYS:HB2	2.32	0.44
9:BI:9:GLY:H	9:BI:84:ARG:HD3	1.79	0.44
10:BJ:27:GLU:C	10:BJ:29:ALA:N	2.73	0.44
11:BK:22:ILE:O	11:BK:22:ILE:CG1	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:73:SER:O	13:BM:77:LYS:HG3	2.17	0.44
14:BN:27:LYS:HG3	14:BN:28:ALA:N	2.31	0.44
15:BO:42:PHE:HE1	15:BO:55:LEU:HD22	1.82	0.44
16:BP:38:PHE:CE2	16:BP:51:ARG:CB	3.01	0.44
18:BR:45:GLY:O	18:BR:46:THR:HG23	2.18	0.44
19:BS:52:ASN:HB3	19:BS:74:ALA:O	2.17	0.44
21:BU:44:ARG:O	21:BU:45:LYS:CB	2.66	0.44
25:CA:108:G:H2'	25:CA:109:C:C5'	2.48	0.44
25:CA:141:G:H5"	25:CA:142:A:C5	2.52	0.44
25:CA:186:G:C2	25:CA:187:G:C5	3.06	0.44
25:CA:319:G:H2'	25:CA:320:A:O4'	2.18	0.44
25:CA:588:U:H2'	25:CA:589:U:C6	2.52	0.44
25:CA:833:A:OP1	36:CL:39:LYS:HD3	2.18	0.44
25:CA:901:C:O2	25:CA:901:C:C2'	2.65	0.44
25:CA:1217:U:O2	25:CA:1217:U:C2'	2.62	0.44
25:CA:1278:C:O2'	25:CA:1279:G:H5'	2.17	0.44
25:CA:1418:G:O6	25:CA:1578:U:H3'	2.18	0.44
25:CA:1840:G:C6	25:CA:1841:U:C4	3.05	0.44
25:CA:1956:U:O2	25:CA:1956:U:H2'	2.17	0.44
25:CA:2058:A:H8	25:CA:2058:A:O5'	2.00	0.44
25:CA:2147:A:C8	25:CA:2147:A:H3'	2.52	0.44
25:CA:2884:U:C5	51:C0:39:ARG:NH2	2.86	0.44
26:CB:30:C:O2'	26:CB:57:A:N1	2.47	0.44
27:CC:83:ASP:OD1	27:CC:84:PRO:CD	2.66	0.44
27:CC:110:LYS:HE2	27:CC:110:LYS:H	1.83	0.44
28:CD:185:ASN:C	28:CD:186:LEU:HD23	2.43	0.44
32:CH:14:SER:OG	32:CH:16:GLY:C	2.60	0.44
36:CL:81:ASP:OD2	36:CL:100:ILE:HD13	2.17	0.44
40:CP:64:SER:O	40:CP:66:GLY:N	2.50	0.44
43:CS:18:ARG:O	43:CS:19:LEU:C	2.58	0.44
25:DA:164:C:C2'	25:DA:165:A:H5'	2.46	0.44
25:DA:770:G:C4	25:DA:771:G:C8	3.06	0.44
25:DA:845:A:H5'	25:DA:846:U:OP2	2.18	0.44
25:DA:1070:A:H61	33:DI:10:LEU:HB3	1.82	0.44
25:DA:1076:C:H2'	25:DA:1077:A:O5'	2.18	0.44
25:DA:1333:G:N2	25:DA:1334:G:N9	2.65	0.44
25:DA:1534:U:O2'	25:DA:1537:G:O6	2.35	0.44
25:DA:1635:A:C8	25:DA:1636:U:C5	3.06	0.44
25:DA:1872:A:H2'	25:DA:1873:G:O4'	2.18	0.44
25:DA:2146:C:H4'	25:DA:2147:A:OP1	2.17	0.44
25:DA:2259:U:C5	25:DA:2427:C:N4	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2296:U:O2	25:DA:2333:A:N1	2.50	0.44
25:DA:2417:C:O2	25:DA:2417:C:H2'	2.17	0.44
25:DA:2475:C:H2'	25:DA:2476:A:H5'	1.99	0.44
25:DA:2516:A:C2'	25:DA:2517:C:H5'	2.47	0.44
25:DA:2602:A:H4'	25:DA:2603:G:C5'	2.47	0.44
25:DA:2716:C:C2	25:DA:2717:C:C5	3.06	0.44
28:DD:62:LYS:N	28:DD:63:PRO:HD2	2.33	0.44
30:DF:98:PHE:O	30:DF:100:GLU:N	2.50	0.44
30:DF:98:PHE:HA	30:DF:101:ARG:NH2	2.33	0.44
31:DG:83:THR:CG2	31:DG:133:LYS:HG3	2.47	0.44
31:DG:89:VAL:HG23	31:DG:160:GLY:O	2.17	0.44
32:DH:3:VAL:N	32:DH:39:ALA:CB	2.81	0.44
33:DI:79:LEU:HD23	33:DI:83:ALA:HB2	2.00	0.44
38:DN:32:GLU:O	38:DN:114:GLU:HA	2.18	0.44
39:DO:14:ALA:O	39:DO:18:LEU:CD2	2.65	0.44
43:DS:36:LEU:HD13	43:DS:48:LYS:HB2	1.98	0.44
43:DS:70:LYS:O	43:DS:107:VAL:HA	2.16	0.44
44:DT:69:ARG:C	44:DT:70:HIS:CG	2.96	0.44
45:DU:5:ARG:O	45:DU:8:ASP:CB	2.65	0.44
48:DX:29:LEU:HD22	48:DX:30:PRO:HD2	1.98	0.44
49:DY:57:LEU:O	49:DY:57:LEU:HD12	2.17	0.44
1:AA:259:G:C4	1:AA:260:G:C8	3.04	0.44
1:AA:429:U:H4'	1:AA:430:A:OP1	2.18	0.44
1:AA:583:A:H2'	1:AA:584:G:H5'	1.99	0.44
1:AA:626:G:H2'	1:AA:627:G:C5'	2.46	0.44
1:AA:689:C:H2'	1:AA:690:G:O4'	2.18	0.44
1:AA:848:C:H2'	1:AA:849:G:O5'	2.17	0.44
1:AA:874:G:C6	1:AA:875:U:C4	3.05	0.44
1:AA:1012:A:N6	1:AA:1013:G:C6	2.85	0.44
1:AA:1022:A:C6	1:AA:1023:U:C4	3.06	0.44
1:AA:1167:A:H5"	1:AA:1168:U:P	2.57	0.44
1:AA:1278:G:C4'	1:AA:1279:G:C8	3.01	0.44
1:AA:1320:C:O2	19:AS:35:ARG:NH1	2.50	0.44
1:AA:1378:C:C6	1:AA:1378:C:H3'	2.53	0.44
2:AB:89:PHE:HD1	2:AB:153:MET:HE3	1.81	0.44
2:AB:211:LEU:C	2:AB:213:LEU:H	2.25	0.44
3:AC:27:GLU:O	3:AC:28:PHE:C	2.59	0.44
4:AD:143:SER:HB2	4:AD:178:GLU:HA	1.99	0.44
4:AD:184:LYS:HA	4:AD:185:PRO:HD2	1.86	0.44
8:AH:48:PHE:O	8:AH:49:LYS:CG	2.65	0.44
8:AH:79:ARG:HB2	8:AH:80:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:12:LYS:HG2	9:AI:12:LYS:O	2.17	0.44
9:AI:49:GLN:O	9:AI:51:LEU:N	2.51	0.44
10:AJ:42:LEU:O	10:AJ:43:PRO:O	2.36	0.44
17:AQ:7:LEU:CB	17:AQ:60:ILE:HG22	2.46	0.44
24:AY:50:THR:OG1	24:AY:55:LEU:HD21	2.17	0.44
24:AY:144:LEU:HD23	24:AY:144:LEU:HA	1.70	0.44
24:AY:144:LEU:C	24:AY:145:LYS:O	2.58	0.44
1:BA:59:A:C6	1:BA:331:G:N3	2.86	0.44
1:BA:74:A:N1	1:BA:97:G:C6	2.86	0.44
1:BA:107:G:C2'	1:BA:108:G:H5"	2.47	0.44
1:BA:154:U:O4	1:BA:167:A:N1	2.50	0.44
1:BA:376:G:H2'	1:BA:377:G:H8	1.83	0.44
1:BA:470:C:H3'	1:BA:470:C:C6	2.52	0.44
1:BA:663:A:N1	1:BA:743:A:C2	2.85	0.44
1:BA:883:C:C2'	1:BA:884:U:H5'	2.48	0.44
1:BA:892:A:C5	1:BA:893:C:C4	3.06	0.44
1:BA:1142:G:C2	1:BA:1143:G:H1'	2.51	0.44
1:BA:1275:A:O2'	1:BA:1276:G:H5'	2.16	0.44
2:BB:206:ILE:N	2:BB:206:ILE:CD1	2.81	0.44
3:BC:4:VAL:HG22	3:BC:5:HIS:N	2.33	0.44
3:BC:89:VAL:O	3:BC:93:ILE:HG13	2.18	0.44
3:BC:153:SER:HB3	3:BC:164:THR:CB	2.47	0.44
5:BE:141:ASP:O	5:BE:145:ASN:ND2	2.51	0.44
6:BF:68:GLN:O	6:BF:69:GLU:C	2.61	0.44
8:BH:65:PHE:C	8:BH:66:GLN:O	2.61	0.44
13:BM:77:LYS:O	13:BM:78:ARG:C	2.60	0.44
17:BQ:44:HIS:C	17:BQ:45:VAL:HG23	2.42	0.44
21:BU:13:VAL:O	21:BU:15:LEU:CG	2.66	0.44
21:BU:22:CYS:O	21:BU:23:GLU:C	2.60	0.44
23:BX:14:A:N6	23:BX:15:A:N1	2.65	0.44
25:CA:382:A:C2'	25:CA:383:C:O5'	2.65	0.44
25:CA:825:A:C2	25:CA:833:A:C2	3.05	0.44
25:CA:1059:G:N2	25:CA:1080:A:H1'	2.33	0.44
25:CA:1079:C:C5	25:CA:1088:A:C2	3.05	0.44
25:CA:1355:G:C2'	25:CA:1356:G:O5'	2.66	0.44
25:CA:1535:A:C5'	25:CA:1536:C:C5	3.00	0.44
25:CA:1676:A:H2'	25:CA:1677:A:O5'	2.18	0.44
25:CA:1875:G:O2'	25:CA:1876:A:P	2.75	0.44
25:CA:2108:A:C6	25:CA:2109:U:O2	2.70	0.44
25:CA:2152:G:N7	25:CA:2153:C:C5	2.85	0.44
25:CA:2181:U:C2	25:CA:2182:U:C6	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2190:G:H3'	25:CA:2191:A:H8	1.82	0.44
25:CA:2297:A:C6	25:CA:2298:A:N7	2.85	0.44
25:CA:2757:A:N1	31:CG:66:THR:CG2	2.74	0.44
25:CA:2870:C:H2'	25:CA:2871:U:H5'	1.98	0.44
25:CA:2874:C:C2'	25:CA:2875:C:H5'	2.47	0.44
26:CB:51:G:C6	26:CB:52:A:N6	2.86	0.44
27:CC:83:ASP:OD1	27:CC:84:PRO:N	2.49	0.44
27:CC:176:ARG:HH21	27:CC:176:ARG:HG2	1.83	0.44
28:CD:187:LEU:O	28:CD:188:LEU:HD23	2.17	0.44
29:CE:52:VAL:CG1	29:CE:53:THR:N	2.81	0.44
29:CE:52:VAL:HG12	29:CE:53:THR:N	2.32	0.44
29:CE:145:ASP:HB3	29:CE:184:ASP:HB2	2.00	0.44
30:CF:51:ASN:HD22	30:CF:146:ASP:HB3	1.83	0.44
30:CF:105:ILE:HD12	30:CF:138:PRO:HG3	1.99	0.44
32:CH:10:ALA:O	32:CH:11:ASN:C	2.59	0.44
33:CI:17:ALA:O	33:CI:18:ASN:HB3	2.17	0.44
33:CI:37:PHE:CZ	33:CI:41:PHE:HD1	2.35	0.44
37:CM:111:GLU:CD	37:CM:111:GLU:O	2.59	0.44
38:CN:87:PHE:O	38:CN:88:ALA:C	2.60	0.44
40:CP:30:TRP:CD2	40:CP:39:LEU:HD11	2.52	0.44
44:CT:33:LYS:HG3	44:CT:80:TRP:CE3	2.52	0.44
44:CT:69:ARG:O	44:CT:69:ARG:HG3	2.18	0.44
47:CW:53:HIS:O	47:CW:54:THR:C	2.59	0.44
49:CY:15:ASN:O	49:CY:19:LEU:HG	2.18	0.44
49:CY:43:LEU:HA	49:CY:43:LEU:HD23	1.76	0.44
25:DA:22:C:C6	25:DA:22:C:C3'	3.01	0.44
25:DA:230:G:H2'	25:DA:231:A:H8	1.82	0.44
25:DA:283:G:H2'	25:DA:284:U:O4'	2.17	0.44
25:DA:295:G:C4	25:DA:344:A:C2	3.06	0.44
25:DA:381:G:C6	25:DA:382:A:C8	3.05	0.44
25:DA:391:A:H2'	25:DA:392:U:H5'	2.00	0.44
25:DA:734:A:C5	25:DA:735:A:C8	3.06	0.44
25:DA:869:G:C2'	25:DA:870:U:H5'	2.48	0.44
25:DA:1125:G:C6	25:DA:1126:A:N6	2.86	0.44
25:DA:1127:A:C2'	25:DA:1128:G:H5'	2.48	0.44
25:DA:1208:C:C2	25:DA:1239:G:N2	2.86	0.44
25:DA:1268:A:H2'	25:DA:1269:A:O4'	2.18	0.44
25:DA:1421:G:O5'	25:DA:1421:G:H8	2.01	0.44
25:DA:1448:G:H2'	25:DA:1449:G:H8	1.83	0.44
25:DA:1452:G:H2'	25:DA:1457:U:O4	2.18	0.44
25:DA:1516:G:C2'	25:DA:1517:G:H5'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1644:C:O2	25:DA:1644:C:H2'	2.17	0.44
25:DA:1731:G:O2'	25:DA:1732:C:H2'	2.18	0.44
25:DA:1995:U:OP1	60:DA:3819:HOH:O	2.21	0.44
25:DA:2100:G:C5	25:DA:2190:G:C6	3.06	0.44
25:DA:2110:G:O2'	25:DA:2120:G:H5'	2.17	0.44
25:DA:2196:C:H2'	25:DA:2197:U:H5'	1.99	0.44
25:DA:2201:G:C5	25:DA:2223:G:C2	3.06	0.44
25:DA:2462:C:H2'	25:DA:2463:C:C6	2.53	0.44
25:DA:2511:U:H2'	25:DA:2512:C:H6	1.83	0.44
56:DB:57:A:C2'	56:DB:58:A:H5'	2.48	0.44
29:DE:28:VAL:HG12	29:DE:32:VAL:CG2	2.48	0.44
29:DE:170:ARG:NH2	29:DE:170:ARG:HG2	2.33	0.44
30:DF:16:MET:CE	30:DF:21:TYR:HB2	2.47	0.44
30:DF:72:SER:OG	30:DF:79:ARG:HA	2.17	0.44
30:DF:131:VAL:O	30:DF:131:VAL:CG2	2.66	0.44
31:DG:109:SER:C	31:DG:110:HIS:CG	2.94	0.44
31:DG:147:LEU:O	31:DG:150:TYR:HB2	2.18	0.44
36:DL:117:THR:HG22	36:DL:118:THR:N	2.32	0.44
37:DM:57:VAL:HG23	37:DM:58:LYS:O	2.18	0.44
38:DN:72:ASP:C	38:DN:74:GLU:H	2.25	0.44
38:DN:116:VAL:O	38:DN:116:VAL:CG1	2.61	0.44
39:DO:8:ILE:HG22	39:DO:9:ARG:N	2.32	0.44
45:DU:66:VAL:C	45:DU:68:ASN:H	2.25	0.44
45:DU:101:THR:CG2	45:DU:102:ILE:N	2.80	0.44
55:D4:29:ALA:O	55:D4:31:PRO:HD3	2.18	0.44
1:AA:140:U:C2'	1:AA:141:G:O5'	2.66	0.44
1:AA:200:G:C2	1:AA:218:U:O2	2.71	0.44
1:AA:309:A:C2	1:AA:310:G:C8	3.05	0.44
1:AA:320:A:C2	1:AA:334:C:N3	2.86	0.44
1:AA:367:U:O2'	1:AA:368:U:H4'	2.18	0.44
1:AA:438:U:N3	1:AA:494:G:C6	2.86	0.44
1:AA:451:A:C8	1:AA:452:A:C2	3.06	0.44
1:AA:552:U:H4'	12:AL:83:GLY:O	2.16	0.44
1:AA:642:A:C6	1:AA:643:C:N3	2.85	0.44
1:AA:646:G:C2	1:AA:647:C:C5	3.05	0.44
1:AA:980:C:C5	1:AA:981:U:N3	2.86	0.44
1:AA:1055:A:C6	1:AA:1056:U:C6	3.05	0.44
1:AA:1240:U:C2	7:AG:31:VAL:CG1	3.01	0.44
1:AA:1322:C:P	19:AS:77:ARG:HH21	2.41	0.44
2:AB:34:ARG:HE	2:AB:35:ASN:N	2.16	0.44
2:AB:132:GLU:O	2:AB:136:ARG:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:199:ILE:O	2:AB:200:PRO:O	2.35	0.44
4:AD:130:ASN:O	4:AD:130:ASN:CG	2.59	0.44
5:AE:12:GLU:CB	5:AE:38:VAL:HG12	2.48	0.44
7:AG:80:GLY:C	23:AX:12:A:H4'	2.43	0.44
7:AG:91:ARG:NE	7:AG:93:VAL:HG21	2.32	0.44
8:AH:21:LYS:HE2	8:AH:21:LYS:CA	2.46	0.44
11:AK:37:GLN:OE1	11:AK:37:GLN:N	2.50	0.44
11:AK:52:ARG:O	11:AK:55:ARG:HG3	2.18	0.44
13:AM:52:ILE:HG22	13:AM:56:ARG:NH2	2.33	0.44
13:AM:65:GLU:O	13:AM:67:ASP:N	2.50	0.44
14:AN:43:ASN:C	14:AN:45:VAL:N	2.73	0.44
17:AQ:10:ARG:HH12	17:AQ:11:VAL:C	2.26	0.44
19:AS:4:LEU:O	19:AS:5:LYS:CD	2.66	0.44
19:AS:15:LEU:C	19:AS:17:LYS:H	2.25	0.44
21:AU:38:GLU:CD	21:AU:41:THR:HG21	2.43	0.44
22:AV:65:G:H2'	22:AV:66:U:C6	2.52	0.44
24:AY:18:VAL:HG22	24:AY:172:ILE:CG1	2.48	0.44
24:AY:114:LEU:O	24:AY:115:THR:C	2.60	0.44
1:BA:22:G:O2'	1:BA:913:A:N1	2.47	0.44
1:BA:247:G:C5	1:BA:278:G:C2	3.06	0.44
1:BA:338:A:H8	1:BA:338:A:O5'	2.00	0.44
1:BA:393:A:H5'	1:BA:483:C:O2'	2.17	0.44
1:BA:764:C:H2'	1:BA:765:G:C8	2.50	0.44
1:BA:878:A:OP1	8:BH:80:PRO:HD2	2.18	0.44
1:BA:981:U:OP1	14:BN:5:MET:HE1	2.18	0.44
1:BA:1275:A:C3'	1:BA:1276:G:H5'	2.43	0.44
1:BA:1310:G:C5	1:BA:1311:A:N7	2.86	0.44
1:BA:1329:A:H4'	13:BM:23:GLY:O	2.17	0.44
1:BA:1350:A:C2	1:BA:1351:U:O2	2.71	0.44
1:BA:1381:U:C6	1:BA:1382:C:H5	2.36	0.44
1:BA:1428:A:C2	1:BA:1473:G:C2	3.06	0.44
1:BA:1458:G:H2'	1:BA:1459:G:C8	2.53	0.44
3:BC:7:ASN:C	3:BC:9:ILE:N	2.73	0.44
3:BC:79:LYS:HD2	3:BC:79:LYS:N	2.32	0.44
4:BD:7:LYS:HB2	4:BD:20:LEU:HD13	1.98	0.44
5:BE:22:LYS:O	5:BE:23:THR:CB	2.64	0.44
5:BE:23:THR:C	5:BE:24:VAL:CG1	2.91	0.44
6:BF:62:MET:HG3	6:BF:64:VAL:HG23	2.00	0.44
9:BI:38:PHE:CE1	9:BI:75:ALA:HB2	2.52	0.44
9:BI:56:MET:HA	9:BI:59:LYS:CB	2.48	0.44
10:BJ:92:LEU:HD23	10:BJ:92:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:106:ILE:C	11:BK:106:ILE:HD13	2.43	0.44
14:BN:27:LYS:CD	14:BN:27:LYS:C	2.90	0.44
17:BQ:10:ARG:CZ	17:BQ:55:GLY:HA2	2.47	0.44
17:BQ:16:MET:CB	17:BQ:19:SER:HB3	2.48	0.44
17:BQ:71:SER:C	17:BQ:72:TRP:CD1	2.96	0.44
20:BT:66:ILE:CG2	20:BT:67:HIS:H	2.31	0.44
21:BU:24:LYS:HD3	21:BU:25:ALA:H	1.83	0.44
25:CA:272:A:H2'	25:CA:273:G:O4'	2.17	0.44
25:CA:416:U:C5	25:CA:417:C:N4	2.85	0.44
25:CA:503:A:H5'	25:CA:504:A:H3'	1.99	0.44
25:CA:892:A:H2	25:CA:893:C:C2	2.36	0.44
25:CA:1269:A:H8	25:CA:1269:A:O5'	2.01	0.44
25:CA:1291:C:H2'	25:CA:1292:G:H5'	1.98	0.44
25:CA:1684:G:H2'	25:CA:1685:C:C6	2.53	0.44
25:CA:1737:G:C6	25:CA:1738:G:N2	2.86	0.44
25:CA:1818:U:OP2	27:CC:155:ARG:NH1	2.51	0.44
25:CA:2349:G:O6	25:CA:2350:C:C4	2.70	0.44
25:CA:2486:C:H2'	25:CA:2487:G:O4'	2.18	0.44
25:CA:2544:G:C2'	25:CA:2545:G:O5'	2.65	0.44
25:CA:2571:U:H2'	25:CA:2572:A:OP1	2.17	0.44
25:CA:2631:G:C2'	25:CA:2632:A:O5'	2.65	0.44
25:CA:2800:A:H3'	25:CA:2801:G:H5"	1.96	0.44
25:CA:2849:U:N3	25:CA:2867:G:O4'	2.51	0.44
26:CB:78:A:C2	26:CB:99:A:C4	3.05	0.44
28:CD:105:LYS:HB3	28:CD:105:LYS:NZ	2.33	0.44
29:CE:97:ASN:HB3	29:CE:100:MET:HG3	1.98	0.44
31:CG:27:GLY:O	31:CG:28:LYS:C	2.60	0.44
32:CH:18:GLN:O	32:CH:19:VAL:HG13	2.18	0.44
32:CH:46:PHE:CD2	32:CH:47:PHE:N	2.85	0.44
33:CI:29:GLN:HG2	33:CI:29:GLN:O	2.17	0.44
33:CI:34:ILE:N	33:CI:34:ILE:HD13	2.32	0.44
35:CK:113:MET:O	35:CK:116:ILE:N	2.50	0.44
36:CL:91:ASP:OD1	36:CL:92:LEU:HD12	2.18	0.44
38:CN:52:ILE:O	38:CN:53:THR:C	2.57	0.44
39:CO:2:ASP:O	39:CO:4:LYS:N	2.51	0.44
40:CP:30:TRP:CZ3	40:CP:39:LEU:CD1	3.00	0.44
40:CP:36:LYS:HE3	40:CP:38:ARG:NE	2.33	0.44
42:CR:76:LYS:O	42:CR:84:ARG:HA	2.17	0.44
48:CX:77:TYR:CD1	48:CX:77:TYR:C	2.96	0.44
54:C3:1:PRO:O	54:C3:2:LYS:C	2.59	0.44
25:DA:59:U:O2'	25:DA:60:G:C5'	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:442:G:O4'	29:DE:41:GLN:OE1	2.36	0.44
25:DA:463:G:N1	25:DA:467:G:C6	2.85	0.44
25:DA:528:A:H2'	25:DA:529:A:O5'	2.17	0.44
25:DA:773:U:H4'	27:DC:46:GLY:HA3	1.99	0.44
25:DA:1005:C:C4	25:DA:1143:A:N3	2.86	0.44
25:DA:1080:A:C2	25:DA:1081:U:C2	3.06	0.44
25:DA:1330:C:H2'	25:DA:1331:G:O5'	2.17	0.44
25:DA:1358:G:O2'	25:DA:1359:A:H5'	2.17	0.44
25:DA:1441:G:C2	25:DA:1442:U:C5	3.05	0.44
25:DA:1477:A:C2	25:DA:1515:A:C2	3.05	0.44
25:DA:1670:C:C4	25:DA:1671:U:C2	3.05	0.44
25:DA:1833:C:O2'	25:DA:1969:A:N1	2.50	0.44
25:DA:1967:C:H2'	25:DA:1967:C:O2	2.17	0.44
25:DA:2148:G:N3	25:DA:2149:U:C5	2.86	0.44
56:DB:72:G:N2	56:DB:103:U:C5	2.86	0.44
27:DC:144:GLU:CA	27:DC:151:GLY:HA2	2.43	0.44
27:DC:184:GLU:O	27:DC:187:CYS:SG	2.74	0.44
29:DE:182:ALA:HB2	36:DL:3:LEU:HD22	2.00	0.44
30:DF:7:TYR:O	30:DF:11:VAL:HB	2.18	0.44
30:DF:167:ALA:O	30:DF:168:LEU:C	2.61	0.44
31:DG:43:LYS:HE2	31:DG:43:LYS:N	2.32	0.44
32:DH:59:ALA:O	32:DH:62:LEU:CG	2.66	0.44
37:DM:20:LEU:N	37:DM:20:LEU:CD2	2.80	0.44
37:DM:58:LYS:C	37:DM:60:GLN:H	2.26	0.44
38:DN:28:LEU:O	38:DN:28:LEU:HD12	2.18	0.44
38:DN:83:LEU:HD21	38:DN:115:LEU:HD13	2.00	0.44
39:DO:67:ASN:O	39:DO:69:ASP:N	2.50	0.44
43:DS:29:VAL:CG1	43:DS:55:ILE:HD11	2.48	0.44
45:DU:40:LEU:HD21	45:DU:61:GLU:HG3	1.99	0.44
54:D3:30:HIS:CE1	54:D3:31:ILE:CD1	3.01	0.44
1:AA:190:A:C8	1:AA:190:A:H3'	2.53	0.44
1:AA:196:A:O2'	1:AA:221:C:O2'	2.30	0.44
1:AA:197:A:O2'	1:AA:221:C:H1'	2.18	0.44
1:AA:229:U:O2'	1:AA:230:G:H5'	2.17	0.44
1:AA:376:G:O3'	16:AP:5:ARG:HD2	2.18	0.44
1:AA:469:C:O5'	1:AA:469:C:H6	2.00	0.44
1:AA:510:A:N7	60:AA:1723:HOH:O	2.37	0.44
1:AA:569:C:H5"	1:AA:570:G:OP1	2.17	0.44
1:AA:836:G:C5	1:AA:851:G:C6	3.06	0.44
1:AA:966:G:O2'	9:AI:128:LYS:O	2.36	0.44
1:AA:1212:U:H2'	1:AA:1212:U:O2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1313:U:P	19:AS:5:LYS:HB2	2.58	0.44
3:AC:142:ARG:HG3	3:AC:142:ARG:HH11	1.83	0.44
7:AG:46:LEU:HD12	7:AG:46:LEU:HA	1.85	0.44
8:AH:117:GLN:C	8:AH:119:GLY:N	2.75	0.44
9:AI:24:ASN:O	9:AI:60:LEU:N	2.50	0.44
9:AI:117:LEU:HD12	9:AI:117:LEU:N	2.33	0.44
19:AS:35:ARG:NH2	19:AS:76:THR:HG23	2.32	0.44
21:AU:16:ARG:HH11	21:AU:19:LYS:HG2	1.83	0.44
1:BA:321:A:H2	1:BA:333:U:O2	2.00	0.44
1:BA:615:G:C2	1:BA:616:G:C8	3.06	0.44
1:BA:639:G:C4	1:BA:640:A:C8	3.06	0.44
1:BA:724:G:N2	1:BA:725:G:H1'	2.33	0.44
1:BA:1144:G:H3'	1:BA:1145:A:O4'	2.17	0.44
1:BA:1149:C:N4	1:BA:1150:A:C6	2.86	0.44
1:BA:1330:U:OP1	13:BM:24:VAL:O	2.35	0.44
1:BA:1399:C:H4'	1:BA:1400:C:O5'	2.17	0.44
2:BB:95:TRP:HE3	2:BB:96:LEU:C	2.25	0.44
2:BB:134:LEU:HD11	2:BB:138:ARG:HB3	1.99	0.44
3:BC:54:ILE:C	3:BC:54:ILE:HD12	2.42	0.44
3:BC:61:LYS:HA	3:BC:61:LYS:HE3	2.00	0.44
4:BD:7:LYS:NZ	4:BD:21:LYS:HD2	2.33	0.44
4:BD:71:PHE:O	4:BD:72:ARG:C	2.61	0.44
5:BE:45:VAL:O	5:BE:70:MET:HG3	2.17	0.44
5:BE:64:GLU:OE2	5:BE:68:ARG:NH1	2.51	0.44
5:BE:158:LYS:O	5:BE:158:LYS:CG	2.65	0.44
6:BF:49:TYR:HB2	6:BF:50:PRO:HD3	1.98	0.44
7:BG:78:ARG:CG	7:BG:83:THR:HG23	2.48	0.44
7:BG:80:GLY:CA	23:BX:11:U:H5"	2.48	0.44
9:BI:23:GLY:O	9:BI:59:LYS:C	2.61	0.44
9:BI:118:ARG:O	9:BI:118:ARG:HG2	2.18	0.44
11:BK:60:PHE:O	11:BK:61:ALA:C	2.60	0.44
11:BK:125:LYS:C	21:BU:33:ARG:NH2	2.76	0.44
12:BL:49:ARG:CB	12:BL:89:LEU:HD11	2.48	0.44
13:BM:24:VAL:HG22	13:BM:25:GLY:N	2.32	0.44
13:BM:32:ILE:HG23	13:BM:58:GLU:HB3	1.99	0.44
15:BO:55:LEU:O	15:BO:59:VAL:HG23	2.18	0.44
16:BP:79:ASN:ND2	16:BP:82:ALA:CB	2.81	0.44
25:CA:306:U:O4	25:CA:307:G:C6	2.70	0.44
25:CA:643:A:H2'	25:CA:644:A:C8	2.53	0.44
25:CA:1063:G:H4'	33:CI:76:ALA:HB3	2.00	0.44
25:CA:1310:G:H1'	25:CA:1611:C:H5'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1439:A:N7	25:CA:1552:A:H2	2.15	0.44
25:CA:1606:C:H3'	25:CA:1606:C:H6	1.82	0.44
25:CA:1726:C:C2'	25:CA:1727:C:H5'	2.48	0.44
25:CA:2008:C:H2'	25:CA:2009:A:O5'	2.18	0.44
25:CA:2247:A:H2'	25:CA:2248:C:C6	2.52	0.44
25:CA:2298:A:C6	25:CA:2321:U:C4	3.06	0.44
25:CA:2311:A:C8	30:CF:76:PHE:CD2	3.06	0.44
25:CA:2403:C:C2'	25:CA:2404:U:H5'	2.48	0.44
26:CB:102:G:H2'	26:CB:103:U:C5'	2.48	0.44
27:CC:74:PRO:O	27:CC:75:ALA:HB2	2.18	0.44
29:CE:27:LEU:CD1	29:CE:100:MET:CE	2.96	0.44
30:CF:7:TYR:CA	30:CF:11:VAL:HG23	2.48	0.44
30:CF:79:ARG:HG2	30:CF:80:GLN:H	1.83	0.44
32:CH:5:LEU:C	32:CH:6:LEU:HD12	2.43	0.44
32:CH:25:TYR:HE1	32:CH:29:PHE:CD2	2.35	0.44
32:CH:128:HIS:O	32:CH:144:VAL:HG23	2.18	0.44
33:CI:10:LEU:O	33:CI:23:VAL:HG11	2.18	0.44
33:CI:16:MET:HA	33:CI:16:MET:CE	2.47	0.44
36:CL:110:VAL:C	36:CL:111:ILE:HD12	2.43	0.44
37:CM:111:GLU:OE1	37:CM:112:LEU:HA	2.17	0.44
39:CO:102:ARG:O	39:CO:105:ALA:HB3	2.17	0.44
40:CP:64:SER:O	40:CP:65:ASN:C	2.60	0.44
46:CV:40:ILE:HG22	46:CV:42:LEU:HD23	2.00	0.44
47:CW:22:PHE:O	47:CW:23:GLY:C	2.60	0.44
25:DA:78:U:OP2	49:DY:2:LYS:HD2	2.18	0.44
25:DA:636:G:H3'	36:DL:128:THR:HG21	1.99	0.44
25:DA:901:C:C4	25:DA:902:C:C2	3.05	0.44
25:DA:945:A:C4	25:DA:2448:A:C2	3.06	0.44
25:DA:1178:C:C5'	25:DA:1179:G:OP1	2.66	0.44
25:DA:1221:C:C4	25:DA:1222:U:C5	3.06	0.44
25:DA:1354:A:H5"	25:DA:1355:G:OP2	2.17	0.44
25:DA:1512:C:O5'	25:DA:1512:C:H6	2.00	0.44
25:DA:1717:A:H2'	25:DA:1718:G:C5'	2.48	0.44
25:DA:1731:G:C6	25:DA:1733:G:C5	3.05	0.44
25:DA:1741:C:H2'	25:DA:1742:U:H6	1.82	0.44
25:DA:1870:C:H3'	25:DA:1871:A:H5'	2.00	0.44
25:DA:1878:G:C2'	25:DA:1879:C:H5'	2.48	0.44
25:DA:2029:G:H2'	25:DA:2031:A:OP1	2.18	0.44
25:DA:2179:C:H2'	25:DA:2180:U:H6	1.82	0.44
25:DA:2854:G:C2'	25:DA:2855:C:O5'	2.66	0.44
27:DC:110:LYS:O	27:DC:113:ASP:OD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:136:VAL:HG22	27:DC:166:ARG:CB	2.47	0.44
27:DC:252:LYS:O	27:DC:253:GLY:O	2.35	0.44
29:DE:85:PHE:O	29:DE:86:ALA:C	2.61	0.44
29:DE:151:GLY:O	29:DE:195:GLN:NE2	2.51	0.44
30:DF:16:MET:HE1	30:DF:21:TYR:HB2	1.99	0.44
30:DF:99:PHE:O	30:DF:103:ILE:HG12	2.18	0.44
30:DF:101:ARG:HA	30:DF:105:ILE:HG23	1.99	0.44
30:DF:104:THR:O	30:DF:108:PRO:CG	2.63	0.44
31:DG:39:ALA:CB	31:DG:57:TYR:HB3	2.47	0.44
31:DG:95:ALA:HB2	31:DG:104:LEU:HD23	2.00	0.44
31:DG:130:ILE:HG22	31:DG:131:VAL:N	2.33	0.44
32:DH:102:ALA:O	32:DH:106:ALA:HB2	2.17	0.44
33:DI:27:LEU:HD11	33:DI:34:ILE:CD1	2.48	0.44
37:DM:33:LEU:HD22	37:DM:117:PHE:HB3	2.00	0.44
38:DN:8:ARG:HE	38:DN:43:GLU:CG	2.31	0.44
39:DO:53:THR:HG22	39:DO:74:VAL:HG21	2.00	0.44
44:DT:2:ILE:HA	44:DT:3:ARG:CB	2.46	0.44
46:DV:48:MET:HA	46:DV:86:LEU:HD11	1.99	0.44
52:D1:28:THR:C	52:D1:29:LYS:HD3	2.42	0.44
54:D3:55:GLY:O	54:D3:56:LEU:C	2.61	0.44
1:AA:316:C:C2	1:AA:317:U:C5	3.06	0.44
1:AA:568:G:O6	12:AL:1:ALA:HB2	2.18	0.44
1:AA:663:A:C2’	1:AA:664:G:H5’	2.48	0.44
1:AA:663:A:H5”	18:AR:49:LYS:HD2	2.00	0.44
1:AA:1004:A:C5	1:AA:1026:G:C8	3.06	0.44
1:AA:1076:U:C2	1:AA:1082:A:C2	3.06	0.44
1:AA:1135:U:OP2	1:AA:1135:U:H6	2.01	0.44
1:AA:1310:G:N2	1:AA:1328:C:C2	2.86	0.44
2:AB:20:ARG:HD3	2:AB:20:ARG:HA	1.79	0.44
2:AB:47:PRO:HA	2:AB:50:ASN:ND2	2.33	0.44
2:AB:147:LEU:HD23	2:AB:147:LEU:HA	1.89	0.44
2:AB:164:ASP:O	2:AB:168:GLU:HG2	2.17	0.44
2:AB:216:VAL:C	2:AB:219:THR:HG23	2.41	0.44
5:AE:135:VAL:HG22	5:AE:136:VAL:N	2.32	0.44
6:AF:13:ASP:HB3	4:BD:165:GLU:CD	2.43	0.44
6:AF:41:ASP:OD2	6:AF:41:ASP:C	2.60	0.44
9:AI:6:TYR:CE2	9:AI:17:ARG:CB	3.01	0.44
10:AJ:42:LEU:HA	10:AJ:43:PRO:HD2	1.85	0.44
12:AL:42:LYS:O	12:AL:44:PRO:N	2.50	0.44
13:AM:106:ARG:HH21	13:AM:112:ARG:HB3	1.82	0.44
14:AN:17:ASP:O	14:AN:18:LYS:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:87:ALA:O	14:AN:88:ALA:C	2.61	0.44
15:AO:55:LEU:O	15:AO:58:MET:HB2	2.18	0.44
17:AQ:69:THR:O	17:AQ:69:THR:CG2	2.66	0.44
19:AS:43:MET:O	19:AS:46:LEU:HG	2.18	0.44
20:AT:34:VAL:HG12	20:AT:38:ILE:HD11	1.99	0.44
21:AU:3:ILE:N	21:AU:3:ILE:HD13	2.33	0.44
21:AU:32:ARG:HG2	21:AU:32:ARG:NH1	2.32	0.44
24:AY:23:THR:C	24:AY:25:ILE:N	2.76	0.44
1:BA:57:G:C5	1:BA:58:C:C4	3.06	0.44
1:BA:72:A:N1	1:BA:99:C:H4'	2.33	0.44
1:BA:145:G:N2	1:BA:178:C:N3	2.66	0.44
1:BA:425:G:H2'	1:BA:426:U:O4'	2.18	0.44
1:BA:459:A:C4	1:BA:460:A:C8	3.06	0.44
1:BA:550:G:H2'	1:BA:551:U:C6	2.53	0.44
1:BA:567:G:H2'	1:BA:568:G:O5'	2.18	0.44
1:BA:831:A:C2'	1:BA:832:G:O5'	2.66	0.44
1:BA:861:G:H2'	1:BA:862:C:H6	1.82	0.44
1:BA:864:A:C6	1:BA:865:A:C2	3.06	0.44
1:BA:1097:C:OP1	2:BB:138:ARG:NH2	2.51	0.44
1:BA:1157:A:N6	1:BA:1180:A:C5	2.85	0.44
1:BA:1262:C:H3'	1:BA:1263:C:H6	1.83	0.44
1:BA:1426:G:H2'	1:BA:1427:C:C6	2.53	0.44
1:BA:1526:G:H2'	1:BA:1527:U:C6	2.53	0.44
2:BB:174:GLU:O	2:BB:178:LEU:HD23	2.18	0.44
3:BC:113:LYS:O	3:BC:113:LYS:HD2	2.17	0.44
3:BC:152:VAL:CG2	3:BC:156:LEU:HD21	2.47	0.44
3:BC:156:LEU:O	3:BC:159:ALA:HB2	2.17	0.44
4:BD:69:ARG:O	4:BD:70:GLN:C	2.59	0.44
9:BI:20:ILE:O	9:BI:20:ILE:HG22	2.17	0.44
11:BK:24:ALA:HA	11:BK:29:THR:CG2	2.46	0.44
13:BM:76:ILE:O	13:BM:77:LYS:C	2.61	0.44
14:BN:9:GLU:O	14:BN:12:ARG:N	2.51	0.44
14:BN:19:TYR:C	14:BN:20:PHE:O	2.60	0.44
14:BN:21:ALA:O	14:BN:22:LYS:C	2.61	0.44
15:BO:16:ARG:HD3	15:BO:16:ARG:H	1.83	0.44
18:BR:31:TYR:O	18:BR:39:VAL:CB	2.65	0.44
19:BS:14:LEU:HD12	19:BS:14:LEU:O	2.17	0.44
20:BT:29:THR:O	20:BT:32:LYS:N	2.51	0.44
20:BT:35:TYR:CE2	20:BT:36:ALA:CA	3.01	0.44
20:BT:60:GLN:O	20:BT:61:ALA:C	2.60	0.44
20:BT:60:GLN:O	20:BT:63:LYS:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:137:U:HO2'	25:CA:138:U:P	2.39	0.44
25:CA:327:G:H2'	25:CA:328:U:O4'	2.18	0.44
25:CA:974:G:N3	25:CA:974:G:C2'	2.81	0.44
25:CA:1060:U:OP2	33:CI:75:ALA:N	2.50	0.44
25:CA:1078:U:H1'	25:CA:1088:A:H2	1.83	0.44
25:CA:1082:U:H6	25:CA:1082:U:H3'	1.83	0.44
25:CA:1365:A:H2'	25:CA:1365:A:N3	2.33	0.44
25:CA:1461:C:C2'	25:CA:1462:C:O5'	2.65	0.44
25:CA:1519:G:C6	25:CA:1520:U:C4	3.06	0.44
25:CA:1744:A:H5"	25:CA:1745:A:OP2	2.18	0.44
25:CA:2016:U:H1'	51:C0:2:VAL:HG21	1.99	0.44
25:CA:2585:U:O2'	25:CA:2586:U:C5'	2.66	0.44
25:CA:2822:G:H8	25:CA:2822:G:O5'	2.01	0.44
26:CB:17:C:H2'	26:CB:18:G:O5'	2.17	0.44
27:CC:83:ASP:OD1	27:CC:85:ASN:N	2.51	0.44
28:CD:38:LYS:HB3	28:CD:43:ASP:CG	2.43	0.44
30:CF:7:TYR:CD2	30:CF:11:VAL:HB	2.53	0.44
30:CF:109:ARG:HH12	30:CF:138:PRO:HA	1.83	0.44
46:CV:20:LEU:O	46:CV:23:ALA:N	2.51	0.44
46:CV:80:HIS:CE1	46:CV:83:LYS:CE	3.01	0.44
48:CX:39:VAL:O	48:CX:40:GLU:C	2.59	0.44
48:CX:44:ARG:HG2	48:CX:45:PHE:C	2.43	0.44
52:C1:21:THR:HG23	54:C3:33:THR:HG23	2.00	0.44
55:C4:30:GLU:O	55:C4:33:HIS:N	2.51	0.44
25:DA:122:G:O2'	25:DA:123:G:H5'	2.17	0.44
25:DA:258:G:H1'	36:DL:104:GLN:HE21	1.83	0.44
25:DA:289:G:C6	25:DA:290:U:N3	2.86	0.44
25:DA:521:U:H2'	25:DA:522:A:C8	2.53	0.44
25:DA:1002:G:H2'	25:DA:1003:G:O5'	2.18	0.44
25:DA:1104:C:N4	25:DA:1105:U:O4	2.51	0.44
25:DA:1356:G:C4	25:DA:1357:C:C5	3.06	0.44
25:DA:1477:A:C2	25:DA:1515:A:C6	3.06	0.44
25:DA:1589:U:H2'	25:DA:1589:U:O2	2.18	0.44
25:DA:1963:U:H3'	25:DA:1963:U:C6	2.53	0.44
25:DA:2093:G:C6	25:DA:2225:A:N7	2.86	0.44
25:DA:2365:G:N7	54:D3:38:LYS:NZ	2.64	0.44
25:DA:2391:G:H1'	25:DA:2424:C:N4	2.33	0.44
25:DA:2419:U:H3'	54:D3:32:LEU:HD12	2.00	0.44
25:DA:2657:A:H2'	25:DA:2657:A:N3	2.33	0.44
28:DD:1:MET:HB2	28:DD:88:GLU:CD	2.43	0.44
29:DE:132:LYS:O	29:DE:135:ALA:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DF:129:MET:HE3	30:DF:129:MET:HB2	1.83	0.44
31:DG:10:VAL:HG23	31:DG:14:VAL:CB	2.48	0.44
31:DG:84:LYS:HB2	31:DG:132:LEU:CD1	2.48	0.44
32:DH:104:THR:HG22	32:DH:110:VAL:H	1.83	0.44
33:DI:11:GLN:NE2	33:DI:54:ILE:H	2.16	0.44
34:DJ:55:ILE:HA	34:DJ:123:LYS:O	2.18	0.44
36:DL:127:VAL:CG1	36:DL:131:ALA:HB1	2.47	0.44
38:DN:55:ALA:CB	38:DN:79:LEU:HB2	2.48	0.44
39:DO:29:HIS:CD2	39:DO:30:ARG:N	2.86	0.44
41:DQ:74:SER:O	41:DQ:75:TYR:C	2.60	0.44
41:DQ:79:ILE:HD13	41:DQ:79:ILE:HA	1.73	0.44
45:DU:71:ILE:CD1	45:DU:82:VAL:CG2	2.96	0.44
57:DW:64:LYS:CE	57:DW:66:GLU:OE1	2.66	0.44
52:D1:8:ILE:CG1	52:D1:22:THR:HG23	2.48	0.44
52:D1:8:ILE:HG21	52:D1:24:LYS:HD2	2.00	0.44
54:D3:9:ALA:HB3	54:D3:61:LEU:HD21	2.00	0.44
1:AA:243:A:H4'	1:AA:244:U:H5"	1.99	0.43
1:AA:412:A:H4'	1:AA:412:A:OP1	2.18	0.43
1:AA:669:G:O2'	1:AA:670:G:H5'	2.18	0.43
1:AA:1116:U:O2'	9:AI:109:GLN:HG3	2.18	0.43
1:AA:1124:G:C3'	1:AA:1145:A:N6	2.69	0.43
1:AA:1144:G:C5'	1:AA:1145:A:OP2	2.66	0.43
1:AA:1211:U:H2'	1:AA:1212:U:OP2	2.17	0.43
2:AB:73:ARG:O	2:AB:74:ALA:CB	2.65	0.43
4:AD:57:LYS:C	4:AD:57:LYS:CD	2.91	0.43
5:AE:33:THR:HB	5:AE:49:TYR:CZ	2.53	0.43
5:AE:35:LEU:HD22	5:AE:133:ILE:HA	1.99	0.43
5:AE:93:VAL:CG2	5:AE:110:MET:SD	3.06	0.43
6:AF:39:LEU:CD1	6:AF:40:GLU:N	2.81	0.43
7:AG:25:PHE:O	7:AG:27:ASN:N	2.51	0.43
7:AG:111:GLY:O	7:AG:112:ASP:O	2.35	0.43
8:AH:46:GLU:CA	8:AH:63:LYS:CG	2.96	0.43
9:AI:30:ASN:O	9:AI:32:ARG:HB2	2.18	0.43
9:AI:113:LYS:HD3	9:AI:114:LYS:N	2.33	0.43
9:AI:122:ARG:NH1	9:AI:123:ARG:O	2.51	0.43
11:AK:41:LEU:HB2	11:AK:73:VAL:CG1	2.48	0.43
11:AK:109:ILE:HB	21:AU:5:VAL:HG22	2.00	0.43
11:AK:110:THR:HG23	21:AU:4:LYS:HA	2.00	0.43
12:AL:113:ARG:O	12:AL:115:LYS:O	2.36	0.43
13:AM:21:ILE:CG2	13:AM:22:TYR:O	2.65	0.43
14:AN:64:CYS:HB2	14:AN:80:SER:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:52:ARG:O	15:AO:55:LEU:HB3	2.18	0.43
17:AQ:54:ILE:O	17:AQ:54:ILE:HG23	2.18	0.43
20:AT:78:LEU:O	20:AT:81:GLN:HB2	2.17	0.43
21:AU:18:PHE:O	21:AU:21:SER:N	2.51	0.43
24:AY:141:LYS:O	24:AY:145:LYS:HE3	2.18	0.43
1:BA:49:U:O2	1:BA:362:G:C1'	2.66	0.43
1:BA:375:U:N3	1:BA:376:G:C8	2.86	0.43
1:BA:558:G:H5"	1:BA:559:A:H3'	2.00	0.43
1:BA:625:U:O2'	1:BA:626:G:H5'	2.17	0.43
1:BA:824:G:H1'	8:BH:1:SER:H2	1.82	0.43
1:BA:852:G:C6	1:BA:853:C:C5	3.06	0.43
1:BA:864:A:C6	1:BA:865:A:N1	2.85	0.43
1:BA:976:G:C2	1:BA:1363:A:C2	3.06	0.43
1:BA:977:A:H1'	1:BA:982:U:O4	2.17	0.43
1:BA:1036:A:H3'	1:BA:1037:C:C6	2.53	0.43
1:BA:1049:U:H5	1:BA:1203:C:OP1	2.00	0.43
1:BA:1092:A:C6	1:BA:1093:A:C5	3.06	0.43
1:BA:1114:C:C2	1:BA:1115:U:C6	3.06	0.43
1:BA:1144:G:C3'	1:BA:1145:A:O4'	2.66	0.43
1:BA:1170:A:H2'	1:BA:1171:A:O5'	2.17	0.43
1:BA:1265:C:N3	1:BA:1271:A:N1	2.65	0.43
1:BA:1323:G:O4'	1:BA:1362:A:C2	2.71	0.43
1:BA:1349:A:C2	1:BA:1350:A:H1'	2.54	0.43
2:BB:49:PHE:CA	2:BB:52:ALA:HB3	2.48	0.43
3:BC:10:ARG:HH21	3:BC:181:ILE:CG1	2.31	0.43
4:BD:75:TYR:CE2	4:BD:203:TYR:HB2	2.52	0.43
4:BD:137:SER:CB	4:BD:138:PRO:HD2	2.47	0.43
4:BD:167:PRO:HG2	4:BD:170:LEU:CD1	2.47	0.43
4:BD:191:SER:OG	4:BD:192:ALA:C	2.62	0.43
6:BF:86:ARG:HH11	6:BF:86:ARG:HG3	1.81	0.43
10:BJ:67:ILE:CG1	14:BN:96:LEU:HA	2.47	0.43
14:BN:64:CYS:O	14:BN:65:ARG:C	2.61	0.43
15:BO:35:ILE:HD12	15:BO:62:ARG:HH11	1.83	0.43
15:BO:87:ARG:O	15:BO:88:ARG:C	2.61	0.43
16:BP:6:LEU:HD23	16:BP:17:TYR:HB2	2.00	0.43
17:BQ:10:ARG:HA	17:BQ:57:VAL:HA	1.99	0.43
17:BQ:57:VAL:HG12	17:BQ:58:VAL:N	2.33	0.43
20:BT:53:MET:HE3	20:BT:53:MET:HB2	1.84	0.43
21:BU:4:LYS:HD2	21:BU:4:LYS:C	2.42	0.43
23:BX:4:A:H2'	23:BX:5:A:C8	2.53	0.43
25:CA:479:A:HO2'	25:CA:481:G:H8	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:551:G:H2'	25:CA:552:U:C5'	2.48	0.43
25:CA:818:G:H2'	25:CA:819:A:OP2	2.18	0.43
25:CA:969:G:H2'	25:CA:970:U:C6	2.53	0.43
25:CA:974:G:N3	25:CA:974:G:H2'	2.32	0.43
25:CA:1062:G:H21	33:CI:134:SER:HB3	1.83	0.43
25:CA:1071:G:N9	25:CA:1089:A:N7	2.66	0.43
25:CA:1179:G:C6	25:CA:1180:U:H1'	2.52	0.43
25:CA:1502:A:C4	25:CA:1503:A:C8	3.06	0.43
25:CA:1689:A:C6	25:CA:1700:A:C2	3.06	0.43
25:CA:1772:A:OP1	60:CA:3459:HOH:O	2.21	0.43
25:CA:2107:G:C2	25:CA:2108:A:C8	3.05	0.43
25:CA:2218:G:C2'	25:CA:2219:U:H5'	2.48	0.43
25:CA:2259:U:C4	25:CA:2427:C:N4	2.86	0.43
25:CA:2547:A:C5'	35:CK:29:HIS:NE2	2.81	0.43
25:CA:2591:C:OP2	27:CC:236:GLY:O	2.35	0.43
25:CA:2592:G:H8	25:CA:2592:G:O5'	2.01	0.43
25:CA:2670:A:H2'	25:CA:2671:G:O5'	2.18	0.43
25:CA:2733:A:H2'	25:CA:2734:A:H8	1.83	0.43
29:CE:183:PHE:CD1	29:CE:183:PHE:N	2.85	0.43
30:CF:142:TYR:HA	30:CF:145:VAL:CG1	2.48	0.43
31:CG:25:ILE:O	31:CG:78:VAL:CG1	2.62	0.43
32:CH:2:GLN:O	32:CH:3:VAL:HG13	2.18	0.43
32:CH:119:ASN:N	32:CH:120:GLY:HA3	2.31	0.43
32:CH:135:HIS:CG	32:CH:136:SER:N	2.85	0.43
33:CI:57:VAL:H	33:CI:71:LYS:HE2	1.83	0.43
33:CI:92:PRO:HB3	33:CI:135:MET:O	2.18	0.43
33:CI:96:LYS:HG3	33:CI:138:VAL:CG2	2.42	0.43
33:CI:130:GLY:C	33:CI:132:ALA:N	2.75	0.43
34:CJ:58:ASN:HD21	34:CJ:128:ASN:HB2	1.82	0.43
38:CN:16:HIS:C	38:CN:16:HIS:CD2	2.96	0.43
40:CP:30:TRP:CZ2	40:CP:39:LEU:HD11	2.52	0.43
40:CP:51:ASN:C	40:CP:52:ARG:HG2	2.43	0.43
40:CP:60:VAL:HG12	40:CP:61:ARG:N	2.33	0.43
41:CQ:40:LYS:C	41:CQ:42:GLY:H	2.26	0.43
44:CT:48:GLN:C	44:CT:49:LYS:HE3	2.43	0.43
53:C2:33:ARG:O	53:C2:36:ALA:HB3	2.18	0.43
25:DA:7:G:H5"	34:DJ:123:LYS:HZ1	1.81	0.43
25:DA:39:G:H2'	25:DA:39:G:N3	2.33	0.43
25:DA:60:G:P	25:DA:60:G:H3'	2.58	0.43
25:DA:279:A:C5	25:DA:280:U:C6	3.06	0.43
25:DA:659:G:O5'	29:DE:95:LYS:CD	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1051:G:H8	25:DA:1051:G:OP2	2.01	0.43
25:DA:1070:A:N6	33:DI:10:LEU:HB3	2.32	0.43
25:DA:1366:A:C2	25:DA:1367:A:H1'	2.52	0.43
25:DA:1403:A:C6	25:DA:1404:C:C4	3.06	0.43
25:DA:1428:C:N4	25:DA:1570:A:OP2	2.47	0.43
25:DA:1429:G:H2'	25:DA:1430:G:C8	2.53	0.43
25:DA:1441:G:N3	25:DA:1442:U:C5	2.86	0.43
25:DA:1598:A:C6	25:DA:1599:U:N3	2.86	0.43
25:DA:1731:G:C2'	25:DA:1732:C:O5'	2.65	0.43
25:DA:1795:C:C4	25:DA:1796:U:C5	3.06	0.43
25:DA:1868:C:H2'	25:DA:1869:G:O4'	2.18	0.43
25:DA:2333:A:O4'	25:DA:2335:A:H1'	2.18	0.43
25:DA:2678:C:O2'	25:DA:2679:A:H5'	2.18	0.43
25:DA:2838:G:C2'	25:DA:2839:G:H5'	2.48	0.43
56:DB:116:G:O2'	56:DB:117:G:H5'	2.18	0.43
29:DE:178:VAL:HG12	29:DE:179:SER:N	2.32	0.43
30:DF:57:ALA:HB1	30:DF:62:GLN:O	2.18	0.43
31:DG:5:LYS:O	31:DG:6:ALA:CB	2.63	0.43
32:DH:8:LYS:O	32:DH:9:VAL:HB	2.17	0.43
32:DH:135:HIS:CD2	32:DH:137:GLU:H	2.35	0.43
33:DI:17:ALA:CB	33:DI:41:PHE:CE2	3.00	0.43
33:DI:79:LEU:HD23	33:DI:83:ALA:CB	2.48	0.43
34:DJ:9:GLU:O	34:DJ:10:THR:HG22	2.18	0.43
36:DL:91:ASP:HB3	36:DL:94:THR:CG2	2.48	0.43
40:DP:100:ARG:O	40:DP:101:GLU:HG2	2.17	0.43
42:DR:47:VAL:CG1	42:DR:54:VAL:CG2	2.96	0.43
43:DS:84:ARG:HB3	43:DS:96:ILE:HD11	2.00	0.43
45:DU:85:ARG:O	45:DU:92:VAL:HG22	2.16	0.43
49:DY:8:GLU:HB3	49:DY:13:GLU:HG3	2.00	0.43
50:DZ:36:GLU:C	50:DZ:37:ARG:HD3	2.43	0.43
1:AA:155:A:H2'	1:AA:156:C:C6	2.54	0.43
1:AA:194:C:O2'	1:AA:195:A:H5'	2.18	0.43
1:AA:290:C:H3'	1:AA:290:C:C6	2.53	0.43
1:AA:460:A:H5"	1:AA:461:A:OP2	2.18	0.43
1:AA:654:G:C6	1:AA:753:A:C8	3.06	0.43
1:AA:763:G:C4	1:AA:764:C:C5	3.06	0.43
1:AA:1029:U:O2	1:AA:1033:G:C4	2.71	0.43
1:AA:1032:G:N2	1:AA:1033:G:C8	2.86	0.43
1:AA:1033:G:N1	1:AA:1034:G:C8	2.86	0.43
1:AA:1203:C:H4'	14:AN:67:THR:HG22	2.00	0.43
1:AA:1357:A:C5	1:AA:1358:U:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1426:G:H2'	1:AA:1427:C:O5'	2.18	0.43
2:AB:58:LYS:HD3	2:AB:58:LYS:C	2.43	0.43
5:AE:114:LEU:HA	5:AE:114:LEU:HD12	1.74	0.43
6:AF:4:TYR:CE2	6:AF:71:ILE:HG21	2.53	0.43
7:AG:61:PHE:CD1	7:AG:61:PHE:C	2.95	0.43
7:AG:94:ARG:C	7:AG:96:ASN:N	2.74	0.43
10:AJ:35:GLN:OE1	10:AJ:78:GLU:CB	2.66	0.43
10:AJ:49:PHE:CD2	14:AN:77:PHE:CE1	3.06	0.43
10:AJ:49:PHE:CE2	14:AN:77:PHE:CZ	3.05	0.43
11:AK:113:THR:HA	11:AK:114:PRO:HD3	1.86	0.43
13:AM:18:LEU:O	13:AM:24:VAL:HG21	2.18	0.43
13:AM:76:ILE:O	13:AM:77:LYS:C	2.60	0.43
14:AN:53:ARG:C	14:AN:55:SER:H	2.26	0.43
14:AN:64:CYS:CB	14:AN:80:SER:H	2.31	0.43
19:AS:46:LEU:O	19:AS:61:VAL:HG23	2.18	0.43
21:AU:18:PHE:O	21:AU:18:PHE:HD2	2.00	0.43
24:AY:157:SER:O	24:AY:158:GLN:C	2.58	0.43
1:BA:108:G:C5	20:BT:9:ARG:HG2	2.53	0.43
1:BA:110:C:N4	1:BA:111:G:N1	2.66	0.43
1:BA:135:C:N3	16:BP:1:MET:HB2	2.32	0.43
1:BA:253:A:C2	1:BA:254:G:C5	3.06	0.43
1:BA:273:U:C4	1:BA:274:A:N7	2.86	0.43
1:BA:505:G:C6	1:BA:535:A:C2	3.06	0.43
1:BA:538:G:H5"	12:BL:110:LYS:HB2	1.99	0.43
1:BA:557:G:H3'	1:BA:558:G:H8	1.83	0.43
1:BA:560:A:C6	1:BA:566:G:O4'	2.71	0.43
1:BA:621:A:H2'	1:BA:622:A:C8	2.52	0.43
1:BA:933:G:C4	1:BA:935:A:C8	3.06	0.43
1:BA:1014:A:C5	1:BA:1015:G:C6	3.06	0.43
1:BA:1064:G:N2	1:BA:1190:G:H1'	2.33	0.43
1:BA:1090:U:N3	1:BA:1091:U:C4	2.85	0.43
1:BA:1125:U:C2	1:BA:1127:G:C8	3.06	0.43
1:BA:1161:C:N3	1:BA:1175:G:O6	2.51	0.43
5:BE:95:MET:HE1	5:BE:114:LEU:HD21	1.98	0.43
7:BG:139:ASP:C	7:BG:141:HIS:H	2.25	0.43
8:BH:16:GLY:O	8:BH:17:GLN:C	2.61	0.43
17:BQ:30:HIS:HA	17:BQ:31:PRO:HD3	1.87	0.43
20:BT:36:ALA:C	20:BT:38:ILE:N	2.74	0.43
25:CA:72:U:H1'	49:CY:51:ALA:CB	2.48	0.43
25:CA:277:G:H8	25:CA:361:G:O6	2.00	0.43
25:CA:528:A:C2	25:CA:2043:C:O5'	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1239:G:H2'	25:CA:1240:U:O4'	2.18	0.43
25:CA:1351:C:H2'	25:CA:1352:U:O4'	2.18	0.43
25:CA:1881:C:H2'	25:CA:1882:U:O4'	2.18	0.43
25:CA:2146:C:H4'	25:CA:2147:A:N7	2.33	0.43
25:CA:2152:G:C6	25:CA:2153:C:N3	2.85	0.43
25:CA:2193:G:C6	25:CA:2194:U:C5	3.06	0.43
25:CA:2238:G:H2'	25:CA:2238:G:N3	2.32	0.43
25:CA:2305:U:O2'	30:CF:132:ARG:CZ	2.67	0.43
25:CA:2531:A:C2	25:CA:2532:G:N9	2.86	0.43
25:CA:2681:C:C2	25:CA:2724:U:O4	2.71	0.43
27:CC:1:ALA:HB3	27:CC:19:VAL:O	2.18	0.43
27:CC:121:ALA:O	27:CC:122:ALA:O	2.37	0.43
30:CF:39:VAL:O	30:CF:41:GLU:N	2.51	0.43
31:CG:68:ARG:HD3	31:CG:68:ARG:C	2.43	0.43
33:CI:28:GLY:O	33:CI:34:ILE:CD1	2.66	0.43
35:CK:75:SER:O	35:CK:76:VAL:HG23	2.18	0.43
36:CL:109:LYS:HE2	36:CL:128:THR:CG2	2.45	0.43
38:CN:23:ASN:O	38:CN:26:GLY:N	2.52	0.43
39:CO:24:THR:HG22	39:CO:42:PRO:CG	2.47	0.43
39:CO:66:GLY:HA2	39:CO:102:ARG:HH22	1.83	0.43
43:CS:43:ALA:O	43:CS:47:VAL:CG1	2.57	0.43
48:CX:57:VAL:HG12	48:CX:58:ILE:N	2.32	0.43
50:CZ:9:THR:HG22	50:CZ:10:ARG:CG	2.48	0.43
25:DA:54:G:C6	25:DA:55:G:N7	2.86	0.43
25:DA:282:A:N1	25:DA:283:G:C6	2.86	0.43
25:DA:357:C:N4	25:DA:358:U:O4	2.51	0.43
25:DA:811:U:H2'	36:DL:21:ARG:HA	1.98	0.43
25:DA:822:G:H2'	25:DA:823:C:H6	1.83	0.43
25:DA:846:U:O2'	25:DA:847:U:P	2.77	0.43
25:DA:1248:G:OP1	29:DE:44:ARG:NH1	2.52	0.43
25:DA:1268:A:C2'	25:DA:1269:A:O5'	2.67	0.43
25:DA:1408:G:H2'	25:DA:1409:U:C6	2.53	0.43
25:DA:1414:C:N3	25:DA:1415:U:C5	2.87	0.43
25:DA:1773:A:C2'	25:DA:1774:C:H5'	2.48	0.43
25:DA:1936:A:H2	25:DA:1943:U:O4	2.00	0.43
25:DA:2047:C:N4	60:DA:3680:HOH:O	2.51	0.43
25:DA:2148:G:H2'	25:DA:2149:U:OP2	2.18	0.43
25:DA:2370:G:O6	25:DA:2371:G:C6	2.71	0.43
25:DA:2531:A:C5	25:DA:2532:G:C8	3.06	0.43
25:DA:2562:U:P	35:DK:40:LYS:HD3	2.58	0.43
25:DA:2648:G:C4	25:DA:2649:C:C6	3.05	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2803:G:C4	25:DA:2804:U:C5	3.05	0.43
25:DA:2839:G:C2'	25:DA:2840:C:O5'	2.67	0.43
27:DC:35:LYS:NZ	27:DC:37:SER:HB3	2.33	0.43
27:DC:147:PRO:CD	27:DC:184:GLU:OE2	2.66	0.43
27:DC:171:VAL:HG23	27:DC:173:LEU:HD13	2.00	0.43
30:DF:89:THR:HG22	30:DF:89:THR:O	2.18	0.43
32:DH:14:SER:C	32:DH:15:LEU:HD22	2.43	0.43
32:DH:29:PHE:CD2	32:DH:30:LEU:HD23	2.53	0.43
33:DI:36:GLU:HB2	33:DI:66:PHE:HE2	1.83	0.43
34:DJ:103:ILE:O	34:DJ:104:ALA:C	2.60	0.43
35:DK:51:LYS:C	35:DK:52:VAL:HG13	2.43	0.43
35:DK:92:GLU:CA	35:DK:92:GLU:OE2	2.65	0.43
37:DM:66:ARG:HH11	37:DM:66:ARG:CG	2.30	0.43
38:DN:32:GLU:CG	38:DN:115:LEU:HD12	2.48	0.43
38:DN:55:ALA:HB1	38:DN:80:PHE:N	2.33	0.43
39:DO:106:LEU:CD2	39:DO:106:LEU:O	2.66	0.43
42:DR:49:ILE:CG2	42:DR:53:PHE:CA	2.96	0.43
42:DR:51:VAL:O	42:DR:52:PRO:C	2.58	0.43
42:DR:68:ARG:HB3	42:DR:90:ARG:HD3	1.99	0.43
44:DT:7:LEU:HD21	44:DT:46:ALA:CB	2.47	0.43
48:DX:48:LEU:O	48:DX:50:VAL:HG13	2.17	0.43
51:D0:43:THR:C	51:D0:45:ASP:H	2.24	0.43
52:D1:8:ILE:HG12	52:D1:22:THR:HG23	1.99	0.43
1:AA:285:C:C2	1:AA:286:C:C5	3.06	0.43
1:AA:525:C:N4	1:AA:526:C:N4	2.65	0.43
1:AA:771:G:H2'	1:AA:772:U:H5'	2.00	0.43
1:AA:944:G:O6	1:AA:1337:G:H3'	2.18	0.43
1:AA:1004:A:H2'	1:AA:1005:A:C5'	2.49	0.43
1:AA:1188:A:C2'	1:AA:1189:U:H5'	2.48	0.43
1:AA:1201:A:H4'	1:AA:1202:U:O5'	2.18	0.43
2:AB:53:LEU:HD12	2:AB:216:VAL:HA	2.00	0.43
2:AB:180:ILE:HA	2:AB:181:PRO:HD3	1.69	0.43
2:AB:195:VAL:CG1	2:AB:197:PHE:O	2.66	0.43
3:AC:21:TRP:CD1	3:AC:58:ARG:CD	3.01	0.43
4:AD:14:GLU:HA	4:AD:14:GLU:OE1	2.17	0.43
4:AD:152:SER:OG	4:AD:153:ARG:N	2.50	0.43
4:AD:168:THR:CB	4:AD:183:ARG:HH22	2.27	0.43
9:AI:56:MET:SD	9:AI:56:MET:N	2.91	0.43
9:AI:83:THR:HG21	9:AI:102:PHE:CB	2.48	0.43
9:AI:129:ARG:NH1	9:AI:129:ARG:HB3	2.33	0.43
10:AJ:65:TYR:HB3	14:AN:96:LEU:CD1	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:3:ILE:O	13:AM:3:ILE:HG12	2.18	0.43
13:AM:74:MET:SD	30:CF:111:ARG:CD	3.06	0.43
14:AN:82:ILE:HG22	14:AN:83:LYS:N	2.33	0.43
15:AO:34:GLN:CB	15:AO:58:MET:HE2	2.48	0.43
19:AS:44:ILE:CD1	19:AS:63:ASP:HA	2.47	0.43
24:AY:106:LEU:HA	24:AY:106:LEU:HD13	1.76	0.43
1:BA:128:G:N1	1:BA:129:A:C6	2.87	0.43
1:BA:303:A:O2'	1:BA:555:U:H4'	2.18	0.43
1:BA:318:G:C6	1:BA:319:G:C5	3.07	0.43
1:BA:390:U:H2'	1:BA:391:G:C8	2.53	0.43
1:BA:1236:A:H4'	1:BA:1304:G:H4'	1.99	0.43
1:BA:1291:U:C2	1:BA:1292:G:N7	2.85	0.43
1:BA:1360:A:N6	1:BA:1361:G:N2	2.66	0.43
1:BA:1422:G:C2	1:BA:1423:G:C4	3.06	0.43
1:BA:1423:G:C4	1:BA:1424:U:C6	3.06	0.43
1:BA:1538:C:H3'	1:BA:1538:C:H6	1.83	0.43
2:BB:19:THR:O	2:BB:20:ARG:CZ	2.67	0.43
2:BB:78:ALA:O	2:BB:81:ASP:OD2	2.35	0.43
2:BB:180:ILE:HG22	2:BB:181:PRO:N	2.33	0.43
2:BB:207:ARG:C	2:BB:209:VAL:N	2.77	0.43
3:BC:57:GLU:OE1	10:BJ:94:ALA:HB1	2.18	0.43
3:BC:63:ILE:CG1	3:BC:65:VAL:HG23	2.47	0.43
4:BD:84:ASN:OD1	4:BD:87:GLU:HG3	2.19	0.43
6:BF:53:LYS:O	6:BF:54:LEU:CB	2.65	0.43
6:BF:63:ASN:ND2	6:BF:96:VAL:HG22	2.32	0.43
8:BH:26:MET:O	8:BH:27:PRO:C	2.61	0.43
9:BI:11:ARG:CZ	9:BI:106:ASP:OD1	2.66	0.43
9:BI:123:ARG:HG3	9:BI:124:PRO:N	2.33	0.43
10:BJ:46:LYS:HG2	10:BJ:68:ARG:HG2	2.00	0.43
12:BL:23:LEU:HD23	12:BL:24:GLU:HG3	2.01	0.43
12:BL:42:LYS:HE3	12:BL:43:LYS:CD	2.46	0.43
13:BM:58:GLU:O	13:BM:61:LYS:HB2	2.19	0.43
15:BO:64:LYS:O	15:BO:65:LEU:C	2.61	0.43
15:BO:86:LEU:O	15:BO:88:ARG:N	2.52	0.43
18:BR:72:ARG:HB2	18:BR:73:HIS:HD2	1.82	0.43
20:BT:26:MET:O	20:BT:27:MET:C	2.59	0.43
22:BV:18:G:N2	22:BV:57:G:H2'	2.34	0.43
25:CA:71:A:C5'	25:CA:72:U:H3'	2.47	0.43
25:CA:96:C:O2'	25:CA:97:C:H5'	2.17	0.43
25:CA:275:C:C4	25:CA:276:U:C6	3.07	0.43
25:CA:404:A:C8	25:CA:406:G:C6	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:527:C:H4'	25:CA:528:A:O5'	2.18	0.43
25:CA:626:A:C2	36:CL:78:ARG:HD3	2.53	0.43
25:CA:929:U:H4'	50:CZ:37:ARG:NH2	2.33	0.43
25:CA:1085:A:N6	25:CA:1086:A:H61	2.17	0.43
25:CA:1095:A:C6	25:CA:1096:A:N6	2.86	0.43
25:CA:1249:U:H4'	41:CQ:3:VAL:CG1	2.48	0.43
25:CA:1297:C:O2'	25:CA:1302:A:N1	2.46	0.43
25:CA:1414:C:C6	25:CA:1415:U:C5	3.06	0.43
25:CA:1806:C:H2'	25:CA:1807:G:O5'	2.19	0.43
25:CA:1915:U:H3'	25:CA:1916:A:H8	1.83	0.43
25:CA:2120:G:H3'	25:CA:2120:G:C8	2.52	0.43
25:CA:2650:U:H2'	25:CA:2651:C:C6	2.53	0.43
25:CA:2723:C:N4	25:CA:2724:U:C4	2.85	0.43
26:CB:20:G:C2'	26:CB:21:G:C5'	2.96	0.43
27:CC:259:ASN:C	27:CC:260:LYS:HG3	2.44	0.43
28:CD:132:ALA:HA	28:CD:140:HIS:ND1	2.33	0.43
29:CE:155:GLU:HG3	29:CE:159:LEU:HD22	2.00	0.43
30:CF:27:VAL:O	30:CF:27:VAL:HG13	2.18	0.43
30:CF:94:ARG:HB3	30:CF:94:ARG:HH11	1.84	0.43
33:CI:57:VAL:CG1	33:CI:59:THR:OG1	2.67	0.43
33:CI:79:LEU:HD22	33:CI:137:LEU:HD11	2.00	0.43
33:CI:121:ILE:HG22	33:CI:121:ILE:O	2.19	0.43
43:CS:27:LYS:C	43:CS:28:LYS:O	2.58	0.43
45:CU:73:ASN:O	45:CU:74:ALA:C	2.59	0.43
49:CY:9:LYS:HG2	49:CY:11:VAL:H	1.82	0.43
51:C0:11:LYS:HD2	51:C0:11:LYS:HA	1.92	0.43
25:DA:88:G:C2	25:DA:89:A:C8	3.05	0.43
25:DA:200:U:H2'	25:DA:201:C:H5'	2.00	0.43
25:DA:250:G:C6	25:DA:251:A:C6	3.06	0.43
25:DA:262:A:C2	25:DA:430:A:N3	2.86	0.43
25:DA:264:C:O2	25:DA:264:C:C2'	2.64	0.43
25:DA:353:C:N4	25:DA:354:A:N6	2.66	0.43
25:DA:370:G:OP2	60:DA:3567:HOH:O	2.21	0.43
25:DA:861:A:C2	25:DA:917:A:N3	2.86	0.43
25:DA:935:C:C2'	25:DA:936:A:H5'	2.49	0.43
25:DA:948:C:H2'	25:DA:949:G:C8	2.54	0.43
25:DA:1064:C:N3	25:DA:1074:G:N2	2.65	0.43
25:DA:1133:A:C8	25:DA:2026:U:H4'	2.53	0.43
25:DA:1136:G:C2'	25:DA:1137:G:H5'	2.47	0.43
25:DA:1341:G:OP2	25:DA:1394:U:H1'	2.19	0.43
25:DA:1410:G:N2	25:DA:1593:A:C5	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1471:G:H2'	25:DA:1471:G:N3	2.33	0.43
25:DA:1517:G:N2	25:DA:1732:C:N3	2.66	0.43
25:DA:1594:U:O5'	25:DA:1594:U:H6	2.01	0.43
25:DA:1724:G:C6	25:DA:1725:U:C4	3.06	0.43
25:DA:1857:G:H1'	25:DA:1884:G:N2	2.32	0.43
25:DA:1885:A:C2'	25:DA:1886:U:H5'	2.49	0.43
25:DA:1914:C:O2	25:DA:1914:C:O4'	2.34	0.43
25:DA:2080:A:C5'	48:DX:18:SER:HB3	2.49	0.43
25:DA:2304:G:O2'	30:DF:152:ASP:HB2	2.19	0.43
25:DA:2399:G:H2'	25:DA:2400:G:O4'	2.17	0.43
25:DA:2618:G:C6	25:DA:2619:C:C4	3.07	0.43
25:DA:2745:C:C2	25:DA:2746:U:C6	3.06	0.43
25:DA:2746:U:C4	25:DA:2747:G:C5	3.05	0.43
25:DA:2769:U:H2'	25:DA:2770:G:O4'	2.17	0.43
27:DC:124:LYS:HG2	27:DC:127:ASN:ND2	2.33	0.43
28:DD:1:MET:CE	28:DD:1:MET:N	2.82	0.43
33:DI:110:GLN:C	33:DI:112:LYS:H	2.26	0.43
35:DK:76:VAL:HG12	40:DP:72:VAL:HG21	1.94	0.43
36:DL:119:PRO:CG	36:DL:138:ALA:O	2.65	0.43
37:DM:49:ALA:HB2	37:DM:124:LEU:CD2	2.48	0.43
41:DQ:75:TYR:CZ	41:DQ:79:ILE:HG13	2.54	0.43
42:DR:37:GLU:OE2	42:DR:53:PHE:CE2	2.72	0.43
42:DR:46:GLU:C	42:DR:46:GLU:OE2	2.61	0.43
46:DV:21:ARG:HA	46:DV:25:LYS:O	2.17	0.43
49:DY:57:LEU:HD12	49:DY:57:LEU:C	2.43	0.43
50:DZ:43:ILE:O	50:DZ:44:ARG:C	2.61	0.43
51:D0:29:VAL:HG12	51:D0:30:ASP:N	2.33	0.43
54:D3:38:LYS:O	54:D3:38:LYS:HG3	2.18	0.43
1:AA:100:G:C5	1:AA:101:A:C5	3.06	0.43
1:AA:212:G:C2	1:AA:213:G:C5	3.06	0.43
1:AA:445:G:H2'	1:AA:446:G:O4'	2.18	0.43
1:AA:499:A:H61	1:AA:547:A:H5"	1.83	0.43
1:AA:674:G:C2'	1:AA:675:A:O5'	2.66	0.43
1:AA:833:G:C6	1:AA:834:U:C4	3.06	0.43
1:AA:879:C:C6	1:AA:879:C:H3'	2.54	0.43
1:AA:1031:C:O2'	1:AA:1032:G:P	2.76	0.43
1:AA:1124:G:O4'	10:AJ:40:ILE:HD11	2.18	0.43
1:AA:1150:A:O2'	10:AJ:43:PRO:HD3	2.19	0.43
1:AA:1257:A:H4'	1:AA:1258:G:OP2	2.18	0.43
1:AA:1321:U:O3'	19:AS:77:ARG:NH2	2.52	0.43
1:AA:1347:G:C8	9:AI:108:ARG:CB	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1494:G:C2	1:AA:1495:U:C5	3.06	0.43
2:AB:25:LYS:NZ	2:AB:193:ASP:OD2	2.51	0.43
2:AB:40:ILE:HG12	2:AB:41:ASN:N	2.32	0.43
2:AB:63:LYS:CB	2:AB:65:LYS:HE2	2.48	0.43
2:AB:69:VAL:O	2:AB:162:VAL:HA	2.18	0.43
2:AB:71:THR:HG22	2:AB:92:ASN:O	2.18	0.43
2:AB:116:LEU:CB	2:AB:140:LEU:HD11	2.48	0.43
3:AC:5:HIS:CB	14:AN:89:MET:HG3	2.49	0.43
3:AC:13:ILE:HG13	3:AC:14:VAL:HG13	2.00	0.43
4:AD:104:MET:SD	4:AD:106:PHE:CE2	3.12	0.43
4:AD:159:GLU:O	4:AD:162:GLU:OE1	2.37	0.43
4:AD:189:ASP:O	4:AD:190:LEU:CG	2.66	0.43
9:AI:118:ARG:C	9:AI:119:LYS:HG2	2.43	0.43
14:AN:7:ALA:O	14:AN:10:VAL:HB	2.18	0.43
15:AO:29:ALA:HA	15:AO:84:LEU:HD21	2.01	0.43
17:AQ:56:ASP:N	17:AQ:56:ASP:OD2	2.51	0.43
17:AQ:76:ARG:HH21	17:AQ:78:VAL:HG22	1.84	0.43
19:AS:33:TRP:CZ2	19:AS:56:HIS:HE1	2.37	0.43
20:AT:34:VAL:HG11	20:AT:78:LEU:HD22	2.01	0.43
20:AT:71:ALA:O	20:AT:74:HIS:HB2	2.18	0.43
21:AU:14:ALA:O	21:AU:15:LEU:HB2	2.18	0.43
24:AY:110:ARG:HE	24:AY:114:LEU:HD11	1.84	0.43
24:AY:140:VAL:HG12	24:AY:154:ASP:OD2	2.17	0.43
1:BA:69:G:C4	1:BA:70:U:H5	2.36	0.43
1:BA:102:G:C4	1:BA:103:U:C5	3.07	0.43
1:BA:1018:G:C6	1:BA:1019:A:C6	3.06	0.43
1:BA:1275:A:C6	1:BA:1276:G:C4	3.06	0.43
1:BA:1387:G:C2'	1:BA:1388:C:H5'	2.48	0.43
1:BA:1538:C:OP2	1:BA:1538:C:C5	2.72	0.43
2:BB:183:PHE:CE1	2:BB:197:PHE:CD2	3.06	0.43
3:BC:150:VAL:CG1	3:BC:199:VAL:HB	2.48	0.43
5:BE:9:GLU:O	5:BE:11:GLN:HB3	2.19	0.43
5:BE:111:ARG:CZ	5:BE:111:ARG:HB2	2.48	0.43
6:BF:38:ARG:NH1	6:BF:63:ASN:HB2	2.33	0.43
9:BI:18:VAL:CG1	9:BI:85:ALA:CB	2.96	0.43
9:BI:114:LYS:HB2	9:BI:117:LEU:HD22	1.99	0.43
10:BJ:56:HIS:C	10:BJ:57:VAL:HG12	2.43	0.43
11:BK:69:CYS:O	11:BK:73:VAL:HG11	2.18	0.43
12:BL:98:ARG:HB2	12:BL:116:TYR:HA	2.00	0.43
14:BN:43:ASN:O	14:BN:47:LYS:CG	2.66	0.43
15:BO:69:LEU:HD13	15:BO:77:TYR:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BP:10:GLY:HA3	16:BP:15:PRO:CA	2.45	0.43
19:BS:49:ALA:HB1	19:BS:56:HIS:HB3	2.00	0.43
21:BU:36:PHE:CD1	21:BU:40:PRO:HG3	2.54	0.43
25:CA:100:U:H4'	25:CA:101:A:O5'	2.16	0.43
25:CA:538:A:O2'	34:CJ:8:PRO:HD2	2.18	0.43
25:CA:677:A:O3'	25:CA:2071:A:H5"	2.19	0.43
25:CA:919:U:C2	25:CA:920:A:C8	3.06	0.43
25:CA:1274:A:N1	25:CA:1644:C:O2'	2.44	0.43
25:CA:1452:G:C8	25:CA:1457:U:N3	2.86	0.43
25:CA:1484:U:C2	25:CA:1485:U:C5	3.06	0.43
25:CA:1683:U:O5'	25:CA:1683:U:H6	2.01	0.43
25:CA:1693:U:O4	25:CA:1977:A:C5	2.71	0.43
25:CA:2008:C:C2'	25:CA:2009:A:O5'	2.66	0.43
25:CA:2078:C:C2'	25:CA:2079:U:H5'	2.48	0.43
25:CA:2172:U:P	25:CA:2174:C:H5	2.41	0.43
25:CA:2190:G:N3	25:CA:2190:G:H2'	2.33	0.43
25:CA:2356:U:O3'	47:CW:16:ARG:HD3	2.19	0.43
25:CA:2452:C:C4	25:CA:2453:A:C6	3.07	0.43
27:CC:221:GLY:C	27:CC:223:ALA:H	2.25	0.43
28:CD:97:SER:C	28:CD:99:GLU:N	2.77	0.43
28:CD:107:VAL:HA	28:CD:206:ALA:H	1.83	0.43
32:CH:45:GLU:O	32:CH:48:GLU:HB3	2.18	0.43
33:CI:126:ARG:HA	33:CI:129:GLU:CD	2.44	0.43
35:CK:74:GLY:O	35:CK:75:SER:O	2.36	0.43
36:CL:85:VAL:CG1	36:CL:94:THR:CG2	2.95	0.43
37:CM:136:MET:SD	46:CV:75:GLN:O	2.76	0.43
44:CT:12:ARG:O	49:CY:29:ARG:HD2	2.18	0.43
46:CV:24:ASN:OD1	46:CV:44:HIS:HB3	2.18	0.43
49:CY:61:ALA:O	49:CY:63:ALA:N	2.51	0.43
52:C1:9:LYS:O	52:C1:50:GLU:HG3	2.19	0.43
25:DA:7:G:H4'	34:DJ:15:TRP:CH2	2.53	0.43
25:DA:136:G:H1	25:DA:143:C:H42	1.66	0.43
25:DA:224:U:C4	25:DA:225:C:C5	3.06	0.43
25:DA:231:A:C6	25:DA:232:G:N1	2.86	0.43
25:DA:318:C:C2'	25:DA:319:G:O5'	2.66	0.43
25:DA:783:A:C8	25:DA:783:A:H3'	2.54	0.43
25:DA:1045:C:O2	25:DA:1047:G:N1	2.51	0.43
25:DA:1373:A:C5	25:DA:1374:G:H1'	2.53	0.43
25:DA:1401:G:C8	25:DA:1402:U:C5	3.06	0.43
25:DA:1579:A:O2'	25:DA:1580:A:H5'	2.18	0.43
25:DA:1582:C:C5	25:DA:1583:A:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1599:U:OP2	44:DT:40:LYS:HD2	2.18	0.43
25:DA:1789:A:OP1	27:DC:219:VAL:HA	2.19	0.43
25:DA:1856:U:C5	25:DA:1857:G:C5	3.07	0.43
25:DA:1878:G:H2'	25:DA:1879:C:H6	1.82	0.43
25:DA:2048:G:C2'	25:DA:2049:G:O5'	2.67	0.43
25:DA:2176:A:H2'	25:DA:2177:C:C6	2.53	0.43
25:DA:2354:C:O2'	57:DW:32:ILE:N	2.51	0.43
25:DA:2449:U:H4'	25:DA:2450:A:OP1	2.18	0.43
25:DA:2722:G:O2'	25:DA:2723:C:H5'	2.17	0.43
25:DA:2742:G:OP1	55:D4:36:ARG:HD3	2.19	0.43
25:DA:2758:A:C6	25:DA:2759:G:C8	3.07	0.43
25:DA:2808:G:C2	25:DA:2891:U:C5	3.07	0.43
56:DB:17:C:C2'	56:DB:18:G:H5'	2.48	0.43
56:DB:48:U:H4'	39:DO:100:HIS:NE2	2.33	0.43
27:DC:216:ARG:HB3	27:DC:217:PRO:HD2	1.98	0.43
28:DD:38:LYS:HD2	28:DD:45:TYR:OH	2.18	0.43
29:DE:21:ARG:O	29:DE:22:ASP:O	2.37	0.43
31:DG:123:GLU:O	31:DG:125:PRO:HD2	2.18	0.43
32:DH:21:VAL:CG2	32:DH:25:TYR:CD2	3.02	0.43
32:DH:32:PRO:HB3	48:DX:38:TRP:HB3	2.01	0.43
37:DM:57:VAL:HG11	37:DM:105:MET:HE2	2.01	0.43
38:DN:55:ALA:HB2	38:DN:79:LEU:HB2	1.99	0.43
39:DO:74:VAL:O	39:DO:77:ALA:HB3	2.19	0.43
40:DP:11:GLN:HB2	40:DP:54:LEU:CD2	2.48	0.43
42:DR:42:ALA:HA	42:DR:46:GLU:HB2	2.00	0.43
42:DR:49:ILE:O	42:DR:50:GLY:C	2.60	0.43
49:DY:8:GLU:CG	49:DY:12:GLU:HB3	2.49	0.43
51:D0:14:MET:O	51:D0:17:SER:CB	2.65	0.43
52:D1:34:GLU:C	52:D1:35:LEU:HG	2.44	0.43
53:D2:18:PHE:C	53:D2:18:PHE:CD1	2.96	0.43
54:D3:6:VAL:HB	54:D3:60:CYS:HB3	2.00	0.43
1:AA:61:G:C5	1:AA:107:G:N2	2.87	0.43
1:AA:346:G:N2	1:AA:347:G:C8	2.86	0.43
1:AA:849:G:H2'	1:AA:850:U:O5'	2.17	0.43
1:AA:893:C:H2'	1:AA:894:G:C8	2.53	0.43
1:AA:915:A:C2'	1:AA:916:U:H5'	2.48	0.43
1:AA:1191:A:C2'	1:AA:1192:C:H5'	2.47	0.43
1:AA:1253:G:C2	1:AA:1254:A:C4	3.06	0.43
1:AA:1299:A:C5	1:AA:1301:U:O2	2.72	0.43
1:AA:1306:A:C5	1:AA:1307:U:C6	3.06	0.43
1:AA:1337:G:C4'	1:AA:1338:G:OP1	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1337:G:H5'	1:AA:1338:G:OP1	2.18	0.43
1:AA:1520:C:H2'	1:AA:1521:C:H6	1.83	0.43
1:AA:1524:C:OP2	11:AK:124:LYS:NZ	2.52	0.43
2:AB:29:PHE:O	2:AB:41:ASN:N	2.51	0.43
2:AB:106:VAL:O	2:AB:107:ARG:C	2.58	0.43
5:AE:131:ASN:C	5:AE:131:ASN:ND2	2.68	0.43
6:AF:14:GLN:OE1	6:AF:17:GLN:HB2	2.18	0.43
12:AL:49:ARG:HB3	12:AL:89:LEU:HD21	1.99	0.43
13:AM:17:ALA:O	13:AM:20:SER:HB2	2.19	0.43
13:AM:65:GLU:O	13:AM:68:LEU:HB3	2.18	0.43
15:AO:18:ALA:O	15:AO:19:ASN:CG	2.61	0.43
16:AP:36:VAL:O	16:AP:36:VAL:HG13	2.18	0.43
16:AP:45:GLU:HG2	16:AP:45:GLU:O	2.19	0.43
16:AP:51:ARG:CG	16:AP:51:ARG:NH1	2.79	0.43
17:AQ:45:VAL:HG13	17:AQ:72:TRP:C	2.44	0.43
18:AR:40:PRO:O	18:AR:44:THR:HG23	2.18	0.43
22:AV:11:C:H6	22:AV:11:C:O5'	2.01	0.43
22:AV:41:C:O5'	22:AV:41:C:H6	2.01	0.43
22:AV:62:C:N3	22:AV:63:G:N7	2.67	0.43
1:BA:16:A:N1	1:BA:919:A:H2	2.14	0.43
1:BA:49:U:C4	1:BA:364:A:C5	3.06	0.43
1:BA:72:A:H61	1:BA:99:C:H1'	1.83	0.43
1:BA:100:G:O6	1:BA:101:A:C6	2.72	0.43
1:BA:363:A:OP1	12:BL:30:ARG:HB3	2.18	0.43
1:BA:459:A:C2'	1:BA:460:A:O4'	2.65	0.43
1:BA:471:U:C4	1:BA:472:U:C4	3.06	0.43
1:BA:596:A:C6	1:BA:645:G:C2	3.06	0.43
1:BA:663:A:C2	1:BA:743:A:C2	3.06	0.43
1:BA:942:G:C2	1:BA:1342:C:O2	2.72	0.43
1:BA:949:A:H2'	1:BA:950:U:O4'	2.18	0.43
1:BA:956:U:C4	1:BA:957:U:C5	3.07	0.43
1:BA:1095:U:C4	1:BA:1096:C:C4	3.06	0.43
1:BA:1275:A:N7	1:BA:1276:G:N7	2.66	0.43
2:BB:32:GLY:O	2:BB:33:ALA:CB	2.66	0.43
2:BB:61:SER:C	2:BB:63:LYS:H	2.24	0.43
3:BC:129:PHE:CD2	3:BC:156:LEU:HD23	2.54	0.43
4:BD:60:VAL:O	4:BD:63:ILE:N	2.51	0.43
4:BD:168:THR:HB	4:BD:183:ARG:HH21	1.84	0.43
6:BF:19:PRO:CA	6:BF:22:ILE:HD12	2.44	0.43
6:BF:74:LEU:HA	6:BF:74:LEU:HD12	1.78	0.43
8:BH:9:MET:O	8:BH:10:LEU:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:77:VAL:O	10:BJ:79:PRO:HD3	2.19	0.43
13:BM:47:LEU:HD13	13:BM:52:ILE:CG1	2.48	0.43
14:BN:27:LYS:CA	14:BN:30:ILE:HB	2.48	0.43
15:BO:36:ASN:O	15:BO:37:HIS:C	2.58	0.43
15:BO:65:LEU:O	15:BO:66:LEU:C	2.61	0.43
16:BP:77:GLU:C	16:BP:77:GLU:OE2	2.61	0.43
21:BU:13:VAL:O	21:BU:15:LEU:HG	2.18	0.43
21:BU:28:LEU:HD23	21:BU:28:LEU:C	2.43	0.43
25:CA:5:A:C2	25:CA:2899:A:C2	3.07	0.43
25:CA:178:G:H8	25:CA:178:G:O5'	2.02	0.43
25:CA:328:U:H2'	25:CA:329:G:OP1	2.18	0.43
25:CA:586:A:H8	25:CA:586:A:H5"	1.83	0.43
25:CA:919:U:C2'	25:CA:920:A:H5'	2.49	0.43
25:CA:1070:A:C6	33:CI:9:LYS:O	2.71	0.43
25:CA:1102:C:H2'	25:CA:1103:A:C8	2.53	0.43
25:CA:1142:A:C2	25:CA:1144:A:N9	2.86	0.43
25:CA:1406:U:H2'	25:CA:1407:G:C8	2.53	0.43
25:CA:1464:G:O2'	25:CA:1465:G:H5'	2.18	0.43
25:CA:1872:A:H8	25:CA:1873:G:C1'	2.32	0.43
25:CA:1883:U:H2'	25:CA:1884:G:O4'	2.18	0.43
25:CA:2093:G:O2'	25:CA:2094:A:H5'	2.18	0.43
25:CA:2133:G:H2'	25:CA:2158:A:N6	2.32	0.43
25:CA:2145:C:C6	25:CA:2145:C:C3'	3.02	0.43
25:CA:2281:A:O2'	25:CA:2282:G:H5'	2.18	0.43
25:CA:2474:U:C5'	25:CA:2475:C:OP2	2.67	0.43
25:CA:2703:C:N4	25:CA:2704:C:H41	2.16	0.43
26:CB:42:C:P	30:CF:63:LYS:HE3	2.58	0.43
26:CB:51:G:O2'	26:CB:52:A:H5'	2.18	0.43
27:CC:17:LYS:CE	27:CC:17:LYS:CA	2.95	0.43
27:CC:56:GLY:HA2	27:CC:212:TRP:HA	2.00	0.43
29:CE:118:LEU:HD12	29:CE:118:LEU:C	2.43	0.43
33:CI:33:ASN:HB3	33:CI:36:GLU:HB2	2.01	0.43
39:CO:66:GLY:CA	39:CO:102:ARG:HH22	2.31	0.43
39:CO:74:VAL:O	39:CO:78:VAL:HG22	2.19	0.43
39:CO:88:LYS:O	39:CO:89:ASP:HB2	2.18	0.43
39:CO:93:ASP:C	39:CO:95:SER:N	2.76	0.43
43:CS:3:THR:HG21	43:CS:58:ALA:N	2.34	0.43
45:CU:5:ARG:O	45:CU:6:ARG:O	2.35	0.43
45:CU:46:LYS:HB3	45:CU:46:LYS:HE2	1.85	0.43
52:C1:38:PHE:CE2	52:C1:40:PRO:HA	2.53	0.43
54:C3:37:THR:O	54:C3:38:LYS:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:277:G:O2'	25:DA:361:G:N1	2.52	0.43
25:DA:412:A:C2'	25:DA:413:C:H5'	2.47	0.43
25:DA:480:A:H2'	25:DA:480:A:N3	2.33	0.43
25:DA:543:G:C5'	25:DA:543:G:C8	3.02	0.43
25:DA:756:A:H2'	25:DA:757:G:O4'	2.18	0.43
25:DA:1096:A:C6	25:DA:1097:U:H5	2.35	0.43
25:DA:1252:G:C2	41:DQ:32:ARG:HG2	2.54	0.43
25:DA:1424:G:C2	25:DA:1425:G:H1'	2.53	0.43
25:DA:1459:G:H2'	25:DA:1460:U:O5'	2.18	0.43
25:DA:1519:G:N1	25:DA:1520:U:C2	2.86	0.43
25:DA:1556:C:H2'	25:DA:1557:C:H5'	1.98	0.43
25:DA:1675:C:C2'	25:DA:1676:A:H5'	2.49	0.43
25:DA:2364:C:H2'	25:DA:2365:G:H5'	2.00	0.43
25:DA:2402:U:C2'	25:DA:2403:C:OP2	2.67	0.43
27:DC:215:VAL:O	27:DC:215:VAL:HG12	2.18	0.43
32:DH:3:VAL:CA	32:DH:39:ALA:HB2	2.49	0.43
33:DI:100:ILE:O	33:DI:101:SER:CB	2.64	0.43
34:DJ:55:ILE:CD1	34:DJ:132:HIS:HB2	2.48	0.43
36:DL:4:ASN:N	36:DL:4:ASN:HD22	2.17	0.43
36:DL:98:ALA:O	36:DL:100:ILE:HG22	2.19	0.43
37:DM:64:TRP:HZ3	37:DM:106:ASP:HB3	1.82	0.43
38:DN:81:ASN:OD1	38:DN:81:ASN:N	2.50	0.43
42:DR:6:GLN:O	42:DR:7:SER:HB2	2.18	0.43
44:DT:39:THR:HG23	44:DT:41:ALA:N	2.32	0.43
46:DV:30:ILE:HG12	46:DV:91:PHE:HB2	1.99	0.43
49:DY:9:LYS:O	49:DY:10:SER:C	2.61	0.43
49:DY:45:GLN:O	49:DY:48:ARG:HB2	2.19	0.43
1:AA:33:A:O2'	1:AA:363:A:H1'	2.18	0.43
1:AA:89:U:O2'	1:AA:90:C:H5'	2.18	0.43
1:AA:250:A:N3	1:AA:250:A:H5'	2.33	0.43
1:AA:257:G:C2	1:AA:258:G:N7	2.87	0.43
1:AA:380:G:H3'	1:AA:380:G:C8	2.53	0.43
1:AA:426:U:H5"	4:AD:36:ALA:HB1	2.00	0.43
1:AA:650:G:C2'	1:AA:651:C:H5'	2.49	0.43
1:AA:815:A:O2'	1:AA:816:A:OP1	2.26	0.43
1:AA:949:A:C6	1:AA:950:U:C4	3.07	0.43
1:AA:1258:G:C2	1:AA:1259:C:C2	3.06	0.43
1:AA:1285:A:C5'	1:AA:1286:U:O4	2.67	0.43
1:AA:1449:C:H1'	1:AA:1455:G:N2	2.34	0.43
1:AA:1508:A:H2'	1:AA:1509:C:O4'	2.18	0.43
2:AB:53:LEU:HA	2:AB:56:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:159:ALA:O	2:AB:160:LEU:HB2	2.18	0.43
4:AD:73:ASN:O	4:AD:77:GLU:HB2	2.18	0.43
5:AE:149:PRO:HA	8:AH:98:LEU:CD1	2.48	0.43
6:AF:3:HIS:C	6:AF:4:TYR:CG	2.96	0.43
6:AF:5:GLU:HG2	6:AF:90:MET:HE3	2.00	0.43
6:AF:11:HIS:HA	6:AF:12:PRO:HD2	1.77	0.43
6:AF:62:MET:O	6:AF:63:ASN:CB	2.66	0.43
6:AF:69:GLU:O	6:AF:72:ASP:HB3	2.18	0.43
6:AF:90:MET:O	6:AF:91:ARG:C	2.62	0.43
6:AF:92:THR:CG2	6:AF:93:LYS:H	2.31	0.43
9:AI:53:LEU:HD12	9:AI:53:LEU:N	2.34	0.43
11:AK:107:THR:HG22	11:AK:108:ASN:ND2	2.33	0.43
12:AL:93:ARG:O	12:AL:94:TYR:CG	2.72	0.43
14:AN:48:LEU:HD23	14:AN:51:LEU:HD21	1.99	0.43
19:AS:50:VAL:CG2	19:AS:70:LEU:CD1	2.90	0.43
20:AT:5:SER:OG	20:AT:6:ALA:N	2.52	0.43
20:AT:57:VAL:HG12	20:AT:58:ASP:N	2.33	0.43
21:AU:42:THR:O	21:AU:43:GLU:C	2.61	0.43
24:AY:9:ASP:HB3	24:AY:13:ARG:HH22	1.78	0.43
24:AY:12:VAL:HG12	24:AY:13:ARG:N	2.32	0.43
1:BA:81:A:H2'	1:BA:82:G:C8	2.54	0.43
1:BA:148:G:H2'	1:BA:149:A:O5'	2.18	0.43
1:BA:392:C:O2'	1:BA:483:C:H1'	2.18	0.43
1:BA:620:C:O2	4:BD:131:ILE:HG21	2.18	0.43
1:BA:901:A:C5	1:BA:902:G:H1'	2.53	0.43
1:BA:1136:C:H4'	1:BA:1137:C:OP2	2.19	0.43
1:BA:1285:A:H5'	1:BA:1286:U:O4	2.18	0.43
1:BA:1347:G:C8	9:BI:108:ARG:CB	3.02	0.43
1:BA:1491:G:C8	1:BA:1492:A:N7	2.86	0.43
2:BB:67:LEU:HA	2:BB:89:PHE:O	2.19	0.43
2:BB:141:GLU:HG2	2:BB:142:LYS:H	1.83	0.43
3:BC:71:ARG:CB	3:BC:74:ILE:CG2	2.94	0.43
5:BE:29:ILE:O	5:BE:29:ILE:HG23	2.18	0.43
5:BE:153:ALA:O	5:BE:154:ALA:C	2.61	0.43
6:BF:29:ILE:N	6:BF:29:ILE:CD1	2.82	0.43
6:BF:47:LEU:HD13	6:BF:51:ILE:CG2	2.48	0.43
6:BF:88:MET:HG2	6:BF:90:MET:CG	2.49	0.43
7:BG:17:PHE:C	7:BG:19:SER:H	2.25	0.43
7:BG:137:ARG:NH2	7:BG:138:GLU:CG	2.81	0.43
8:BH:95:MET:HE2	8:BH:98:LEU:HD12	2.00	0.43
9:BI:6:TYR:HA	9:BI:18:VAL:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:35:GLN:NE2	10:BJ:77:VAL:HB	2.33	0.43
10:BJ:36:VAL:HG12	10:BJ:38:GLY:HA2	2.01	0.43
11:BK:62:ALA:HB3	11:BK:91:GLY:HA2	1.99	0.43
14:BN:20:PHE:CA	14:BN:24:ALA:HB2	2.49	0.43
14:BN:33:VAL:O	14:BN:33:VAL:HG12	2.18	0.43
15:BO:30:LEU:O	15:BO:34:GLN:HB2	2.18	0.43
17:BQ:46:HIS:HB2	17:BQ:70:LYS:HE2	2.01	0.43
18:BR:50:TYR:O	18:BR:51:GLN:C	2.60	0.43
19:BS:10:ILE:HG12	19:BS:15:LEU:HD22	2.01	0.43
19:BS:17:LYS:HA	19:BS:20:LYS:HB3	2.01	0.43
20:BT:66:ILE:CG2	20:BT:67:HIS:N	2.80	0.43
25:CA:67:U:O2	25:CA:88:G:C2	2.71	0.43
25:CA:86:G:C2	25:CA:87:U:C4	3.06	0.43
25:CA:306:U:C4	25:CA:307:G:C5	3.07	0.43
25:CA:323:C:O4'	25:CA:323:C:O2	2.31	0.43
25:CA:811:U:O4	36:CL:21:ARG:NH2	2.51	0.43
25:CA:848:C:H2'	25:CA:849:A:C8	2.53	0.43
25:CA:852:U:H2'	25:CA:853:C:C6	2.53	0.43
25:CA:1058:U:O2	25:CA:1058:U:H2'	2.18	0.43
25:CA:1059:G:C4	25:CA:1060:U:C5	3.07	0.43
25:CA:1063:G:H4'	33:CI:76:ALA:HB1	2.00	0.43
25:CA:1071:G:C4	25:CA:1089:A:C5	3.07	0.43
25:CA:1180:U:C2'	25:CA:1181:U:C5'	2.95	0.43
25:CA:1483:G:C2	25:CA:1507:C:O2	2.71	0.43
25:CA:1559:U:H4'	25:CA:1560:G:OP2	2.19	0.43
25:CA:2051:A:H5'	25:CA:2578:G:O4'	2.19	0.43
25:CA:2114:A:N3	25:CA:2114:A:C2'	2.79	0.43
25:CA:2161:C:O2	25:CA:2161:C:C2'	2.62	0.43
25:CA:2304:G:C2'	25:CA:2305:U:H5"	2.47	0.43
25:CA:2516:A:C6	25:CA:2517:C:C4	3.06	0.43
25:CA:2552:U:H2'	25:CA:2554:U:H5"	2.00	0.43
25:CA:2636:C:H2'	25:CA:2636:C:O2	2.18	0.43
25:CA:2831:G:H1'	25:CA:2883:A:H2'	2.01	0.43
27:CC:35:LYS:O	27:CC:36:ASN:HB2	2.14	0.43
27:CC:92:LEU:HD11	27:CC:100:ARG:HD3	2.00	0.43
28:CD:2:ILE:HG23	28:CD:88:GLU:OE2	2.18	0.43
28:CD:61:THR:OG1	28:CD:64:GLU:HG3	2.19	0.43
29:CE:96:VAL:O	29:CE:97:ASN:C	2.62	0.43
30:CF:127:TYR:CE2	30:CF:129:MET:HG2	2.53	0.43
31:CG:25:ILE:HG21	31:CG:74:MET:O	2.19	0.43
31:CG:42:VAL:HB	31:CG:51:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CH:142:VAL:HG12	32:CH:143:ILE:H	1.83	0.43
33:CI:107:GLU:HA	33:CI:110:GLN:OE1	2.18	0.43
35:CK:103:VAL:O	35:CK:122:VAL:HB	2.17	0.43
38:CN:32:GLU:OE1	38:CN:118:ARG:HA	2.18	0.43
41:CQ:87:VAL:CG1	42:CR:49:ILE:HD11	2.48	0.43
42:CR:48:LYS:HE3	42:CR:48:LYS:HB3	1.52	0.43
45:CU:68:ASN:C	45:CU:69:VAL:CG1	2.90	0.43
46:CV:50:MET:O	46:CV:51:GLN:C	2.61	0.43
25:DA:42:A:N3	25:DA:438:G:C2	2.87	0.43
25:DA:80:G:H2'	25:DA:81:G:H5'	2.00	0.43
25:DA:659:G:O5'	29:DE:95:LYS:HD3	2.18	0.43
25:DA:784:G:P	60:DA:3317:HOH:O	2.76	0.43
25:DA:796:C:OP1	29:DE:57:LYS:NZ	2.47	0.43
25:DA:864:G:O2'	25:DA:865:C:H5'	2.19	0.43
25:DA:1221:C:H2'	25:DA:1222:U:O4'	2.19	0.43
25:DA:1301:A:N3	25:DA:1301:A:C2'	2.82	0.43
25:DA:1398:C:C2'	25:DA:1399:C:O5'	2.65	0.43
25:DA:1402:U:H2'	25:DA:1402:U:O2	2.17	0.43
25:DA:1487:U:N3	25:DA:1503:A:C2	2.86	0.43
25:DA:1681:G:C8	25:DA:1762:A:C2	3.06	0.43
25:DA:2111:U:C4	25:DA:2147:A:H2	2.37	0.43
25:DA:2114:A:N3	25:DA:2114:A:C2'	2.80	0.43
25:DA:2407:A:C2	25:DA:2408:U:C6	3.06	0.43
25:DA:2511:U:H2'	25:DA:2512:C:O4'	2.17	0.43
25:DA:2540:C:C2'	25:DA:2541:A:H5'	2.49	0.43
25:DA:2588:G:C6	25:DA:2607:G:C2	3.06	0.43
25:DA:2751:G:N3	25:DA:2751:G:H2'	2.34	0.43
25:DA:2794:C:O2	25:DA:2795:C:N1	2.52	0.43
28:DD:62:LYS:N	28:DD:63:PRO:CD	2.81	0.43
29:DE:114:ARG:HE	29:DE:114:ARG:HB2	1.61	0.43
30:DF:41:GLU:O	30:DF:45:ASP:OD1	2.36	0.43
31:DG:53:PRO:HG3	31:DG:61:TRP:CD2	2.53	0.43
31:DG:136:ASP:HB3	31:DG:139:VAL:HG23	2.01	0.43
32:DH:1:MET:HE2	32:DH:23:ALA:CB	2.48	0.43
32:DH:41:LYS:O	32:DH:42:LYS:C	2.61	0.43
34:DJ:39:LYS:NZ	34:DJ:44:TYR:CZ	2.86	0.43
34:DJ:43:GLU:CD	34:DJ:43:GLU:N	2.77	0.43
34:DJ:80:HIS:HB3	34:DJ:81:ILE:CG2	2.46	0.43
34:DJ:98:GLU:O	34:DJ:102:GLU:HG3	2.19	0.43
34:DJ:122:LEU:HD12	34:DJ:123:LYS:N	2.33	0.43
36:DL:91:ASP:C	36:DL:93:ASN:N	2.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:26:LEU:CD1	39:DO:39:VAL:CG2	2.92	0.43
39:DO:36:TYR:N	39:DO:36:TYR:CD2	2.83	0.43
44:DT:34:VAL:HG21	44:DT:43:ILE:HD11	2.00	0.43
46:DV:80:HIS:HE1	46:DV:82:TYR:CD2	2.36	0.43
49:DY:9:LYS:H	49:DY:12:GLU:HG3	1.81	0.43
51:D0:2:VAL:HG22	51:D0:3:GLN:N	2.33	0.43
52:D1:16:THR:HG21	52:D1:39:ASP:OD1	2.18	0.43
55:D4:1:MET:SD	55:D4:36:ARG:HB2	2.59	0.43
55:D4:10:LEU:N	55:D4:14:CYS:SG	2.92	0.43
1:AA:66:A:O4'	1:AA:173:U:C4	2.71	0.43
1:AA:108:G:N2	1:AA:109:A:N1	2.66	0.43
1:AA:182:A:N7	1:AA:184:G:C5	2.87	0.43
1:AA:199:A:C2	1:AA:200:G:C5	3.06	0.43
1:AA:283:U:H2'	1:AA:284:C:C6	2.53	0.43
1:AA:518:C:H5"	1:AA:519:C:C6	2.54	0.43
1:AA:1374:A:O2'	1:AA:1375:A:H5'	2.19	0.43
1:AA:1539:C:P	21:AU:17:ARG:CZ	3.07	0.43
2:AB:110:ILE:CD1	2:AB:147:LEU:HD13	2.49	0.43
4:AD:106:PHE:CG	4:AD:144:ILE:HD11	2.53	0.43
4:AD:123:MET:O	4:AD:142:VAL:HA	2.18	0.43
4:AD:194:ILE:HG13	4:AD:196:GLU:OE2	2.18	0.43
7:AG:49:LEU:O	7:AG:50:ALA:C	2.61	0.43
9:AI:35:GLU:OE2	9:AI:39:GLY:HA3	2.18	0.43
9:AI:49:GLN:N	9:AI:50:PRO:HD2	2.34	0.43
10:AJ:26:VAL:C	10:AJ:30:LYS:HD3	2.44	0.43
10:AJ:83:THR:CG2	10:AJ:84:VAL:N	2.82	0.43
14:AN:20:PHE:O	14:AN:21:ALA:HB3	2.19	0.43
14:AN:41:ARG:CB	14:AN:42:TRP:CE3	3.01	0.43
16:AP:3:THR:HG22	16:AP:4:ILE:H	1.82	0.43
16:AP:15:PRO:O	16:AP:16:PHE:HB2	2.19	0.43
19:AS:54:ARG:H	19:AS:54:ARG:HG3	1.69	0.43
20:AT:23:ARG:O	20:AT:26:MET:N	2.51	0.43
1:BA:98:A:O2'	1:BA:99:C:H5'	2.19	0.43
1:BA:174:A:C5	1:BA:175:C:C5	3.07	0.43
1:BA:762:U:H2'	1:BA:763:G:C8	2.53	0.43
1:BA:782:A:C6	1:BA:801:U:C2	3.07	0.43
1:BA:807:A:H2'	1:BA:808:C:C6	2.54	0.43
1:BA:905:U:C2'	1:BA:906:A:H5'	2.48	0.43
1:BA:926:G:C6	1:BA:1505:G:C6	3.07	0.43
1:BA:1000:A:C6	1:BA:1001:C:N3	2.87	0.43
1:BA:1148:U:C4	1:BA:1149:C:N3	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1151:A:C2	1:BA:1152:A:C6	3.06	0.43
1:BA:1233:G:C6	1:BA:1234:C:C4	3.07	0.43
1:BA:1276:G:H2'	1:BA:1277:C:C6	2.54	0.43
1:BA:1317:C:H2'	1:BA:1318:A:C5'	2.49	0.43
1:BA:1317:C:C2'	1:BA:1318:A:O5'	2.66	0.43
1:BA:1486:G:N1	1:BA:1487:G:C2	2.86	0.43
2:BB:9:LEU:HB2	2:BB:42:LEU:HD22	2.00	0.43
2:BB:18:GLN:O	2:BB:37:VAL:CG2	2.67	0.43
2:BB:71:THR:O	2:BB:72:LYS:HG2	2.19	0.43
2:BB:117:GLU:HA	2:BB:120:SER:HB2	2.00	0.43
2:BB:130:LYS:O	2:BB:134:LEU:N	2.51	0.43
4:BD:30:LYS:H	4:BD:30:LYS:HE2	1.84	0.43
5:BE:130:THR:O	5:BE:131:ASN:C	2.61	0.43
6:BF:40:GLU:OE1	6:BF:100:SER:CB	2.66	0.43
7:BG:13:PRO:HA	7:BG:20:GLU:HG3	1.99	0.43
7:BG:23:ALA:O	7:BG:26:VAL:CG2	2.66	0.43
8:BH:31:LEU:C	8:BH:33:VAL:N	2.76	0.43
8:BH:36:ALA:O	8:BH:37:ASN:C	2.62	0.43
10:BJ:10:LEU:N	10:BJ:10:LEU:CD1	2.77	0.43
10:BJ:35:GLN:HG2	10:BJ:77:VAL:HB	2.00	0.43
10:BJ:84:VAL:O	10:BJ:88:MET:CG	2.67	0.43
11:BK:39:ASN:O	11:BK:40:ALA:HB3	2.17	0.43
12:BL:54:VAL:CG2	12:BL:79:ILE:HD11	2.48	0.43
13:BM:14:ALA:HA	13:BM:44:ILE:HD11	2.01	0.43
13:BM:30:LYS:HZ1	13:BM:40:GLU:HB3	1.83	0.43
16:BP:60:TRP:O	16:BP:61:VAL:C	2.59	0.43
18:BR:28:LEU:C	18:BR:30:ASN:N	2.75	0.43
18:BR:48:ALA:O	18:BR:49:LYS:C	2.62	0.43
19:BS:21:ALA:C	19:BS:22:VAL:CG2	2.91	0.43
19:BS:39:ILE:HG22	19:BS:66:VAL:HA	2.00	0.43
20:BT:31:ILE:HG12	20:BT:53:MET:HE3	1.99	0.43
20:BT:35:TYR:HE1	20:BT:39:GLU:OE2	2.01	0.43
25:CA:130:C:H2'	25:CA:131:A:O5'	2.19	0.43
25:CA:671:C:H2'	25:CA:672:C:C6	2.54	0.43
25:CA:684:G:C2	25:CA:794:A:C2	3.07	0.43
25:CA:877:A:C2	25:CA:899:A:C2	3.07	0.43
25:CA:928:A:C2'	25:CA:929:U:H5'	2.48	0.43
25:CA:1039:A:C2'	25:CA:1040:A:O5'	2.66	0.43
25:CA:1414:C:H6	25:CA:1414:C:H3'	1.83	0.43
25:CA:1434:A:O2'	25:CA:1435:G:O4'	2.37	0.43
25:CA:1583:A:O4'	25:CA:1583:A:N3	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1826:G:O2'	25:CA:1971:U:OP2	2.36	0.43
25:CA:1870:C:H2'	25:CA:1871:A:N3	2.33	0.43
25:CA:1875:G:HO2'	25:CA:1876:A:P	2.41	0.43
25:CA:2221:G:C2'	25:CA:2222:C:C5'	2.96	0.43
27:CC:134:ILE:HG23	27:CC:135:PRO:CD	2.49	0.43
29:CE:109:LEU:O	29:CE:111:GLU:N	2.52	0.43
30:CF:63:LYS:HA	30:CF:64:PRO:HD3	1.87	0.43
30:CF:116:LEU:N	30:CF:116:LEU:HD22	2.33	0.43
32:CH:4:ILE:CG2	32:CH:5:LEU:N	2.80	0.43
33:CI:57:VAL:CG1	33:CI:68:PHE:HA	2.49	0.43
33:CI:106:GLN:O	33:CI:110:GLN:N	2.52	0.43
35:CK:13:ASN:HD21	35:CK:98:ARG:HG3	1.83	0.43
35:CK:66:LYS:HD2	35:CK:66:LYS:HA	1.79	0.43
35:CK:108:ARG:NH1	40:CP:34:GLY:HA2	2.34	0.43
36:CL:30:THR:O	36:CL:31:GLY:C	2.60	0.43
36:CL:126:ARG:HD3	36:CL:126:ARG:N	2.32	0.43
39:CO:110:ALA:O	39:CO:115:LEU:HB2	2.18	0.43
40:CP:3:ILE:N	40:CP:3:ILE:CD1	2.82	0.43
40:CP:14:GLN:O	40:CP:15:ASP:CB	2.59	0.43
42:CR:49:ILE:O	42:CR:51:VAL:O	2.37	0.43
43:CS:1:MET:HE3	43:CS:62:ASP:HB3	2.01	0.43
25:DA:67:U:H2'	25:DA:68:G:O4'	2.18	0.43
25:DA:202:U:H2'	25:DA:203:A:C8	2.52	0.43
25:DA:205:G:HO2'	25:DA:206:U:P	2.41	0.43
25:DA:241:A:O2'	54:D3:2:LYS:NZ	2.52	0.43
25:DA:537:G:C2	25:DA:555:G:C2	3.07	0.43
25:DA:616:A:O2'	25:DA:617:G:H5'	2.18	0.43
25:DA:973:A:H5'	25:DA:1188:U:H1'	2.01	0.43
25:DA:1117:C:O2	25:DA:1117:C:C2'	2.65	0.43
25:DA:1178:C:H5'	25:DA:1179:G:OP1	2.18	0.43
25:DA:1344:U:H1'	25:DA:1384:A:H2'	2.01	0.43
25:DA:1353:A:C6	25:DA:1354:A:C2	3.07	0.43
25:DA:1370:C:H2'	25:DA:1371:G:O4'	2.18	0.43
25:DA:1386:C:H2'	25:DA:1387:A:H8	1.83	0.43
25:DA:1414:C:C6	25:DA:1414:C:C3'	3.01	0.43
25:DA:1559:U:H3'	25:DA:1560:G:C5'	2.49	0.43
25:DA:1722:A:C2	25:DA:1739:A:N3	2.86	0.43
25:DA:1856:U:O4	25:DA:1857:G:C6	2.71	0.43
25:DA:2080:A:C5	25:DA:2081:U:C4	3.07	0.43
25:DA:2150:C:C4	25:DA:2151:U:C5	3.07	0.43
25:DA:2603:G:C6	25:DA:2604:U:C4	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2772:C:H2'	25:DA:2773:C:C6	2.53	0.43
25:DA:2808:G:N2	25:DA:2891:U:C6	2.86	0.43
56:DB:33:G:H2'	56:DB:34:A:C8	2.53	0.43
27:DC:70:LYS:HG2	27:DC:101:ARG:NH1	2.33	0.43
27:DC:115:ILE:C	27:DC:115:ILE:HD12	2.43	0.43
28:DD:196:ALA:O	28:DD:197:THR:C	2.61	0.43
29:DE:157:LEU:HD23	29:DE:169:VAL:HG11	2.01	0.43
29:DE:168:ASP:HB2	29:DE:183:PHE:CZ	2.53	0.43
30:DF:109:ARG:NH1	30:DF:138:PRO:HG3	2.34	0.43
30:DF:135:ILE:O	30:DF:135:ILE:HG22	2.17	0.43
31:DG:60:GLY:O	31:DG:61:TRP:C	2.60	0.43
31:DG:131:VAL:O	31:DG:131:VAL:HG12	2.18	0.43
32:DH:61:VAL:O	32:DH:64:ALA:HB3	2.18	0.43
33:DI:12:VAL:HG23	33:DI:16:MET:HB2	2.00	0.43
33:DI:102:ARG:H	33:DI:141:ASP:HB2	1.84	0.43
39:DO:35:ILE:HG23	39:DO:35:ILE:O	2.19	0.43
40:DP:112:ARG:O	40:DP:113:LEU:HD23	2.18	0.43
42:DR:47:VAL:CG1	42:DR:54:VAL:HG22	2.48	0.43
43:DS:85:ILE:N	43:DS:96:ILE:HD11	2.33	0.43
48:DX:29:LEU:HD22	48:DX:30:PRO:CD	2.49	0.43
55:D4:9:LYS:HG2	55:D4:14:CYS:CB	2.48	0.43
1:AA:145:G:C2'	1:AA:146:G:O5'	2.67	0.43
1:AA:262:A:H4'	20:AT:68:LYS:HZ1	1.83	0.43
1:AA:295:C:H2'	1:AA:296:U:H6	1.84	0.43
1:AA:377:G:C2	1:AA:387:U:O2	2.71	0.43
1:AA:541:G:H2'	1:AA:542:G:H8	1.83	0.43
1:AA:645:G:C5	1:AA:646:G:N7	2.87	0.43
1:AA:677:U:H3	1:AA:713:G:H1	1.66	0.43
1:AA:927:G:C2	1:AA:1391:U:O2	2.71	0.43
1:AA:1004:A:O2'	1:AA:1005:A:H5'	2.18	0.43
1:AA:1135:U:C2	1:AA:1137:C:N3	2.87	0.43
1:AA:1271:A:C5'	1:AA:1314:C:H5"	2.49	0.43
1:AA:1298:U:O4	7:AG:113:LYS:O	2.37	0.43
1:AA:1324:A:C2	1:AA:1325:C:C2	3.06	0.43
1:AA:1346:A:O2'	7:AG:9:ARG:NH1	2.51	0.43
1:AA:1405:G:H1'	1:AA:1518:A:O2'	2.19	0.43
2:AB:101:THR:HB	2:AB:174:GLU:OE1	2.19	0.43
3:AC:35:ASP:HA	3:AC:38:VAL:HG22	2.01	0.43
3:AC:41:TYR:CD2	3:AC:41:TYR:C	2.96	0.43
4:AD:11:SER:OG	4:AD:18:LEU:HG	2.19	0.43
4:AD:156:ALA:O	4:AD:160:LEU:HD22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:193:ASP:N	4:AD:193:ASP:OD2	2.50	0.43
5:AE:45:VAL:HG22	5:AE:117:ALA:HB1	2.01	0.43
5:AE:104:ILE:HD12	5:AE:122:VAL:HG23	2.01	0.43
5:AE:121:ASN:C	5:AE:121:ASN:HD22	2.26	0.43
7:AG:13:PRO:O	7:AG:14:ASP:O	2.37	0.43
8:AH:105:THR:C	8:AH:107:LYS:H	2.27	0.43
10:AJ:16:ARG:O	10:AJ:17:LEU:CB	2.67	0.43
12:AL:42:LYS:O	12:AL:44:PRO:HD2	2.19	0.43
12:AL:56:LEU:CB	12:AL:58:ASN:OD1	2.67	0.43
13:AM:21:ILE:O	13:AM:24:VAL:HG22	2.19	0.43
15:AO:65:LEU:HD23	15:AO:65:LEU:HA	1.75	0.43
22:AV:55:U:C2'	22:AV:57:G:N7	2.81	0.43
23:AX:14:A:N6	23:AX:15:A:C6	2.86	0.43
1:BA:81:A:C2	1:BA:89:U:C2	3.07	0.43
1:BA:154:U:O2	1:BA:168:G:N2	2.52	0.43
1:BA:357:G:C2'	1:BA:358:U:O5'	2.67	0.43
1:BA:462:G:C6	1:BA:463:U:C6	3.07	0.43
1:BA:559:A:H4'	1:BA:560:A:H5"	1.99	0.43
1:BA:560:A:C8	1:BA:566:G:C2	3.06	0.43
1:BA:971:G:H1'	1:BA:1365:G:O2'	2.19	0.43
1:BA:1088:G:N1	1:BA:1089:G:C5	2.87	0.43
1:BA:1137:C:O2	1:BA:1137:C:O4'	2.36	0.43
3:BC:178:ARG:O	3:BC:178:ARG:CD	2.67	0.43
4:BD:100:VAL:O	4:BD:101:VAL:C	2.62	0.43
6:BF:1:MET:SD	6:BF:67:PRO:HD3	2.59	0.43
6:BF:9:MET:SD	6:BF:59:TYR:CE1	3.12	0.43
6:BF:68:GLN:HA	6:BF:71:ILE:HG22	2.00	0.43
7:BG:78:ARG:HA	7:BG:82:SER:C	2.43	0.43
7:BG:131:GLY:H	7:BG:134:VAL:CG2	2.30	0.43
8:BH:36:ALA:O	8:BH:39:LEU:N	2.52	0.43
12:BL:41:PRO:HB3	12:BL:88:ASP:OD1	2.18	0.43
14:BN:19:TYR:O	14:BN:20:PHE:O	2.36	0.43
16:BP:35:ARG:HG2	16:BP:36:VAL:H	1.83	0.43
17:BQ:16:MET:SD	17:BQ:16:MET:N	2.92	0.43
17:BQ:31:PRO:HB2	17:BQ:32:ILE:CD1	2.48	0.43
25:CA:163:C:H2'	25:CA:164:C:O4'	2.19	0.43
25:CA:319:G:H2'	25:CA:320:A:O5'	2.18	0.43
25:CA:408:G:O6	25:CA:409:G:C6	2.72	0.43
25:CA:545:U:O2	25:CA:545:U:P	2.77	0.43
25:CA:811:U:C2	25:CA:1251:C:C5	3.06	0.43
25:CA:858:G:O2'	25:CA:2268:A:H1'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:915:C:H2'	25:CA:916:G:O5'	2.18	0.43
25:CA:1069:A:C4'	25:CA:1070:A:H8	2.32	0.43
25:CA:1416:G:O2'	25:CA:1417:C:OP2	2.37	0.43
25:CA:2078:C:H2'	25:CA:2079:U:O4'	2.19	0.43
25:CA:2156:G:N7	25:CA:2157:G:C6	2.87	0.43
25:CA:2555:U:C3'	25:CA:2556:C:H5'	2.49	0.43
25:CA:2568:U:H2'	25:CA:2569:G:O4'	2.18	0.43
25:CA:2734:A:H2'	25:CA:2735:G:O4'	2.18	0.43
25:CA:2808:G:C2	25:CA:2891:U:C6	3.07	0.43
25:CA:2853:C:C2	25:CA:2854:G:C8	3.06	0.43
28:CD:39:ASP:OD2	28:CD:40:LEU:CB	2.67	0.43
30:CF:36:ASN:ND2	30:CF:37:MET:H	2.17	0.43
30:CF:43:ILE:HA	30:CF:82:TYR:OH	2.19	0.43
31:CG:148:ARG:NH1	31:CG:148:ARG:HG2	2.34	0.43
32:CH:21:VAL:HG22	32:CH:25:TYR:HB3	2.00	0.43
32:CH:97:ARG:HE	32:CH:112:LYS:NZ	2.16	0.43
32:CH:135:HIS:CD2	32:CH:138:VAL:HG23	2.54	0.43
33:CI:32:VAL:CG1	33:CI:33:ASN:N	2.81	0.43
33:CI:79:LEU:HD11	33:CI:132:ALA:CA	2.49	0.43
34:CJ:135:GLN:O	34:CJ:136:GLN:C	2.62	0.43
35:CK:10:VAL:HB	35:CK:16:ALA:O	2.18	0.43
37:CM:4:PRO:HG3	37:CM:70:ASP:HA	2.01	0.43
41:CQ:31:TYR:O	41:CQ:32:ARG:C	2.61	0.43
43:CS:4:ILE:N	43:CS:4:ILE:CD1	2.80	0.43
46:CV:48:MET:HE3	46:CV:51:GLN:HE21	1.84	0.43
49:CY:18:LEU:O	49:CY:22:LEU:HB2	2.18	0.43
25:DA:250:G:O5'	36:DL:59:ARG:HD2	2.19	0.43
25:DA:546:U:O2	25:DA:546:U:H3'	2.19	0.43
25:DA:910:A:N7	37:DM:13:HIS:CD2	2.87	0.43
25:DA:970:U:H1'	25:DA:985:C:OP1	2.18	0.43
25:DA:1092:C:H3'	25:DA:1093:G:C8	2.54	0.43
25:DA:1324:G:H1'	25:DA:1616:A:N6	2.33	0.43
25:DA:1406:U:N3	25:DA:1407:G:N7	2.66	0.43
25:DA:1540:G:H2'	25:DA:1541:C:H6	1.83	0.43
25:DA:1544:A:N6	25:DA:1545:A:C6	2.86	0.43
25:DA:1856:U:C4	25:DA:1857:G:C6	3.07	0.43
25:DA:1956:U:H1'	25:DA:2552:U:OP1	2.18	0.43
25:DA:2131:U:C5'	25:DA:2132:U:H5"	2.45	0.43
25:DA:2168:G:C6	25:DA:2169:A:C6	3.07	0.43
25:DA:2339:C:O2'	25:DA:2340:A:H5'	2.19	0.43
25:DA:2406:A:H2'	25:DA:2406:A:OP2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2818:U:H4'	25:DA:2837:A:O4'	2.19	0.43
27:DC:146:LYS:HB2	27:DC:149:LYS:HD2	1.99	0.43
28:DD:39:ASP:O	28:DD:43:ASP:CB	2.67	0.43
29:DE:10:SER:O	29:DE:11:ALA:O	2.37	0.43
29:DE:136:GLN:O	29:DE:137:LYS:C	2.61	0.43
30:DF:57:ALA:HB2	30:DF:64:PRO:HD3	2.01	0.43
32:DH:8:LYS:O	32:DH:9:VAL:CB	2.67	0.43
33:DI:35:MET:SD	33:DI:39:LYS:HB2	2.58	0.43
33:DI:58:ILE:CD1	33:DI:66:PHE:CE1	3.02	0.43
33:DI:133:ARG:CZ	33:DI:139:VAL:HB	2.49	0.43
35:DK:35:VAL:HG12	35:DK:36:GLY:N	2.33	0.43
35:DK:61:VAL:O	35:DK:61:VAL:HG13	2.19	0.43
37:DM:78:LEU:HD23	37:DM:79:ALA:N	2.33	0.43
39:DO:40:ILE:CG2	39:DO:41:ALA:N	2.82	0.43
40:DP:8:GLU:O	40:DP:54:LEU:CD2	2.67	0.43
40:DP:89:GLY:O	40:DP:112:ARG:HD3	2.19	0.43
43:DS:71:VAL:O	43:DS:72:THR:C	2.62	0.43
45:DU:17:ASP:OD1	45:DU:38:ILE:O	2.37	0.43
49:DY:20:ASN:O	49:DY:21:LEU:O	2.37	0.43
49:DY:24:GLU:HB3	49:DY:28:LEU:HD11	2.00	0.43
1:AA:9:G:H5'	5:AE:107:GLY:HA3	2.00	0.43
1:AA:45:G:C2	1:AA:398:U:N3	2.87	0.43
1:AA:134:G:H1'	1:AA:325:A:C5	2.54	0.43
1:AA:141:G:C5	1:AA:142:G:N7	2.87	0.43
1:AA:257:G:H2'	1:AA:258:G:H8	1.84	0.43
1:AA:427:U:C4	1:AA:428:G:C6	3.07	0.43
1:AA:687:A:C8	1:AA:701:U:O4	2.72	0.43
1:AA:687:A:C5	1:AA:701:U:C5	3.07	0.43
1:AA:839:C:O5'	1:AA:839:C:H6	2.00	0.43
1:AA:1178:G:H2'	1:AA:1180:A:OP2	2.18	0.43
1:AA:1190:G:OP1	3:AC:4:VAL:HG12	2.18	0.43
1:AA:1267:C:H2'	1:AA:1268:G:O4'	2.19	0.43
1:AA:1332:A:C2'	1:AA:1333:A:O5'	2.67	0.43
1:AA:1338:G:O5'	1:AA:1338:G:H8	2.02	0.43
2:AB:21:TYR:CD1	2:AB:21:TYR:N	2.87	0.43
2:AB:145:ASN:OD1	2:AB:145:ASN:N	2.52	0.43
2:AB:163:ILE:HG23	2:AB:164:ASP:N	2.28	0.43
2:AB:175:ALA:CB	2:AB:182:VAL:CG2	2.96	0.43
3:AC:69:THR:HG21	3:AC:75:VAL:HG21	2.00	0.43
4:AD:8:LEU:O	4:AD:10:LEU:N	2.52	0.43
4:AD:25:ARG:HD2	4:AD:30:LYS:CE	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:198:LEU:C	4:AD:200:VAL:N	2.77	0.43
5:AE:33:THR:HG21	5:AE:49:TYR:OH	2.17	0.43
6:AF:18:VAL:O	6:AF:21:MET:N	2.51	0.43
7:AG:68:VAL:HG12	7:AG:134:VAL:HG12	2.01	0.43
9:AI:25:GLY:HA3	9:AI:58:GLU:HA	2.01	0.43
9:AI:56:MET:HE2	9:AI:57:VAL:H	1.83	0.43
9:AI:90:ASP:OD2	9:AI:92:SER:N	2.52	0.43
9:AI:100:ALA:HB1	9:AI:102:PHE:CZ	2.54	0.43
10:AJ:40:ILE:HB	10:AJ:73:LEU:HB2	2.00	0.43
13:AM:103:THR:O	13:AM:104:ASN:C	2.61	0.43
14:AN:87:ALA:HA	14:AN:90:ARG:NH1	2.33	0.43
15:AO:27:GLN:C	15:AO:29:ALA:N	2.76	0.43
22:AV:48:C:C2	22:AV:59:U:C1'	3.02	0.43
22:AV:59:U:H3'	22:AV:60:U:C5	2.53	0.43
22:AV:65:G:C2	22:AV:66:U:C4	3.06	0.43
24:AY:12:VAL:O	24:AY:13:ARG:C	2.61	0.43
24:AY:145:LYS:H	24:AY:145:LYS:CD	2.31	0.43
1:BA:174:A:C4	1:BA:175:C:C6	3.07	0.43
1:BA:433:G:C6	1:BA:434:U:C4	3.06	0.43
1:BA:457:G:N7	1:BA:458:U:C5	2.87	0.43
1:BA:603:U:H2'	1:BA:604:G:O5'	2.18	0.43
1:BA:675:A:C4	1:BA:676:A:C8	3.07	0.43
1:BA:979:C:O2	1:BA:979:C:H2'	2.19	0.43
1:BA:1038:C:H2'	1:BA:1039:G:C8	2.53	0.43
1:BA:1134:G:C5	1:BA:1135:U:C5	3.07	0.43
1:BA:1155:A:C2'	1:BA:1156:G:O5'	2.66	0.43
1:BA:1159:U:C4	1:BA:1182:G:C5	3.07	0.43
1:BA:1216:A:C2	1:BA:1217:C:C4	3.07	0.43
1:BA:1220:G:H21	19:BS:53:GLY:HA2	1.83	0.43
1:BA:1277:C:H2'	1:BA:1278:G:H5"	2.01	0.43
1:BA:1312:G:C2	1:BA:1326:U:C2	3.07	0.43
1:BA:1338:G:H2'	1:BA:1339:A:H8	1.80	0.43
1:BA:1359:C:O2'	1:BA:1361:G:N7	2.51	0.43
1:BA:1406:U:H2'	1:BA:1407:C:O4'	2.19	0.43
1:BA:1416:G:C6	1:BA:1417:G:C4	3.06	0.43
1:BA:1460:C:C2'	1:BA:1461:G:O5'	2.66	0.43
1:BA:1461:G:O5'	1:BA:1461:G:H8	2.01	0.43
2:BB:48:MET:C	2:BB:50:ASN:H	2.25	0.43
2:BB:101:THR:HG22	2:BB:174:GLU:CD	2.44	0.43
3:BC:64:ARG:C	3:BC:65:VAL:HG23	2.43	0.43
3:BC:178:ARG:O	3:BC:178:ARG:HD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:117:VAL:HG22	4:BD:122:ILE:HG13	2.01	0.43
5:BE:74:ALA:HB1	5:BE:81:GLN:NE2	2.34	0.43
5:BE:106:ALA:CB	5:BE:124:ALA:HB3	2.48	0.43
6:BF:18:VAL:CA	6:BF:21:MET:HE2	2.48	0.43
6:BF:71:ILE:HG22	6:BF:72:ASP:N	2.34	0.43
6:BF:80:PHE:CD2	6:BF:81:ASN:N	2.86	0.43
7:BG:106:ALA:HB2	7:BG:133:ALA:HB2	2.00	0.43
14:BN:46:LEU:CD1	14:BN:49:GLN:HG2	2.49	0.43
16:BP:40:ASN:OD1	16:BP:42:ILE:HB	2.18	0.43
17:BQ:51:GLU:CG	17:BQ:52:CYS:N	2.76	0.43
21:BU:13:VAL:HG12	21:BU:15:LEU:HG	2.01	0.43
22:BV:6:G:O2'	22:BV:7:A:H5'	2.19	0.43
25:CA:182:A:C5	25:CA:183:C:C4	3.07	0.43
25:CA:192:C:C2'	25:CA:193:U:H5'	2.47	0.43
25:CA:357:C:H2'	25:CA:358:U:C6	2.54	0.43
25:CA:668:A:H2'	25:CA:670:A:H62	1.84	0.43
25:CA:834:G:H5'	54:C3:56:LEU:HD11	2.00	0.43
25:CA:1059:G:OP2	25:CA:1060:U:C3'	2.67	0.43
25:CA:1078:U:C5'	25:CA:1079:C:OP1	2.67	0.43
25:CA:1280:G:H2'	25:CA:1281:G:O5'	2.18	0.43
25:CA:1370:C:O2'	25:CA:1811:G:O2'	2.37	0.43
25:CA:1467:U:C4	25:CA:1546:G:N2	2.87	0.43
25:CA:1684:G:C6	25:CA:1685:C:N4	2.87	0.43
25:CA:2183:A:C2	25:CA:2184:A:C5	3.07	0.43
25:CA:2458:G:O2'	25:CA:2460:U:O4	2.32	0.43
28:CD:4:LEU:HD11	28:CD:96:ILE:CG2	2.49	0.43
28:CD:38:LYS:O	28:CD:46:ARG:HA	2.19	0.43
28:CD:142:VAL:CB	28:CD:143:PRO:CD	2.97	0.43
28:CD:177:VAL:O	28:CD:177:VAL:HG22	2.19	0.43
29:CE:125:SER:OG	29:CE:126:VAL:N	2.52	0.43
30:CF:67:THR:OG1	30:CF:85:GLY:C	2.62	0.43
33:CI:68:PHE:O	33:CI:68:PHE:CG	2.72	0.43
36:CL:114:GLY:C	36:CL:115:GLU:HG3	2.44	0.43
39:CO:76:LYS:HE3	39:CO:80:GLU:CD	2.43	0.43
39:CO:77:ALA:O	39:CO:81:ARG:HG3	2.19	0.43
41:CQ:26:ALA:HB1	41:CQ:33:VAL:CG2	2.48	0.43
42:CR:21:ARG:NH1	42:CR:93:PHE:CZ	2.86	0.43
43:CS:74:ILE:O	43:CS:75:PHE:HB3	2.19	0.43
44:CT:51:PHE:N	44:CT:51:PHE:CD1	2.86	0.43
46:CV:24:ASN:O	46:CV:25:LYS:HG2	2.18	0.43
47:CW:64:LYS:HD3	47:CW:79:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:C3:54:LEU:HA	54:C3:54:LEU:HD23	1.79	0.43
25:DA:61:C:OP2	49:DY:44:LYS:HB2	2.19	0.43
25:DA:303:G:H2'	25:DA:304:U:O4'	2.19	0.43
25:DA:637:A:N1	25:DA:651:G:O2'	2.49	0.43
25:DA:645:C:O2	25:DA:645:C:C2'	2.65	0.43
25:DA:1091:G:C2	25:DA:1092:C:C4	3.07	0.43
25:DA:1139:G:H2'	25:DA:1140:C:O5'	2.19	0.43
25:DA:1174:U:H5'	25:DA:1175:A:OP2	2.18	0.43
25:DA:1206:G:C5	25:DA:1207:C:C5	3.07	0.43
25:DA:1347:A:C6	25:DA:1348:C:N3	2.86	0.43
25:DA:1419:A:C8	25:DA:1421:G:C6	3.07	0.43
25:DA:1483:G:C6	25:DA:1484:U:C5	3.07	0.43
25:DA:1494:A:C2	25:DA:1495:A:C8	3.06	0.43
25:DA:1667:G:O2'	25:DA:1991:U:O4	2.19	0.43
25:DA:2280:G:C2'	25:DA:2281:A:H5'	2.49	0.43
25:DA:2323:G:C2'	25:DA:2324:U:H5'	2.49	0.43
25:DA:2577:A:H5"	25:DA:2578:G:H5'	1.99	0.43
25:DA:2672:U:C2'	25:DA:2673:G:O5'	2.66	0.43
25:DA:2705:A:H2	38:DN:64:ARG:NH1	2.16	0.43
25:DA:2784:U:H6	25:DA:2784:U:O5'	2.02	0.43
29:DE:96:VAL:HG12	29:DE:97:ASN:O	2.19	0.43
29:DE:104:ALA:O	29:DE:108:ILE:HG23	2.19	0.43
29:DE:134:LEU:C	29:DE:134:LEU:HD12	2.43	0.43
30:DF:64:PRO:HB3	30:DF:88:VAL:CG2	2.48	0.43
30:DF:94:ARG:HE	30:DF:94:ARG:HB2	1.63	0.43
32:DH:133:GLN:HA	32:DH:139:PHE:CE1	2.53	0.43
33:DI:3:LYS:CD	33:DI:4:VAL:H	2.32	0.43
33:DI:107:GLU:C	33:DI:108:ILE:CG1	2.92	0.43
36:DL:95:LEU:O	36:DL:98:ALA:N	2.52	0.43
39:DO:28:VAL:O	39:DO:95:SER:CB	2.67	0.43
39:DO:47:VAL:O	39:DO:48:LEU:HD23	2.18	0.43
46:DV:42:LEU:O	46:DV:43:ASP:C	2.61	0.43
48:DX:30:PRO:HB2	48:DX:32:LEU:HD13	2.00	0.43
50:DZ:9:THR:CG2	50:DZ:10:ARG:N	2.81	0.43
51:D0:28:SER:O	51:D0:37:HIS:CD2	2.71	0.43
51:D0:53:VAL:O	51:D0:55:ALA:N	2.52	0.43
1:AA:27:G:O2'	1:AA:28:A:O5'	2.34	0.43
1:AA:57:G:H2'	1:AA:58:C:O4'	2.18	0.43
1:AA:145:G:C2	1:AA:146:G:C8	3.07	0.43
1:AA:219:U:C2	1:AA:220:G:C8	3.07	0.43
1:AA:246:A:N3	1:AA:279:A:N6	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:404:G:H2'	1:AA:405:U:O4'	2.18	0.43
1:AA:408:A:H2'	1:AA:409:U:H5'	1.99	0.43
1:AA:429:U:C4'	1:AA:430:A:O5'	2.67	0.43
1:AA:432:A:C2'	1:AA:433:G:O5'	2.67	0.43
1:AA:623:C:N4	1:AA:624:C:N4	2.67	0.43
1:AA:662:U:H2'	1:AA:663:A:C8	2.54	0.43
1:AA:711:G:C2'	1:AA:712:A:H5'	2.49	0.43
1:AA:737:C:H2'	1:AA:738:C:O5'	2.19	0.43
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.54	0.43
1:AA:1161:C:H2'	1:AA:1162:C:C5	2.52	0.43
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.52	0.43
1:AA:1235:U:C2'	1:AA:1236:A:O5'	2.66	0.43
1:AA:1426:G:C2'	1:AA:1427:C:O5'	2.66	0.43
1:AA:1537:U:H2'	1:AA:1538:C:O4'	2.19	0.43
2:AB:9:LEU:C	2:AB:9:LEU:HD23	2.43	0.43
2:AB:47:PRO:O	2:AB:50:ASN:HB2	2.19	0.43
2:AB:168:GLU:O	2:AB:169:HIS:C	2.61	0.43
3:AC:26:LYS:H	3:AC:26:LYS:CD	2.15	0.43
3:AC:133:MET:O	3:AC:137:VAL:HG23	2.19	0.43
3:AC:140:ALA:HB1	3:AC:148:ILE:HD12	2.00	0.43
3:AC:173:PRO:C	3:AC:175:HIS:H	2.26	0.43
4:AD:97:LEU:HD23	4:AD:117:VAL:HG21	2.01	0.43
5:AE:105:ILE:CD1	5:AE:123:LEU:HB3	2.49	0.43
6:AF:35:LYS:CE	6:AF:65:GLU:OE2	2.67	0.43
8:AH:31:LEU:O	8:AH:31:LEU:HD13	2.18	0.43
11:AK:83:VAL:O	11:AK:83:VAL:HG12	2.18	0.43
14:AN:74:LEU:O	14:AN:75:ARG:C	2.61	0.43
16:AP:7:ALA:O	16:AP:9:HIS:N	2.51	0.43
16:AP:40:ASN:HA	16:AP:41:PRO:HD2	1.91	0.43
17:AQ:47:ASP:C	17:AQ:48:GLU:O	2.62	0.43
18:AR:40:PRO:HG2	18:AR:43:ILE:HG12	2.00	0.43
21:AU:18:PHE:O	21:AU:21:SER:HB2	2.18	0.43
24:AY:18:VAL:HG22	24:AY:172:ILE:HG13	2.00	0.43
1:BA:171:A:C2	1:BA:172:A:C4	3.07	0.43
1:BA:495:A:C2	1:BA:496:A:C6	3.06	0.43
1:BA:1015:G:H2'	1:BA:1016:A:O4'	2.18	0.43
1:BA:1103:C:N3	1:BA:1104:G:C8	2.87	0.43
1:BA:1103:C:C2	1:BA:1104:G:C8	3.07	0.43
1:BA:1160:G:N2	1:BA:1161:C:C2	2.87	0.43
1:BA:1192:C:N4	1:BA:1193:G:C5	2.87	0.43
1:BA:1194:U:H2'	1:BA:1195:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1232:U:OP1	9:BI:125:GLN:NE2	2.52	0.43
1:BA:1241:G:H8	1:BA:1241:G:O5'	2.01	0.43
1:BA:1255:G:C6	1:BA:1279:G:C5	3.06	0.43
1:BA:1343:G:O2'	9:BI:122:ARG:HD2	2.19	0.43
1:BA:1363:A:C5	1:BA:1365:G:N1	2.87	0.43
1:BA:1365:G:C5	1:BA:1366:C:C5	3.07	0.43
1:BA:1501:C:C6	1:BA:1504:G:C8	3.07	0.43
2:BB:26:MET:HA	2:BB:26:MET:HE3	2.01	0.43
2:BB:69:VAL:HB	2:BB:162:VAL:CG1	2.49	0.43
3:BC:189:HIS:O	3:BC:190:THR:O	2.36	0.43
4:BD:141:VAL:HG12	4:BD:180:THR:OG1	2.19	0.43
8:BH:20:ASN:O	8:BH:22:ALA:N	2.52	0.43
8:BH:55:LYS:N	8:BH:56:PRO:HD3	2.34	0.43
13:BM:46:GLU:O	13:BM:46:GLU:HG3	2.19	0.43
13:BM:100:ARG:HD2	13:BM:103:THR:OG1	2.19	0.43
15:BO:45:HIS:C	15:BO:47:LYS:N	2.77	0.43
17:BQ:16:MET:O	17:BQ:17:GLU:CB	2.66	0.43
19:BS:18:VAL:CG2	19:BS:43:MET:HG2	2.49	0.43
19:BS:30:LEU:HB2	19:BS:48:ILE:HG22	2.00	0.43
19:BS:38:THR:HG22	19:BS:68:HIS:O	2.19	0.43
21:BU:8:ASN:N	21:BU:11:PHE:CE2	2.80	0.43
21:BU:10:PRO:O	21:BU:10:PRO:HD2	2.19	0.43
25:CA:124:G:H3'	53:C2:19:ARG:HH21	1.84	0.43
25:CA:185:G:H4'	25:CA:218:A:H4'	1.99	0.43
25:CA:186:G:N2	25:CA:187:G:C5	2.87	0.43
25:CA:188:G:H5"	25:CA:188:G:H8	1.83	0.43
25:CA:740:C:O2	25:CA:740:C:H2'	2.18	0.43
25:CA:1063:G:N2	33:CI:89:SER:HG	2.16	0.43
25:CA:1069:A:O2'	25:CA:1070:A:H2'	2.19	0.43
25:CA:1301:A:C4	25:CA:1303:G:N7	2.86	0.43
25:CA:1586:A:O5'	25:CA:1586:A:H8	2.02	0.43
25:CA:1799:G:O6	27:CC:177:SER:HB3	2.18	0.43
25:CA:1981:A:O5'	25:CA:1982:U:OP2	2.37	0.43
30:CF:146:ASP:HB2	30:CF:149:ARG:NH2	2.34	0.43
33:CI:41:PHE:CD2	33:CI:42:ASN:OD1	2.72	0.43
33:CI:54:ILE:HG21	33:CI:71:LYS:O	2.19	0.43
33:CI:56:VAL:HG21	33:CI:70:THR:HA	2.01	0.43
34:CJ:80:HIS:C	34:CJ:81:ILE:CG2	2.92	0.43
36:CL:29:LYS:O	36:CL:31:GLY:N	2.51	0.43
36:CL:85:VAL:HB	36:CL:94:THR:CG2	2.48	0.43
38:CN:13:ASN:ND2	38:CN:16:HIS:H	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CQ:39:ILE:HG22	41:CQ:40:LYS:N	2.34	0.43
43:CS:19:LEU:HB3	51:C0:21:LEU:HD12	2.00	0.43
44:CT:87:LEU:HD23	44:CT:87:LEU:HA	1.78	0.43
45:CU:71:ILE:HD13	45:CU:82:VAL:CG2	2.49	0.43
48:CX:34:SER:HA	48:CX:48:LEU:O	2.19	0.43
49:CY:55:THR:C	49:CY:56:LEU:O	2.55	0.43
54:C3:3:ILE:HG21	54:C3:62:PRO:HG3	2.00	0.43
25:DA:59:U:H3'	25:DA:59:U:C6	2.52	0.43
25:DA:265:A:H2	25:DA:427:U:O2	2.02	0.43
25:DA:300:A:H5"	25:DA:301:G:OP2	2.19	0.43
25:DA:365:U:N3	25:DA:366:C:C4	2.87	0.43
25:DA:381:G:C6	25:DA:382:A:N7	2.87	0.43
25:DA:464:U:C4	25:DA:465:G:C6	3.07	0.43
25:DA:574:A:C8	60:DA:3579:HOH:O	2.71	0.43
25:DA:807:U:C2'	25:DA:808:G:H5'	2.49	0.43
25:DA:872:U:H2'	25:DA:873:C:C6	2.54	0.43
25:DA:900:A:C5	25:DA:901:C:C6	3.07	0.43
25:DA:973:A:H5'	25:DA:1188:U:C1'	2.49	0.43
25:DA:1142:A:N3	25:DA:1144:A:C8	2.87	0.43
25:DA:1650:A:H2'	25:DA:1651:G:O4'	2.19	0.43
25:DA:1713:A:C2	25:DA:1716:U:C6	3.07	0.43
25:DA:1747:U:O2'	25:DA:1748:C:H5'	2.19	0.43
25:DA:1788:C:O5'	25:DA:1788:C:H6	2.02	0.43
25:DA:1794:A:C1'	25:DA:1900:A:C2	3.02	0.43
25:DA:1810:A:H8	25:DA:1810:A:O5'	2.01	0.43
25:DA:2052:A:O4'	28:DD:147:GLY:HA3	2.19	0.43
25:DA:2146:C:C4'	25:DA:2147:A:OP1	2.67	0.43
25:DA:2335:A:N7	25:DA:2337:G:C4	2.84	0.43
25:DA:2383:G:C4	25:DA:2384:U:C5	3.07	0.43
25:DA:2400:G:N1	25:DA:2401:U:O2	2.52	0.43
25:DA:2533:U:OP1	25:DA:2665:A:O2'	2.35	0.43
25:DA:2782:G:C2	25:DA:2783:U:C6	3.07	0.43
25:DA:2798:U:O5'	25:DA:2798:U:H6	2.02	0.43
56:DB:9:G:N2	56:DB:10:G:H1'	2.34	0.43
30:DF:51:ASN:O	30:DF:53:ALA:N	2.52	0.43
31:DG:88:LEU:HB2	31:DG:128:THR:HG22	2.01	0.43
31:DG:128:THR:O	31:DG:129:GLU:CG	2.65	0.43
35:DK:35:VAL:CG1	35:DK:106:GLU:HG2	2.49	0.43
36:DL:135:ILE:O	36:DL:140:GLY:CA	2.67	0.43
39:DO:36:TYR:O	39:DO:37:ALA:HB2	2.17	0.43
40:DP:96:LEU:O	40:DP:98:TYR:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DQ:110:GLU:O	41:DQ:111:LYS:C	2.59	0.43
50:DZ:16:LEU:HB3	50:DZ:17:PRO:CD	2.49	0.43
51:D0:52:LYS:HE3	51:D0:55:ALA:CA	2.49	0.43
54:D3:10:ALA:C	54:D3:12:ARG:N	2.77	0.43
1:AA:212:G:H2'	1:AA:213:G:H8	1.84	0.42
1:AA:240:G:C2	1:AA:287:U:O2	2.70	0.42
1:AA:290:C:C6	1:AA:290:C:C3'	3.02	0.42
1:AA:441:A:C2'	1:AA:442:G:H5'	2.49	0.42
1:AA:456:A:C5	1:AA:457:G:N7	2.87	0.42
1:AA:459:A:C8	1:AA:459:A:OP2	2.72	0.42
1:AA:495:A:C2	1:AA:496:A:C6	3.07	0.42
1:AA:603:U:O2'	1:AA:604:G:H5'	2.18	0.42
1:AA:736:C:O2	1:AA:736:C:H2'	2.19	0.42
1:AA:825:A:C6	1:AA:826:C:C4	3.07	0.42
1:AA:924:C:O2'	1:AA:1502:A:N1	2.49	0.42
1:AA:938:A:H8	1:AA:938:A:OP2	2.02	0.42
1:AA:1124:G:OP1	10:AJ:37:ARG:C	2.62	0.42
1:AA:1154:G:H2'	1:AA:1154:G:N3	2.32	0.42
1:AA:1260:G:H4'	1:AA:1283:U:O2'	2.19	0.42
1:AA:1314:C:P	19:AS:5:LYS:HZ3	2.41	0.42
3:AC:10:ARG:O	3:AC:13:ILE:HG12	2.19	0.42
4:AD:158:LEU:O	4:AD:159:GLU:O	2.37	0.42
6:AF:10:VAL:HG13	6:AF:11:HIS:H	1.82	0.42
6:AF:91:ARG:C	6:AF:92:THR:HG1	2.22	0.42
8:AH:1:SER:HB3	8:AH:2:MET:HG3	2.00	0.42
10:AJ:17:LEU:HD23	10:AJ:18:ILE:N	2.33	0.42
10:AJ:88:MET:O	10:AJ:89:ARG:CB	2.67	0.42
12:AL:57:THR:CG2	12:AL:58:ASN:N	2.82	0.42
13:AM:89:ARG:HB3	13:AM:96:VAL:HG22	2.01	0.42
17:AQ:16:MET:HB2	17:AQ:19:SER:CB	2.49	0.42
17:AQ:69:THR:O	17:AQ:69:THR:HG22	2.19	0.42
18:AR:33:THR:HG22	18:AR:37:LYS:N	2.34	0.42
20:AT:26:MET:HG3	20:AT:27:MET:N	2.33	0.42
21:AU:18:PHE:C	21:AU:18:PHE:CD2	2.97	0.42
22:AV:65:G:C2	22:AV:66:U:C2	3.07	0.42
1:BA:142:G:C6	1:BA:143:A:C5	3.07	0.42
1:BA:149:A:C2	1:BA:150:U:C1'	3.02	0.42
1:BA:523:A:H61	12:BL:49:ARG:HH12	1.67	0.42
1:BA:853:C:H2'	1:BA:854:U:O4'	2.19	0.42
1:BA:979:C:C5	1:BA:980:C:C4	3.06	0.42
1:BA:1050:G:H2'	1:BA:1051:C:H6	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1158:C:N3	1:BA:1160:G:N7	2.67	0.42
1:BA:1161:C:O2'	1:BA:1162:C:H5'	2.18	0.42
1:BA:1313:U:OP2	19:BS:5:LYS:CA	2.62	0.42
2:BB:56:LEU:HD13	2:BB:57:ASN:H	1.83	0.42
2:BB:134:LEU:C	2:BB:136:ARG:N	2.77	0.42
2:BB:139:GLU:O	2:BB:140:LEU:C	2.62	0.42
2:BB:141:GLU:O	2:BB:142:LYS:C	2.61	0.42
2:BB:170:ILE:O	2:BB:174:GLU:HG3	2.18	0.42
3:BC:25:THR:HG22	3:BC:26:LYS:CD	2.49	0.42
3:BC:55:VAL:C	3:BC:56:ILE:HD12	2.44	0.42
3:BC:95:GLY:O	3:BC:96:VAL:CG1	2.67	0.42
4:BD:169:TRP:CZ3	4:BD:189:ASP:HB3	2.54	0.42
6:BF:47:LEU:HD11	6:BF:51:ILE:HG23	2.00	0.42
8:BH:65:PHE:CG	8:BH:66:GLN:N	2.86	0.42
10:BJ:26:VAL:CG1	10:BJ:27:GLU:N	2.82	0.42
11:BK:13:LYS:CD	11:BK:13:LYS:O	2.67	0.42
14:BN:18:LYS:C	14:BN:19:TYR:HD1	2.26	0.42
14:BN:23:ARG:HG2	14:BN:26:LEU:HD12	2.00	0.42
16:BP:35:ARG:HG2	16:BP:36:VAL:N	2.34	0.42
17:BQ:12:VAL:HG13	17:BQ:21:VAL:HG13	1.99	0.42
20:BT:19:HIS:HD2	20:BT:20:ASN:ND2	2.17	0.42
25:CA:324:A:C2'	25:CA:325:G:O5'	2.67	0.42
25:CA:409:G:H2'	25:CA:410:G:C8	2.54	0.42
25:CA:457:A:O4'	25:CA:459:U:C6	2.72	0.42
25:CA:514:A:H2'	25:CA:515:A:O4'	2.19	0.42
25:CA:697:G:C2	25:CA:766:U:O2	2.72	0.42
25:CA:1421:G:C2'	25:CA:1422:G:O5'	2.67	0.42
25:CA:2126:A:C8	25:CA:2162:G:C2	3.07	0.42
25:CA:2218:G:C4	25:CA:2219:U:C5	3.07	0.42
25:CA:2303:G:C4	25:CA:2304:G:N7	2.86	0.42
26:CB:77:U:O2'	26:CB:78:A:H5'	2.19	0.42
27:CC:6:LYS:HA	27:CC:7:PRO:HD3	1.91	0.42
27:CC:159:THR:O	27:CC:194:VAL:HG12	2.19	0.42
30:CF:92:GLY:O	30:CF:93:GLU:C	2.61	0.42
31:CG:9:VAL:O	31:CG:9:VAL:CG1	2.63	0.42
31:CG:102:ILE:HG22	31:CG:103:ASN:N	2.34	0.42
33:CI:5:GLN:HG2	33:CI:60:VAL:O	2.19	0.42
33:CI:97:VAL:HG12	33:CI:98:GLY:N	2.34	0.42
33:CI:98:GLY:C	33:CI:99:LYS:HG2	2.43	0.42
35:CK:108:ARG:HH12	40:CP:34:GLY:CA	2.32	0.42
36:CL:59:ARG:NH1	60:CL:206:HOH:O	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CM:12:MET:HE3	37:CM:72:PRO:HD3	2.00	0.42
40:CP:32:VAL:CG1	40:CP:34:GLY:O	2.68	0.42
43:CS:85:ILE:HG22	43:CS:86:MET:N	2.32	0.42
44:CT:30:ILE:CD1	44:CT:32:LEU:HD21	2.48	0.42
49:CY:28:LEU:HB3	49:CY:43:LEU:HD21	2.01	0.42
49:CY:39:GLN:HB2	49:CY:41:HIS:ND1	2.33	0.42
25:DA:22:C:C6	25:DA:22:C:H3'	2.54	0.42
25:DA:130:C:H2'	25:DA:131:A:O5'	2.19	0.42
25:DA:185:G:C6	25:DA:212:G:N1	2.87	0.42
25:DA:352:A:H2'	25:DA:353:C:O4'	2.18	0.42
25:DA:396:G:C5	25:DA:397:U:C5	3.07	0.42
25:DA:447:A:C6	25:DA:454:A:C5	3.07	0.42
25:DA:962:G:N2	25:DA:2250:G:H1	2.17	0.42
25:DA:1063:G:H8	25:DA:1063:G:P	2.42	0.42
25:DA:1168:G:N2	25:DA:1182:G:H1'	2.33	0.42
25:DA:1299:G:O6	25:DA:1639:C:H5"	2.19	0.42
25:DA:1338:G:H2'	25:DA:1339:G:C5'	2.49	0.42
25:DA:1341:G:C6	44:DT:84:TYR:CE2	3.07	0.42
25:DA:1400:U:O2'	25:DA:1401:G:H5'	2.19	0.42
25:DA:1429:G:N3	25:DA:1568:G:N2	2.66	0.42
25:DA:1476:U:C4	25:DA:1514:G:N2	2.87	0.42
25:DA:1483:G:C6	25:DA:1484:U:C4	3.07	0.42
25:DA:1557:C:H2'	25:DA:1558:C:C6	2.54	0.42
25:DA:1874:C:H2'	25:DA:1875:G:O4'	2.19	0.42
25:DA:2305:U:C5	30:DF:151:LEU:HA	2.54	0.42
25:DA:2491:U:H5'	25:DA:2570:G:H5'	2.01	0.42
25:DA:2495:G:C2'	25:DA:2496:C:H5'	2.49	0.42
27:DC:100:ARG:HG3	27:DC:100:ARG:NH1	2.34	0.42
29:DE:1:MET:HE2	29:DE:19:PHE:C	2.44	0.42
29:DE:105:LEU:HA	29:DE:108:ILE:HG23	2.01	0.42
31:DG:69:ALA:O	31:DG:73:SER:HB3	2.19	0.42
32:DH:17:ASP:N	32:DH:17:ASP:OD1	2.51	0.42
33:DI:23:VAL:CG2	33:DI:27:LEU:HD23	2.49	0.42
35:DK:53:LYS:HG2	35:DK:56:ASP:OD1	2.19	0.42
35:DK:122:VAL:HG12	35:DK:122:VAL:OXT	2.19	0.42
36:DL:125:LEU:HD12	36:DL:125:LEU:N	2.34	0.42
39:DO:67:ASN:H	39:DO:70:ALA:HB3	1.84	0.42
39:DO:80:GLU:HA	39:DO:83:LEU:HD12	2.01	0.42
40:DP:47:ILE:HA	40:DP:96:LEU:HB2	2.01	0.42
41:DQ:40:LYS:O	41:DQ:41:ALA:C	2.61	0.42
41:DQ:98:ALA:HB2	41:DQ:105:PHE:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DS:15:GLN:HG3	51:D0:16:ARG:NH1	2.34	0.42
44:DT:1:MET:O	44:DT:2:ILE:CG1	2.64	0.42
49:DY:35:GLY:C	49:DY:36:GLN:HG3	2.43	0.42
1:AA:36:C:H2'	1:AA:37:U:O4'	2.19	0.42
1:AA:50:A:N6	1:AA:361:G:H4'	2.34	0.42
1:AA:73:C:C2	1:AA:74:A:C8	3.07	0.42
1:AA:108:G:N3	1:AA:108:G:O4'	2.52	0.42
1:AA:446:G:N2	1:AA:489:C:C2	2.88	0.42
1:AA:674:G:OP1	6:AF:86:ARG:NH2	2.52	0.42
1:AA:831:A:OP1	2:AB:20:ARG:HG3	2.19	0.42
1:AA:972:C:H4'	10:AJ:59:LYS:HE3	2.01	0.42
1:AA:1133:G:C4	1:AA:1134:G:C8	3.06	0.42
1:AA:1431:A:C6	1:AA:1432:G:O6	2.72	0.42
1:AA:1454:G:C2	1:AA:1455:G:C8	3.06	0.42
2:AB:94:ARG:HH12	2:AB:96:LEU:HA	1.84	0.42
2:AB:106:VAL:O	2:AB:110:ILE:HD13	2.19	0.42
2:AB:110:ILE:CG1	2:AB:150:ILE:CG1	2.97	0.42
2:AB:195:VAL:CG1	2:AB:197:PHE:C	2.92	0.42
3:AC:72:PRO:CG	3:AC:104:GLU:HG3	2.48	0.42
3:AC:81:GLU:O	3:AC:84:GLU:HB3	2.19	0.42
3:AC:140:ALA:N	3:AC:142:ARG:HB3	2.34	0.42
3:AC:151:GLU:HG2	3:AC:198:LYS:HB2	2.02	0.42
4:AD:14:GLU:HB3	4:AD:59:LYS:HG3	2.01	0.42
4:AD:54:LEU:C	4:AD:54:LEU:CD2	2.90	0.42
4:AD:117:VAL:O	4:AD:130:ASN:HA	2.19	0.42
4:AD:152:SER:O	4:AD:155:LYS:HB2	2.20	0.42
5:AE:84:VAL:HG21	5:AE:142:GLY:O	2.19	0.42
5:AE:100:GLU:O	5:AE:100:GLU:CG	2.67	0.42
5:AE:113:VAL:O	5:AE:115:GLU:N	2.52	0.42
6:AF:17:GLN:OE1	6:AF:21:MET:HG3	2.19	0.42
8:AH:6:ILE:O	8:AH:10:LEU:CD2	2.65	0.42
9:AI:18:VAL:HG22	9:AI:64:ILE:CG2	2.49	0.42
10:AJ:84:VAL:O	10:AJ:88:MET:HG2	2.18	0.42
14:AN:68:GLY:O	14:AN:69:ARG:O	2.37	0.42
17:AQ:15:LYS:O	17:AQ:16:MET:HE3	2.20	0.42
17:AQ:56:ASP:CG	17:AQ:80:LYS:HA	2.44	0.42
20:AT:84:LYS:HD2	20:AT:84:LYS:HA	1.84	0.42
22:AV:65:G:H2'	22:AV:66:U:H6	1.84	0.42
1:BA:26:A:H61	1:BA:558:G:H2'	1.85	0.42
1:BA:97:G:H2'	1:BA:98:A:O5'	2.18	0.42
1:BA:247:G:C6	1:BA:278:G:N1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:340:U:O2	1:BA:340:U:H2'	2.18	0.42
1:BA:414:A:C2	1:BA:415:A:C4	3.08	0.42
1:BA:491:G:O2'	1:BA:492:C:H5'	2.19	0.42
1:BA:511:C:N1	1:BA:512:U:C5	2.86	0.42
1:BA:939:G:C2	1:BA:940:C:C2	3.07	0.42
1:BA:1007:U:C2'	1:BA:1008:U:H5"	2.46	0.42
1:BA:1099:G:C4	1:BA:1100:C:C6	3.07	0.42
1:BA:1101:A:N3	1:BA:1102:A:H1'	2.34	0.42
1:BA:1159:U:N3	1:BA:1182:G:C4	2.87	0.42
1:BA:1297:G:H4'	1:BA:1298:U:O5'	2.19	0.42
1:BA:1320:C:N3	19:BS:35:ARG:NH1	2.66	0.42
1:BA:1404:C:O5'	1:BA:1404:C:H6	2.02	0.42
2:BB:53:LEU:HD12	2:BB:219:THR:CG2	2.49	0.42
2:BB:98:GLY:CA	2:BB:101:THR:CG2	2.97	0.42
2:BB:181:PRO:O	2:BB:182:VAL:HG23	2.19	0.42
3:BC:150:VAL:HG13	3:BC:199:VAL:HB	2.00	0.42
5:BE:81:GLN:HE22	5:BE:148:SER:HA	1.84	0.42
6:BF:74:LEU:O	6:BF:77:THR:N	2.52	0.42
7:BG:119:LEU:O	7:BG:123:LEU:CG	2.68	0.42
8:BH:31:LEU:HD11	8:BH:35:ILE:HG13	2.01	0.42
9:BI:14:SER:HB3	9:BI:74:GLN:HA	2.00	0.42
12:BL:40:THR:HA	12:BL:41:PRO:HD3	1.75	0.42
13:BM:47:LEU:CD2	13:BM:47:LEU:C	2.92	0.42
16:BP:71:VAL:O	16:BP:75:ILE:HG13	2.19	0.42
19:BS:40:PHE:C	19:BS:66:VAL:HG22	2.44	0.42
25:CA:118:A:N3	25:CA:178:G:H1'	2.33	0.42
25:CA:196:A:C4	25:CA:805:G:C6	3.07	0.42
25:CA:1098:A:N6	25:CA:1099:G:H1	2.16	0.42
25:CA:1394:U:C4	25:CA:1395:A:C6	3.08	0.42
25:CA:1717:A:C2'	25:CA:1718:G:O5'	2.67	0.42
25:CA:1738:G:HO2'	25:CA:1739:A:H8	1.65	0.42
25:CA:1936:A:H2	25:CA:1943:U:N3	2.17	0.42
25:CA:1956:U:H1'	25:CA:2552:U:OP1	2.20	0.42
25:CA:1979:U:H2'	25:CA:1980:G:C5'	2.48	0.42
25:CA:2300:C:N3	25:CA:2317:A:C2	2.87	0.42
27:CC:15:VAL:HG13	27:CC:16:VAL:N	2.34	0.42
28:CD:127:PHE:HZ	28:CD:160:LYS:HB2	1.84	0.42
29:CE:148:ILE:HB	29:CE:169:VAL:HG22	2.01	0.42
30:CF:157:THR:HG21	30:CF:159:ALA:HB3	1.98	0.42
31:CG:151:ARG:O	31:CG:152:ARG:C	2.62	0.42
33:CI:95:ASP:CG	33:CI:96:LYS:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CK:95:ILE:HG22	35:CK:95:ILE:O	2.19	0.42
35:CK:113:MET:O	35:CK:115:ILE:N	2.52	0.42
39:CO:56:LYS:C	39:CO:58:ILE:N	2.77	0.42
46:CV:29:ILE:HD13	46:CV:38:LEU:O	2.19	0.42
48:CX:63:ILE:CD1	48:CX:67:LEU:HG	2.50	0.42
49:CY:53:VAL:O	49:CY:53:VAL:CG1	2.67	0.42
25:DA:930:G:H1'	50:DZ:24:LEU:CD2	2.49	0.42
25:DA:1049:C:C2'	25:DA:1050:A:H5'	2.48	0.42
25:DA:1118:C:N4	25:DA:1119:U:C4	2.87	0.42
25:DA:1137:G:C2'	25:DA:1138:G:O5'	2.68	0.42
25:DA:1142:A:C4	25:DA:1144:A:C8	3.07	0.42
25:DA:1190:G:OP1	36:DL:32:GLY:CA	2.66	0.42
25:DA:1315:C:H2'	25:DA:1316:U:O5'	2.19	0.42
25:DA:1403:A:C4	25:DA:1404:C:C5	3.07	0.42
25:DA:1760:C:H2'	25:DA:1761:C:H5'	2.01	0.42
25:DA:1817:G:H2'	25:DA:1817:G:N3	2.34	0.42
25:DA:1855:U:H2'	25:DA:1856:U:H5'	2.02	0.42
25:DA:1994:C:OP1	28:DD:132:ALA:CB	2.68	0.42
25:DA:2126:A:C4	25:DA:2162:G:C6	3.07	0.42
25:DA:2209:G:C2	25:DA:2216:G:N1	2.87	0.42
25:DA:2438:U:O3'	25:DA:2439:A:H3'	2.19	0.42
25:DA:2707:U:O2	38:DN:71:ARG:NH1	2.53	0.42
27:DC:134:ILE:HG22	27:DC:135:PRO:HD2	2.01	0.42
27:DC:244:VAL:CG2	27:DC:248:GLY:HA2	2.49	0.42
28:DD:108:ASP:OD1	28:DD:207:VAL:HG12	2.19	0.42
29:DE:26:ALA:CB	36:DL:9:ALA:HB2	2.49	0.42
29:DE:88:ARG:HB3	29:DE:89:PRO:HD2	2.00	0.42
29:DE:131:THR:O	29:DE:133:LEU:N	2.52	0.42
33:DI:39:LYS:HA	33:DI:39:LYS:HD3	1.84	0.42
37:DM:108:VAL:HG11	37:DM:112:LEU:HD23	2.01	0.42
41:DQ:46:TYR:CD2	41:DQ:46:TYR:C	2.97	0.42
42:DR:21:ARG:HE	42:DR:21:ARG:HB2	1.75	0.42
50:DZ:2:LYS:CD	50:DZ:2:LYS:N	2.82	0.42
52:D1:45:HIS:O	52:D1:46:VAL:HG23	2.18	0.42
1:AA:300:A:H2	1:AA:566:G:O6	2.03	0.42
1:AA:499:A:C4'	1:AA:500:G:OP1	2.65	0.42
1:AA:610:U:C2'	1:AA:611:C:O5'	2.68	0.42
1:AA:779:C:O2'	1:AA:780:A:H5'	2.18	0.42
1:AA:805:C:H2'	1:AA:806:C:H5'	2.01	0.42
1:AA:844:G:C4	1:AA:846:G:O2'	2.72	0.42
1:AA:850:U:H2'	1:AA:851:G:C5'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:877:G:H21	8:AH:1:SER:N	2.17	0.42
1:AA:894:G:C2	1:AA:895:G:C8	3.07	0.42
1:AA:977:A:O2'	1:AA:979:C:OP2	2.32	0.42
1:AA:979:C:O5'	1:AA:980:C:OP2	2.37	0.42
1:AA:1182:G:H5"	1:AA:1183:U:H5'	2.01	0.42
1:AA:1215:G:C2	1:AA:1216:A:N9	2.88	0.42
1:AA:1246:A:C5	1:AA:1247:U:C4	3.07	0.42
1:AA:1368:A:C2	1:AA:1369:C:C6	3.06	0.42
1:AA:1531:A:C2'	1:AA:1532:U:H5'	2.50	0.42
4:AD:2:ARG:HH21	4:AD:114:ARG:HD3	1.84	0.42
4:AD:18:LEU:HD12	4:AD:20:LEU:HD11	2.02	0.42
4:AD:57:LYS:HG3	4:AD:58:GLN:N	2.33	0.42
5:AE:82:HIS:CE1	5:AE:146:MET:CG	3.02	0.42
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.33	0.42
9:AI:9:GLY:CA	9:AI:80:HIS:HB3	2.49	0.42
9:AI:46:VAL:HG23	9:AI:47:VAL:N	2.34	0.42
10:AJ:22:THR:O	10:AJ:23:ALA:C	2.61	0.42
10:AJ:47:GLU:HB2	10:AJ:49:PHE:CE1	2.54	0.42
10:AJ:63:ASP:OD2	14:AN:98:LYS:CD	2.67	0.42
11:AK:127:ARG:HH11	11:AK:127:ARG:CG	2.30	0.42
12:AL:85:ARG:CZ	12:AL:87:LYS:HB3	2.49	0.42
13:AM:38:ILE:HG22	13:AM:39:ALA:N	2.34	0.42
16:AP:67:ILE:HG13	16:AP:71:VAL:HG11	2.01	0.42
21:AU:21:SER:O	21:AU:22:CYS:SG	2.78	0.42
24:AY:21:PHE:O	24:AY:22:LYS:C	2.63	0.42
24:AY:61:GLU:O	24:AY:61:GLU:CG	2.68	0.42
1:BA:15:G:C4	1:BA:16:A:C8	3.08	0.42
1:BA:346:G:H3'	1:BA:346:G:N3	2.33	0.42
1:BA:390:U:H2'	1:BA:391:G:H8	1.84	0.42
1:BA:394:G:C5	1:BA:395:C:C5	3.08	0.42
1:BA:679:C:O2	1:BA:712:A:C2	2.73	0.42
1:BA:957:U:H4'	19:BS:78:THR:O	2.19	0.42
1:BA:960:U:C5	1:BA:1225:A:C8	3.07	0.42
1:BA:1143:G:C6	1:BA:1144:G:C6	3.07	0.42
1:BA:1191:A:O5'	1:BA:1191:A:C8	2.72	0.42
1:BA:1233:G:H2'	1:BA:1234:C:C6	2.54	0.42
1:BA:1240:U:OP2	7:BG:115:MET:HB3	2.19	0.42
1:BA:1314:C:OP2	19:BS:5:LYS:HG2	2.19	0.42
1:BA:1317:C:N3	14:BN:53:ARG:CD	2.83	0.42
3:BC:62:SER:C	3:BC:63:ILE:HG22	2.45	0.42
4:BD:104:MET:SD	4:BD:142:VAL:HG13	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:14:ASP:OD2	7:BG:15:PRO:N	2.52	0.42
7:BG:41:ILE:HA	7:BG:44:SER:HB3	2.01	0.42
9:BI:11:ARG:HB3	9:BI:77:ALA:HB2	2.01	0.42
9:BI:20:ILE:HD12	9:BI:85:ALA:CB	2.50	0.42
10:BJ:24:GLU:C	10:BJ:26:VAL:H	2.27	0.42
10:BJ:87:LEU:HD22	10:BJ:88:MET:N	2.34	0.42
11:BK:19:VAL:HB	11:BK:34:THR:HG23	2.01	0.42
11:BK:106:ILE:HD13	11:BK:107:THR:N	2.33	0.42
12:BL:15:VAL:O	12:BL:16:ALA:C	2.62	0.42
15:BO:44:GLU:HG2	15:BO:45:HIS:H	1.85	0.42
16:BP:79:ASN:O	16:BP:80:LYS:NZ	2.52	0.42
17:BQ:7:LEU:HB2	17:BQ:60:ILE:HG21	2.01	0.42
17:BQ:60:ILE:HG12	17:BQ:61:ARG:H	1.84	0.42
18:BR:70:THR:HG23	18:BR:71:ASP:N	2.33	0.42
21:BU:25:ALA:O	21:BU:27:VAL:N	2.51	0.42
25:CA:212:G:H2'	25:CA:213:A:O4'	2.20	0.42
25:CA:1045:C:C3'	25:CA:1046:A:C5'	2.96	0.42
25:CA:1279:G:O4'	38:CN:31:HIS:CE1	2.73	0.42
25:CA:1443:U:H2'	25:CA:1444:G:O4'	2.19	0.42
25:CA:2144:G:HO2'	25:CA:2147:A:H61	1.67	0.42
25:CA:2668:G:H2'	25:CA:2669:G:O5'	2.19	0.42
25:CA:2751:G:C5	31:CG:2:ARG:HD3	2.54	0.42
26:CB:33:G:C2'	26:CB:34:A:C5'	2.94	0.42
26:CB:96:G:C2'	26:CB:97:C:H5'	2.49	0.42
27:CC:176:ARG:NH2	27:CC:176:ARG:CG	2.81	0.42
27:CC:221:GLY:HA2	27:CC:224:MET:HG3	2.00	0.42
27:CC:257:ARG:HG3	27:CC:258:SER:N	2.33	0.42
27:CC:265:PHE:N	27:CC:265:PHE:HD1	2.16	0.42
28:CD:2:ILE:CD1	28:CD:90:PHE:CZ	3.02	0.42
28:CD:142:VAL:HB	28:CD:143:PRO:HD2	2.02	0.42
29:CE:27:LEU:CD1	29:CE:100:MET:HE2	2.49	0.42
31:CG:25:ILE:O	31:CG:25:ILE:HG22	2.19	0.42
31:CG:146:ASP:O	31:CG:149:ALA:HB3	2.19	0.42
33:CI:56:VAL:HG21	33:CI:70:THR:CA	2.49	0.42
36:CL:109:LYS:CE	36:CL:128:THR:HG22	2.46	0.42
36:CL:136:GLU:C	36:CL:138:ALA:N	2.78	0.42
37:CM:74:THR:HG22	37:CM:88:ASN:C	2.45	0.42
39:CO:88:LYS:O	39:CO:89:ASP:CB	2.67	0.42
42:CR:12:HIS:CE1	42:CR:22:LEU:CD2	3.02	0.42
44:CT:56:GLU:HB2	44:CT:88:LYS:HA	2.01	0.42
45:CU:97:SER:O	45:CU:98:ASN:CG	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CX:63:ILE:O	48:CX:63:ILE:HD12	2.19	0.42
54:C3:38:LYS:O	54:C3:39:ARG:C	2.62	0.42
25:DA:96:C:H2'	25:DA:97:C:H6	1.84	0.42
25:DA:150:U:H2'	25:DA:151:C:C6	2.55	0.42
25:DA:189:G:H2'	25:DA:205:G:N2	2.33	0.42
25:DA:223:A:N1	25:DA:407:G:O2'	2.44	0.42
25:DA:377:G:H2'	25:DA:378:C:O4'	2.18	0.42
25:DA:386:G:H4'	25:DA:387:U:OP2	2.19	0.42
25:DA:471:A:H8	25:DA:471:A:O5'	2.02	0.42
25:DA:480:A:N3	25:DA:480:A:C2'	2.79	0.42
25:DA:481:G:H1'	25:DA:507:A:N1	2.33	0.42
25:DA:1050:A:H1'	25:DA:2751:G:H21	1.84	0.42
25:DA:1097:U:C3'	25:DA:1098:A:C5'	2.97	0.42
25:DA:1331:G:C5	25:DA:1333:G:N7	2.88	0.42
25:DA:1339:G:N2	25:DA:1603:A:H1'	2.34	0.42
25:DA:1392:A:N6	25:DA:1393:A:N6	2.67	0.42
25:DA:1526:C:C2	25:DA:1527:G:C8	3.07	0.42
25:DA:1655:A:H3'	25:DA:1656:C:C6	2.54	0.42
25:DA:1657:U:H2'	25:DA:1658:C:C6	2.54	0.42
25:DA:1657:U:H2'	25:DA:1658:C:H6	1.84	0.42
25:DA:1717:A:C2'	25:DA:1718:G:H5'	2.50	0.42
25:DA:1927:A:C6	25:DA:1928:A:C6	3.08	0.42
25:DA:2049:G:H2'	25:DA:2050:C:H5'	2.01	0.42
25:DA:2109:U:H4'	25:DA:2110:G:OP2	2.19	0.42
25:DA:2201:G:C6	25:DA:2223:G:N1	2.87	0.42
25:DA:2221:G:C6	25:DA:2222:C:C4	3.07	0.42
25:DA:2221:G:O2'	25:DA:2222:C:H5'	2.19	0.42
25:DA:2299:U:OP2	30:DF:70:ARG:NH2	2.52	0.42
25:DA:2369:A:H2'	25:DA:2370:G:O4'	2.19	0.42
25:DA:2414:G:C2	25:DA:2415:G:C8	3.07	0.42
25:DA:2507:C:O5'	25:DA:2507:C:H6	2.02	0.42
25:DA:2517:C:C6	25:DA:2542:A:C8	3.08	0.42
56:DB:25:U:O5'	56:DB:25:U:H6	2.03	0.42
27:DC:93:VAL:O	27:DC:93:VAL:CG2	2.67	0.42
27:DC:152:GLN:C	27:DC:155:ARG:HD2	2.45	0.42
28:DD:20:VAL:HG12	28:DD:21:SER:N	2.33	0.42
30:DF:35:LEU:HD21	30:DF:90:LEU:HD11	2.01	0.42
31:DG:24:THR:O	31:DG:25:ILE:HG13	2.18	0.42
31:DG:59:ASP:OD2	31:DG:63:GLN:CG	2.62	0.42
35:DK:15:GLY:HA2	35:DK:47:ILE:HD11	2.00	0.42
37:DM:83:GLY:O	37:DM:84:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DN:70:THR:OG1	38:DN:71:ARG:N	2.52	0.42
39:DO:48:LEU:HD12	39:DO:87:ILE:HD11	2.01	0.42
41:DQ:7:VAL:HG12	41:DQ:8:ILE:N	2.34	0.42
42:DR:39:LEU:O	42:DR:40:MET:HB2	2.18	0.42
43:DS:66:ILE:O	43:DS:69:LEU:HB3	2.20	0.42
57:DW:14:ALA:HB3	57:DW:16:ARG:HH21	1.84	0.42
49:DY:16:THR:HG23	49:DY:20:ASN:HD21	1.84	0.42
1:AA:57:G:H2'	1:AA:58:C:C6	2.55	0.42
1:AA:77:A:H8	1:AA:77:A:OP2	2.03	0.42
1:AA:259:G:N1	1:AA:260:G:C4	2.87	0.42
1:AA:399:G:O2'	1:AA:400:C:H5'	2.19	0.42
1:AA:451:A:N6	1:AA:481:G:C5'	2.83	0.42
1:AA:528:C:H5'	1:AA:529:G:OP2	2.19	0.42
1:AA:542:G:N1	1:AA:543:U:C4	2.88	0.42
1:AA:782:A:H2'	1:AA:783:C:O4'	2.19	0.42
1:AA:849:G:C2'	1:AA:850:U:O5'	2.68	0.42
1:AA:923:A:H2	1:AA:1395:C:C2	2.37	0.42
1:AA:999:C:H2'	1:AA:1000:A:H8	1.84	0.42
1:AA:1268:G:N1	1:AA:1269:A:C6	2.87	0.42
1:AA:1293:C:N3	1:AA:1294:G:C8	2.88	0.42
1:AA:1296:C:C4'	1:AA:1302:C:N4	2.83	0.42
1:AA:1310:G:C2	1:AA:1328:C:C2	3.07	0.42
1:AA:1314:C:OP2	19:AS:5:LYS:CD	2.67	0.42
1:AA:1329:A:H2'	1:AA:1329:A:N3	2.34	0.42
2:AB:40:ILE:HG21	2:AB:201:GLY:N	2.34	0.42
2:AB:56:LEU:HB2	2:AB:183:PHE:CE1	2.54	0.42
2:AB:77:GLU:HG3	2:AB:78:ALA:N	2.35	0.42
2:AB:143:LEU:O	2:AB:147:LEU:HB2	2.20	0.42
2:AB:151:LYS:O	2:AB:152:ASP:C	2.62	0.42
2:AB:153:MET:C	2:AB:155:GLY:H	2.28	0.42
2:AB:187:ASP:OD2	2:AB:202:ASN:HA	2.19	0.42
3:AC:119:ILE:HG22	3:AC:123:LEU:HD12	2.01	0.42
4:AD:16:THR:CG2	4:AD:17:ASP:H	2.30	0.42
4:AD:88:ASN:O	4:AD:92:LEU:HD23	2.20	0.42
7:AG:11:ILE:CD1	7:AG:23:ALA:HB3	2.49	0.42
8:AH:17:GLN:O	8:AH:18:ALA:C	2.62	0.42
8:AH:111:THR:O	8:AH:112:ASP:C	2.61	0.42
9:AI:20:ILE:CG2	9:AI:60:LEU:HD12	2.49	0.42
10:AJ:32:THR:O	10:AJ:33:GLY:C	2.62	0.42
11:AK:34:THR:HB	11:AK:40:ALA:HA	2.01	0.42
13:AM:77:LYS:O	13:AM:78:ARG:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:113:LYS:HB3	13:AM:114:PRO:CD	2.46	0.42
14:AN:92:GLU:H	14:AN:92:GLU:HG2	1.77	0.42
16:AP:42:ILE:O	16:AP:43:ALA:C	2.62	0.42
20:AT:68:LYS:HB2	20:AT:69:ASN:OD1	2.19	0.42
23:AX:8:A:H2'	23:AX:9:G:O4'	2.19	0.42
24:AY:52:LEU:HD12	24:AY:52:LEU:O	2.20	0.42
24:AY:67:LYS:O	24:AY:67:LYS:HG2	2.18	0.42
1:BA:181:A:C2	1:BA:195:A:C5	3.07	0.42
1:BA:980:C:C2'	1:BA:981:U:H5'	2.49	0.42
1:BA:1048:G:H2'	1:BA:1050:G:C8	2.54	0.42
1:BA:1162:C:O2	1:BA:1175:G:C2	2.72	0.42
1:BA:1269:A:C8	1:BA:1270:G:O4'	2.73	0.42
1:BA:1461:G:O2'	1:BA:1462:C:H5'	2.20	0.42
2:BB:28:PRO:C	2:BB:29:PHE:CD1	2.98	0.42
3:BC:9:ILE:HD12	14:BN:98:LYS:HG3	2.01	0.42
3:BC:112:ALA:C	3:BC:114:LEU:N	2.74	0.42
4:BD:30:LYS:CD	4:BD:30:LYS:H	2.32	0.42
5:BE:36:THR:O	5:BE:47:PHE:HA	2.18	0.42
6:BF:11:HIS:ND1	6:BF:12:PRO:CD	2.83	0.42
7:BG:16:LYS:HD3	7:BG:17:PHE:CD1	2.54	0.42
7:BG:117:LEU:O	7:BG:121:ASN:N	2.52	0.42
14:BN:88:ALA:N	14:BN:93:ILE:HD13	2.35	0.42
15:BO:35:ILE:HD12	15:BO:62:ARG:NH1	2.34	0.42
16:BP:80:LYS:HB2	16:BP:80:LYS:HZ3	1.83	0.42
19:BS:51:HIS:ND1	19:BS:55:GLN:O	2.52	0.42
20:BT:49:ALA:O	20:BT:50:PHE:C	2.62	0.42
21:BU:35:GLU:HB3	21:BU:36:PHE:H	1.71	0.42
22:BV:61:C:H2'	22:BV:62:C:C6	2.54	0.42
25:CA:102:U:C6	49:CY:2:LYS:HD2	2.54	0.42
25:CA:142:A:C2	44:CT:1:MET:HE3	2.54	0.42
25:CA:380:G:H2'	25:CA:381:G:O4'	2.19	0.42
25:CA:528:A:C2	25:CA:2043:C:C4'	3.00	0.42
25:CA:1050:A:C2	25:CA:2751:G:C4	3.07	0.42
25:CA:1467:U:C4	25:CA:1546:G:N3	2.87	0.42
25:CA:1735:A:C2	25:CA:1736:U:N1	2.87	0.42
25:CA:1770:G:C6	25:CA:1983:G:C5	3.08	0.42
25:CA:2140:G:C2	25:CA:2141:G:C8	3.08	0.42
25:CA:2144:G:HO2'	25:CA:2147:A:N6	2.18	0.42
25:CA:2179:C:C2'	25:CA:2180:U:H5'	2.49	0.42
25:CA:2430:A:H5'	25:CA:2431:U:OP2	2.19	0.42
25:CA:2636:C:O2	25:CA:2636:C:C2'	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2784:U:H2'	25:CA:2785:C:H6	1.83	0.42
26:CB:51:G:O6	39:CO:32:PRO:HB3	2.19	0.42
27:CC:156:SER:O	27:CC:159:THR:HG23	2.18	0.42
29:CE:65:THR:HG23	29:CE:65:THR:O	2.19	0.42
29:CE:176:ASP:OD1	29:CE:177:PRO:N	2.53	0.42
30:CF:24:VAL:O	30:CF:24:VAL:HG22	2.20	0.42
30:CF:111:ARG:HG2	30:CF:112:ASP:HB2	2.01	0.42
33:CI:5:GLN:O	33:CI:5:GLN:CG	2.67	0.42
38:CN:45:ARG:HE	38:CN:45:ARG:HB2	1.60	0.42
40:CP:29:VAL:HG13	40:CP:79:VAL:CG1	2.48	0.42
41:CQ:75:TYR:O	41:CQ:76:SER:C	2.60	0.42
44:CT:61:LEU:C	44:CT:61:LEU:HD12	2.44	0.42
45:CU:31:GLY:O	45:CU:66:VAL:HG12	2.20	0.42
47:CW:45:ALA:H	47:CW:77:SER:HB3	1.84	0.42
25:DA:136:G:C6	25:DA:137:U:O4	2.71	0.42
25:DA:318:C:H2'	25:DA:319:G:O5'	2.18	0.42
25:DA:638:G:C5	25:DA:639:U:C4	3.07	0.42
25:DA:1215:G:H5"	41:DQ:7:VAL:HG21	2.01	0.42
25:DA:1277:G:C5'	38:DN:20:MET:HE2	2.49	0.42
25:DA:1374:G:C6	25:DA:1375:U:N3	2.88	0.42
25:DA:1408:G:O6	25:DA:1594:U:O2	2.36	0.42
25:DA:1520:U:O4	25:DA:1521:G:C6	2.72	0.42
25:DA:1675:C:H2'	25:DA:1676:A:H5'	2.01	0.42
25:DA:1738:G:O2'	25:DA:1739:A:H8	2.03	0.42
25:DA:1748:C:O2'	25:DA:1749:A:C5'	2.67	0.42
25:DA:2199:A:H2'	25:DA:2200:C:C6	2.53	0.42
25:DA:2204:G:C6	25:DA:2205:A:C5	3.07	0.42
25:DA:2309:A:C2'	25:DA:2310:C:O5'	2.68	0.42
25:DA:2338:C:N3	25:DA:2339:C:C5	2.87	0.42
25:DA:2416:C:N3	25:DA:2417:C:C5	2.88	0.42
25:DA:2850:A:C2	25:DA:2851:A:C4	3.08	0.42
56:DB:69:G:C2	56:DB:70:C:H1'	2.53	0.42
27:DC:131:MET:HA	27:DC:134:ILE:HD12	2.02	0.42
27:DC:153:LEU:O	27:DC:154:ALA:HB3	2.19	0.42
28:DD:179:ARG:NH1	40:DP:7:LEU:HD21	2.34	0.42
29:DE:15:SER:H	29:DE:197:GLU:CD	2.27	0.42
29:DE:134:LEU:HD12	29:DE:134:LEU:O	2.19	0.42
32:DH:70:GLU:O	32:DH:72:ILE:N	2.52	0.42
36:DL:95:LEU:HB2	36:DL:101:ILE:HG12	2.01	0.42
36:DL:133:ALA:O	36:DL:136:GLU:HB2	2.19	0.42
37:DM:3:GLN:O	37:DM:3:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DM:43:ALA:O	37:DM:44:ARG:C	2.61	0.42
37:DM:54:THR:HA	37:DM:57:VAL:HG22	2.00	0.42
39:DO:76:LYS:O	39:DO:79:ALA:HB3	2.20	0.42
39:DO:79:ALA:HB1	39:DO:113:ALA:HB3	2.02	0.42
42:DR:1:MET:HE1	42:DR:101:ILE:HG12	2.01	0.42
43:DS:86:MET:HA	43:DS:87:PRO:HD3	1.86	0.42
45:DU:38:ILE:HG22	45:DU:39:ASN:N	2.35	0.42
51:D0:43:THR:C	51:D0:45:ASP:N	2.77	0.42
1:AA:298:A:N6	1:AA:299:G:C2	2.88	0.42
1:AA:626:G:H2'	1:AA:627:G:O4'	2.20	0.42
1:AA:903:G:H2'	1:AA:904:U:C6	2.53	0.42
1:AA:1056:U:O2	1:AA:1057:G:C8	2.73	0.42
1:AA:1102:A:H2'	1:AA:1103:C:H5'	1.99	0.42
1:AA:1434:A:H8	1:AA:1434:A:O5'	2.02	0.42
1:AA:1539:C:P	21:AU:17:ARG:NE	2.92	0.42
2:AB:14:HIS:HB3	2:AB:208:ALA:HB2	2.01	0.42
2:AB:30:ILE:HD11	2:AB:38:HIS:CG	2.55	0.42
2:AB:110:ILE:HG12	2:AB:150:ILE:CG1	2.49	0.42
4:AD:120:LYS:HB2	4:AD:128:VAL:HG21	2.02	0.42
5:AE:110:MET:O	5:AE:114:LEU:HB2	2.20	0.42
5:AE:154:ALA:CB	8:AH:65:PHE:CE2	3.03	0.42
8:AH:5:PRO:O	8:AH:8:ASP:CB	2.64	0.42
8:AH:78:SER:HA	8:AH:84:ILE:CG1	2.50	0.42
8:AH:87:ARG:H	8:AH:90:GLU:HB2	1.83	0.42
15:AO:61:GLN:O	15:AO:62:ARG:C	2.61	0.42
16:AP:44:SER:OG	16:AP:46:LYS:HD2	2.20	0.42
18:AR:22:TYR:HB2	18:AR:57:ALA:O	2.20	0.42
18:AR:40:PRO:HG2	18:AR:43:ILE:CG1	2.50	0.42
19:AS:30:LEU:HD12	19:AS:30:LEU:HA	1.86	0.42
21:AU:25:ALA:HB3	23:AX:9:G:H4'	2.01	0.42
24:AY:157:SER:O	24:AY:159:ASP:N	2.53	0.42
1:BA:429:U:H3'	4:BD:8:LEU:CD2	2.49	0.42
1:BA:596:A:C2	1:BA:645:G:N3	2.86	0.42
1:BA:648:A:C2	1:BA:649:A:C4	3.07	0.42
1:BA:684:U:C2'	11:BK:39:ASN:O	2.67	0.42
1:BA:803:G:OP1	60:BA:1802:HOH:O	2.21	0.42
1:BA:841:C:H2'	1:BA:843:U:C5'	2.49	0.42
1:BA:883:C:O2'	1:BA:884:U:H5'	2.20	0.42
1:BA:1055:A:H2'	3:BC:155:ARG:HE	1.84	0.42
1:BA:1219:A:N6	1:BA:1220:G:O6	2.53	0.42
1:BA:1304:G:H2'	1:BA:1305:G:C1'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1346:A:C8	1:BA:1348:U:C2	3.07	0.42
1:BA:1436:U:H2'	1:BA:1437:A:C8	2.54	0.42
1:BA:1465:A:H2'	1:BA:1466:C:C6	2.54	0.42
1:BA:1496:C:H2'	1:BA:1497:G:O4'	2.19	0.42
1:BA:1537:U:H5"	1:BA:1538:C:P	2.58	0.42
2:BB:46:VAL:C	2:BB:48:MET:H	2.28	0.42
2:BB:223:GLY:O	2:BB:225:SER:N	2.52	0.42
3:BC:26:LYS:HB3	3:BC:26:LYS:NZ	2.34	0.42
5:BE:68:ARG:H	5:BE:68:ARG:HE	1.66	0.42
5:BE:100:GLU:HA	5:BE:121:ASN:HB3	2.02	0.42
6:BF:45:ARG:HD2	6:BF:59:TYR:CE2	2.55	0.42
7:BG:124:SER:O	7:BG:126:ALA:N	2.53	0.42
8:BH:33:VAL:O	8:BH:35:ILE:N	2.53	0.42
8:BH:65:PHE:C	8:BH:65:PHE:HD1	2.23	0.42
9:BI:24:ASN:HA	9:BI:58:GLU:O	2.18	0.42
9:BI:49:GLN:O	9:BI:50:PRO:C	2.61	0.42
9:BI:71:ILE:O	9:BI:72:SER:C	2.62	0.42
10:BJ:42:LEU:CD1	10:BJ:73:LEU:HB2	2.49	0.42
13:BM:13:HIS:H	13:BM:16:ILE:HD12	1.83	0.42
13:BM:64:VAL:C	13:BM:68:LEU:HB2	2.44	0.42
13:BM:92:ARG:HH11	13:BM:92:ARG:CG	2.32	0.42
15:BO:77:TYR:C	15:BO:79:GLN:N	2.76	0.42
16:BP:22:ALA:HA	16:BP:33:ILE:HD12	2.02	0.42
17:BQ:30:HIS:NE2	17:BQ:32:ILE:HD13	2.33	0.42
17:BQ:35:LYS:CG	17:BQ:37:ILE:CD1	2.98	0.42
17:BQ:44:HIS:C	17:BQ:45:VAL:CG2	2.93	0.42
18:BR:24:ASP:HB3	18:BR:27:THR:OG1	2.19	0.42
25:CA:11:C:H2'	25:CA:12:U:C5'	2.49	0.42
25:CA:31:C:O2'	25:CA:32:C:H5'	2.19	0.42
25:CA:566:U:H2'	25:CA:567:U:O4'	2.19	0.42
25:CA:812:C:H4'	41:CQ:12:ARG:HH22	1.85	0.42
25:CA:924:G:H2'	25:CA:925:A:O4'	2.19	0.42
25:CA:1084:A:C6	25:CA:1085:A:N6	2.88	0.42
25:CA:1392:A:C6	25:CA:1393:A:C6	3.07	0.42
25:CA:1419:A:N7	25:CA:1421:G:C6	2.87	0.42
25:CA:1445:G:C5	25:CA:1446:C:C4	3.08	0.42
25:CA:1483:G:N2	25:CA:1507:C:C2	2.87	0.42
25:CA:1590:A:H2'	25:CA:1591:A:C8	2.55	0.42
25:CA:1599:U:OP2	44:CT:40:LYS:HG3	2.19	0.42
25:CA:1751:U:H2'	25:CA:1752:C:C6	2.55	0.42
25:CA:1827:U:C2'	25:CA:1828:G:O5'	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2130:U:O2	25:CA:2158:A:H2	2.02	0.42
25:CA:2164:C:H3'	25:CA:2165:C:C5	2.55	0.42
25:CA:2170:A:N3	25:CA:2171:A:N7	2.67	0.42
25:CA:2243:U:O2'	25:CA:2244:U:H5'	2.20	0.42
25:CA:2294:G:C5	25:CA:2295:C:C5	3.07	0.42
25:CA:2339:C:H2'	25:CA:2340:A:H8	1.84	0.42
25:CA:2379:G:H2'	25:CA:2380:C:C6	2.54	0.42
25:CA:2585:U:O2'	25:CA:2586:U:O5'	2.33	0.42
28:CD:101:PHE:HE2	28:CD:203:VAL:HG12	1.81	0.42
36:CL:75:ALA:HB3	36:CL:108:ALA:HB2	2.01	0.42
36:CL:127:VAL:CG1	36:CL:128:THR:N	2.80	0.42
38:CN:108:ALA:HA	38:CN:109:PRO:HD3	1.91	0.42
40:CP:22:GLY:O	40:CP:109:ILE:HD11	2.18	0.42
42:CR:20:VAL:HG13	42:CR:21:ARG:N	2.32	0.42
42:CR:39:LEU:N	42:CR:39:LEU:CD1	2.83	0.42
44:CT:8:LEU:CD2	49:CY:22:LEU:HA	2.50	0.42
45:CU:24:VAL:O	45:CU:25:LYS:C	2.61	0.42
48:CX:17:ARG:HD2	48:CX:17:ARG:HA	1.76	0.42
49:CY:16:THR:HA	49:CY:19:LEU:HD12	2.02	0.42
25:DA:36:G:C5	25:DA:37:C:C5	3.07	0.42
25:DA:157:C:H3'	25:DA:157:C:C6	2.54	0.42
25:DA:411:G:P	25:DA:2407:A:OP2	2.77	0.42
25:DA:478:A:C6	25:DA:480:A:C6	3.08	0.42
25:DA:639:U:H2'	25:DA:640:C:C6	2.53	0.42
25:DA:747:U:C5	25:DA:2613:U:C5	3.07	0.42
25:DA:780:G:H21	25:DA:783:A:H62	1.68	0.42
25:DA:783:A:C4	25:DA:785:G:H1'	2.54	0.42
25:DA:800:A:OP1	25:DA:800:A:H8	2.02	0.42
25:DA:1003:G:N2	25:DA:1004:U:C2	2.87	0.42
25:DA:1020:A:C2	25:DA:1141:U:C2	3.08	0.42
25:DA:1115:G:C2	25:DA:1116:G:C5	3.07	0.42
25:DA:1176:U:C6	25:DA:1177:G:C5	3.07	0.42
25:DA:1579:A:N1	25:DA:1580:A:C2	2.87	0.42
25:DA:1596:A:O2'	25:DA:1597:A:H5'	2.19	0.42
25:DA:2016:U:H1'	51:D0:2:VAL:CG2	2.50	0.42
25:DA:2093:G:H2'	25:DA:2094:A:O5'	2.19	0.42
25:DA:2094:A:N1	25:DA:2196:C:C2	2.88	0.42
25:DA:2249:U:C4'	25:DA:2250:G:OP2	2.68	0.42
25:DA:2413:G:H2'	25:DA:2414:G:O5'	2.18	0.42
25:DA:2484:G:OP1	37:DM:44:ARG:HD3	2.19	0.42
25:DA:2555:U:C2'	25:DA:2556:C:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2677:G:O2'	25:DA:2678:C:H5'	2.19	0.42
56:DB:39:A:C2	56:DB:44:G:C4	3.08	0.42
56:DB:111:U:O2	56:DB:112:G:N7	2.53	0.42
27:DC:66:PHE:CD2	27:DC:155:ARG:NH2	2.88	0.42
30:DF:24:VAL:HG13	30:DF:25:MET:N	2.34	0.42
31:DG:39:ALA:HB2	31:DG:57:TYR:CG	2.55	0.42
34:DJ:119:PHE:CD1	34:DJ:119:PHE:O	2.72	0.42
36:DL:41:ARG:O	36:DL:43:GLY:N	2.53	0.42
37:DM:56:ALA:C	37:DM:58:LYS:N	2.72	0.42
39:DO:9:ARG:CG	39:DO:10:ARG:N	2.82	0.42
39:DO:92:PHE:HB2	39:DO:117:PHE:CE1	2.54	0.42
40:DP:12:MET:HG3	40:DP:54:LEU:HD22	2.02	0.42
41:DQ:95:ALA:O	41:DQ:96:ASP:C	2.61	0.42
42:DR:15:SER:O	42:DR:18:GLN:HB2	2.19	0.42
46:DV:9:ARG:HG3	46:DV:40:ILE:O	2.19	0.42
57:DW:34:VAL:HG21	57:DW:76:ILE:CD1	2.50	0.42
48:DX:15:ASN:HA	48:DX:24:THR:O	2.19	0.42
49:DY:14:LEU:O	49:DY:17:GLU:HB3	2.19	0.42
1:AA:64:G:C8	1:AA:99:C:C4	3.08	0.42
1:AA:93:U:C2'	1:AA:94:G:C5'	2.97	0.42
1:AA:164:G:N2	1:AA:165:G:H1'	2.34	0.42
1:AA:195:A:H1'	1:AA:222:C:O2'	2.20	0.42
1:AA:406:G:C8	1:AA:495:A:C4	3.07	0.42
1:AA:976:G:C8	1:AA:1358:U:C2	3.07	0.42
1:AA:978:A:C6	1:AA:1318:A:C6	3.08	0.42
1:AA:1114:C:O2	1:AA:1115:U:C6	2.72	0.42
1:AA:1255:G:H5"	1:AA:1256:A:OP1	2.19	0.42
1:AA:1325:C:O2'	1:AA:1326:U:H5'	2.18	0.42
1:AA:1367:C:N3	1:AA:1368:A:C8	2.87	0.42
1:AA:1416:G:C6	1:AA:1417:G:C5	3.08	0.42
2:AB:95:TRP:O	2:AB:97:GLY:N	2.52	0.42
2:AB:159:ALA:O	2:AB:160:LEU:CB	2.68	0.42
2:AB:167:HIS:ND1	2:AB:167:HIS:O	2.52	0.42
3:AC:152:VAL:CG2	3:AC:156:LEU:CD2	2.96	0.42
4:AD:173:ASP:CG	4:AD:176:LYS:HB2	2.45	0.42
8:AH:36:ALA:O	8:AH:45:ILE:HD11	2.20	0.42
9:AI:6:TYR:CE2	9:AI:17:ARG:HB2	2.55	0.42
10:AJ:10:LEU:HB2	10:AJ:72:ARG:CB	2.41	0.42
10:AJ:53:ILE:HB	10:AJ:62:ARG:N	2.33	0.42
10:AJ:59:LYS:HD2	10:AJ:60:ASP:N	2.35	0.42
11:AK:125:LYS:N	11:AK:125:LYS:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:59:VAL:HG11	25:CA:715:A:C8	2.55	0.42
18:AR:41:SER:N	18:AR:51:GLN:NE2	2.66	0.42
24:AY:59:THR:CG2	24:AY:60:VAL:N	2.81	0.42
24:AY:140:VAL:O	24:AY:143:LEU:N	2.53	0.42
1:BA:16:A:C4	1:BA:17:U:C6	3.08	0.42
1:BA:59:A:C5	1:BA:354:G:C6	3.07	0.42
1:BA:59:A:C4	1:BA:331:G:N2	2.87	0.42
1:BA:394:G:H2'	1:BA:395:C:C6	2.53	0.42
1:BA:457:G:C6	1:BA:458:U:N3	2.87	0.42
1:BA:626:G:H2'	1:BA:627:G:O5'	2.19	0.42
1:BA:737:C:O2'	1:BA:738:C:H5'	2.20	0.42
1:BA:837:U:O5'	1:BA:837:U:H6	2.03	0.42
1:BA:840:C:C4	1:BA:842:U:H5'	2.55	0.42
1:BA:842:U:O2'	1:BA:846:G:N1	2.52	0.42
1:BA:1085:U:O4'	1:BA:1094:G:C6	2.73	0.42
1:BA:1225:A:H2'	1:BA:1226:C:C4	2.53	0.42
1:BA:1239:A:H2	1:BA:1297:G:C2	2.37	0.42
1:BA:1310:G:C6	1:BA:1311:A:N7	2.88	0.42
1:BA:1483:A:H1'	25:DA:1948:G:H1'	2.02	0.42
1:BA:1538:C:C6	1:BA:1538:C:H3'	2.54	0.42
2:BB:67:LEU:HA	2:BB:89:PHE:C	2.45	0.42
3:BC:41:TYR:OH	3:BC:45:GLU:CG	2.67	0.42
4:BD:150:LYS:O	4:BD:150:LYS:HG3	2.19	0.42
4:BD:175:GLY:C	4:BD:177:MET:N	2.77	0.42
5:BE:113:VAL:O	5:BE:114:LEU:C	2.61	0.42
6:BF:86:ARG:HD3	18:BR:63:TYR:CE1	2.54	0.42
7:BG:25:PHE:O	7:BG:26:VAL:C	2.61	0.42
8:BH:10:LEU:HD22	8:BH:10:LEU:HA	1.85	0.42
8:BH:92:PRO:HG3	8:BH:124:ILE:HD12	2.01	0.42
9:BI:29:ILE:HG23	9:BI:29:ILE:O	2.20	0.42
11:BK:20:ALA:CB	11:BK:33:ILE:CD1	2.98	0.42
11:BK:27:ASN:HB3	11:BK:56:LYS:HE3	2.02	0.42
11:BK:113:THR:HA	11:BK:114:PRO:HD3	1.83	0.42
13:BM:18:LEU:O	13:BM:19:THR:C	2.63	0.42
19:BS:44:ILE:HD11	19:BS:63:ASP:HA	2.01	0.42
20:BT:50:PHE:O	20:BT:53:MET:N	2.52	0.42
20:BT:74:HIS:O	20:BT:75:LYS:C	2.62	0.42
23:BX:5:A:H2'	23:BX:6:G:H5'	2.01	0.42
25:CA:114:U:H2'	25:CA:115:C:C6	2.55	0.42
25:CA:273:G:C2	25:CA:365:U:O2	2.73	0.42
25:CA:587:C:C2	36:CL:33:ARG:NH2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:751:A:C6	25:CA:789:A:C5	3.07	0.42
25:CA:779:U:H2'	25:CA:780:G:O5'	2.19	0.42
25:CA:846:U:C2'	25:CA:847:U:OP2	2.67	0.42
25:CA:1056:G:O2'	25:CA:1086:A:H8	2.02	0.42
25:CA:1085:A:C4	25:CA:1086:A:N1	2.88	0.42
25:CA:1090:A:N1	25:CA:1091:G:C5	2.87	0.42
25:CA:1104:C:O2	25:CA:1105:U:C5	2.72	0.42
25:CA:1117:C:C2'	25:CA:1118:C:H5'	2.50	0.42
25:CA:2111:U:C4	25:CA:2145:C:O2	2.73	0.42
25:CA:2839:G:C6	25:CA:2840:C:C4	3.07	0.42
25:CA:2852:G:C4	25:CA:2853:C:C5	3.07	0.42
25:CA:2875:C:C2'	25:CA:2876:G:O5'	2.68	0.42
26:CB:8:C:H2'	26:CB:9:G:O4'	2.20	0.42
28:CD:48:ILE:HG13	28:CD:50:VAL:HG13	2.02	0.42
29:CE:108:ILE:CD1	36:CL:2:ARG:HH12	2.32	0.42
29:CE:161:ALA:O	29:CE:162:ARG:C	2.63	0.42
30:CF:56:LEU:HD12	30:CF:64:PRO:HB3	2.00	0.42
31:CG:8:VAL:HG12	31:CG:49:LEU:CB	2.48	0.42
32:CH:66:ASN:HA	32:CH:138:VAL:HG11	2.02	0.42
36:CL:100:ILE:C	36:CL:101:ILE:HG23	2.44	0.42
37:CM:62:LYS:O	37:CM:105:MET:HA	2.20	0.42
39:CO:72:ALA:HA	39:CO:109:ALA:HB2	2.01	0.42
40:CP:21:PRO:HA	40:CP:46:VAL:HG12	2.01	0.42
40:CP:52:ARG:CG	40:CP:52:ARG:NH1	2.80	0.42
41:CQ:63:ARG:C	41:CQ:65:ASN:N	2.74	0.42
49:CY:9:LYS:H	49:CY:12:GLU:HG3	1.83	0.42
25:DA:52:A:H2'	25:DA:53:A:O5'	2.18	0.42
25:DA:56:A:H2'	25:DA:57:C:O4'	2.20	0.42
25:DA:145:C:C6	25:DA:145:C:H3'	2.54	0.42
25:DA:149:A:C5	25:DA:150:U:C5	3.08	0.42
25:DA:458:G:H22	25:DA:469:G:H2'	1.85	0.42
25:DA:714:U:H2'	25:DA:716:A:N7	2.34	0.42
25:DA:817:C:H2'	25:DA:818:G:O4'	2.19	0.42
25:DA:1050:A:H1'	25:DA:2751:G:N2	2.35	0.42
25:DA:1188:U:C2'	25:DA:1189:A:O5'	2.67	0.42
25:DA:1421:G:H2'	25:DA:1422:G:H5'	2.01	0.42
25:DA:1675:C:OP2	60:DA:3772:HOH:O	2.21	0.42
25:DA:1692:U:O2	25:DA:1696:G:C2	2.73	0.42
25:DA:1866:A:N3	25:DA:1876:A:C6	2.88	0.42
25:DA:1885:A:H2'	25:DA:1886:U:H5'	2.00	0.42
25:DA:1891:G:C5	25:DA:1892:C:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1936:A:H2	25:DA:1943:U:C4	2.36	0.42
25:DA:1955:U:H2'	25:DA:2551:C:O2'	2.19	0.42
25:DA:2146:C:C5'	25:DA:2147:A:OP1	2.66	0.42
25:DA:2162:G:P	25:DA:2162:G:H3'	2.59	0.42
25:DA:2179:C:C2	25:DA:2180:U:C5	3.07	0.42
25:DA:2491:U:H5'	25:DA:2570:G:C5'	2.50	0.42
25:DA:2730:C:H5'	28:DD:175:LEU:CD2	2.50	0.42
25:DA:2746:U:H2'	25:DA:2747:G:H5'	2.00	0.42
25:DA:2844:G:C2'	25:DA:2845:U:H5'	2.50	0.42
27:DC:68:ARG:NH1	27:DC:128:THR:OG1	2.52	0.42
27:DC:83:ASP:OD1	27:DC:84:PRO:HD2	2.19	0.42
27:DC:161:VAL:HG13	27:DC:174:ARG:O	2.19	0.42
28:DD:33:ARG:NH2	28:DD:74:GLU:O	2.53	0.42
28:DD:124:ARG:HD3	28:DD:125:TRP:HE1	1.84	0.42
29:DE:60:TRP:O	29:DE:61:ARG:C	2.63	0.42
29:DE:67:ARG:HE	29:DE:67:ARG:HB3	1.65	0.42
30:DF:43:ILE:HA	30:DF:82:TYR:CE1	2.54	0.42
31:DG:42:VAL:C	31:DG:43:LYS:HE2	2.44	0.42
31:DG:147:LEU:HA	31:DG:150:TYR:HD1	1.85	0.42
32:DH:80:ILE:CD1	32:DH:144:VAL:CG1	2.97	0.42
33:DI:75:ALA:HB3	33:DI:131:THR:HG21	2.02	0.42
34:DJ:21:THR:HG23	34:DJ:61:LYS:HB3	2.00	0.42
35:DK:92:GLU:OE2	35:DK:92:GLU:N	2.53	0.42
35:DK:113:MET:O	35:DK:116:ILE:HG13	2.20	0.42
36:DL:19:LEU:N	36:DL:19:LEU:CD1	2.82	0.42
38:DN:8:ARG:H	38:DN:43:GLU:CD	2.28	0.42
39:DO:70:ALA:O	39:DO:74:VAL:HB	2.19	0.42
42:DR:23:GLU:O	42:DR:24:LYS:C	2.62	0.42
45:DU:12:VAL:HB	45:DU:17:ASP:O	2.20	0.42
48:DX:56:ARG:O	48:DX:59:ASP:HB2	2.19	0.42
50:DZ:4:ILE:HG22	50:DZ:37:ARG:O	2.19	0.42
55:D4:9:LYS:HG2	55:D4:14:CYS:HB3	2.01	0.42
1:AA:171:A:C6	1:AA:172:A:C6	3.07	0.42
1:AA:262:A:C6	1:AA:263:A:C6	3.07	0.42
1:AA:293:G:C4	1:AA:294:U:C5	3.08	0.42
1:AA:511:C:N1	1:AA:512:U:C5	2.87	0.42
1:AA:540:G:C5	1:AA:541:G:C8	3.08	0.42
1:AA:721:G:O4'	1:AA:722:G:C5	2.73	0.42
1:AA:986:U:O2'	1:AA:987:G:H5'	2.20	0.42
1:AA:1008:U:N3	1:AA:1022:A:C2	2.87	0.42
1:AA:1053:G:O5'	1:AA:1054:C:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1068:G:C2'	1:AA:1069:C:H5'	2.50	0.42
1:AA:1119:C:H2'	1:AA:1120:C:C6	2.54	0.42
1:AA:1160:G:HO2'	1:AA:1161:C:P	2.43	0.42
1:AA:1410:A:O2'	1:AA:1411:C:H5'	2.20	0.42
2:AB:137:THR:O	2:AB:141:GLU:HG3	2.19	0.42
3:AC:135:ARG:O	3:AC:138:GLN:N	2.53	0.42
4:AD:64:TYR:HE2	4:AD:99:ASN:OD1	2.02	0.42
4:AD:162:GLU:HA	4:AD:166:LYS:HE2	2.00	0.42
5:AE:57:ALA:O	5:AE:58:ALA:C	2.62	0.42
5:AE:108:GLY:HA2	5:AE:111:ARG:HB2	2.01	0.42
5:AE:131:ASN:HA	5:AE:132:PRO:HD3	1.94	0.42
5:AE:141:ASP:O	5:AE:142:GLY:C	2.63	0.42
5:AE:148:SER:O	5:AE:152:VAL:CG1	2.67	0.42
6:AF:4:TYR:HA	6:AF:90:MET:O	2.19	0.42
7:AG:68:VAL:O	7:AG:69:ARG:C	2.62	0.42
7:AG:69:ARG:O	7:AG:137:ARG:HD3	2.20	0.42
8:AH:21:LYS:N	8:AH:64:TYR:OH	2.52	0.42
8:AH:110:MET:CE	8:AH:114:ALA:C	2.93	0.42
10:AJ:28:THR:CG2	10:AJ:86:ALA:HB1	2.49	0.42
10:AJ:42:LEU:HB3	10:AJ:71:LEU:CB	2.49	0.42
10:AJ:59:LYS:CE	10:AJ:59:LYS:H	2.29	0.42
11:AK:23:HIS:CD2	11:AK:23:HIS:O	2.73	0.42
11:AK:52:ARG:N	11:AK:55:ARG:CB	2.83	0.42
12:AL:21:PRO:C	12:AL:23:LEU:N	2.78	0.42
12:AL:37:TYR:N	12:AL:37:TYR:CD2	2.87	0.42
13:AM:78:ARG:O	13:AM:81:ASP:HB2	2.19	0.42
15:AO:51:SER:O	15:AO:52:ARG:C	2.62	0.42
17:AQ:80:LYS:N	17:AQ:80:LYS:CD	2.82	0.42
20:AT:48:LYS:CD	20:AT:48:LYS:C	2.92	0.42
22:AV:59:U:H3'	22:AV:60:U:C6	2.54	0.42
24:AY:10:ALA:C	24:AY:12:VAL:N	2.76	0.42
24:AY:130:ARG:O	24:AY:133:ARG:HB2	2.19	0.42
1:BA:100:G:C5	1:BA:101:A:N7	2.87	0.42
1:BA:164:G:O2'	1:BA:165:G:H5'	2.19	0.42
1:BA:188:C:N3	1:BA:189:A:C5	2.87	0.42
1:BA:253:A:N1	1:BA:254:G:C5	2.88	0.42
1:BA:794:A:H2'	1:BA:795:C:C6	2.54	0.42
1:BA:927:G:H4'	1:BA:1503:A:N7	2.34	0.42
1:BA:943:U:C2'	1:BA:944:G:H5'	2.50	0.42
1:BA:1057:G:C6	1:BA:1204:A:C2	3.08	0.42
1:BA:1096:C:C4	1:BA:1097:C:N4	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1155:A:H2'	1:BA:1156:G:O5'	2.19	0.42
1:BA:1272:G:C2	1:BA:1273:C:C2	3.07	0.42
1:BA:1304:G:H2'	1:BA:1305:G:H1'	2.02	0.42
1:BA:1323:G:H1'	1:BA:1362:A:C2	2.55	0.42
1:BA:1360:A:C8	14:BN:58:SER:CB	3.03	0.42
1:BA:1361:G:C8	1:BA:1362:A:H5"	2.55	0.42
1:BA:1478:U:H2'	1:BA:1479:C:C6	2.55	0.42
3:BC:22:PHE:CD2	3:BC:23:ALA:CA	3.01	0.42
3:BC:88:LYS:HG2	3:BC:89:VAL:N	2.35	0.42
3:BC:129:PHE:CD2	3:BC:130:ARG:HD3	2.54	0.42
3:BC:179:ALA:HB1	3:BC:202:PHE:CE1	2.55	0.42
5:BE:95:MET:HB3	5:BE:95:MET:HE3	1.72	0.42
5:BE:115:GLU:O	5:BE:118:GLY:N	2.52	0.42
5:BE:152:VAL:HG23	5:BE:153:ALA:N	2.34	0.42
7:BG:59:GLU:HA	7:BG:62:GLU:HB3	2.00	0.42
7:BG:78:ARG:HG2	7:BG:83:THR:HG23	2.02	0.42
8:BH:85:TYR:O	8:BH:86:LYS:CD	2.67	0.42
9:BI:60:LEU:CD2	9:BI:60:LEU:N	2.82	0.42
9:BI:115:VAL:HG21	10:BJ:62:ARG:HB2	2.02	0.42
11:BK:12:ARG:CZ	11:BK:76:TYR:OH	2.68	0.42
13:BM:47:LEU:HD13	13:BM:52:ILE:HG13	2.02	0.42
15:BO:44:GLU:O	15:BO:45:HIS:HB2	2.19	0.42
17:BQ:17:GLU:O	17:BQ:18:LYS:HB2	2.19	0.42
17:BQ:31:PRO:CB	17:BQ:32:ILE:HD12	2.49	0.42
17:BQ:64:ARG:HD3	17:BQ:64:ARG:H	1.85	0.42
20:BT:35:TYR:CD1	20:BT:35:TYR:O	2.73	0.42
20:BT:66:ILE:C	20:BT:67:HIS:CG	2.93	0.42
21:BU:25:ALA:HB1	23:BX:8:A:H5"	2.00	0.42
21:BU:40:PRO:C	21:BU:42:THR:N	2.77	0.42
25:CA:186:G:C2	25:CA:187:G:C8	3.07	0.42
25:CA:623:C:H2'	25:CA:624:C:C6	2.54	0.42
25:CA:665:U:H2'	25:CA:666:A:H8	1.85	0.42
25:CA:740:C:O2	25:CA:740:C:C2'	2.66	0.42
25:CA:908:C:H2'	25:CA:909:A:O5'	2.19	0.42
25:CA:936:A:H2'	25:CA:937:C:C6	2.55	0.42
25:CA:1058:U:H1'	25:CA:1081:U:C2	2.55	0.42
25:CA:1076:C:C2'	25:CA:1077:A:O4'	2.68	0.42
25:CA:1446:C:H2'	25:CA:1447:C:H6	1.84	0.42
25:CA:1485:U:C2	25:CA:1505:A:C2	3.08	0.42
25:CA:1547:C:C6	25:CA:1547:C:C4'	3.02	0.42
25:CA:1585:C:O2'	25:CA:1586:A:C5'	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1588:G:C4	25:CA:1589:U:C5	3.08	0.42
25:CA:2162:G:OP2	25:CA:2164:C:N4	2.52	0.42
25:CA:2181:U:H2'	25:CA:2182:U:H6	1.83	0.42
25:CA:2301:C:C2'	25:CA:2302:U:H5'	2.50	0.42
25:CA:2328:A:H2'	25:CA:2329:U:H6	1.80	0.42
25:CA:2469:A:N6	25:CA:2481:G:H1'	2.35	0.42
25:CA:2555:U:C5	25:CA:2556:C:C2	3.08	0.42
25:CA:2555:U:C2'	25:CA:2556:C:H5'	2.50	0.42
25:CA:2800:A:C2	25:CA:2895:G:H1'	2.55	0.42
27:CC:163:ILE:HA	27:CC:173:LEU:HD12	2.01	0.42
28:CD:99:GLU:C	28:CD:101:PHE:N	2.76	0.42
28:CD:111:GLY:HA3	28:CD:194:PRO:HB2	2.01	0.42
29:CE:24:ASN:OD1	29:CE:27:LEU:CB	2.68	0.42
29:CE:118:LEU:HD12	29:CE:119:ILE:H	1.81	0.42
30:CF:6:TYR:CE2	30:CF:11:VAL:HG22	2.54	0.42
30:CF:88:VAL:CG1	30:CF:89:THR:N	2.83	0.42
31:CG:100:ASN:H	31:CG:100:ASN:ND2	2.13	0.42
32:CH:78:VAL:O	32:CH:145:ASN:N	2.53	0.42
35:CK:114:LYS:HD2	35:CK:114:LYS:HA	1.82	0.42
37:CM:50:ARG:O	37:CM:53:MET:HG2	2.19	0.42
38:CN:1:MET:O	38:CN:2:ARG:HB3	2.20	0.42
38:CN:33:ILE:O	38:CN:33:ILE:HG23	2.19	0.42
40:CP:59:THR:HG23	40:CP:72:VAL:HG12	2.00	0.42
41:CQ:96:ASP:OD1	41:CQ:100:PHE:CD1	2.73	0.42
48:CX:1:SER:O	48:CX:3:VAL:N	2.52	0.42
25:DA:24:G:H2'	25:DA:25:U:O4'	2.20	0.42
25:DA:65:U:H4'	44:DT:73:ARG:HH11	1.85	0.42
25:DA:93:G:O2'	25:DA:94:A:H5'	2.19	0.42
25:DA:294:A:C5	25:DA:345:A:C2	3.07	0.42
25:DA:413:C:C2'	25:DA:414:C:O5'	2.68	0.42
25:DA:443:A:C5	29:DE:40:ARG:HD3	2.54	0.42
25:DA:846:U:C2'	25:DA:847:U:OP2	2.68	0.42
25:DA:1062:G:H2'	25:DA:1063:G:N9	2.34	0.42
25:DA:1356:G:C6	25:DA:1357:C:C4	3.08	0.42
25:DA:1637:A:H4'	25:DA:2711:A:O2'	2.20	0.42
25:DA:1668:A:C2	25:DA:1670:C:N3	2.88	0.42
25:DA:1717:A:C5	25:DA:1718:G:C8	3.08	0.42
25:DA:1795:C:C2	25:DA:1796:U:C6	3.08	0.42
25:DA:2093:G:O2'	25:DA:2094:A:H5'	2.19	0.42
25:DA:2181:U:H2'	25:DA:2182:U:H6	1.85	0.42
25:DA:2298:A:H2'	25:DA:2299:U:H6	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2311:A:O2'	25:DA:2312:U:O5'	2.37	0.42
25:DA:2473:U:C2	25:DA:2474:U:C6	3.07	0.42
25:DA:2531:A:N3	25:DA:2531:A:H2'	2.34	0.42
25:DA:2769:U:C2	25:DA:2770:G:C8	3.08	0.42
56:DB:49:C:H4'	39:DO:68:LYS:HE2	2.01	0.42
56:DB:52:A:H2'	56:DB:52:A:OP2	2.20	0.42
27:DC:134:ILE:HA	27:DC:135:PRO:HD3	1.81	0.42
29:DE:167:VAL:HG12	29:DE:167:VAL:O	2.20	0.42
32:DH:51:ARG:O	32:DH:55:GLU:HB2	2.20	0.42
32:DH:86:ASP:O	32:DH:87:GLU:CB	2.61	0.42
43:DS:29:VAL:CG1	43:DS:55:ILE:CD1	2.98	0.42
45:DU:94:PHE:CA	45:DU:102:ILE:CD1	2.97	0.42
45:DU:98:ASN:C	45:DU:100:GLU:N	2.78	0.42
46:DV:54:ALA:C	46:DV:56:PHE:N	2.77	0.42
49:DY:8:GLU:CB	49:DY:12:GLU:HB3	2.50	0.42
49:DY:26:PHE:O	49:DY:27:ASN:C	2.62	0.42
55:D4:12:ARG:NH1	55:D4:12:ARG:HB2	2.34	0.42
1:AA:66:A:C6	1:AA:67:C:C5	3.08	0.42
1:AA:71:A:H3'	1:AA:71:A:P	2.60	0.42
1:AA:113:G:C1'	1:AA:354:G:H5'	2.50	0.42
1:AA:201:G:O2'	1:AA:469:C:O2'	2.34	0.42
1:AA:208:U:O4	1:AA:210:C:N3	2.53	0.42
1:AA:258:G:C2	1:AA:259:G:C1'	3.01	0.42
1:AA:502:A:OP1	12:AL:114:SER:HB3	2.20	0.42
1:AA:617:G:N1	1:AA:618:C:C4	2.88	0.42
1:AA:646:G:C5	1:AA:647:C:C5	3.08	0.42
1:AA:673:A:H5"	6:AF:86:ARG:NH1	2.35	0.42
1:AA:807:A:H2'	1:AA:808:C:O4'	2.19	0.42
1:AA:980:C:H5	1:AA:981:U:C4	2.37	0.42
1:AA:1062:U:H5"	1:AA:1063:C:OP1	2.20	0.42
1:AA:1141:C:O2'	1:AA:1142:G:P	2.78	0.42
1:AA:1164:G:C2	1:AA:1165:U:C6	3.08	0.42
1:AA:1179:A:O3'	9:AI:104:THR:HG23	2.19	0.42
2:AB:20:ARG:C	2:AB:22:TRP:N	2.77	0.42
2:AB:46:VAL:HB	2:AB:47:PRO:CD	2.42	0.42
2:AB:174:GLU:O	2:AB:177:ASN:HB3	2.19	0.42
2:AB:211:LEU:C	2:AB:213:LEU:N	2.75	0.42
2:AB:216:VAL:O	2:AB:219:THR:CG2	2.63	0.42
3:AC:125:ARG:O	3:AC:126:ARG:CB	2.66	0.42
5:AE:82:HIS:HE1	5:AE:146:MET:CG	2.33	0.42
8:AH:2:MET:O	8:AH:5:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:100:ILE:HD11	8:AH:128:VAL:CB	2.49	0.42
11:AK:52:ARG:CZ	11:AK:56:LYS:HE2	2.50	0.42
12:AL:27:PRO:O	12:AL:28:GLN:HB3	2.20	0.42
13:AM:53:ASP:O	13:AM:56:ARG:CB	2.68	0.42
13:AM:106:ARG:HD3	13:AM:106:ARG:HA	1.77	0.42
15:AO:86:LEU:O	15:AO:87:ARG:CB	2.68	0.42
16:AP:70:ARG:HD3	16:AP:70:ARG:HA	1.79	0.42
17:AQ:27:PHE:CE1	17:AQ:36:PHE:HB3	2.54	0.42
19:AS:43:MET:HE2	19:AS:48:ILE:CD1	2.50	0.42
22:AV:45:U:O2	22:AV:45:U:H2'	2.18	0.42
24:AY:132:VAL:HA	24:AY:135:ASP:OD2	2.20	0.42
24:AY:144:LEU:O	24:AY:147:LYS:HA	2.20	0.42
24:AY:162:GLN:NE2	24:AY:162:GLN:HA	2.33	0.42
1:BA:594:U:H2'	1:BA:595:A:H8	1.81	0.42
1:BA:615:G:C4	1:BA:616:G:C8	3.08	0.42
1:BA:659:U:H2'	1:BA:660:C:C6	2.55	0.42
1:BA:1255:G:C6	1:BA:1279:G:N7	2.88	0.42
1:BA:1371:G:OP2	9:BI:12:LYS:HD3	2.20	0.42
1:BA:1386:G:H2'	1:BA:1387:G:H8	1.84	0.42
1:BA:1492:A:OP1	12:BL:43:LYS:HA	2.20	0.42
2:BB:22:TRP:O	2:BB:23:ASN:C	2.63	0.42
2:BB:112:ARG:HH22	2:BB:136:ARG:HD3	1.85	0.42
3:BC:118:SER:O	3:BC:121:SER:HB2	2.18	0.42
3:BC:127:VAL:HG23	3:BC:128:MET:N	2.34	0.42
4:BD:50:TYR:O	4:BD:51:GLY:C	2.63	0.42
4:BD:123:MET:O	4:BD:142:VAL:HA	2.20	0.42
5:BE:22:LYS:O	5:BE:23:THR:HB	2.19	0.42
5:BE:115:GLU:CG	5:BE:116:VAL:N	2.82	0.42
7:BG:65:LEU:C	7:BG:67:ASN:H	2.28	0.42
8:BH:79:ARG:O	8:BH:83:ARG:HD3	2.19	0.42
10:BJ:71:LEU:C	10:BJ:72:ARG:HG2	2.45	0.42
11:BK:93:GLU:O	11:BK:96:ILE:HG13	2.20	0.42
12:BL:73:LEU:O	12:BL:74:GLN:HB3	2.19	0.42
14:BN:7:ALA:C	14:BN:9:GLU:N	2.77	0.42
18:BR:58:ILE:HG22	18:BR:62:ARG:HD2	2.01	0.42
25:CA:270:A:OP1	25:CA:271:G:H2'	2.20	0.42
25:CA:556:A:H2'	25:CA:557:C:O5'	2.19	0.42
25:CA:631:A:H1'	36:CL:65:GLY:HA2	2.02	0.42
25:CA:713:G:H8	25:CA:713:G:O5'	2.03	0.42
25:CA:927:A:H2'	25:CA:928:A:O5'	2.20	0.42
25:CA:1056:G:H4'	25:CA:1086:A:N7	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:1178:C:H5'	25:CA:1179:G:OP1	2.20	0.42
25:CA:1315:C:H2'	25:CA:1316:U:O5'	2.19	0.42
25:CA:1359:A:C8	25:CA:1373:A:C2	3.08	0.42
25:CA:1407:G:C2'	25:CA:1408:G:H5'	2.49	0.42
25:CA:1474:U:C5	25:CA:1475:G:N2	2.87	0.42
25:CA:1524:G:H2'	25:CA:1525:A:O4'	2.20	0.42
25:CA:1535:A:H5"	25:CA:1536:C:C5	2.54	0.42
25:CA:1925:C:H5"	25:CA:1926:U:C5	2.54	0.42
25:CA:2312:U:OP2	25:CA:2312:U:C5	2.73	0.42
25:CA:2727:A:H2'	25:CA:2728:U:H5'	2.01	0.42
26:CB:111:U:H2'	26:CB:112:G:H8	1.83	0.42
27:CC:134:ILE:HG23	27:CC:135:PRO:HD2	2.00	0.42
30:CF:114:ARG:HA	30:CF:114:ARG:HD3	1.90	0.42
32:CH:116:ARG:HB2	32:CH:131:SER:O	2.19	0.42
33:CI:35:MET:C	33:CI:37:PHE:H	2.28	0.42
33:CI:56:VAL:HG21	33:CI:70:THR:HB	2.02	0.42
33:CI:102:ARG:HE	33:CI:103:ALA:H	1.68	0.42
35:CK:13:ASN:C	35:CK:15:GLY:N	2.78	0.42
36:CL:85:VAL:O	36:CL:86:GLU:C	2.63	0.42
42:CR:63:VAL:HA	42:CR:96:VAL:HG12	2.01	0.42
44:CT:27:SER:O	44:CT:28:ASN:C	2.61	0.42
45:CU:6:ARG:HG3	45:CU:7:ASP:N	2.35	0.42
45:CU:85:ARG:HH12	45:CU:99:SER:CB	2.33	0.42
47:CW:11:ASP:OD2	47:CW:12:SER:N	2.52	0.42
47:CW:52:ASP:OD1	47:CW:52:ASP:N	2.52	0.42
47:CW:52:ASP:O	47:CW:53:HIS:HB2	2.20	0.42
51:C0:53:VAL:O	51:C0:55:ALA:N	2.53	0.42
25:DA:24:G:C2	25:DA:517:C:C2	3.07	0.42
25:DA:78:U:OP1	49:DY:2:LYS:HB2	2.20	0.42
25:DA:110:G:N3	25:DA:110:G:H2'	2.34	0.42
25:DA:140:C:O2	25:DA:140:C:OP2	2.38	0.42
25:DA:184:C:O2'	25:DA:217:A:H1'	2.20	0.42
25:DA:271:G:C6	25:DA:367:G:C6	3.08	0.42
25:DA:406:G:O2'	25:DA:407:G:H5'	2.19	0.42
25:DA:690:G:H2'	25:DA:691:C:O4'	2.20	0.42
25:DA:692:C:O2'	25:DA:693:A:O5'	2.37	0.42
25:DA:779:U:O5'	25:DA:779:U:H6	2.02	0.42
25:DA:830:G:C4	25:DA:2448:A:C5	3.08	0.42
25:DA:930:G:C1'	50:DZ:24:LEU:CD2	2.98	0.42
25:DA:1076:C:C2'	25:DA:1077:A:O5'	2.68	0.42
25:DA:1257:C:H5'	29:DE:78:TRP:CH2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1362:C:H2'	25:DA:1363:C:C5'	2.49	0.42
25:DA:1411:U:C6	25:DA:1411:U:H3'	2.54	0.42
25:DA:1446:C:H6	25:DA:1446:C:O5'	2.02	0.42
25:DA:1682:G:C8	25:DA:1757:A:N3	2.87	0.42
25:DA:1700:A:H5'	25:DA:1701:A:OP2	2.19	0.42
25:DA:1826:G:O2'	25:DA:1971:U:OP2	2.37	0.42
25:DA:1994:C:OP1	28:DD:132:ALA:HB2	2.20	0.42
25:DA:2111:U:O4	25:DA:2145:C:H3'	2.19	0.42
25:DA:2259:U:H2'	25:DA:2260:C:C6	2.54	0.42
25:DA:2445:G:C2'	25:DA:2446:G:H5'	2.50	0.42
25:DA:2902:C:OP2	25:DA:2902:C:H6	2.03	0.42
56:DB:27:C:C2'	56:DB:28:C:O5'	2.67	0.42
29:DE:127:GLU:HA	29:DE:127:GLU:OE1	2.19	0.42
35:DK:53:LYS:HG3	35:DK:56:ASP:OD2	2.20	0.42
36:DL:29:LYS:HG2	36:DL:30:THR:HG23	2.02	0.42
36:DL:126:ARG:C	36:DL:127:VAL:CG2	2.92	0.42
37:DM:111:GLU:OE1	37:DM:115:GLU:HG2	2.18	0.42
38:DN:55:ALA:O	38:DN:56:LYS:C	2.61	0.42
38:DN:72:ASP:HB3	38:DN:75:ILE:CG1	2.49	0.42
41:DQ:77:LYS:O	41:DQ:80:ASN:HB3	2.19	0.42
42:DR:67:GLY:CA	42:DR:93:PHE:CE2	3.03	0.42
43:DS:27:LYS:O	43:DS:71:VAL:HG23	2.19	0.42
44:DT:8:LEU:HD11	49:DY:22:LEU:HA	2.02	0.42
44:DT:39:THR:HG22	44:DT:42:GLU:H	1.85	0.42
1:AA:100:G:C5	1:AA:101:A:C8	3.07	0.42
1:AA:304:U:C2'	1:AA:305:G:H5'	2.49	0.42
1:AA:538:G:OP2	12:AL:111:GLN:HG3	2.19	0.42
1:AA:859:G:H2'	1:AA:860:A:H8	1.83	0.42
1:AA:1038:C:C2	1:AA:1039:G:C8	3.08	0.42
1:AA:1214:C:H4'	1:AA:1215:G:OP2	2.19	0.42
1:AA:1446:A:H2'	1:AA:1447:A:C5'	2.49	0.42
2:AB:52:ALA:HB3	2:AB:212:TYR:OH	2.19	0.42
2:AB:93:HIS:ND1	2:AB:145:ASN:CB	2.83	0.42
2:AB:177:ASN:OD1	2:AB:178:LEU:HD23	2.19	0.42
3:AC:16:PRO:CG	3:AC:53:ARG:NH2	2.83	0.42
3:AC:122:GLN:O	3:AC:125:ARG:HB2	2.20	0.42
4:AD:109:THR:OG1	4:AD:111:ALA:HB3	2.20	0.42
4:AD:121:ALA:O	4:AD:122:ILE:HG23	2.20	0.42
4:AD:193:ASP:O	4:AD:194:ILE:HG22	2.20	0.42
5:AE:64:GLU:OE2	5:AE:68:ARG:CZ	2.68	0.42
5:AE:104:ILE:HD12	5:AE:104:ILE:HA	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:119:LYS:O	9:AI:120:ALA:CB	2.68	0.42
10:AJ:71:LEU:C	10:AJ:72:ARG:HG2	2.45	0.42
12:AL:35:ARG:NH2	24:AY:110:ARG:HD2	2.35	0.42
12:AL:56:LEU:HD23	12:AL:56:LEU:HA	1.87	0.42
12:AL:81:ILE:HA	12:AL:97:VAL:HG23	2.02	0.42
14:AN:27:LYS:CA	14:AN:30:ILE:HB	2.50	0.42
15:AO:22:GLY:O	15:AO:23:SER:C	2.63	0.42
16:AP:4:ILE:HA	16:AP:20:VAL:O	2.20	0.42
16:AP:19:VAL:CG2	16:AP:19:VAL:O	2.67	0.42
16:AP:39:PHE:CD1	16:AP:40:ASN:N	2.87	0.42
20:AT:42:ASP:O	20:AT:43:LYS:C	2.63	0.42
20:AT:56:ILE:HD12	20:AT:56:ILE:O	2.20	0.42
1:BA:6:G:C6	5:BE:98:ALA:HB1	2.55	0.42
1:BA:55:A:C2	32:CH:91:PHE:CD2	3.07	0.42
1:BA:361:G:C2'	1:BA:362:G:H5'	2.50	0.42
1:BA:474:G:C6	1:BA:475:C:C4	3.08	0.42
1:BA:687:A:N3	1:BA:688:G:H1'	2.35	0.42
1:BA:737:C:C2	1:BA:738:C:C5	3.08	0.42
1:BA:919:A:H2'	1:BA:920:U:H6	1.83	0.42
1:BA:1074:G:H2'	1:BA:1075:U:O4'	2.20	0.42
1:BA:1134:G:C6	1:BA:1135:U:C4	3.08	0.42
1:BA:1211:U:O2'	1:BA:1212:U:O5'	2.37	0.42
1:BA:1251:A:C2	1:BA:1252:A:C4	3.08	0.42
1:BA:1337:G:H5"	1:BA:1338:G:OP1	2.19	0.42
2:BB:71:THR:C	2:BB:72:LYS:HG2	2.45	0.42
2:BB:150:ILE:HG13	2:BB:153:MET:HE3	2.01	0.42
3:BC:34:SER:O	3:BC:38:VAL:HG13	2.20	0.42
3:BC:113:LYS:HB2	3:BC:184:ASN:ND2	2.34	0.42
3:BC:115:VAL:O	3:BC:118:SER:HB3	2.20	0.42
3:BC:116:ALA:O	3:BC:119:ILE:N	2.52	0.42
3:BC:148:ILE:HA	3:BC:200:TRP:O	2.20	0.42
4:BD:201:GLU:O	4:BD:204:SER:HB2	2.20	0.42
5:BE:155:LYS:CE	5:BE:155:LYS:H	2.31	0.42
7:BG:74:VAL:HG21	7:BG:143:MET:CG	2.47	0.42
9:BI:89:TYR:CA	9:BI:93:LEU:HD11	2.49	0.42
10:BJ:22:THR:O	10:BJ:22:THR:HG23	2.19	0.42
10:BJ:80:THR:CB	10:BJ:83:THR:HG22	2.49	0.42
12:BL:43:LYS:HB2	12:BL:44:PRO:CD	2.50	0.42
18:BR:28:LEU:N	18:BR:28:LEU:CD1	2.83	0.42
19:BS:14:LEU:HD23	19:BS:37:SER:CB	2.50	0.42
19:BS:39:ILE:O	19:BS:66:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BS:57:VAL:HG11	19:BS:74:ALA:CB	2.50	0.42
20:BT:7:LYS:O	20:BT:10:ALA:HB3	2.20	0.42
21:BU:18:PHE:HA	21:BU:21:SER:HB3	2.01	0.42
25:CA:4:U:C2'	25:CA:5:A:H5'	2.49	0.42
25:CA:45:G:H5'	25:CA:46:G:H5'	2.01	0.42
25:CA:123:G:H4'	25:CA:1376:C:O5'	2.20	0.42
25:CA:368:A:C8	25:CA:368:A:C3'	3.03	0.42
25:CA:559:G:H2'	25:CA:560:C:H5'	2.02	0.42
25:CA:594:U:H2'	25:CA:595:C:H6	1.80	0.42
25:CA:1444:G:C4	25:CA:1445:G:C8	3.07	0.42
25:CA:1712:U:H2'	25:CA:1713:A:C8	2.55	0.42
25:CA:1726:C:C4	25:CA:1727:C:C5	3.07	0.42
25:CA:1914:C:C5	25:CA:1915:U:C5	3.08	0.42
25:CA:2174:C:C2	25:CA:2175:C:C5	3.08	0.42
25:CA:2179:C:N3	25:CA:2180:U:C5	2.87	0.42
25:CA:2415:G:H2'	25:CA:2416:C:H6	1.85	0.42
25:CA:2732:G:C3'	25:CA:2733:A:C5'	2.98	0.42
26:CB:78:A:H61	26:CB:98:G:H2'	1.83	0.42
27:CC:23:LEU:HA	27:CC:23:LEU:HD12	1.82	0.42
29:CE:193:VAL:O	29:CE:197:GLU:HB2	2.19	0.42
32:CH:130:VAL:HG21	32:CH:144:VAL:HG21	2.01	0.42
34:CJ:64:VAL:C	34:CJ:65:THR:HG22	2.44	0.42
35:CK:44:LYS:HA	35:CK:44:LYS:HD3	1.91	0.42
36:CL:120:VAL:CG2	36:CL:121:THR:N	2.83	0.42
37:CM:29:GLY:CA	37:CM:106:ASP:HB2	2.50	0.42
39:CO:14:ALA:O	39:CO:18:LEU:HD22	2.19	0.42
40:CP:30:TRP:CD2	40:CP:39:LEU:HD12	2.55	0.42
42:CR:43:ASN:HD22	42:CR:43:ASN:HA	1.63	0.42
47:CW:17:LEU:HD23	47:CW:35:ARG:CB	2.50	0.42
50:CZ:2:LYS:HD3	50:CZ:2:LYS:N	2.35	0.42
51:C0:28:SER:O	51:C0:36:LYS:HA	2.20	0.42
54:C3:6:VAL:HG21	54:C3:60:CYS:SG	2.60	0.42
54:C3:16:THR:CG2	54:C3:20:GLY:O	2.68	0.42
25:DA:53:A:C2'	25:DA:54:G:H5'	2.49	0.42
25:DA:107:G:H2'	25:DA:108:G:H8	1.85	0.42
25:DA:129:C:C2'	25:DA:130:C:H5'	2.50	0.42
25:DA:255:A:H2'	25:DA:256:A:O4'	2.20	0.42
25:DA:317:G:C4	25:DA:318:C:C5	3.08	0.42
25:DA:321:U:C2	29:DE:159:LEU:CD2	3.03	0.42
25:DA:480:A:P	45:DU:43:LYS:HZ3	2.43	0.42
25:DA:494:G:H4'	43:DS:6:LYS:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:511:U:O4	25:DA:512:G:N1	2.53	0.42
25:DA:616:A:N3	29:DE:173:THR:HG21	2.34	0.42
25:DA:1045:C:H4'	25:DA:1046:A:H5'	2.02	0.42
25:DA:1286:A:C6	25:DA:1329:U:C2	3.08	0.42
25:DA:1327:A:C2'	25:DA:1328:A:H5'	2.50	0.42
25:DA:1367:A:C5	25:DA:1368:G:H1'	2.54	0.42
25:DA:1378:A:C2	25:DA:1380:G:N9	2.87	0.42
25:DA:1443:U:H2'	25:DA:1444:G:C8	2.54	0.42
25:DA:1448:G:N1	25:DA:1449:G:C4	2.88	0.42
25:DA:1562:U:H2'	25:DA:1563:U:O4'	2.20	0.42
25:DA:1579:A:C2	25:DA:1580:A:C2	3.07	0.42
25:DA:1712:U:C2	25:DA:1713:A:N7	2.88	0.42
25:DA:1885:A:C5	25:DA:1886:U:C5	3.08	0.42
25:DA:2119:A:C2	25:DA:2169:A:H2'	2.55	0.42
25:DA:2338:C:O2	25:DA:2339:C:C6	2.73	0.42
25:DA:2350:C:C2'	25:DA:2351:G:O5'	2.68	0.42
25:DA:2433:A:H5"	25:DA:2434:A:OP1	2.19	0.42
25:DA:2721:A:H2'	25:DA:2722:G:C8	2.54	0.42
25:DA:2731:G:O2'	25:DA:2732:G:O5'	2.38	0.42
25:DA:2784:U:C2	25:DA:2785:C:C5	3.08	0.42
25:DA:2794:C:O2	25:DA:2795:C:C2	2.73	0.42
56:DB:82:U:C2	56:DB:83:G:C8	3.08	0.42
27:DC:74:PRO:O	27:DC:96:LYS:HG2	2.20	0.42
30:DF:128:SER:OG	30:DF:154:THR:HG23	2.19	0.42
30:DF:132:ARG:HH21	30:DF:132:ARG:CG	2.33	0.42
31:DG:3:VAL:O	31:DG:6:ALA:HB3	2.20	0.42
31:DG:8:VAL:CG2	31:DG:72:ASN:HB2	2.49	0.42
31:DG:26:LYS:HB3	31:DG:31:GLU:CG	2.48	0.42
31:DG:39:ALA:HB2	31:DG:57:TYR:CD2	2.55	0.42
33:DI:7:TYR:O	33:DI:7:TYR:CD1	2.72	0.42
33:DI:72:THR:CG2	33:DI:112:LYS:HG2	2.50	0.42
34:DJ:62:VAL:O	34:DJ:62:VAL:HG13	2.18	0.42
34:DJ:97:PRO:O	34:DJ:98:GLU:C	2.63	0.42
36:DL:10:GLU:O	36:DL:10:GLU:HG3	2.20	0.42
37:DM:111:GLU:OE1	37:DM:112:LEU:HA	2.20	0.42
39:DO:67:ASN:C	39:DO:69:ASP:N	2.77	0.42
42:DR:47:VAL:O	42:DR:47:VAL:CG1	2.63	0.42
44:DT:7:LEU:CD2	44:DT:7:LEU:O	2.68	0.42
44:DT:65:GLY:O	44:DT:66:LYS:C	2.62	0.42
45:DU:17:ASP:O	45:DU:19:GLY:N	2.53	0.42
50:DZ:26:LEU:HD21	50:DZ:46:MET:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:D2:21:ARG:O	53:D2:27:GLY:HA3	2.20	0.42
1:AA:96:U:O2'	1:AA:97:G:P	2.77	0.42
1:AA:108:G:N7	20:AT:9:ARG:HG2	2.34	0.42
1:AA:233:C:N3	1:AA:234:C:C5	2.87	0.42
1:AA:386:C:H2'	1:AA:387:U:C5'	2.50	0.42
1:AA:451:A:C2	1:AA:480:U:N3	2.88	0.42
1:AA:490:C:C2	1:AA:491:G:C8	3.08	0.42
1:AA:508:U:H1'	1:AA:509:A:N7	2.35	0.42
1:AA:585:G:C6	1:AA:586:C:C4	3.08	0.42
1:AA:613:C:C2	1:AA:628:G:N2	2.87	0.42
1:AA:1001:C:H3'	1:AA:1001:C:H6	1.85	0.42
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.55	0.42
1:AA:1178:G:C8	1:AA:1178:G:H3'	2.55	0.42
1:AA:1345:U:C4	1:AA:1377:A:C2	3.08	0.42
1:AA:1394:A:C5	1:AA:1501:C:H4'	2.54	0.42
1:AA:1405:G:O4'	1:AA:1519:A:H4'	2.20	0.42
1:AA:1446:A:C2'	1:AA:1447:A:C5'	2.97	0.42
2:AB:31:PHE:O	2:AB:31:PHE:CD2	2.73	0.42
3:AC:28:PHE:CE2	3:AC:32:LEU:HD23	2.55	0.42
3:AC:51:VAL:CG2	3:AC:67:ILE:CG2	2.98	0.42
4:AD:106:PHE:HD1	4:AD:158:LEU:CD2	2.32	0.42
4:AD:121:ALA:C	4:AD:122:ILE:HG23	2.45	0.42
4:AD:151:GLN:O	4:AD:154:VAL:HG12	2.19	0.42
6:AF:51:ILE:HG13	6:AF:52:ASN:HB2	2.02	0.42
7:AG:91:ARG:HB2	7:AG:94:ARG:HG2	2.02	0.42
8:AH:85:TYR:CD2	8:AH:123:GLU:HA	2.48	0.42
8:AH:102:VAL:HG21	8:AH:126:CYS:SG	2.60	0.42
8:AH:105:THR:C	8:AH:107:LYS:N	2.78	0.42
9:AI:55:ASP:CG	9:AI:56:MET:H	2.27	0.42
9:AI:89:TYR:HB3	9:AI:93:LEU:HD21	2.01	0.42
10:AJ:72:ARG:HA	10:AJ:72:ARG:HD3	1.94	0.42
14:AN:25:GLU:O	14:AN:28:ALA:HB3	2.20	0.42
1:BA:82:G:C5	1:BA:83:C:C2	3.08	0.42
1:BA:318:G:C4	1:BA:319:G:C8	3.08	0.42
1:BA:385:C:H3'	1:BA:385:C:H6	1.85	0.42
1:BA:488:C:C2	1:BA:489:C:C5	3.08	0.42
1:BA:506:G:C5	1:BA:507:C:C4	3.07	0.42
1:BA:645:G:C5	1:BA:646:G:N7	2.88	0.42
1:BA:840:C:C5	1:BA:842:U:H5"	2.55	0.42
1:BA:1023:U:H2'	1:BA:1024:G:O4'	2.19	0.42
1:BA:1088:G:N3	1:BA:1089:G:C8	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1117:A:H4'	9:BI:105:ARG:CD	2.50	0.42
1:BA:1134:G:N1	1:BA:1141:C:N4	2.67	0.42
1:BA:1240:U:H3'	1:BA:1241:G:C5'	2.49	0.42
1:BA:1308:U:C6	13:BM:97:ARG:NH2	2.87	0.42
1:BA:1446:A:N6	1:BA:1447:A:N6	2.68	0.42
1:BA:1533:C:H4'	1:BA:1533:C:OP1	2.20	0.42
2:BB:59:ILE:O	2:BB:63:LYS:HA	2.20	0.42
2:BB:153:MET:HE1	2:BB:157:PRO:HG3	2.01	0.42
2:BB:186:VAL:O	2:BB:186:VAL:HG23	2.20	0.42
3:BC:44:LYS:O	3:BC:45:GLU:C	2.63	0.42
3:BC:129:PHE:CE2	3:BC:156:LEU:CD2	3.03	0.42
4:BD:54:LEU:C	4:BD:54:LEU:HD23	2.44	0.42
4:BD:162:GLU:C	4:BD:164:ARG:H	2.27	0.42
7:BG:65:LEU:HD21	7:BG:69:ARG:CZ	2.50	0.42
7:BG:94:ARG:O	7:BG:95:ARG:C	2.63	0.42
8:BH:11:THR:HA	8:BH:14:ARG:NH1	2.35	0.42
8:BH:48:PHE:C	8:BH:48:PHE:HD1	2.27	0.42
9:BI:53:LEU:O	9:BI:54:VAL:CG2	2.67	0.42
10:BJ:17:LEU:N	10:BJ:20:GLN:HG2	2.35	0.42
23:BX:18:C:H3'	23:BX:19:U:C5'	2.49	0.42
25:CA:623:C:H2'	25:CA:624:C:H6	1.84	0.42
25:CA:699:A:H4'	25:CA:1634:A:N7	2.35	0.42
25:CA:1079:C:C5	25:CA:1088:A:N1	2.88	0.42
25:CA:1197:G:H2'	25:CA:1198:U:C6	2.55	0.42
25:CA:1255:U:C5	29:CE:68:ALA:HA	2.55	0.42
25:CA:1262:A:OP2	43:CS:99:ARG:NH2	2.52	0.42
25:CA:1575:C:H2'	25:CA:1576:U:O5'	2.20	0.42
25:CA:1911:U:C2	25:CA:1918:A:C2	3.08	0.42
25:CA:2038:G:H2'	25:CA:2039:U:O4'	2.20	0.42
25:CA:2141:G:C2	25:CA:2142:A:C1'	3.02	0.42
25:CA:2314:A:C4	25:CA:2315:G:C8	3.07	0.42
25:CA:2331:G:H8	25:CA:2331:G:C5'	2.32	0.42
25:CA:2482:A:H2'	25:CA:2483:C:O4'	2.20	0.42
26:CB:59:A:C2'	26:CB:60:C:O5'	2.67	0.42
26:CB:68:C:C6	26:CB:68:C:H3'	2.55	0.42
27:CC:174:ARG:O	27:CC:174:ARG:HG2	2.20	0.42
27:CC:190:THR:HG22	27:CC:191:LEU:O	2.20	0.42
28:CD:121:THR:HG22	28:CD:125:TRP:HD1	1.85	0.42
28:CD:205:PRO:O	28:CD:206:ALA:O	2.38	0.42
29:CE:48:THR:O	29:CE:50:ALA:N	2.53	0.42
31:CG:8:VAL:HG13	31:CG:8:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CI:18:ASN:H	33:CI:19:PRO:CD	2.33	0.42
33:CI:75:ALA:HB1	33:CI:128:ILE:HG22	1.98	0.42
35:CK:53:LYS:O	35:CK:56:ASP:HB2	2.20	0.42
38:CN:79:LEU:HG	38:CN:83:LEU:HD12	2.02	0.42
42:CR:25:LEU:N	42:CR:94:THR:CG2	2.77	0.42
44:CT:51:PHE:O	44:CT:53:VAL:HG13	2.20	0.42
48:CX:67:LEU:HD23	48:CX:67:LEU:HA	1.89	0.42
49:CY:59:GLU:O	49:CY:63:ALA:CB	2.68	0.42
25:DA:54:G:C6	25:DA:55:G:C5	3.07	0.42
25:DA:201:C:H2'	25:DA:202:U:O5'	2.18	0.42
25:DA:545:U:C5	25:DA:547:A:O3'	2.73	0.42
25:DA:570:G:C4	25:DA:2030:A:N7	2.88	0.42
25:DA:900:A:C5	25:DA:901:C:C5	3.07	0.42
25:DA:1121:C:H2'	25:DA:1122:G:O4'	2.20	0.42
25:DA:1168:G:C2'	25:DA:1169:A:O5'	2.68	0.42
25:DA:1178:C:C5	25:DA:1180:U:C4	3.08	0.42
25:DA:1469:A:C2'	25:DA:1470:A:C8	3.00	0.42
25:DA:1656:C:O5'	25:DA:1656:C:H6	2.01	0.42
25:DA:1709:U:C2'	25:DA:1710:G:O5'	2.68	0.42
25:DA:1856:U:C2'	25:DA:1857:G:H5'	2.49	0.42
25:DA:2165:C:O2	25:DA:2166:U:C1'	2.67	0.42
25:DA:2177:C:C4	25:DA:2178:C:N4	2.88	0.42
25:DA:2192:U:H2'	25:DA:2193:G:C8	2.55	0.42
25:DA:2393:U:H2'	25:DA:2394:C:H6	1.84	0.42
25:DA:2462:C:H2'	25:DA:2463:C:H6	1.85	0.42
25:DA:2477:U:H4'	25:DA:2479:U:O4	2.19	0.42
25:DA:2862:G:C4	25:DA:2863:C:C5	3.08	0.42
25:DA:2886:A:H3'	25:DA:2887:A:H8	1.85	0.42
56:DB:112:G:H8	56:DB:112:G:O5'	2.02	0.42
28:DD:47:ALA:HB2	28:DD:83:ARG:HA	2.02	0.42
29:DE:137:LYS:O	29:DE:140:ASP:HB2	2.20	0.42
29:DE:181:ILE:HD13	36:DL:2:ARG:NH1	2.35	0.42
30:DF:169:LEU:HD13	30:DF:174:PHE:CE1	2.55	0.42
31:DG:10:VAL:O	31:DG:47:ASN:ND2	2.53	0.42
32:DH:21:VAL:O	32:DH:21:VAL:HG13	2.20	0.42
32:DH:118:PRO:O	32:DH:119:ASN:HB2	2.20	0.42
33:DI:58:ILE:HD13	33:DI:66:PHE:CD1	2.55	0.42
33:DI:72:THR:OG1	33:DI:115:ASP:CG	2.63	0.42
36:DL:92:LEU:HD23	36:DL:124:GLY:HA3	2.02	0.42
37:DM:26:VAL:HB	37:DM:133:LYS:HA	2.02	0.42
37:DM:66:ARG:HB2	37:DM:102:LEU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:31:THR:HG22	39:DO:33:ARG:O	2.20	0.42
44:DT:69:ARG:HB2	44:DT:74:ILE:HG21	2.02	0.42
44:DT:69:ARG:CB	44:DT:74:ILE:HG22	2.50	0.42
48:DX:1:SER:O	48:DX:3:VAL:N	2.53	0.42
48:DX:51:SER:O	48:DX:52:ALA:O	2.37	0.42
49:DY:60:LYS:HE3	49:DY:60:LYS:HB2	1.94	0.42
1:AA:282:A:H5"	1:AA:283:U:OP2	2.20	0.41
1:AA:289:G:H5"	1:AA:289:G:H8	1.85	0.41
1:AA:299:G:C2'	1:AA:300:A:O5'	2.68	0.41
1:AA:386:C:H2'	1:AA:387:U:H5'	2.00	0.41
1:AA:430:A:OP2	4:AD:7:LYS:CG	2.68	0.41
1:AA:489:C:H2'	1:AA:490:C:O5'	2.18	0.41
1:AA:527:G:O2'	1:AA:535:A:N1	2.52	0.41
1:AA:957:U:C2	1:AA:959:A:OP2	2.73	0.41
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.54	0.41
1:AA:1165:U:H2'	1:AA:1166:G:H5'	2.02	0.41
2:AB:67:LEU:HA	2:AB:89:PHE:O	2.19	0.41
2:AB:68:PHE:CE2	2:AB:88:GLN:CB	3.03	0.41
2:AB:72:LYS:HE3	2:AB:204:ASP:HB2	2.02	0.41
3:AC:142:ARG:C	3:AC:144:GLY:H	2.28	0.41
3:AC:159:ALA:C	3:AC:161:ILE:N	2.77	0.41
4:AD:24:VAL:HG12	4:AD:25:ARG:H	1.83	0.41
4:AD:61:ARG:NH2	4:AD:67:LEU:HD13	2.35	0.41
4:AD:96:ARG:O	4:AD:97:LEU:C	2.63	0.41
6:AF:47:LEU:HD13	6:AF:51:ILE:CG2	2.49	0.41
7:AG:70:PRO:O	7:AG:95:ARG:CD	2.68	0.41
10:AJ:5:ARG:CG	10:AJ:79:PRO:HG3	2.49	0.41
10:AJ:51:VAL:HB	14:AN:81:ARG:HB2	2.02	0.41
10:AJ:71:LEU:O	10:AJ:72:ARG:NE	2.53	0.41
11:AK:13:LYS:HB3	11:AK:14:GLN:H	1.63	0.41
11:AK:88:PRO:HB3	21:AU:28:LEU:HD13	2.00	0.41
11:AK:92:ARG:NH2	21:AU:19:LYS:HG3	2.35	0.41
13:AM:22:TYR:CE2	13:AM:68:LEU:HD23	2.54	0.41
13:AM:76:ILE:HG23	13:AM:80:MET:HE2	2.01	0.41
16:AP:20:VAL:HG11	16:AP:32:PHE:HB3	2.02	0.41
17:AQ:60:ILE:HG23	17:AQ:72:TRP:CE3	2.55	0.41
19:AS:44:ILE:HG23	19:AS:62:THR:HA	2.03	0.41
20:AT:34:VAL:HG11	20:AT:78:LEU:HD13	2.02	0.41
20:AT:82:ILE:C	20:AT:84:LYS:H	2.27	0.41
24:AY:6:ILE:HG12	24:AY:139:LYS:HD3	2.02	0.41
1:BA:293:G:C6	1:BA:305:G:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:437:U:C2'	4:BD:119:HIS:HD2	2.33	0.41
1:BA:439:U:H2'	1:BA:440:C:O5'	2.20	0.41
1:BA:464:U:C2	1:BA:466:A:OP2	2.74	0.41
1:BA:511:C:H1'	1:BA:512:U:H6	1.85	0.41
1:BA:585:G:N3	1:BA:879:C:C5'	2.83	0.41
1:BA:723:U:O2'	1:BA:855:U:H4'	2.20	0.41
1:BA:734:G:H2'	1:BA:735:C:C6	2.54	0.41
1:BA:808:C:H2'	1:BA:809:G:O5'	2.20	0.41
1:BA:862:C:O2	1:BA:862:C:H2'	2.19	0.41
1:BA:959:A:H5"	1:BA:960:U:OP2	2.20	0.41
1:BA:1130:A:C4	1:BA:1146:A:C2	3.07	0.41
1:BA:1328:C:H5"	13:BM:27:THR:CB	2.50	0.41
1:BA:1422:G:C2	1:BA:1423:G:C5	3.08	0.41
2:BB:53:LEU:HD13	2:BB:56:LEU:HD12	2.00	0.41
3:BC:11:LEU:O	3:BC:12:GLY:C	2.63	0.41
3:BC:14:VAL:O	3:BC:15:LYS:HB2	2.19	0.41
4:BD:30:LYS:HD3	4:BD:30:LYS:H	1.85	0.41
4:BD:150:LYS:C	4:BD:151:GLN:OE1	2.63	0.41
7:BG:16:LYS:HD3	7:BG:43:TYR:CE1	2.54	0.41
7:BG:114:SER:C	7:BG:118:ARG:HD3	2.45	0.41
8:BH:91:LEU:HD21	8:BH:103:VAL:HG11	2.01	0.41
9:BI:18:VAL:HG12	9:BI:18:VAL:O	2.19	0.41
10:BJ:56:HIS:O	10:BJ:57:VAL:C	2.62	0.41
12:BL:35:ARG:HD2	12:BL:53:ARG:NH2	2.35	0.41
13:BM:7:ASN:C	13:BM:9:PRO:HD3	2.45	0.41
14:BN:13:VAL:HA	14:BN:60:GLN:NE2	2.35	0.41
17:BQ:10:ARG:NH2	17:BQ:55:GLY:HA2	2.35	0.41
18:BR:45:GLY:C	18:BR:46:THR:HG23	2.44	0.41
21:BU:18:PHE:O	21:BU:18:PHE:CD2	2.73	0.41
25:CA:93:G:C6	25:CA:94:A:C5	3.08	0.41
25:CA:322:A:H5'	25:CA:340:A:C1'	2.47	0.41
25:CA:416:U:C4	25:CA:417:C:C4	3.08	0.41
25:CA:1044:C:H1'	25:CA:1048:A:H1'	2.02	0.41
25:CA:1114:C:O2'	25:CA:1115:G:H5'	2.20	0.41
25:CA:1165:A:O2'	25:CA:1166:G:H5'	2.20	0.41
25:CA:1414:C:C2	25:CA:1415:U:C5	3.08	0.41
25:CA:1415:U:C6	25:CA:1588:G:N1	2.88	0.41
25:CA:1591:A:H2'	25:CA:1592:C:H6	1.84	0.41
25:CA:1606:C:O2'	25:CA:1607:C:C5'	2.67	0.41
25:CA:2031:A:C6	25:CA:2498:C:H1'	2.55	0.41
25:CA:2286:G:OP1	52:C1:29:LYS:HE3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2858:C:O5'	25:CA:2858:C:H6	2.02	0.41
25:CA:2863:C:O2	25:CA:2863:C:H2'	2.19	0.41
31:CG:123:GLU:OE1	31:CG:123:GLU:CA	2.66	0.41
32:CH:14:SER:O	32:CH:15:LEU:HB2	2.19	0.41
32:CH:75:LEU:O	32:CH:76:GLU:HB3	2.20	0.41
33:CI:75:ALA:CB	33:CI:128:ILE:HG23	2.50	0.41
33:CI:75:ALA:C	33:CI:131:THR:HG21	2.44	0.41
34:CJ:23:LYS:CE	34:CJ:142:ILE:OXT	2.67	0.41
36:CL:101:ILE:O	36:CL:102:GLY:O	2.39	0.41
39:CO:71:ALA:O	39:CO:72:ALA:C	2.61	0.41
43:CS:85:ILE:CG2	43:CS:86:MET:N	2.81	0.41
44:CT:25:GLU:O	44:CT:26:LYS:C	2.63	0.41
45:CU:33:VAL:O	45:CU:64:ILE:HG22	2.19	0.41
48:CX:54:GLY:O	48:CX:55:MET:C	2.62	0.41
49:CY:22:LEU:CG	49:CY:23:ARG:N	2.83	0.41
51:C0:5:ASN:O	51:C0:7:PRO:HD3	2.20	0.41
54:C3:14:LYS:HD2	54:C3:22:LYS:HE2	2.02	0.41
55:C4:36:ARG:CG	55:C4:37:GLN:H	2.26	0.41
25:DA:106:C:H2'	25:DA:106:C:O2	2.19	0.41
25:DA:168:G:N2	25:DA:169:G:H1'	2.34	0.41
25:DA:468:G:OP2	53:D2:37:LYS:NZ	2.53	0.41
25:DA:542:C:H6	25:DA:542:C:OP2	2.03	0.41
25:DA:559:G:H2'	25:DA:560:C:H6	1.85	0.41
25:DA:995:C:OP2	41:DQ:53:LYS:HE3	2.19	0.41
25:DA:1035:U:O2	25:DA:1120:G:C6	2.73	0.41
25:DA:1193:G:O2'	25:DA:1194:A:H5'	2.20	0.41
25:DA:1333:G:N2	25:DA:1334:G:C8	2.88	0.41
25:DA:1474:U:H2'	25:DA:1475:G:O5'	2.20	0.41
25:DA:1489:C:N3	25:DA:1501:G:N2	2.68	0.41
25:DA:1750:G:O2'	25:DA:1751:U:H5'	2.20	0.41
25:DA:1796:U:H2'	25:DA:1797:G:H8	1.83	0.41
25:DA:1825:U:H2'	25:DA:1826:G:H8	1.84	0.41
25:DA:1828:G:OP1	60:DA:3460:HOH:O	2.22	0.41
25:DA:1857:G:N9	25:DA:1884:G:N2	2.68	0.41
25:DA:2407:A:H5"	25:DA:2408:U:OP2	2.19	0.41
25:DA:2422:C:C5	25:DA:2424:C:N4	2.88	0.41
25:DA:2428:G:H5"	25:DA:2429:G:P	2.60	0.41
25:DA:2702:G:H2'	25:DA:2703:C:H6	1.84	0.41
56:DB:50:A:P	39:DO:68:LYS:HG3	2.60	0.41
27:DC:47:ARG:O	27:DC:49:THR:HG23	2.19	0.41
27:DC:64:VAL:HB	27:DC:66:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:221:GLY:O	27:DC:224:MET:HG3	2.20	0.41
28:DD:3:GLY:O	28:DD:4:LEU:HD13	2.20	0.41
28:DD:173:GLN:OE1	28:DD:208:LYS:HE3	2.20	0.41
28:DD:180:VAL:O	28:DD:180:VAL:CG1	2.68	0.41
29:DE:192:ALA:O	29:DE:193:VAL:C	2.62	0.41
30:DF:3:LEU:H	30:DF:3:LEU:CD2	2.24	0.41
31:DG:8:VAL:HG11	31:DG:72:ASN:HA	2.01	0.41
31:DG:85:LYS:O	31:DG:86:LEU:HD12	2.20	0.41
32:DH:1:MET:CE	32:DH:23:ALA:HA	2.50	0.41
37:DM:109:PRO:O	37:DM:112:LEU:N	2.53	0.41
40:DP:30:TRP:C	40:DP:31:VAL:HG12	2.44	0.41
42:DR:61:ALA:HB2	42:DR:98:ILE:HD13	2.02	0.41
43:DS:68:ASP:O	43:DS:109:ASP:HA	2.20	0.41
45:DU:3:LYS:HD3	45:DU:82:VAL:HB	2.01	0.41
51:D0:49:ARG:C	51:D0:51:ARG:H	2.28	0.41
52:D1:8:ILE:HD11	52:D1:22:THR:HG23	2.01	0.41
1:AA:73:C:HO2'	1:AA:74:A:H5"	1.85	0.41
1:AA:96:U:C2	1:AA:97:G:C8	3.08	0.41
1:AA:255:G:H2'	1:AA:256:U:O4'	2.21	0.41
1:AA:623:C:N3	1:AA:624:C:C5	2.88	0.41
1:AA:865:A:H5'	1:AA:1078:U:O4	2.19	0.41
1:AA:948:C:C5	13:AM:104:ASN:OD1	2.73	0.41
1:AA:1130:A:C1'	1:AA:1146:A:C2	3.02	0.41
1:AA:1134:G:C6	1:AA:1141:C:N4	2.89	0.41
1:AA:1246:A:C6	1:AA:1292:G:C6	3.07	0.41
2:AB:12:GLY:HA3	2:AB:207:ARG:HH22	1.85	0.41
2:AB:71:THR:HG22	2:AB:92:ASN:C	2.45	0.41
3:AC:13:ILE:C	3:AC:14:VAL:CG1	2.93	0.41
4:AD:53:GLN:O	4:AD:202:LEU:HD13	2.20	0.41
4:AD:57:LYS:CB	4:AD:199:ILE:CG2	2.95	0.41
4:AD:115:GLN:HE21	4:AD:115:GLN:CA	2.33	0.41
4:AD:120:LYS:HA	4:AD:122:ILE:CD1	2.50	0.41
4:AD:159:GLU:OE1	4:AD:160:LEU:HD13	2.19	0.41
4:AD:200:VAL:O	4:AD:201:GLU:C	2.62	0.41
5:AE:20:VAL:O	5:AE:20:VAL:HG22	2.19	0.41
5:AE:37:VAL:HG23	5:AE:47:PHE:HB3	2.01	0.41
9:AI:33:SER:HB3	9:AI:36:GLN:CB	2.50	0.41
9:AI:33:SER:HB3	9:AI:36:GLN:HB2	2.02	0.41
11:AK:41:LEU:HB2	11:AK:73:VAL:HG12	2.01	0.41
19:AS:39:ILE:HB	19:AS:65:MET:O	2.19	0.41
1:BA:429:U:H1'	1:BA:430:A:H5"	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:654:G:C2	1:BA:753:A:C4	3.08	0.41
1:BA:799:G:H2'	1:BA:800:G:O4'	2.19	0.41
1:BA:840:C:C2	1:BA:842:U:H5"	2.56	0.41
1:BA:1029:U:O2	1:BA:1029:U:C2'	2.66	0.41
1:BA:1072:G:C5	1:BA:1073:U:C4	3.07	0.41
1:BA:1130:A:N9	1:BA:1146:A:C2	2.88	0.41
2:BB:69:VAL:O	2:BB:162:VAL:HA	2.20	0.41
2:BB:77:GLU:O	2:BB:78:ALA:C	2.62	0.41
2:BB:80:LYS:CG	2:BB:84:LEU:CD2	2.98	0.41
2:BB:94:ARG:NE	2:BB:94:ARG:N	2.68	0.41
2:BB:181:PRO:O	2:BB:182:VAL:CG2	2.68	0.41
4:BD:3:TYR:O	4:BD:4:LEU:CB	2.67	0.41
5:BE:75:LEU:HB3	5:BE:77:ASN:O	2.20	0.41
5:BE:76:ASN:O	5:BE:77:ASN:CB	2.68	0.41
6:BF:86:ARG:HD3	18:BR:63:TYR:CZ	2.55	0.41
8:BH:105:THR:HG21	8:BH:115:ALA:CB	2.49	0.41
9:BI:11:ARG:HG2	9:BI:73:GLY:HA2	2.02	0.41
9:BI:88:GLU:HG3	9:BI:89:TYR:N	2.35	0.41
9:BI:98:ARG:CA	9:BI:103:VAL:HG11	2.48	0.41
10:BJ:17:LEU:C	10:BJ:17:LEU:HD23	2.45	0.41
11:BK:71:ASP:C	11:BK:73:VAL:H	2.28	0.41
13:BM:6:ILE:CD1	30:DF:111:ARG:HD3	2.50	0.41
13:BM:7:ASN:O	13:BM:9:PRO:HD3	2.21	0.41
13:BM:31:ALA:O	13:BM:32:ILE:C	2.62	0.41
13:BM:84:CYS:CA	19:BS:72:GLU:O	2.65	0.41
14:BN:83:LYS:HE2	14:BN:86:GLU:HG3	2.01	0.41
15:BO:16:ARG:O	15:BO:17:ASP:CG	2.63	0.41
15:BO:23:SER:O	15:BO:26:VAL:HB	2.20	0.41
15:BO:55:LEU:O	15:BO:58:MET:N	2.53	0.41
19:BS:4:LEU:C	19:BS:5:LYS:HG3	2.43	0.41
19:BS:12:LEU:HD22	19:BS:16:LYS:HE3	2.03	0.41
20:BT:66:ILE:HG12	20:BT:70:LYS:HG2	2.02	0.41
22:BV:26:A:C4	22:BV:27:G:C8	3.08	0.41
25:CA:28:A:C2'	25:CA:29:U:H5'	2.50	0.41
25:CA:189:G:OP1	48:CX:25:LYS:HD2	2.19	0.41
25:CA:196:A:C2'	25:CA:805:G:O6	2.69	0.41
25:CA:360:U:O2	25:CA:360:U:H2'	2.21	0.41
25:CA:1088:A:N3	25:CA:1088:A:C5'	2.83	0.41
25:CA:1139:G:O3'	34:CJ:26:GLY:HA3	2.20	0.41
25:CA:1355:G:H2'	25:CA:1356:G:O5'	2.20	0.41
25:CA:1840:G:C2'	25:CA:1841:U:H5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2017:U:H4'	51:C0:4:GLN:O	2.19	0.41
25:CA:2170:A:H1'	25:CA:2171:A:C8	2.56	0.41
25:CA:2232:C:O2	25:CA:2232:C:C2'	2.64	0.41
25:CA:2255:G:H2'	25:CA:2256:G:H5'	2.03	0.41
25:CA:2309:A:C6	25:CA:2310:C:C4	3.08	0.41
25:CA:2758:A:H2'	25:CA:2759:G:H5'	2.02	0.41
26:CB:30:C:OP1	39:CO:3:LYS:NZ	2.52	0.41
27:CC:124:LYS:CB	27:CC:125:PRO:CD	2.98	0.41
27:CC:270:ARG:HH11	27:CC:270:ARG:CG	2.33	0.41
28:CD:62:LYS:N	28:CD:63:PRO:HD2	2.34	0.41
29:CE:130:LYS:HD3	29:CE:130:LYS:HA	1.89	0.41
29:CE:143:LEU:HB3	29:CE:146:VAL:HG11	2.01	0.41
29:CE:196:VAL:O	29:CE:200:LEU:HD23	2.20	0.41
30:CF:3:LEU:HG	30:CF:100:GLU:HG3	2.01	0.41
30:CF:65:LEU:C	30:CF:65:LEU:HD12	2.45	0.41
31:CG:10:VAL:O	31:CG:10:VAL:CG2	2.68	0.41
31:CG:59:ASP:O	31:CG:61:TRP:N	2.53	0.41
31:CG:76:ILE:N	31:CG:76:ILE:HD13	2.35	0.41
31:CG:124:CYS:O	31:CG:125:PRO:C	2.60	0.41
33:CI:66:PHE:CD1	33:CI:68:PHE:CE1	3.08	0.41
36:CL:110:VAL:CA	36:CL:111:ILE:HD12	2.51	0.41
37:CM:136:MET:HE2	37:CM:136:MET:HB3	1.86	0.41
42:CR:26:ASP:C	42:CR:27:ILE:HD13	2.45	0.41
43:CS:31:GLN:O	43:CS:35:ILE:HG12	2.19	0.41
45:CU:39:ASN:CB	45:CU:62:ALA:O	2.68	0.41
53:C2:28:ARG:C	53:C2:30:VAL:N	2.75	0.41
25:DA:36:G:N3	25:DA:450:G:O2'	2.51	0.41
25:DA:616:A:H4'	29:DE:101:TYR:CE2	2.55	0.41
25:DA:688:U:O2'	25:DA:786:C:O2'	2.32	0.41
25:DA:826:U:H2'	25:DA:828:U:O4'	2.20	0.41
25:DA:864:G:N2	25:DA:913:U:C2	2.88	0.41
25:DA:1011:G:C2	25:DA:1151:A:N3	2.88	0.41
25:DA:1018:U:C2'	25:DA:1019:U:H5'	2.50	0.41
25:DA:1062:G:C3'	25:DA:1063:G:C8	3.03	0.41
25:DA:1135:C:C2'	25:DA:1136:G:OP1	2.68	0.41
25:DA:1157:G:H2'	25:DA:1158:C:C6	2.56	0.41
25:DA:1319:C:O2	25:DA:1334:G:C2	2.73	0.41
25:DA:1474:U:C2'	25:DA:1475:G:H5'	2.49	0.41
25:DA:1557:C:H2'	25:DA:1558:C:C5	2.55	0.41
25:DA:1606:C:C6	25:DA:1606:C:C3'	3.02	0.41
25:DA:1606:C:H2'	25:DA:1607:C:OP2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1723:G:O2'	25:DA:1724:G:H5'	2.20	0.41
25:DA:1744:A:C8	25:DA:1745:A:N7	2.88	0.41
25:DA:1845:G:OP1	27:DC:255:LYS:HE3	2.20	0.41
25:DA:1946:U:O2'	25:DA:1947:C:H5'	2.19	0.41
25:DA:2093:G:H4'	32:DH:25:TYR:N	2.35	0.41
25:DA:2195:U:C2	25:DA:2196:C:C5	3.08	0.41
25:DA:2306:C:C5	25:DA:2307:G:H2'	2.55	0.41
25:DA:2392:A:C8	25:DA:2429:G:C2	3.09	0.41
25:DA:2898:U:O2	34:DJ:134:ALA:HB1	2.20	0.41
56:DB:7:G:H5'	39:DO:29:HIS:ND1	2.35	0.41
56:DB:71:C:H2'	56:DB:72:G:H5'	2.01	0.41
27:DC:70:LYS:HB3	27:DC:95:TYR:CE2	2.56	0.41
29:DE:5:LEU:HD12	29:DE:5:LEU:N	2.35	0.41
29:DE:14:VAL:HB	29:DE:197:GLU:OE1	2.20	0.41
29:DE:127:GLU:OE1	29:DE:127:GLU:CA	2.68	0.41
30:DF:39:VAL:H	30:DF:85:GLY:HA2	1.84	0.41
30:DF:92:GLY:O	30:DF:95:MET:N	2.53	0.41
33:DI:123:ALA:C	33:DI:125:THR:N	2.78	0.41
34:DJ:7:LYS:HA	34:DJ:8:PRO:HD3	1.88	0.41
34:DJ:24:THR:O	34:DJ:25:LEU:C	2.63	0.41
37:DM:1:MET:HE3	37:DM:43:ALA:HB1	2.01	0.41
39:DO:40:ILE:HA	39:DO:47:VAL:HA	2.01	0.41
39:DO:41:ALA:HB1	39:DO:43:ASN:ND2	2.35	0.41
45:DU:73:ASN:OD1	45:DU:75:ALA:HB3	2.20	0.41
45:DU:73:ASN:O	45:DU:74:ALA:HB3	2.19	0.41
49:DY:6:LEU:HA	49:DY:56:LEU:HD13	2.02	0.41
49:DY:35:GLY:O	49:DY:36:GLN:HG2	2.20	0.41
50:DZ:2:LYS:O	50:DZ:3:THR:O	2.38	0.41
51:D0:6:LYS:HA	51:D0:7:PRO:HD3	1.86	0.41
54:D3:21:PHE:O	54:D3:49:VAL:HG23	2.20	0.41
55:D4:19:ARG:O	55:D4:20:ASP:HB2	2.20	0.41
1:AA:22:G:C5	1:AA:23:C:C4	3.08	0.41
1:AA:190:A:H3'	1:AA:190:A:H8	1.85	0.41
1:AA:243:A:N1	1:AA:246:A:C8	2.89	0.41
1:AA:267:C:OP1	17:AQ:68:LYS:HB2	2.20	0.41
1:AA:375:U:OP1	16:AP:70:ARG:NH1	2.53	0.41
1:AA:416:G:C2'	1:AA:417:G:H5'	2.50	0.41
1:AA:1092:A:N6	1:AA:1093:A:N6	2.68	0.41
1:AA:1131:G:H22	1:AA:1144:G:H4'	1.85	0.41
1:AA:1233:G:H2'	1:AA:1234:C:H6	1.85	0.41
2:AB:14:HIS:CD2	2:AB:15:PHE:N	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:110:ILE:O	2:AB:113:LEU:N	2.53	0.41
2:AB:129:THR:CG2	2:AB:131:LYS:HB3	2.50	0.41
3:AC:163:ARG:O	3:AC:164:THR:HG23	2.20	0.41
4:AD:8:LEU:HD22	4:AD:21:LYS:HB2	2.02	0.41
4:AD:87:GLU:CD	4:AD:187:ARG:HB2	2.46	0.41
6:AF:18:VAL:HG21	6:AF:58:HIS:CE1	2.55	0.41
7:AG:75:LYS:HB3	7:AG:88:VAL:HG11	2.01	0.41
7:AG:108:ARG:HA	7:AG:108:ARG:HE	1.84	0.41
9:AI:16:ALA:HB2	9:AI:66:VAL:CG2	2.50	0.41
9:AI:20:ILE:HG22	9:AI:21:LYS:N	2.35	0.41
10:AJ:33:GLY:O	10:AJ:34:ALA:CB	2.68	0.41
10:AJ:41:PRO:O	10:AJ:42:LEU:CB	2.68	0.41
11:AK:41:LEU:CB	11:AK:73:VAL:HG12	2.50	0.41
11:AK:74:LYS:C	11:AK:75:GLU:CD	2.88	0.41
12:AL:116:TYR:N	12:AL:116:TYR:CD1	2.87	0.41
15:AO:44:GLU:O	15:AO:45:HIS:HB2	2.19	0.41
17:AQ:43:LEU:HA	17:AQ:43:LEU:HD23	1.82	0.41
19:AS:58:PRO:C	19:AS:59:VAL:CG2	2.93	0.41
21:AU:13:VAL:C	21:AU:15:LEU:HG	2.44	0.41
24:AY:23:THR:O	24:AY:24:GLN:C	2.61	0.41
1:BA:17:U:H2'	1:BA:17:U:O2	2.18	0.41
1:BA:17:U:N3	1:BA:18:C:C4	2.88	0.41
1:BA:174:A:H2'	1:BA:175:C:H5'	2.02	0.41
1:BA:201:G:O6	1:BA:216:U:O2	2.37	0.41
1:BA:234:C:H2'	1:BA:235:C:H6	1.83	0.41
1:BA:376:G:N3	1:BA:377:G:C8	2.88	0.41
1:BA:468:A:N7	1:BA:469:C:C2	2.88	0.41
1:BA:575:G:C8	1:BA:881:G:N2	2.88	0.41
1:BA:671:G:C4	1:BA:672:U:C6	3.08	0.41
1:BA:696:A:N1	1:BA:797:C:O2'	2.53	0.41
1:BA:827:U:H5"	1:BA:828:U:OP2	2.19	0.41
1:BA:976:G:H5'	1:BA:977:A:OP1	2.19	0.41
1:BA:1004:A:H5'	1:BA:1025:U:O2	2.20	0.41
1:BA:1220:G:C4	1:BA:1221:G:C8	3.07	0.41
1:BA:1223:C:OP1	19:BS:77:ARG:NH1	2.53	0.41
1:BA:1250:A:C5	1:BA:1287:A:C5	3.08	0.41
1:BA:1305:G:H21	1:BA:1332:A:H2	1.67	0.41
1:BA:1445:U:C2'	1:BA:1446:A:OP2	2.68	0.41
3:BC:73:GLY:O	3:BC:74:ILE:C	2.63	0.41
7:BG:115:MET:CA	7:BG:118:ARG:HD3	2.50	0.41
8:BH:25:THR:O	8:BH:26:MET:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BI:29:ILE:HB	9:BI:64:ILE:HD11	2.02	0.41
9:BI:88:GLU:CD	9:BI:89:TYR:N	2.78	0.41
9:BI:89:TYR:O	9:BI:90:ASP:CG	2.63	0.41
9:BI:97:LEU:C	9:BI:103:VAL:HG13	2.45	0.41
13:BM:43:LYS:C	13:BM:45:SER:N	2.78	0.41
19:BS:13:HIS:O	19:BS:17:LYS:CD	2.68	0.41
20:BT:6:ALA:O	20:BT:9:ARG:HB2	2.20	0.41
20:BT:32:LYS:O	20:BT:35:TYR:HD2	2.04	0.41
21:BU:25:ALA:CB	23:BX:8:A:C5'	2.89	0.41
25:CA:126:A:C5	53:C2:18:PHE:CD2	3.09	0.41
25:CA:404:A:C2'	25:CA:405:U:OP2	2.69	0.41
25:CA:417:C:C2	25:CA:418:C:C6	3.09	0.41
25:CA:434:U:H1'	25:CA:435:C:H5	1.85	0.41
25:CA:747:U:C5	25:CA:2613:U:C5	3.08	0.41
25:CA:883:G:H22	25:CA:894:U:H1'	1.85	0.41
25:CA:1056:G:C4'	25:CA:1086:A:H8	2.33	0.41
25:CA:1056:G:H5"	25:CA:1057:A:H5'	2.02	0.41
25:CA:1101:U:O2	25:CA:1101:U:H2'	2.20	0.41
25:CA:1103:A:N7	25:CA:1104:C:C5	2.89	0.41
25:CA:1293:C:C4	25:CA:1294:U:C5	3.08	0.41
25:CA:1407:G:O2'	25:CA:1408:G:H5'	2.20	0.41
25:CA:1588:G:C6	25:CA:1589:U:C5	3.09	0.41
25:CA:1631:G:N2	25:CA:1633:G:H3'	2.34	0.41
25:CA:1748:C:C4	25:CA:1749:A:N7	2.88	0.41
25:CA:1754:A:C6	25:CA:1755:A:C6	3.08	0.41
25:CA:1909:C:O2	25:CA:1909:C:H2'	2.21	0.41
25:CA:2173:A:C3'	25:CA:2174:C:H6	2.33	0.41
25:CA:2317:A:C2'	25:CA:2318:G:H5'	2.51	0.41
25:CA:2332:C:H5"	25:CA:2333:A:P	2.60	0.41
25:CA:2469:A:H4'	37:CM:55:ARG:NH2	2.34	0.41
25:CA:2663:G:H2'	25:CA:2664:G:O5'	2.21	0.41
25:CA:2882:A:H2'	25:CA:2883:A:O5'	2.19	0.41
26:CB:85:G:C2'	26:CB:86:G:O5'	2.68	0.41
28:CD:4:LEU:CD2	28:CD:100:LEU:HD23	2.47	0.41
28:CD:11:MET:HE2	28:CD:11:MET:HB3	1.93	0.41
29:CE:75:SER:O	29:CE:81:GLY:HA3	2.21	0.41
33:CI:58:ILE:HG22	33:CI:60:VAL:HG23	2.02	0.41
34:CJ:46:PRO:HD3	41:CQ:59:LEU:HD13	2.03	0.41
35:CK:75:SER:C	35:CK:76:VAL:HG23	2.44	0.41
37:CM:12:MET:HE3	37:CM:71:LYS:HA	2.01	0.41
37:CM:27:SER:C	37:CM:28:PHE:CD2	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CM:123:LYS:HD3	37:CM:123:LYS:N	2.34	0.41
37:CM:124:LEU:HD23	37:CM:124:LEU:HA	1.84	0.41
38:CN:115:LEU:HD23	38:CN:115:LEU:HA	1.81	0.41
44:CT:28:ASN:OD1	44:CT:91:GLN:HB3	2.19	0.41
45:CU:71:ILE:CD1	45:CU:82:VAL:HG23	2.49	0.41
46:CV:1:MET:HG3	46:CV:2:PHE:N	2.35	0.41
49:CY:22:LEU:HD12	49:CY:23:ARG:N	2.35	0.41
52:C1:34:GLU:HA	52:C1:48:TYR:O	2.20	0.41
53:C2:21:ARG:O	53:C2:27:GLY:HA3	2.20	0.41
25:DA:42:A:C2	25:DA:438:G:C2	3.09	0.41
25:DA:96:C:H4'	49:DY:41:HIS:ND1	2.35	0.41
25:DA:239:C:N4	25:DA:240:C:N3	2.68	0.41
25:DA:297:G:H8	25:DA:297:G:O5'	2.03	0.41
25:DA:1025:G:C4	25:DA:1135:C:O4'	2.73	0.41
25:DA:1027:A:N1	25:DA:1126:A:C1'	2.84	0.41
25:DA:1057:A:N1	25:DA:1058:U:C4	2.88	0.41
25:DA:1171:G:H1	25:DA:1177:G:H1	1.67	0.41
25:DA:1173:U:C6	25:DA:1173:U:OP2	2.74	0.41
25:DA:1272:A:C5	25:DA:1618:A:H1'	2.54	0.41
25:DA:1441:G:H2'	25:DA:1442:U:C6	2.55	0.41
25:DA:1508:A:C2'	25:DA:1509:A:O5'	2.68	0.41
25:DA:1590:A:C2'	25:DA:1591:A:H8	2.30	0.41
25:DA:1598:A:C6	25:DA:1599:U:C2	3.08	0.41
25:DA:1744:A:H3'	25:DA:1745:A:C8	2.53	0.41
25:DA:1805:A:C2	25:DA:1813:G:C2	3.09	0.41
25:DA:2116:G:C5'	25:DA:2117:A:OP2	2.68	0.41
25:DA:2701:U:H5"	25:DA:2702:G:C5'	2.47	0.41
25:DA:2856:A:C2'	25:DA:2857:G:H5'	2.50	0.41
30:DF:53:ALA:O	30:DF:55:ASP:N	2.54	0.41
30:DF:64:PRO:HB3	30:DF:88:VAL:HG23	2.01	0.41
31:DG:75:VAL:O	31:DG:77:GLY:N	2.54	0.41
32:DH:15:LEU:CD2	32:DH:15:LEU:N	2.84	0.41
33:DI:44:LYS:O	33:DI:48:ILE:CG1	2.69	0.41
33:DI:44:LYS:O	33:DI:48:ILE:HG13	2.19	0.41
33:DI:56:VAL:HG23	33:DI:70:THR:CA	2.49	0.41
33:DI:135:MET:HG3	33:DI:137:LEU:CD1	2.51	0.41
35:DK:73:ASP:OD1	35:DK:75:SER:HB2	2.20	0.41
38:DN:37:THR:OG1	38:DN:39:PRO:HD2	2.20	0.41
38:DN:72:ASP:CG	38:DN:75:ILE:HG12	2.46	0.41
39:DO:21:LEU:HD23	39:DO:21:LEU:HA	1.85	0.41
42:DR:10:LYS:O	42:DR:12:HIS:CE1	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DT:2:ILE:CG2	44:DT:4:GLU:HG2	2.50	0.41
45:DU:38:ILE:N	45:DU:40:LEU:HD21	2.34	0.41
45:DU:88:ASP:HB3	45:DU:90:LYS:HG2	2.01	0.41
52:D1:16:THR:HG21	52:D1:39:ASP:CG	2.45	0.41
52:D1:34:GLU:O	52:D1:35:LEU:HG	2.20	0.41
1:AA:87:C:H2'	1:AA:88:U:C4'	2.50	0.41
1:AA:199:A:C2	1:AA:200:G:C8	3.09	0.41
1:AA:273:U:O4	1:AA:274:A:N6	2.53	0.41
1:AA:380:G:C2	1:AA:384:G:C6	3.07	0.41
1:AA:382:A:N1	1:AA:383:A:C6	2.88	0.41
1:AA:456:A:C2	1:AA:477:C:O2	2.73	0.41
1:AA:481:G:C8	1:AA:481:G:C5'	2.97	0.41
1:AA:696:A:H2'	1:AA:697:U:C6	2.55	0.41
1:AA:730:G:N2	1:AA:765:G:H5"	2.35	0.41
1:AA:956:U:C2	1:AA:1225:A:C2	3.08	0.41
1:AA:962:C:H2'	1:AA:963:G:O4'	2.21	0.41
1:AA:1072:G:C5	1:AA:1073:U:C4	3.08	0.41
1:AA:1137:C:H1'	1:AA:1138:G:N2	2.35	0.41
1:AA:1253:G:O2'	1:AA:1356:G:H4'	2.20	0.41
1:AA:1294:G:C4	1:AA:1295:U:C5	3.08	0.41
1:AA:1309:G:C2	1:AA:1329:A:C4	3.09	0.41
1:AA:1394:A:N1	1:AA:1500:A:O2'	2.50	0.41
1:AA:1480:A:C6	1:AA:1481:U:C4	3.08	0.41
3:AC:41:TYR:CZ	3:AC:45:GLU:HG3	2.55	0.41
3:AC:199:VAL:O	3:AC:199:VAL:CG2	2.65	0.41
5:AE:122:VAL:HG23	5:AE:122:VAL:O	2.20	0.41
7:AG:25:PHE:C	7:AG:27:ASN:N	2.78	0.41
7:AG:68:VAL:HA	7:AG:137:ARG:NE	2.35	0.41
8:AH:20:ASN:HA	8:AH:64:TYR:OH	2.20	0.41
9:AI:29:ILE:CG2	9:AI:34:LEU:HD12	2.49	0.41
9:AI:30:ASN:HB2	9:AI:37:TYR:CE1	2.56	0.41
9:AI:43:ALA:O	9:AI:46:VAL:HG22	2.19	0.41
9:AI:48:ARG:NH2	9:AI:52:GLU:HA	2.35	0.41
11:AK:52:ARG:H	11:AK:55:ARG:HG3	1.86	0.41
13:AM:12:LYS:O	13:AM:13:HIS:C	2.64	0.41
13:AM:52:ILE:CG2	13:AM:56:ARG:NH2	2.84	0.41
14:AN:51:LEU:O	14:AN:52:PRO:C	2.63	0.41
14:AN:64:CYS:HB2	14:AN:80:SER:H	1.85	0.41
15:AO:69:LEU:HD23	15:AO:69:LEU:C	2.45	0.41
21:AU:33:ARG:NE	21:AU:34:ARG:HB2	2.34	0.41
21:AU:37:TYR:CD2	21:AU:37:TYR:C	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:43:GLU:HB3	21:AU:44:ARG:NH1	2.35	0.41
22:AV:10:G:H2'	22:AV:11:C:C6	2.55	0.41
22:AV:71:G:H4'	25:CA:1892:C:O2	2.20	0.41
1:BA:35:G:H2'	1:BA:36:C:H6	1.85	0.41
1:BA:49:U:C5	1:BA:364:A:C6	3.08	0.41
1:BA:108:G:N2	1:BA:109:A:C2	2.88	0.41
1:BA:430:A:OP1	4:BD:8:LEU:HB2	2.20	0.41
1:BA:580:C:H2'	1:BA:581:G:O4'	2.20	0.41
1:BA:613:C:C2'	1:BA:614:C:H5'	2.50	0.41
1:BA:645:G:C2	1:BA:646:G:C8	3.08	0.41
1:BA:712:A:H2'	1:BA:713:G:O5'	2.19	0.41
1:BA:908:A:C2	1:BA:909:A:C4	3.08	0.41
1:BA:936:C:C5	1:BA:937:A:N7	2.87	0.41
1:BA:1088:G:C2	1:BA:1089:G:C5	3.08	0.41
1:BA:1138:G:C4	1:BA:1140:C:C6	3.08	0.41
1:BA:1324:A:N6	1:BA:1325:C:N4	2.69	0.41
2:BB:26:MET:HE2	2:BB:29:PHE:HD2	1.84	0.41
2:BB:53:LEU:CA	2:BB:56:LEU:HB3	2.48	0.41
2:BB:139:GLU:O	2:BB:143:LEU:HD23	2.19	0.41
2:BB:171:ALA:O	2:BB:172:ILE:C	2.63	0.41
4:BD:41:GLY:C	4:BD:43:ARG:H	2.28	0.41
6:BF:81:ASN:HD21	6:BF:83:ALA:HB3	1.85	0.41
7:BG:135:LYS:O	7:BG:139:ASP:HB2	2.20	0.41
7:BG:137:ARG:O	7:BG:137:ARG:HG2	2.21	0.41
9:BI:7:GLY:HA3	9:BI:84:ARG:HB3	2.01	0.41
11:BK:81:LEU:HD13	11:BK:104:PHE:CZ	2.55	0.41
12:BL:21:PRO:O	12:BL:23:LEU:N	2.54	0.41
12:BL:73:LEU:N	12:BL:73:LEU:HD22	2.36	0.41
13:BM:101:THR:C	13:BM:103:THR:N	2.73	0.41
14:BN:5:MET:HE3	14:BN:63:ARG:NH2	2.34	0.41
15:BO:24:THR:HG23	15:BO:65:LEU:HD12	2.02	0.41
17:BQ:20:ILE:HD12	17:BQ:20:ILE:HA	1.82	0.41
18:BR:33:THR:HG23	18:BR:36:GLY:N	2.36	0.41
21:BU:39:LYS:HB3	21:BU:40:PRO:HD3	2.03	0.41
25:CA:84:A:H4'	25:CA:85:G:O5'	2.20	0.41
25:CA:108:G:O2'	25:CA:109:C:H5'	2.20	0.41
25:CA:443:A:C2	25:CA:1245:G:N3	2.88	0.41
25:CA:545:U:O2	25:CA:545:U:OP2	2.38	0.41
25:CA:570:G:OP1	25:CA:972:A:O2'	2.27	0.41
25:CA:612:G:H2'	25:CA:614:A:C8	2.55	0.41
25:CA:837:C:O5'	25:CA:837:C:H6	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:901:C:O2	25:CA:901:C:H2'	2.20	0.41
25:CA:1104:C:N3	25:CA:1105:U:C5	2.88	0.41
25:CA:1287:A:OP2	38:CN:103:ARG:HG3	2.20	0.41
25:CA:1427:A:C2	25:CA:1570:A:OP2	2.74	0.41
25:CA:1467:U:C5	25:CA:1546:G:N3	2.89	0.41
25:CA:1494:A:N6	25:CA:1495:A:N1	2.68	0.41
25:CA:1792:G:OP1	27:CC:204:LEU:HB2	2.20	0.41
25:CA:1824:G:O2'	27:CC:245:THR:HG22	2.20	0.41
25:CA:1983:G:O2'	25:CA:1984:G:H5'	2.21	0.41
25:CA:2133:G:H1'	25:CA:2158:A:H61	1.85	0.41
25:CA:2135:A:N6	25:CA:2156:G:O2'	2.54	0.41
25:CA:2141:G:N2	25:CA:2142:A:H1'	2.35	0.41
25:CA:2193:G:C5	25:CA:2194:U:C5	3.08	0.41
25:CA:2329:U:H2'	25:CA:2330:G:O4'	2.20	0.41
25:CA:2485:G:H5"	37:CM:45:GLN:NE2	2.35	0.41
25:CA:2634:A:H8	25:CA:2634:A:H5"	1.85	0.41
25:CA:2654:A:O4'	25:CA:2656:U:H1'	2.20	0.41
25:CA:2678:C:H2'	25:CA:2679:A:O4'	2.21	0.41
25:CA:2716:C:H5"	25:CA:2716:C:H6	1.85	0.41
28:CD:46:ARG:HB3	28:CD:84:LEU:HB2	2.01	0.41
28:CD:133:THR:HG23	28:CD:134:HIS:N	2.36	0.41
29:CE:109:LEU:C	29:CE:111:GLU:N	2.75	0.41
30:CF:105:ILE:O	30:CF:108:PRO:HD2	2.20	0.41
31:CG:86:LEU:H	31:CG:86:LEU:HD12	1.86	0.41
31:CG:156:TYR:CE2	31:CG:171:LYS:HG3	2.55	0.41
33:CI:85:ILE:HD12	33:CI:85:ILE:N	2.35	0.41
35:CK:58:LEU:HD22	35:CK:58:LEU:H	1.84	0.41
35:CK:77:ILE:CG2	35:CK:78:ARG:N	2.83	0.41
38:CN:103:ARG:HB3	38:CN:106:ASP:OD1	2.20	0.41
39:CO:67:ASN:HA	39:CO:102:ARG:HD3	2.02	0.41
40:CP:33:GLU:HB2	40:CP:36:LYS:HB2	2.01	0.41
40:CP:80:VAL:CG1	40:CP:83:ILE:HD11	2.47	0.41
45:CU:48:VAL:O	45:CU:48:VAL:HG13	2.20	0.41
51:C0:33:SER:OG	51:C0:35:GLU:CG	2.68	0.41
53:C2:30:VAL:C	53:C2:32:ALA:N	2.75	0.41
55:C4:14:CYS:HA	55:C4:26:ILE:O	2.20	0.41
25:DA:88:G:C2'	25:DA:89:A:C5'	2.98	0.41
25:DA:88:G:HO2'	25:DA:89:A:H5'	1.85	0.41
25:DA:158:U:O2	25:DA:169:G:C2	2.73	0.41
25:DA:191:A:H1'	25:DA:679:C:H1'	2.02	0.41
25:DA:224:U:C2'	25:DA:225:C:O5'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:501:A:C6	25:DA:502:A:C6	3.08	0.41
25:DA:616:A:C2'	25:DA:617:G:H5'	2.49	0.41
25:DA:634:C:OP1	36:DL:70:LYS:HE2	2.20	0.41
25:DA:736:C:H2'	25:DA:737:C:C6	2.55	0.41
25:DA:760:G:H4'	25:DA:1776:G:OP1	2.20	0.41
25:DA:1315:C:C2	25:DA:1316:U:C6	3.08	0.41
25:DA:1347:A:C2'	25:DA:1348:C:O5'	2.68	0.41
25:DA:1446:C:C2'	25:DA:1447:C:H5'	2.50	0.41
25:DA:1581:G:H2'	25:DA:1582:C:C6	2.55	0.41
25:DA:1652:A:OP1	38:DN:8:ARG:HD3	2.19	0.41
25:DA:1660:G:H5"	25:DA:1660:G:H8	1.86	0.41
25:DA:1790:C:C6	25:DA:1828:G:N2	2.89	0.41
25:DA:1895:C:O5'	25:DA:1895:C:H6	2.03	0.41
25:DA:1963:U:C6	25:DA:1963:U:C3'	3.03	0.41
25:DA:2111:U:H4'	25:DA:2112:G:OP1	2.19	0.41
25:DA:2395:C:H2'	25:DA:2396:G:O4'	2.20	0.41
25:DA:2784:U:C2'	25:DA:2785:C:H5'	2.51	0.41
56:DB:33:G:H2'	56:DB:34:A:O5'	2.15	0.41
27:DC:83:ASP:C	27:DC:85:ASN:N	2.77	0.41
28:DD:51:THR:OG1	28:DD:52:THR:N	2.52	0.41
31:DG:83:THR:HG23	31:DG:132:LEU:O	2.21	0.41
32:DH:12:LEU:HG	32:DH:13:GLY:N	2.35	0.41
32:DH:27:ARG:HA	32:DH:27:ARG:HD3	1.92	0.41
33:DI:79:LEU:HD13	33:DI:135:MET:CE	2.51	0.41
38:DN:24:MET:HE3	38:DN:44:LEU:HD22	2.02	0.41
38:DN:52:ILE:CG2	38:DN:94:TYR:CD2	3.04	0.41
39:DO:32:PRO:HA	39:DO:102:ARG:NH1	2.34	0.41
40:DP:90:ALA:HB2	40:DP:112:ARG:HG3	2.02	0.41
41:DQ:105:PHE:C	41:DQ:105:PHE:CD1	2.98	0.41
41:DQ:116:LEU:O	41:DQ:117:ALA:C	2.62	0.41
52:D1:12:SER:HB2	52:D1:48:TYR:CZ	2.54	0.41
1:AA:131:A:C2	1:AA:132:C:C4	3.08	0.41
1:AA:164:G:H2'	1:AA:165:G:C5'	2.49	0.41
1:AA:410:G:C5'	1:AA:411:A:P	3.08	0.41
1:AA:503:C:OP2	12:AL:112:ALA:HB2	2.20	0.41
1:AA:542:G:H2'	1:AA:543:U:C6	2.53	0.41
1:AA:704:A:C2	1:AA:705:G:H1'	2.56	0.41
1:AA:958:A:C5	19:AS:54:ARG:HG2	2.55	0.41
1:AA:1068:G:O2'	1:AA:1069:C:H5'	2.21	0.41
1:AA:1160:G:C6	1:AA:1181:G:O6	2.74	0.41
1:AA:1186:G:C2'	1:AA:1187:G:O5'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1300:G:C4	1:AA:1334:G:O6	2.73	0.41
1:AA:1317:C:C2'	1:AA:1318:A:O5'	2.68	0.41
1:AA:1325:C:C2'	1:AA:1326:U:H5'	2.50	0.41
1:AA:1451:U:H3'	1:AA:1452:C:H6	1.86	0.41
1:AA:1495:U:O2	1:AA:1495:U:H2'	2.20	0.41
3:AC:52:SER:O	3:AC:52:SER:OG	2.32	0.41
4:AD:83:GLY:O	4:AD:84:ASN:C	2.64	0.41
4:AD:201:GLU:O	4:AD:202:LEU:C	2.62	0.41
7:AG:94:ARG:O	7:AG:97:ALA:N	2.54	0.41
8:AH:88:LYS:HA	8:AH:91:LEU:HG	2.01	0.41
17:AQ:62:GLU:HB2	17:AQ:72:TRP:CZ3	2.55	0.41
17:AQ:78:VAL:O	17:AQ:79:GLU:HB2	2.21	0.41
24:AY:114:LEU:O	24:AY:117:ILE:HB	2.20	0.41
24:AY:114:LEU:HD12	24:AY:114:LEU:N	2.36	0.41
1:BA:144:G:C2'	1:BA:145:G:O5'	2.69	0.41
1:BA:560:A:H4'	1:BA:561:U:C5'	2.49	0.41
1:BA:892:A:O2'	1:BA:1415:G:H4'	2.21	0.41
1:BA:893:C:H2'	1:BA:894:G:C8	2.55	0.41
1:BA:963:G:O2'	1:BA:964:A:H5'	2.21	0.41
1:BA:980:C:H4'	14:BN:59:ARG:NH1	2.35	0.41
1:BA:988:G:H1'	1:BA:1015:G:H22	1.86	0.41
1:BA:1053:G:N7	1:BA:1199:U:C3'	2.74	0.41
1:BA:1109:C:O2	1:BA:1109:C:H2'	2.20	0.41
1:BA:1135:U:O2	1:BA:1135:U:H2'	2.20	0.41
1:BA:1197:A:OP2	1:BA:1197:A:H3'	2.20	0.41
1:BA:1273:C:C2	1:BA:1274:A:C8	3.08	0.41
1:BA:1302:C:N4	13:BM:16:ILE:HD11	2.35	0.41
1:BA:1317:C:C4	14:BN:53:ARG:HD3	2.55	0.41
1:BA:1317:C:OP1	14:BN:57:PRO:HD2	2.20	0.41
1:BA:1337:G:C5'	1:BA:1338:G:OP1	2.68	0.41
2:BB:59:ILE:HD12	2:BB:59:ILE:C	2.45	0.41
2:BB:114:LYS:C	2:BB:116:LEU:N	2.79	0.41
2:BB:139:GLU:C	2:BB:143:LEU:HD21	2.44	0.41
2:BB:219:THR:N	2:BB:221:ARG:HD3	2.32	0.41
3:BC:84:GLU:CG	3:BC:85:LYS:N	2.83	0.41
3:BC:119:ILE:HA	3:BC:122:GLN:HE21	1.86	0.41
4:BD:152:SER:O	4:BD:154:VAL:N	2.54	0.41
7:BG:39:GLU:O	7:BG:43:TYR:CD2	2.73	0.41
7:BG:77:ARG:HG3	7:BG:86:VAL:HG21	2.02	0.41
8:BH:115:ALA:HA	8:BH:118:ALA:CB	2.48	0.41
9:BI:45:MET:O	9:BI:48:ARG:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:35:GLN:O	10:BJ:36:VAL:CB	2.68	0.41
12:BL:3:VAL:HG13	12:BL:4:ASN:H	1.86	0.41
12:BL:39:THR:HG22	12:BL:40:THR:O	2.21	0.41
14:BN:93:ILE:HG21	14:BN:96:LEU:CB	2.50	0.41
15:BO:44:GLU:CG	15:BO:45:HIS:N	2.83	0.41
15:BO:55:LEU:C	15:BO:57:ARG:N	2.76	0.41
16:BP:6:LEU:HB3	16:BP:17:TYR:HB3	2.00	0.41
16:BP:38:PHE:CE2	16:BP:51:ARG:HB3	2.56	0.41
20:BT:59:ARG:O	20:BT:59:ARG:HG2	2.20	0.41
22:BV:66:U:H2'	22:BV:67:C:O4'	2.20	0.41
25:CA:242:G:P	54:C3:2:LYS:HE2	2.60	0.41
25:CA:340:A:H2'	25:CA:341:C:O4'	2.20	0.41
25:CA:760:G:H2'	25:CA:761:A:O4'	2.20	0.41
25:CA:782:A:C2	27:CC:224:MET:SD	3.13	0.41
25:CA:1350:C:C2	25:CA:1382:G:C2	3.09	0.41
25:CA:1533:C:O2	25:CA:1533:C:C2'	2.69	0.41
25:CA:1628:G:H2'	25:CA:1629:U:O5'	2.20	0.41
25:CA:1864:U:OP1	25:CA:2411:A:H5'	2.20	0.41
25:CA:1936:A:C2	25:CA:1943:U:N3	2.81	0.41
25:CA:2281:A:C2'	25:CA:2282:G:H5'	2.50	0.41
25:CA:2345:G:H5'	25:CA:2347:C:O4'	2.19	0.41
25:CA:2560:A:H2'	25:CA:2561:U:O4'	2.21	0.41
30:CF:147:ARG:CG	30:CF:148:VAL:H	2.33	0.41
30:CF:157:THR:CG2	30:CF:159:ALA:H	2.29	0.41
30:CF:157:THR:HG22	30:CF:159:ALA:HB3	2.01	0.41
33:CI:96:LYS:CG	33:CI:138:VAL:HG22	2.40	0.41
40:CP:6:GLN:HG2	40:CP:6:GLN:O	2.20	0.41
40:CP:86:LYS:O	40:CP:87:ARG:HB2	2.20	0.41
41:CQ:107:ALA:CB	42:CR:48:LYS:HZ2	2.33	0.41
46:CV:40:ILE:CG2	46:CV:42:LEU:CD2	2.98	0.41
46:CV:93:ARG:O	46:CV:94:ALA:CB	2.69	0.41
51:C0:29:VAL:CG1	51:C0:34:GLY:HA2	2.51	0.41
52:C1:41:VAL:C	52:C1:43:ARG:N	2.79	0.41
53:C2:18:PHE:O	53:C2:19:ARG:C	2.63	0.41
25:DA:60:G:C8	25:DA:62:U:C5	3.08	0.41
25:DA:125:A:OP2	53:D2:19:ARG:NH2	2.44	0.41
25:DA:393:C:H2'	25:DA:394:C:H6	1.85	0.41
25:DA:416:U:H2'	25:DA:417:C:C6	2.55	0.41
25:DA:636:G:P	36:DL:128:THR:HG22	2.61	0.41
25:DA:664:G:C4	25:DA:665:U:C6	3.08	0.41
25:DA:671:C:H2'	25:DA:672:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:864:G:N2	25:DA:913:U:N3	2.69	0.41
25:DA:1314:C:OP1	25:DA:1332:G:H5"	2.20	0.41
25:DA:1440:U:C4	25:DA:1552:A:C2	3.08	0.41
25:DA:1515:A:H3'	25:DA:1516:G:H8	1.85	0.41
25:DA:1829:A:O2'	27:DC:14:HIS:CD2	2.74	0.41
25:DA:2271:G:OP1	57:DW:14:ALA:HB1	2.21	0.41
25:DA:2634:A:H2'	25:DA:2635:A:O4'	2.21	0.41
25:DA:2661:G:N1	25:DA:2662:A:C4	2.88	0.41
25:DA:2759:G:C6	25:DA:2760:C:C5	3.09	0.41
25:DA:2870:C:N4	25:DA:2871:U:C4	2.89	0.41
56:DB:29:A:OP2	39:DO:32:PRO:HD2	2.20	0.41
28:DD:46:ARG:NH2	28:DD:89:GLU:OE2	2.54	0.41
28:DD:136:ASN:ND2	28:DD:136:ASN:C	2.77	0.41
29:DE:12:LEU:HD23	29:DE:12:LEU:C	2.45	0.41
31:DG:52:GLY:HA2	31:DG:53:PRO:HD2	1.85	0.41
32:DH:7:ASP:HB3	32:DH:35:LYS:NZ	2.35	0.41
32:DH:9:VAL:HG11	32:DH:12:LEU:HG	2.01	0.41
32:DH:30:LEU:HB3	32:DH:36:ALA:HB2	2.03	0.41
32:DH:66:ASN:O	32:DH:69:ALA:CB	2.64	0.41
32:DH:90:LEU:C	32:DH:92:GLY:H	2.26	0.41
38:DN:31:HIS:C	38:DN:33:ILE:H	2.28	0.41
39:DO:75:GLY:CA	39:DO:106:LEU:CD2	2.97	0.41
42:DR:14:VAL:HA	42:DR:18:GLN:HE22	1.85	0.41
44:DT:34:VAL:HG11	44:DT:83:ALA:CB	2.51	0.41
46:DV:23:ALA:O	46:DV:24:ASN:HB3	2.21	0.41
49:DY:37:LEU:O	49:DY:37:LEU:HD23	2.20	0.41
1:AA:79:G:N2	1:AA:91:U:O4	2.54	0.41
1:AA:201:G:H2'	1:AA:202:G:O4'	2.21	0.41
1:AA:346:G:O5'	40:CP:33:GLU:HG2	2.20	0.41
1:AA:597:G:N7	1:AA:598:U:C5	2.88	0.41
1:AA:728:A:C6	1:AA:729:A:C6	3.09	0.41
1:AA:789:U:O2'	1:AA:791:G:N7	2.40	0.41
1:AA:794:A:C5	1:AA:795:C:C4	3.08	0.41
1:AA:826:C:O2	1:AA:826:C:H2'	2.20	0.41
1:AA:1066:C:H5"	1:AA:1067:A:OP2	2.19	0.41
1:AA:1277:C:C1'	1:AA:1282:C:H1'	2.51	0.41
1:AA:1306:A:C4	1:AA:1307:U:C6	3.08	0.41
1:AA:1346:A:C5'	9:AI:121:ARG:HH12	2.33	0.41
2:AB:56:LEU:HD13	2:AB:57:ASN:H	1.85	0.41
2:AB:96:LEU:N	2:AB:99:MET:CE	2.84	0.41
2:AB:110:ILE:HG12	2:AB:150:ILE:HG12	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:115:ASP:O	2:AB:116:LEU:CB	2.69	0.41
2:AB:140:LEU:O	2:AB:144:GLU:HB2	2.20	0.41
3:AC:23:ALA:CB	3:AC:28:PHE:HA	2.51	0.41
3:AC:51:VAL:CG2	3:AC:67:ILE:HG22	2.51	0.41
4:AD:131:ILE:CD1	4:AD:134:TYR:HB2	2.51	0.41
5:AE:72:ASN:HD22	5:AE:72:ASN:N	2.13	0.41
6:AF:24:ARG:HH11	6:AF:24:ARG:CG	2.32	0.41
9:AI:28:VAL:CG1	9:AI:31:GLN:HA	2.51	0.41
9:AI:50:PRO:HB3	9:AI:83:THR:CG2	2.50	0.41
9:AI:56:MET:HA	9:AI:59:LYS:HB3	2.01	0.41
10:AJ:80:THR:HB	10:AJ:83:THR:H	1.85	0.41
13:AM:10:ASP:O	13:AM:11:HIS:CB	2.68	0.41
15:AO:23:SER:O	15:AO:27:GLN:HG3	2.19	0.41
16:AP:75:ILE:HA	16:AP:78:VAL:HG12	2.03	0.41
18:AR:59:LYS:O	18:AR:60:ARG:C	2.63	0.41
21:AU:18:PHE:C	21:AU:18:PHE:HD2	2.28	0.41
24:AY:56:ALA:HB2	24:AY:70:VAL:HA	2.02	0.41
24:AY:61:GLU:O	24:AY:62:ASP:HB3	2.20	0.41
1:BA:59:A:C4	1:BA:331:G:C2	3.08	0.41
1:BA:64:G:N7	1:BA:99:C:C4	2.88	0.41
1:BA:71:A:H8	1:BA:71:A:C5'	2.29	0.41
1:BA:96:U:C2'	1:BA:97:G:O5'	2.69	0.41
1:BA:152:A:N6	1:BA:170:U:N3	2.69	0.41
1:BA:173:U:C2	1:BA:197:A:C6	3.08	0.41
1:BA:279:A:C5'	1:BA:281:G:O4'	2.64	0.41
1:BA:612:C:H2'	1:BA:613:C:C6	2.51	0.41
1:BA:621:A:H2'	1:BA:622:A:O4'	2.21	0.41
1:BA:763:G:H2'	1:BA:764:C:O5'	2.20	0.41
1:BA:873:A:H4'	1:BA:874:G:OP2	2.19	0.41
1:BA:933:G:C2	1:BA:935:A:C8	3.08	0.41
1:BA:978:A:P	1:BA:1362:A:H61	2.41	0.41
1:BA:1160:G:O2'	1:BA:1161:C:C6	2.61	0.41
1:BA:1316:G:C6	1:BA:1318:A:OP2	2.73	0.41
2:BB:57:ASN:OD1	2:BB:60:ALA:HB3	2.20	0.41
2:BB:86:CYS:N	2:BB:88:GLN:NE2	2.68	0.41
4:BD:33:ILE:O	4:BD:33:ILE:HG23	2.21	0.41
4:BD:176:LYS:O	4:BD:177:MET:CB	2.68	0.41
5:BE:49:TYR:O	5:BE:50:GLY:O	2.38	0.41
5:BE:116:VAL:HG23	5:BE:117:ALA:N	2.35	0.41
7:BG:11:ILE:HD13	7:BG:27:ASN:ND2	2.34	0.41
8:BH:48:PHE:O	8:BH:49:LYS:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:35:GLN:O	10:BJ:36:VAL:HG23	2.21	0.41
13:BM:18:LEU:C	13:BM:20:SER:H	2.29	0.41
13:BM:69:ARG:O	13:BM:73:SER:N	2.51	0.41
15:BO:38:LEU:HG	15:BO:42:PHE:CE1	2.55	0.41
19:BS:51:HIS:HA	19:BS:55:GLN:O	2.21	0.41
20:BT:43:LYS:HB3	20:BT:86:ALA:HB1	2.01	0.41
22:BV:37:A:H2'	22:BV:38:A:H5'	2.02	0.41
22:BV:52:G:C2	22:BV:63:G:C6	3.09	0.41
25:CA:13:A:N3	25:CA:15:G:C6	2.88	0.41
25:CA:124:G:H3'	53:C2:19:ARG:NH2	2.35	0.41
25:CA:279:A:H2'	25:CA:279:A:N3	2.36	0.41
25:CA:303:G:H2'	25:CA:304:U:H6	1.85	0.41
25:CA:487:C:H6	25:CA:487:C:O5'	2.03	0.41
25:CA:548:G:O2'	25:CA:549:G:N1	2.53	0.41
25:CA:772:C:H2'	25:CA:773:U:O5'	2.20	0.41
25:CA:1043:C:H2'	25:CA:1044:C:C6	2.56	0.41
25:CA:1079:C:H2'	25:CA:1080:A:C8	2.54	0.41
25:CA:1467:U:C4	25:CA:1468:U:C5	3.08	0.41
25:CA:1478:G:H2'	25:CA:1479:G:H8	1.85	0.41
25:CA:1519:G:H2'	25:CA:1520:U:H6	1.85	0.41
25:CA:2006:C:O5'	25:CA:2006:C:C6	2.73	0.41
25:CA:2116:G:C5'	25:CA:2117:A:OP2	2.68	0.41
25:CA:2419:U:H5	60:CA:3675:HOH:O	2.02	0.41
25:CA:2458:G:N3	25:CA:2490:G:N2	2.69	0.41
25:CA:2839:G:C5	25:CA:2840:C:C4	3.09	0.41
27:CC:130:PRO:HB2	27:CC:133:ASN:HD22	1.85	0.41
28:CD:57:ALA:O	28:CD:59:ARG:N	2.54	0.41
28:CD:166:GLY:O	28:CD:167:ASN:C	2.63	0.41
29:CE:23:PHE:HE1	29:CE:28:VAL:HG21	1.84	0.41
29:CE:31:VAL:HG21	29:CE:104:ALA:HB2	2.01	0.41
29:CE:143:LEU:HB3	29:CE:146:VAL:CG1	2.50	0.41
30:CF:172:PHE:O	30:CF:173:ASP:HB3	2.20	0.41
31:CG:11:PRO:O	31:CG:14:VAL:HG23	2.21	0.41
31:CG:27:GLY:O	31:CG:29:ASN:N	2.53	0.41
31:CG:88:LEU:N	31:CG:88:LEU:CD1	2.80	0.41
32:CH:76:GLU:O	32:CH:76:GLU:CG	2.62	0.41
33:CI:54:ILE:HG12	33:CI:73:PRO:CB	2.50	0.41
33:CI:56:VAL:HG22	33:CI:57:VAL:N	2.36	0.41
33:CI:114:ALA:O	33:CI:115:ASP:CB	2.67	0.41
35:CK:28:SER:C	35:CK:30:ARG:N	2.79	0.41
39:CO:94:ARG:O	39:CO:97:PHE:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CS:65:ASP:C	43:CS:67:ASP:N	2.78	0.41
44:CT:18:GLU:CD	44:CT:18:GLU:H	2.27	0.41
48:CX:15:ASN:HA	48:CX:24:THR:O	2.21	0.41
25:DA:10:A:N3	25:DA:10:A:H2'	2.35	0.41
25:DA:547:A:C3'	25:DA:548:G:H5'	2.45	0.41
25:DA:574:A:N7	60:DA:3579:HOH:O	2.37	0.41
25:DA:612:G:H2'	25:DA:614:A:C8	2.56	0.41
25:DA:945:A:C2	25:DA:2448:A:C4	3.09	0.41
25:DA:1073:A:C3'	25:DA:1074:G:C5'	2.99	0.41
25:DA:1084:A:N6	25:DA:1085:A:C6	2.86	0.41
25:DA:1265:A:H61	25:DA:2013:A:H3'	1.85	0.41
25:DA:1401:G:H2'	25:DA:1402:U:H6	1.86	0.41
25:DA:1471:G:O6	25:DA:1521:G:N2	2.54	0.41
25:DA:1495:A:OP2	25:DA:1495:A:H8	2.04	0.41
25:DA:1551:A:N6	25:DA:1552:A:N1	2.69	0.41
25:DA:2131:U:C5'	25:DA:2132:U:C5'	2.98	0.41
25:DA:2199:A:C1'	32:DH:28:ASN:HD21	2.33	0.41
25:DA:2427:C:P	60:DA:3703:HOH:O	2.79	0.41
25:DA:2537:U:H2'	25:DA:2538:C:H6	1.85	0.41
25:DA:2583:G:C5	25:DA:2584:U:C4	3.08	0.41
25:DA:2663:G:H2'	25:DA:2664:G:H8	1.85	0.41
25:DA:2756:U:C5	25:DA:2759:G:O6	2.73	0.41
56:DB:99:A:C5	56:DB:100:G:C5	3.09	0.41
27:DC:64:VAL:HG22	27:DC:102:TYR:HB3	2.03	0.41
27:DC:204:LEU:HD12	27:DC:204:LEU:HA	1.72	0.41
27:DC:244:VAL:HG21	27:DC:248:GLY:HA2	2.01	0.41
28:DD:171:THR:O	28:DD:171:THR:HG22	2.19	0.41
29:DE:143:LEU:O	29:DE:144:GLU:HB2	2.21	0.41
30:DF:32:LYS:C	30:DF:33:ILE:HG13	2.44	0.41
31:DG:17:LYS:HB2	31:DG:24:THR:HB	2.01	0.41
31:DG:150:TYR:O	31:DG:151:ARG:HB2	2.21	0.41
32:DH:124:THR:O	32:DH:146:VAL:HG11	2.20	0.41
32:DH:134:VAL:CG1	32:DH:138:VAL:HB	2.51	0.41
33:DI:101:SER:CB	33:DI:140:GLU:O	2.68	0.41
34:DJ:96:ARG:HH21	34:DJ:96:ARG:CG	2.33	0.41
35:DK:20:MET:O	35:DK:21:CYS:C	2.62	0.41
37:DM:57:VAL:HG23	37:DM:60:GLN:O	2.20	0.41
49:DY:9:LYS:N	49:DY:12:GLU:HG2	2.35	0.41
51:D0:13:GLY:O	51:D0:14:MET:C	2.64	0.41
51:D0:26:SER:O	51:D0:27:LEU:C	2.63	0.41
52:D1:45:HIS:C	52:D1:46:VAL:HG23	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:D2:8:SER:O	53:D2:9:VAL:C	2.64	0.41
1:AA:52:C:H2'	1:AA:53:A:C8	2.55	0.41
1:AA:104:G:C2	1:AA:105:G:C5	3.09	0.41
1:AA:435:A:N6	1:AA:436:C:C4	2.88	0.41
1:AA:439:U:H4'	4:AD:120:LYS:HE3	2.03	0.41
1:AA:585:G:C5	1:AA:586:C:C5	3.09	0.41
1:AA:693:G:C6	1:AA:694:A:C6	3.09	0.41
1:AA:806:C:O2	1:AA:806:C:H2'	2.20	0.41
1:AA:977:A:C2'	1:AA:978:A:H5"	2.51	0.41
1:AA:990:C:O2'	1:AA:991:U:H5'	2.21	0.41
1:AA:1063:C:H3'	1:AA:1064:G:H2'	2.02	0.41
1:AA:1239:A:N3	1:AA:1241:G:C6	2.89	0.41
1:AA:1310:G:C2	1:AA:1328:C:O2	2.74	0.41
1:AA:1377:A:C2	7:AG:6:ILE:CD1	3.03	0.41
1:AA:1526:G:H2'	1:AA:1527:U:C6	2.55	0.41
2:AB:50:ASN:O	2:AB:51:GLU:CB	2.62	0.41
3:AC:6:PRO:O	3:AC:9:ILE:HG22	2.21	0.41
3:AC:13:ILE:O	3:AC:15:LYS:N	2.54	0.41
3:AC:39:ARG:O	3:AC:41:TYR:N	2.53	0.41
3:AC:140:ALA:O	3:AC:145:ALA:CB	2.68	0.41
3:AC:142:ARG:HG3	3:AC:142:ARG:NH1	2.36	0.41
4:AD:104:MET:HE2	4:AD:170:LEU:CD2	2.51	0.41
13:AM:51:GLN:O	13:AM:54:THR:HG23	2.21	0.41
14:AN:26:LEU:O	14:AN:27:LYS:CB	2.65	0.41
20:AT:82:ILE:C	20:AT:84:LYS:N	2.78	0.41
22:AV:2:C:H2'	22:AV:3:C:C6	2.55	0.41
1:BA:126:G:N2	1:BA:127:G:H1'	2.35	0.41
1:BA:209:U:OP2	1:BA:210:C:C5	2.74	0.41
1:BA:392:C:OP1	16:BP:8:ARG:NH2	2.53	0.41
1:BA:401:C:H2'	1:BA:402:G:C8	2.56	0.41
1:BA:560:A:C4	5:BE:127:TYR:CE2	3.09	0.41
1:BA:579:A:H2'	1:BA:580:C:H5'	2.02	0.41
1:BA:827:U:C4	1:BA:870:U:O2	2.73	0.41
1:BA:841:C:H2'	1:BA:843:U:O4'	2.20	0.41
1:BA:846:G:H2'	1:BA:847:G:H5'	2.02	0.41
1:BA:891:U:P	60:BA:1825:HOH:O	2.78	0.41
1:BA:1014:A:N7	1:BA:1015:G:C6	2.89	0.41
1:BA:1053:G:N2	1:BA:1056:U:C4	2.89	0.41
1:BA:1256:A:C4	1:BA:1278:G:C5	3.08	0.41
1:BA:1323:G:C4'	1:BA:1362:A:H2	2.33	0.41
1:BA:1537:U:H5"	1:BA:1538:C:OP2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:216:VAL:O	2:BB:219:THR:HG22	2.21	0.41
3:BC:110:LEU:N	3:BC:110:LEU:HD23	2.36	0.41
5:BE:80:LEU:CD1	5:BE:119:VAL:HG11	2.51	0.41
5:BE:110:MET:HA	5:BE:113:VAL:HG13	2.02	0.41
5:BE:153:ALA:CA	5:BE:156:ARG:HB3	2.50	0.41
7:BG:44:SER:OG	7:BG:116:ALA:HB1	2.20	0.41
7:BG:125:ASP:HA	7:BG:128:GLU:OE1	2.21	0.41
7:BG:142:ARG:O	7:BG:146:ALA:CB	2.69	0.41
11:BK:109:ILE:HG21	21:BU:16:ARG:NE	2.36	0.41
12:BL:24:GLU:O	12:BL:26:CYS:N	2.53	0.41
13:BM:24:VAL:HG23	13:BM:28:ARG:HB3	2.03	0.41
13:BM:39:ALA:O	13:BM:40:GLU:C	2.63	0.41
17:BQ:11:VAL:HG12	17:BQ:12:VAL:H	1.83	0.41
22:BV:56:C:O2	22:BV:56:C:C2'	2.69	0.41
23:BX:8:A:C6	23:BX:9:G:C6	3.09	0.41
25:CA:70:G:H4'	25:CA:71:A:OP1	2.21	0.41
25:CA:182:A:C6	25:CA:183:C:C4	3.08	0.41
25:CA:242:G:H5"	54:C3:63:TYR:CE2	2.56	0.41
25:CA:303:G:H2'	25:CA:304:U:C6	2.56	0.41
25:CA:358:U:H2'	25:CA:359:G:H8	1.84	0.41
25:CA:362:A:C2	25:CA:363:G:C4	3.08	0.41
25:CA:388:G:N7	25:CA:390:U:H2'	2.36	0.41
25:CA:412:A:H8	25:CA:412:A:O5'	2.04	0.41
25:CA:483:A:C8	25:CA:484:C:C5	3.08	0.41
25:CA:902:C:O5'	25:CA:902:C:H6	2.04	0.41
25:CA:1027:A:H5"	25:CA:1028:A:OP1	2.21	0.41
25:CA:1066:U:O2	25:CA:1066:U:H2'	2.19	0.41
25:CA:1408:G:H2'	25:CA:1409:U:C5'	2.51	0.41
25:CA:1606:C:H3'	25:CA:1606:C:C6	2.55	0.41
25:CA:1721:G:O6	25:CA:1738:G:O6	2.39	0.41
25:CA:1880:U:H2'	25:CA:1881:C:H6	1.86	0.41
25:CA:2120:G:H2'	25:CA:2121:G:H8	1.85	0.41
25:CA:2206:C:O2	25:CA:2206:C:C2'	2.66	0.41
25:CA:2415:G:H2'	25:CA:2416:C:C6	2.56	0.41
25:CA:2626:C:H2'	25:CA:2627:G:O4'	2.21	0.41
25:CA:2840:C:H2'	25:CA:2841:C:C6	2.55	0.41
25:CA:2855:C:O2	25:CA:2855:C:H2'	2.20	0.41
26:CB:32:U:O2'	26:CB:33:G:H5'	2.21	0.41
26:CB:56:G:OP1	30:CF:23:SER:HB2	2.21	0.41
26:CB:104:A:H2'	26:CB:105:G:O4'	2.21	0.41
27:CC:144:GLU:HB2	27:CC:187:CYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CC:166:ARG:HB2	27:CC:166:ARG:NH2	2.35	0.41
29:CE:81:GLY:O	29:CE:82:GLY:C	2.64	0.41
29:CE:146:VAL:HA	29:CE:185:LYS:O	2.20	0.41
32:CH:76:GLU:HG2	32:CH:143:ILE:CD1	2.49	0.41
32:CH:129:GLU:HA	32:CH:143:ILE:HA	2.01	0.41
33:CI:4:VAL:O	33:CI:5:GLN:HB2	2.19	0.41
34:CJ:77:HIS:CD2	34:CJ:79:GLY:N	2.85	0.41
35:CK:23:LYS:HA	35:CK:23:LYS:HD3	1.93	0.41
38:CN:79:LEU:O	38:CN:81:ASN:N	2.54	0.41
40:CP:87:ARG:NH2	40:CP:111:GLU:HB2	2.35	0.41
43:CS:48:LYS:O	43:CS:48:LYS:CG	2.68	0.41
43:CS:58:ALA:O	43:CS:62:ASP:HB2	2.20	0.41
44:CT:67:VAL:C	44:CT:68:LYS:HG2	2.46	0.41
47:CW:36:GLN:OE1	47:CW:40:LYS:N	2.54	0.41
52:C1:18:HIS:NE2	52:C1:40:PRO:HD2	2.36	0.41
25:DA:60:G:C2	25:DA:74:A:N1	2.88	0.41
25:DA:167:A:C5	25:DA:168:G:C8	3.09	0.41
25:DA:338:G:N2	25:DA:339:U:H1’	2.36	0.41
25:DA:408:G:C6	25:DA:409:G:C5	3.08	0.41
25:DA:522:A:H2’	25:DA:523:C:C6	2.56	0.41
25:DA:557:C:O5’	25:DA:557:C:H6	2.04	0.41
25:DA:593:U:O2	25:DA:593:U:H2’	2.19	0.41
25:DA:627:A:C5	25:DA:637:A:N7	2.89	0.41
25:DA:876:C:H41	25:DA:877:A:N6	2.19	0.41
25:DA:1022:G:C6	25:DA:1140:C:C5	3.09	0.41
25:DA:1045:C:H41	25:DA:1111:A:H2’	1.86	0.41
25:DA:1096:A:C8	25:DA:1096:A:C3’	3.04	0.41
25:DA:1131:G:H4’	34:DJ:84:ILE:HD13	2.02	0.41
25:DA:1356:G:C6	25:DA:1357:C:C5	3.08	0.41
25:DA:1359:A:C8	25:DA:1360:G:C8	3.09	0.41
25:DA:1378:A:C4	25:DA:1380:G:N7	2.89	0.41
25:DA:1382:G:C5’	25:DA:1383:A:OP2	2.69	0.41
25:DA:1531:C:H2’	25:DA:1532:A:O4’	2.20	0.41
25:DA:1567:G:H2’	25:DA:1567:G:O5’	2.21	0.41
25:DA:1589:U:N3	25:DA:1590:A:N7	2.68	0.41
25:DA:1685:C:H2’	25:DA:1686:C:C6	2.55	0.41
25:DA:1696:G:C6	25:DA:1697:G:C4	3.08	0.41
25:DA:1744:A:H2’	25:DA:1745:A:O4’	2.21	0.41
25:DA:1786:A:H1’	25:DA:1938:A:H61	1.82	0.41
25:DA:2011:U:OP2	43:DS:16:LYS:HE2	2.20	0.41
25:DA:2080:A:H2’	25:DA:2081:U:H6	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2165:C:O2	25:DA:2166:U:O4'	2.38	0.41
25:DA:2218:G:C2'	25:DA:2219:U:H5'	2.51	0.41
25:DA:2317:A:N6	25:DA:2318:G:C2	2.89	0.41
25:DA:2420:C:O2'	25:DA:2421:G:H5'	2.21	0.41
25:DA:2543:G:H2'	25:DA:2544:G:O4'	2.20	0.41
25:DA:2677:G:H2'	25:DA:2678:C:C6	2.55	0.41
25:DA:2694:G:H2'	25:DA:2695:U:C6	2.56	0.41
25:DA:2702:G:C6	25:DA:2703:C:C4	3.09	0.41
25:DA:2728:U:O2'	25:DA:2729:G:C5'	2.69	0.41
25:DA:2734:A:C5	25:DA:2735:G:C8	3.09	0.41
56:DB:17:C:H2'	56:DB:18:G:H5'	2.03	0.41
56:DB:51:G:H21	56:DB:53:A:H62	1.67	0.41
56:DB:71:C:H2'	56:DB:71:C:O2	2.21	0.41
27:DC:131:MET:HE2	27:DC:187:CYS:HB2	2.03	0.41
27:DC:141:HIS:O	27:DC:142:ASN:C	2.63	0.41
27:DC:203:VAL:O	27:DC:204:LEU:CB	2.68	0.41
29:DE:46:GLN:HB2	29:DE:83:VAL:HG11	2.02	0.41
29:DE:164:LEU:HD13	29:DE:164:LEU:N	2.35	0.41
30:DF:29:ARG:O	30:DF:29:ARG:HG3	2.20	0.41
32:DH:5:LEU:HA	32:DH:35:LYS:O	2.20	0.41
33:DI:99:LYS:O	33:DI:100:ILE:HD13	2.21	0.41
34:DJ:4:PHE:CG	34:DJ:5:THR:N	2.89	0.41
36:DL:91:ASP:O	36:DL:93:ASN:O	2.39	0.41
38:DN:49:GLU:HB2	38:DN:50:PRO:HD3	2.03	0.41
39:DO:7:ARG:CG	39:DO:96:GLY:HA3	2.51	0.41
39:DO:24:THR:HG22	39:DO:40:ILE:O	2.20	0.41
42:DR:4:VAL:HA	42:DR:12:HIS:O	2.20	0.41
43:DS:33:LEU:HD21	43:DS:52:GLU:CG	2.50	0.41
44:DT:31:VAL:HG13	44:DT:84:TYR:HA	2.02	0.41
44:DT:61:LEU:HD12	44:DT:62:VAL:N	2.36	0.41
48:DX:44:ARG:HH21	48:DX:46:VAL:HG22	1.86	0.41
52:D1:42:VAL:HG12	52:D1:44:GLN:HB2	2.03	0.41
52:D1:47:ILE:H	52:D1:47:ILE:HD12	1.86	0.41
53:D2:24:THR:HG23	53:D2:27:GLY:H	1.85	0.41
54:D3:54:LEU:O	54:D3:58:ILE:HG13	2.21	0.41
55:D4:10:LEU:HB2	55:D4:33:HIS:ND1	2.36	0.41
1:AA:184:G:O4'	1:AA:224:U:H4'	2.21	0.41
1:AA:293:G:C4	1:AA:294:U:C6	3.08	0.41
1:AA:581:G:H8	1:AA:581:G:O5'	2.04	0.41
1:AA:642:A:C5	1:AA:643:C:C4	3.08	0.41
1:AA:792:A:H4'	1:AA:793:U:C5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1033:G:C2	1:AA:1034:G:C8	3.09	0.41
1:AA:1113:C:C2	1:AA:1114:C:C5	3.09	0.41
1:AA:1152:A:N6	1:AA:1153:G:C6	2.88	0.41
1:AA:1210:C:C4'	1:AA:1214:C:H5	2.33	0.41
1:AA:1277:C:C2'	1:AA:1279:G:H8	2.33	0.41
1:AA:1347:G:C8	9:AI:108:ARG:HB2	2.56	0.41
1:AA:1505:G:H4'	1:AA:1506:U:O5'	2.21	0.41
2:AB:27:LYS:HE3	2:AB:27:LYS:HB2	1.94	0.41
2:AB:216:VAL:O	2:AB:217:ALA:C	2.63	0.41
3:AC:23:ALA:HB2	3:AC:31:ASN:HD22	1.85	0.41
4:AD:149:LYS:HE2	4:AD:176:LYS:O	2.20	0.41
6:AF:16:GLU:OE1	4:BD:190:LEU:O	2.39	0.41
8:AH:28:SER:HB3	8:AH:56:PRO:CB	2.50	0.41
9:AI:24:ASN:HB2	9:AI:61:ASP:OD2	2.21	0.41
9:AI:49:GLN:CB	9:AI:50:PRO:CD	2.98	0.41
9:AI:79:ARG:O	9:AI:83:THR:HG23	2.20	0.41
9:AI:118:ARG:O	9:AI:119:LYS:CB	2.69	0.41
10:AJ:19:ASP:HA	10:AJ:22:THR:HB	2.03	0.41
10:AJ:27:GLU:HA	10:AJ:30:LYS:CD	2.51	0.41
10:AJ:65:TYR:CE2	14:AN:98:LYS:HG2	2.56	0.41
11:AK:52:ARG:O	11:AK:55:ARG:CB	2.69	0.41
13:AM:70:ARG:HA	30:CF:142:TYR:CE2	2.56	0.41
14:AN:13:VAL:HA	14:AN:16:ALA:CB	2.50	0.41
14:AN:88:ALA:CA	14:AN:93:ILE:HD12	2.50	0.41
15:AO:23:SER:HB3	15:AO:26:VAL:HG21	2.03	0.41
16:AP:46:LYS:HD3	16:AP:47:GLU:N	2.35	0.41
18:AR:51:GLN:O	18:AR:51:GLN:HG3	2.20	0.41
19:AS:19:GLU:HA	19:AS:19:GLU:OE2	2.21	0.41
20:AT:57:VAL:CG1	20:AT:71:ALA:CB	2.99	0.41
22:AV:48:C:H2'	22:AV:59:U:C4'	2.51	0.41
1:BA:15:G:H4'	5:BE:28:ARG:NH1	2.36	0.41
1:BA:49:U:O4	1:BA:365:U:C5	2.73	0.41
1:BA:469:C:C5	1:BA:470:C:C5	3.08	0.41
1:BA:574:A:P	60:BA:1785:HOH:O	2.79	0.41
1:BA:676:A:N1	1:BA:677:U:C4	2.89	0.41
1:BA:745:G:H1'	1:BA:836:G:O2'	2.21	0.41
1:BA:1026:G:C6	1:BA:1027:C:N4	2.89	0.41
1:BA:1142:G:N1	1:BA:1143:G:H1'	2.35	0.41
1:BA:1315:U:C4	1:BA:1316:G:C6	3.09	0.41
1:BA:1386:G:N2	1:BA:1387:G:C8	2.88	0.41
1:BA:1473:G:H2'	1:BA:1474:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1478:U:H2'	1:BA:1479:C:H6	1.85	0.41
2:BB:84:LEU:O	2:BB:85:SER:HB3	2.21	0.41
2:BB:214:GLY:C	2:BB:216:VAL:H	2.29	0.41
3:BC:8:GLY:HA2	3:BC:11:LEU:HG	2.02	0.41
4:BD:190:LEU:C	4:BD:190:LEU:CD1	2.94	0.41
9:BI:74:GLN:O	9:BI:78:ILE:HG13	2.19	0.41
10:BJ:50:THR:OG1	10:BJ:64:GLN:CG	2.69	0.41
11:BK:124:LYS:O	21:BU:34:ARG:HD2	2.21	0.41
13:BM:67:ASP:HA	13:BM:70:ARG:HG2	2.02	0.41
13:BM:70:ARG:HA	13:BM:73:SER:HB2	2.02	0.41
14:BN:2:LYS:C	14:BN:4:SER:N	2.77	0.41
14:BN:5:MET:HB3	14:BN:63:ARG:CZ	2.51	0.41
14:BN:5:MET:HE3	14:BN:63:ARG:HH22	1.86	0.41
14:BN:41:ARG:NH2	14:BN:45:VAL:HG21	2.36	0.41
19:BS:10:ILE:CD1	19:BS:15:LEU:HD22	2.50	0.41
21:BU:33:ARG:CD	21:BU:34:ARG:HB2	2.51	0.41
25:CA:64:A:H2'	25:CA:65:U:H6	1.86	0.41
25:CA:71:A:H5"	25:CA:72:U:C2'	2.51	0.41
25:CA:319:G:C2'	25:CA:320:A:O5'	2.69	0.41
25:CA:437:U:C2'	25:CA:438:G:O5'	2.69	0.41
25:CA:703:U:H2'	25:CA:704:G:H5'	2.02	0.41
25:CA:723:C:H2'	25:CA:724:U:O4'	2.21	0.41
25:CA:787:C:P	60:CA:3765:HOH:O	2.79	0.41
25:CA:1038:G:C2'	25:CA:1039:A:H5'	2.51	0.41
25:CA:1056:G:O2'	25:CA:1086:A:C8	2.70	0.41
25:CA:1116:G:C6	25:CA:1117:C:C4	3.08	0.41
25:CA:1269:A:H2'	25:CA:1270:C:C6	2.55	0.41
25:CA:2055:C:C5'	25:CA:2056:G:OP1	2.67	0.41
25:CA:2092:U:H4'	25:CA:2093:G:O5'	2.20	0.41
25:CA:2448:A:H4'	25:CA:2449:U:OP2	2.21	0.41
25:CA:2599:G:N7	27:CC:235:GLU:HB2	2.35	0.41
25:CA:2692:G:H4'	25:CA:2870:C:O2	2.21	0.41
25:CA:2703:C:O5'	25:CA:2703:C:H6	2.04	0.41
31:CG:163:TYR:O	31:CG:166:GLU:HB3	2.20	0.41
31:CG:171:LYS:HG3	31:CG:172:GLU:O	2.21	0.41
32:CH:131:SER:C	32:CH:132:PHE:CD2	2.99	0.41
34:CJ:80:HIS:O	34:CJ:81:ILE:C	2.64	0.41
36:CL:135:ILE:HD12	36:CL:142:ILE:HD11	2.03	0.41
37:CM:5:LYS:O	37:CM:6:ARG:HB2	2.20	0.41
37:CM:33:LEU:HA	37:CM:33:LEU:HD12	1.83	0.41
38:CN:49:GLU:N	38:CN:50:PRO:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CN:85:PRO:O	38:CN:86:ARG:C	2.64	0.41
38:CN:113:ILE:O	38:CN:113:ILE:HG23	2.21	0.41
40:CP:89:GLY:HA3	40:CP:109:ILE:HD11	2.03	0.41
48:CX:37:PHE:O	48:CX:45:PHE:HA	2.21	0.41
48:CX:76:LYS:HA	48:CX:76:LYS:HD2	1.75	0.41
49:CY:44:LYS:O	49:CY:47:ARG:HB3	2.20	0.41
25:DA:168:G:N3	25:DA:168:G:C2'	2.80	0.41
25:DA:260:G:C4	25:DA:261:G:C8	3.08	0.41
25:DA:797:G:C4	25:DA:798:G:C8	3.08	0.41
25:DA:857:G:C6	25:DA:858:G:C6	3.09	0.41
25:DA:908:C:O2'	25:DA:909:A:H5'	2.20	0.41
25:DA:1021:A:C6	25:DA:1023:U:C5	3.08	0.41
25:DA:1173:U:O2'	25:DA:1176:U:O2	2.28	0.41
25:DA:1364:G:H2'	25:DA:1365:A:C5'	2.51	0.41
25:DA:1386:C:C2'	25:DA:1386:C:O2	2.65	0.41
25:DA:1403:A:C2	25:DA:1404:C:C6	3.09	0.41
25:DA:1455:G:C6	25:DA:1456:G:C5	3.09	0.41
25:DA:1476:U:C5	25:DA:1514:G:C2	3.08	0.41
25:DA:1746:A:C2	25:DA:1747:U:C5	3.08	0.41
25:DA:1754:A:C2	25:DA:1755:A:C4	3.09	0.41
25:DA:1915:U:C2'	25:DA:1916:A:O5'	2.68	0.41
25:DA:2273:A:H2'	25:DA:2274:A:C8	2.55	0.41
25:DA:2291:U:H4'	25:DA:2380:C:O2	2.21	0.41
25:DA:2428:G:H5"	25:DA:2429:G:O5'	2.20	0.41
25:DA:2573:C:H3'	60:DA:3716:HOH:O	2.20	0.41
25:DA:2584:U:C2'	25:DA:2585:U:H5'	2.50	0.41
25:DA:2723:C:C2'	25:DA:2724:U:O5'	2.68	0.41
25:DA:2816:G:H2'	25:DA:2817:U:O5'	2.20	0.41
25:DA:2822:G:O6	38:DN:2:ARG:CB	2.69	0.41
56:DB:49:C:O2'	39:DO:68:LYS:HE2	2.21	0.41
27:DC:153:LEU:HD23	27:DC:153:LEU:N	2.36	0.41
28:DD:58:ASN:ND2	28:DD:59:ARG:N	2.68	0.41
30:DF:29:ARG:O	30:DF:29:ARG:CG	2.69	0.41
30:DF:48:LEU:O	30:DF:48:LEU:HG	2.21	0.41
32:DH:31:VAL:CG1	32:DH:32:PRO:HD2	2.49	0.41
32:DH:32:PRO:CG	48:DX:38:TRP:HB3	2.51	0.41
32:DH:40:THR:O	32:DH:43:ASN:N	2.53	0.41
36:DL:119:PRO:CB	36:DL:138:ALA:O	2.69	0.41
41:DQ:86:SER:OG	42:DR:51:VAL:HG12	2.20	0.41
42:DR:22:LEU:O	42:DR:23:GLU:C	2.62	0.41
42:DR:38:VAL:C	42:DR:39:LEU:HD12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DS:96:ILE:HD13	43:DS:96:ILE:N	2.36	0.41
43:DS:97:LEU:HD12	43:DS:97:LEU:HA	1.97	0.41
45:DU:72:PHE:CZ	45:DU:77:GLY:C	2.99	0.41
49:DY:9:LYS:N	49:DY:12:GLU:CB	2.84	0.41
49:DY:30:MET:O	49:DY:34:SER:OG	2.38	0.41
53:D2:41:ARG:HH21	53:D2:41:ARG:HB2	1.84	0.41
54:D3:31:ILE:O	54:D3:35:LYS:CD	2.68	0.41
1:AA:66:A:C2	1:AA:67:C:N1	2.89	0.41
1:AA:68:G:C6	1:AA:69:G:H1'	2.55	0.41
1:AA:75:G:H5'	1:AA:76:G:P	2.61	0.41
1:AA:91:U:C5	1:AA:92:U:C6	3.09	0.41
1:AA:116:A:OP2	1:AA:116:A:C8	2.73	0.41
1:AA:168:G:C5'	1:AA:168:G:H8	2.34	0.41
1:AA:176:C:O4'	1:AA:1447:A:C2	2.74	0.41
1:AA:179:A:C2'	1:AA:180:U:H5'	2.51	0.41
1:AA:207:C:H2'	1:AA:208:U:O2	2.19	0.41
1:AA:237:G:H2'	1:AA:238:A:H8	1.86	0.41
1:AA:274:A:H5'	17:AQ:15:LYS:HE3	2.03	0.41
1:AA:436:C:H4'	4:AD:152:SER:HB2	2.00	0.41
1:AA:439:U:C6	4:AD:119:HIS:CD2	3.09	0.41
1:AA:588:G:C4	1:AA:753:A:C2	3.09	0.41
1:AA:637:C:N3	1:AA:638:U:C5	2.89	0.41
1:AA:643:C:H5'	8:AH:31:LEU:CD2	2.51	0.41
1:AA:725:G:H2'	1:AA:726:C:H5'	2.02	0.41
1:AA:847:G:C6	1:AA:848:C:C4	3.08	0.41
1:AA:864:A:H2'	1:AA:865:A:C8	2.56	0.41
1:AA:882:C:O2'	1:AA:883:C:H5'	2.20	0.41
1:AA:993:G:N3	1:AA:993:G:C2'	2.82	0.41
1:AA:1031:C:C3'	1:AA:1032:G:H5"	2.50	0.41
1:AA:1202:U:N3	14:AN:82:ILE:HG21	2.35	0.41
1:AA:1317:C:C4	14:AN:53:ARG:HD2	2.56	0.41
1:AA:1322:C:P	19:AS:77:ARG:NH2	2.94	0.41
1:AA:1349:A:C2	1:AA:1350:A:H1'	2.56	0.41
1:AA:1432:G:HO2'	1:AA:1433:A:P	2.43	0.41
2:AB:68:PHE:HE2	2:AB:88:GLN:HB3	1.86	0.41
2:AB:218:ALA:HB1	2:AB:221:ARG:HH21	1.85	0.41
3:AC:43:THR:O	3:AC:47:ALA:HA	2.21	0.41
3:AC:57:GLU:O	3:AC:63:ILE:HA	2.20	0.41
3:AC:87:ARG:HG3	3:AC:100:ILE:CG2	2.51	0.41
3:AC:120:THR:CG2	3:AC:121:SER:N	2.80	0.41
3:AC:156:LEU:CD1	3:AC:163:ARG:CB	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:17:ASP:CG	4:AD:19:PHE:H	2.29	0.41
4:AD:54:LEU:O	4:AD:55:ARG:C	2.63	0.41
4:AD:68:GLU:O	4:AD:72:ARG:HG2	2.21	0.41
4:AD:151:GLN:O	4:AD:152:SER:O	2.39	0.41
4:AD:164:ARG:O	4:AD:165:GLU:C	2.62	0.41
4:AD:173:ASP:HB3	4:AD:176:LYS:HB2	2.03	0.41
5:AE:54:GLU:O	5:AE:55:VAL:C	2.63	0.41
5:AE:104:ILE:CD1	5:AE:122:VAL:CG2	2.98	0.41
5:AE:118:GLY:O	5:AE:119:VAL:C	2.63	0.41
5:AE:131:ASN:ND2	5:AE:133:ILE:HG22	2.35	0.41
5:AE:141:ASP:C	5:AE:143:LEU:N	2.79	0.41
6:AF:52:ASN:C	6:AF:53:LYS:O	2.62	0.41
7:AG:102:TRP:CH2	7:AG:140:VAL:HG21	2.56	0.41
9:AI:53:LEU:HD12	9:AI:53:LEU:H	1.85	0.41
9:AI:116:GLY:O	9:AI:124:PRO:CG	2.69	0.41
10:AJ:17:LEU:N	10:AJ:20:GLN:HG3	2.35	0.41
11:AK:18:GLY:C	11:AK:81:LEU:HB2	2.45	0.41
11:AK:47:GLY:C	11:AK:49:SER:H	2.27	0.41
11:AK:110:THR:HG23	21:AU:4:LYS:CA	2.51	0.41
11:AK:124:LYS:HE3	21:AU:34:ARG:CZ	2.50	0.41
11:AK:126:ARG:N	21:AU:33:ARG:NH1	2.68	0.41
13:AM:22:TYR:CE2	13:AM:69:ARG:HG2	2.55	0.41
13:AM:35:ALA:CB	13:AM:58:GLU:OE1	2.69	0.41
13:AM:65:GLU:OE1	13:AM:65:GLU:HA	2.19	0.41
13:AM:80:MET:CA	13:AM:91:ARG:HH22	2.34	0.41
14:AN:25:GLU:CB	14:AN:28:ALA:HB2	2.49	0.41
14:AN:35:ALA:HB2	14:AN:41:ARG:NE	2.36	0.41
15:AO:63:ARG:HA	15:AO:63:ARG:HD2	1.89	0.41
15:AO:86:LEU:C	15:AO:88:ARG:H	2.29	0.41
17:AQ:16:MET:CG	17:AQ:19:SER:HB3	2.50	0.41
18:AR:54:LEU:O	18:AR:54:LEU:HD13	2.21	0.41
20:AT:4:LYS:HE2	20:AT:4:LYS:HA	2.03	0.41
20:AT:47:GLN:NE2	20:AT:47:GLN:CA	2.84	0.41
21:AU:31:VAL:O	21:AU:31:VAL:CG1	2.69	0.41
21:AU:43:GLU:OE2	21:AU:44:ARG:NH1	2.54	0.41
22:AV:41:C:H2'	22:AV:42:C:C6	2.56	0.41
24:AY:9:ASP:CB	24:AY:13:ARG:NH2	2.81	0.41
1:BA:46:G:H2'	1:BA:366:A:N7	2.36	0.41
1:BA:94:G:N2	1:BA:96:U:C4	2.89	0.41
1:BA:168:G:H5"	1:BA:168:G:H8	1.85	0.41
1:BA:246:A:N1	1:BA:278:G:O2'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:254:G:H2'	1:BA:255:G:O4'	2.20	0.41
1:BA:292:G:N2	1:BA:309:A:C4	2.89	0.41
1:BA:325:A:H2'	1:BA:326:G:O4'	2.21	0.41
1:BA:341:C:H2'	1:BA:342:C:C6	2.55	0.41
1:BA:375:U:N3	1:BA:376:G:N7	2.69	0.41
1:BA:402:G:C5	1:BA:403:C:C5	3.08	0.41
1:BA:429:U:H3'	4:BD:8:LEU:HD22	2.03	0.41
1:BA:511:C:C6	1:BA:512:U:C5	3.09	0.41
1:BA:526:C:H2'	1:BA:527:G:H4'	2.03	0.41
1:BA:570:G:H2'	1:BA:571:U:C6	2.56	0.41
1:BA:608:A:H2'	1:BA:609:A:O4'	2.20	0.41
1:BA:719:C:C5	1:BA:720:C:C4	3.09	0.41
1:BA:856:C:H2'	1:BA:857:C:H5'	2.02	0.41
1:BA:969:A:H2'	1:BA:970:C:O5'	2.20	0.41
1:BA:1151:A:N1	1:BA:1152:A:C6	2.89	0.41
1:BA:1247:U:O2'	1:BA:1248:A:H5'	2.21	0.41
1:BA:1298:U:C4'	1:BA:1299:A:C4	3.02	0.41
1:BA:1399:C:H4'	1:BA:1400:C:C5'	2.51	0.41
1:BA:1424:U:H2'	1:BA:1425:U:O4'	2.21	0.41
1:BA:1449:C:H2'	1:BA:1450:U:H5'	2.02	0.41
1:BA:1501:C:C5	1:BA:1504:G:C4	3.09	0.41
1:BA:1526:G:OP1	21:BU:38:GLU:HB2	2.21	0.41
2:BB:67:LEU:CD1	2:BB:153:MET:HE1	2.50	0.41
2:BB:90:PHE:CD2	2:BB:90:PHE:C	2.98	0.41
2:BB:95:TRP:CE3	2:BB:96:LEU:O	2.74	0.41
3:BC:28:PHE:O	3:BC:28:PHE:HD2	2.04	0.41
3:BC:36:PHE:HZ	14:BN:90:ARG:NH1	2.19	0.41
3:BC:112:ALA:O	3:BC:114:LEU:N	2.54	0.41
3:BC:131:ARG:HD3	3:BC:135:ARG:NH2	2.36	0.41
3:BC:142:ARG:HG2	3:BC:143:LEU:HD13	2.02	0.41
3:BC:166:TRP:HE3	3:BC:167:TYR:N	2.19	0.41
4:BD:67:LEU:HD23	4:BD:67:LEU:HA	1.83	0.41
4:BD:123:MET:HA	4:BD:127:ARG:O	2.20	0.41
5:BE:31:SER:OG	5:BE:32:PHE:N	2.54	0.41
6:BF:59:TYR:HE2	18:BR:66:LEU:CD2	2.34	0.41
6:BF:67:PRO:O	6:BF:69:GLU:N	2.54	0.41
6:BF:91:ARG:CG	6:BF:92:THR:H	2.33	0.41
6:BF:93:LYS:C	6:BF:94:HIS:CG	2.97	0.41
7:BG:115:MET:N	7:BG:118:ARG:HD3	2.36	0.41
9:BI:128:LYS:CD	9:BI:129:ARG:N	2.83	0.41
10:BJ:35:GLN:HG2	10:BJ:77:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:92:ARG:HH11	11:BK:92:ARG:HG3	1.85	0.41
11:BK:124:LYS:HE3	11:BK:124:LYS:O	2.21	0.41
12:BL:115:LYS:C	12:BL:116:TYR:CG	2.97	0.41
13:BM:5:GLY:O	13:BM:7:ASN:N	2.54	0.41
13:BM:79:LEU:HD11	13:BM:86:ARG:HB3	2.03	0.41
14:BN:2:LYS:O	14:BN:4:SER:N	2.54	0.41
14:BN:84:VAL:O	14:BN:85:ARG:C	2.63	0.41
14:BN:99:ALA:O	14:BN:100:SER:HB3	2.21	0.41
15:BO:77:TYR:O	15:BO:78:THR:C	2.64	0.41
16:BP:38:PHE:CE2	16:BP:51:ARG:HB2	2.55	0.41
17:BQ:37:ILE:N	17:BQ:37:ILE:HD12	2.36	0.41
18:BR:50:TYR:HA	18:BR:53:GLN:NE2	2.36	0.41
19:BS:12:LEU:HD22	19:BS:12:LEU:C	2.46	0.41
19:BS:18:VAL:O	19:BS:22:VAL:HG23	2.21	0.41
20:BT:19:HIS:HD2	20:BT:20:ASN:HD22	1.67	0.41
25:CA:1:G:C4	25:CA:2:G:C8	3.09	0.41
25:CA:283:G:C2'	25:CA:284:U:O5'	2.69	0.41
25:CA:495:G:H2'	25:CA:496:G:O5'	2.21	0.41
25:CA:587:C:O2'	36:CL:19:LEU:CD1	2.68	0.41
25:CA:653:U:C2'	25:CA:654:A:OP1	2.69	0.41
25:CA:679:C:O2'	25:CA:680:C:H5'	2.21	0.41
25:CA:693:A:O2'	25:CA:694:U:H5'	2.21	0.41
25:CA:783:A:H8	25:CA:784:G:H4'	1.86	0.41
25:CA:799:G:N1	25:CA:800:A:N6	2.68	0.41
25:CA:923:G:H4'	47:CW:25:GLU:CG	2.51	0.41
25:CA:980:A:N7	25:CA:1136:G:H5"	2.36	0.41
25:CA:1053:C:N4	25:CA:1054:A:N7	2.69	0.41
25:CA:1055:G:H3'	25:CA:1056:G:H8	1.85	0.41
25:CA:1056:G:O2'	25:CA:1086:A:H1'	2.21	0.41
25:CA:1091:G:O2'	25:CA:1092:C:C5	2.73	0.41
25:CA:1104:C:H2'	25:CA:1105:U:H6	1.85	0.41
25:CA:1179:G:O5'	25:CA:1180:U:O5'	2.39	0.41
25:CA:1244:A:OP1	36:CL:7:SER:CB	2.69	0.41
25:CA:1405:U:O2'	25:CA:1406:U:H5'	2.20	0.41
25:CA:1417:C:O2'	25:CA:1587:G:O2'	2.27	0.41
25:CA:1484:U:N3	25:CA:1485:U:C5	2.89	0.41
25:CA:1550:C:O2'	25:CA:1551:A:H5'	2.21	0.41
25:CA:1627:G:C2	25:CA:1628:G:C8	3.09	0.41
25:CA:1731:G:C2	25:CA:1733:G:H1'	2.55	0.41
25:CA:1818:U:H2'	27:CC:155:ARG:CD	2.51	0.41
25:CA:1924:C:H2'	25:CA:1925:C:C5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:2289:G:H2'	25:CA:2289:G:N3	2.36	0.41
25:CA:2313:C:C2'	25:CA:2314:A:H5'	2.51	0.41
25:CA:2516:A:C5	25:CA:2517:C:C4	3.09	0.41
25:CA:2547:A:H5'	35:CK:29:HIS:NE2	2.36	0.41
25:CA:2617:U:C2'	25:CA:2618:G:H5'	2.51	0.41
25:CA:2675:A:H2'	25:CA:2676:C:O5'	2.21	0.41
25:CA:2731:G:C6	25:CA:2732:G:C6	3.09	0.41
25:CA:2757:A:OP1	55:C4:20:ASP:N	2.54	0.41
25:CA:2886:A:C5	25:CA:2887:A:N7	2.88	0.41
26:CB:78:A:N6	26:CB:98:G:H2'	2.36	0.41
27:CC:35:LYS:CG	27:CC:36:ASN:N	2.84	0.41
27:CC:51:ARG:HE	27:CC:52:HIS:CE1	2.38	0.41
27:CC:211:ARG:HH21	27:CC:211:ARG:CG	2.33	0.41
29:CE:12:LEU:HD23	29:CE:13:THR:O	2.21	0.41
29:CE:49:ARG:HA	29:CE:82:GLY:HA3	2.03	0.41
29:CE:49:ARG:HH11	29:CE:72:SER:HB2	1.86	0.41
30:CF:15:LEU:HA	30:CF:18:GLU:HB2	2.03	0.41
31:CG:146:ASP:O	31:CG:147:LEU:C	2.62	0.41
31:CG:152:ARG:HA	31:CG:153:PRO:HD3	1.88	0.41
32:CH:28:ASN:H	32:CH:32:PRO:HG2	1.85	0.41
33:CI:38:CYS:HA	33:CI:41:PHE:HB3	2.03	0.41
33:CI:54:ILE:HG12	33:CI:73:PRO:HB3	2.03	0.41
33:CI:57:VAL:HB	33:CI:68:PHE:CA	2.50	0.41
34:CJ:27:ARG:HG2	34:CJ:27:ARG:NH1	2.36	0.41
35:CK:112:PHE:O	35:CK:115:ILE:HB	2.21	0.41
36:CL:8:PRO:HB2	36:CL:12:SER:HB2	2.03	0.41
36:CL:70:LYS:O	36:CL:71:ALA:C	2.63	0.41
37:CM:31:PHE:CZ	37:CM:110:GLU:CB	3.03	0.41
38:CN:28:LEU:HD12	38:CN:28:LEU:C	2.46	0.41
38:CN:28:LEU:O	38:CN:32:GLU:N	2.53	0.41
38:CN:82:GLU:O	38:CN:85:PRO:HG2	2.21	0.41
40:CP:9:GLN:C	40:CP:11:GLN:N	2.79	0.41
40:CP:25:VAL:O	40:CP:25:VAL:HG13	2.21	0.41
40:CP:112:ARG:O	40:CP:113:LEU:CG	2.65	0.41
41:CQ:91:ARG:O	41:CQ:92:LYS:C	2.62	0.41
42:CR:43:ASN:HB3	42:CR:44:GLY:H	1.51	0.41
46:CV:61:LEU:N	46:CV:61:LEU:CD1	2.84	0.41
46:CV:70:ILE:HG22	46:CV:72:VAL:HG12	2.03	0.41
52:C1:30:PRO:HD2	52:C1:31:GLU:OE2	2.20	0.41
53:C2:23:ALA:C	53:C2:24:THR:HG23	2.46	0.41
55:C4:3:VAL:HG12	55:C4:36:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:27:G:O2'	25:DA:28:A:OP2	2.35	0.41
25:DA:46:G:N1	25:DA:47:C:C4	2.89	0.41
25:DA:52:A:H2	25:DA:179:C:O4'	2.02	0.41
25:DA:52:A:H8	25:DA:52:A:O5'	2.04	0.41
25:DA:147:C:H2'	25:DA:148:U:O5'	2.19	0.41
25:DA:278:A:N3	25:DA:278:A:C2'	2.84	0.41
25:DA:298:G:H5"	25:DA:299:A:OP1	2.21	0.41
25:DA:306:U:C6	25:DA:306:U:H3'	2.56	0.41
25:DA:346:A:C6	25:DA:347:A:C8	3.09	0.41
25:DA:503:A:C5	25:DA:506:G:C6	3.08	0.41
25:DA:528:A:C2	25:DA:2043:C:C5'	3.03	0.41
25:DA:572:A:OP2	42:DR:80:ARG:NH2	2.53	0.41
25:DA:668:A:H2'	25:DA:670:A:N6	2.36	0.41
25:DA:749:A:H4'	25:DA:1271:G:N3	2.36	0.41
25:DA:915:C:C2'	25:DA:916:G:H5'	2.51	0.41
25:DA:932:U:O4'	25:DA:933:A:C2	2.73	0.41
25:DA:975:A:H1'	25:DA:990:A:C2	2.56	0.41
25:DA:982:C:H5"	25:DA:983:A:P	2.61	0.41
25:DA:1006:C:O2'	25:DA:1007:C:H5'	2.20	0.41
25:DA:1059:G:C6	25:DA:1080:A:N1	2.89	0.41
25:DA:1062:G:O3'	25:DA:1063:G:C8	2.74	0.41
25:DA:1063:G:C2	33:DI:89:SER:OG	2.72	0.41
25:DA:1235:G:C6	25:DA:1236:G:N1	2.89	0.41
25:DA:1258:U:H2'	25:DA:1259:G:C8	2.56	0.41
25:DA:1343:G:O4'	25:DA:1597:A:H2'	2.21	0.41
25:DA:1391:U:H6	25:DA:1391:U:H3'	1.85	0.41
25:DA:1414:C:H3'	25:DA:1414:C:H6	1.84	0.41
25:DA:1422:G:C2	25:DA:1423:G:C4	3.09	0.41
25:DA:1447:C:C2	25:DA:1448:G:C8	3.09	0.41
25:DA:1469:A:N3	25:DA:1469:A:C2'	2.84	0.41
25:DA:1484:U:C2	25:DA:1485:U:C5	3.09	0.41
25:DA:1486:U:C2	25:DA:1487:U:C5	3.08	0.41
25:DA:1744:A:C8	25:DA:1745:A:C8	3.09	0.41
25:DA:1750:G:H2'	25:DA:1751:U:O5'	2.21	0.41
25:DA:1798:U:H5"	27:DC:257:ARG:HB2	2.02	0.41
25:DA:2097:A:C4	25:DA:2098:U:C6	3.08	0.41
25:DA:2111:U:O4'	25:DA:2118:U:H1'	2.21	0.41
25:DA:2258:C:O2'	25:DA:2426:A:H5"	2.20	0.41
25:DA:2311:A:H5'	25:DA:2311:A:H8	1.85	0.41
25:DA:2317:A:H2'	25:DA:2318:G:C5'	2.50	0.41
25:DA:2317:A:H2'	25:DA:2318:G:H5'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2339:C:O2'	25:DA:2340:A:C5'	2.69	0.41
25:DA:2476:A:N3	25:DA:2476:A:H2'	2.35	0.41
25:DA:2632:A:O2'	25:DA:2633:G:H5'	2.21	0.41
25:DA:2655:G:N3	25:DA:2664:G:C6	2.89	0.41
25:DA:2808:G:C2	25:DA:2891:U:C6	3.09	0.41
25:DA:2837:A:H5"	60:DA:3816:HOH:O	2.20	0.41
25:DA:2840:C:H5"	38:DN:53:THR:CG2	2.51	0.41
25:DA:2858:C:O5'	25:DA:2858:C:H6	2.04	0.41
56:DB:24:G:N1	56:DB:56:G:C2	2.89	0.41
56:DB:51:G:O2'	56:DB:52:A:O5'	2.39	0.41
56:DB:61:G:C6	56:DB:62:C:C4	3.08	0.41
27:DC:52:HIS:NE2	27:DC:218:THR:HG23	2.36	0.41
27:DC:79:ARG:NH2	27:DC:79:ARG:HG3	2.36	0.41
27:DC:124:LYS:CB	27:DC:125:PRO:CD	2.98	0.41
27:DC:227:VAL:HG22	27:DC:227:VAL:O	2.20	0.41
27:DC:264:LYS:HB3	27:DC:265:PHE:CD1	2.56	0.41
28:DD:173:GLN:O	28:DD:174:SER:C	2.64	0.41
29:DE:173:THR:O	29:DE:175:ILE:N	2.54	0.41
30:DF:45:ASP:CB	30:DF:48:LEU:HB3	2.51	0.41
30:DF:47:LYS:O	30:DF:50:ASP:HB2	2.21	0.41
30:DF:50:ASP:O	30:DF:53:ALA:HB3	2.21	0.41
30:DF:62:GLN:OE1	30:DF:90:LEU:HD23	2.20	0.41
31:DG:42:VAL:CG2	31:DG:43:LYS:N	2.84	0.41
31:DG:43:LYS:HE3	31:DG:50:THR:OG1	2.21	0.41
31:DG:72:ASN:O	31:DG:75:VAL:HB	2.21	0.41
31:DG:89:VAL:HG21	31:DG:162:ARG:NE	2.36	0.41
31:DG:143:VAL:O	31:DG:144:ALA:O	2.37	0.41
32:DH:54:LEU:HD13	32:DH:54:LEU:C	2.45	0.41
32:DH:119:ASN:N	32:DH:120:GLY:HA3	2.33	0.41
35:DK:76:VAL:CG1	40:DP:72:VAL:HG22	2.47	0.41
36:DL:75:ALA:O	36:DL:108:ALA:HA	2.21	0.41
36:DL:79:LEU:O	36:DL:82:LEU:HD22	2.21	0.41
36:DL:86:GLU:O	36:DL:86:GLU:HG2	2.21	0.41
36:DL:95:LEU:HD12	36:DL:101:ILE:HD13	2.03	0.41
37:DM:31:PHE:CE2	37:DM:110:GLU:HB2	2.56	0.41
37:DM:62:LYS:HD3	37:DM:64:TRP:CZ2	2.56	0.41
37:DM:112:LEU:O	37:DM:113:ALA:C	2.63	0.41
38:DN:65:LEU:HG	38:DN:69:ARG:NH2	2.36	0.41
38:DN:81:ASN:O	38:DN:85:PRO:CD	2.69	0.41
39:DO:28:VAL:CG2	39:DO:36:TYR:O	2.68	0.41
39:DO:49:VAL:HG12	39:DO:50:ALA:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DO:80:GLU:O	39:DO:84:GLU:HG3	2.21	0.41
39:DO:117:PHE:CD1	39:DO:117:PHE:OXT	2.73	0.41
40:DP:8:GLU:O	40:DP:54:LEU:HD22	2.21	0.41
42:DR:46:GLU:OE1	42:DR:47:VAL:N	2.53	0.41
43:DS:64:ALA:O	43:DS:65:ASP:HB3	2.21	0.41
44:DT:35:ALA:O	44:DT:36:LYS:C	2.62	0.41
45:DU:6:ARG:HD3	45:DU:6:ARG:HA	1.74	0.41
57:DW:32:ILE:HG22	57:DW:33:ILE:N	2.36	0.41
48:DX:57:VAL:O	48:DX:60:LYS:N	2.53	0.41
48:DX:66:VAL:HG12	48:DX:67:LEU:N	2.34	0.41
49:DY:9:LYS:CB	49:DY:12:GLU:HG2	2.51	0.41
50:DZ:35:VAL:HG21	50:DZ:37:ARG:CZ	2.49	0.41
51:D0:38:LEU:O	51:D0:39:ARG:C	2.62	0.41
53:D2:43:THR:O	53:D2:44:VAL:CB	2.67	0.41
55:D4:30:GLU:HB3	55:D4:33:HIS:CG	2.56	0.41
1:AA:66:A:N1	1:AA:67:C:C6	2.89	0.41
1:AA:75:G:N3	1:AA:75:G:H2'	2.35	0.41
1:AA:112:G:H2'	1:AA:113:G:H5'	2.02	0.41
1:AA:246:A:C4	1:AA:279:A:N6	2.89	0.41
1:AA:264:C:O2	17:AQ:65:PRO:HG2	2.21	0.41
1:AA:322:C:C2	1:AA:332:G:N2	2.89	0.41
1:AA:392:C:H2'	1:AA:393:A:C8	2.56	0.41
1:AA:524:G:H2'	1:AA:525:C:C6	2.56	0.41
1:AA:1013:G:O5'	1:AA:1013:G:H8	2.04	0.41
1:AA:1197:A:OP1	1:AA:1198:G:OP2	2.38	0.41
1:AA:1421:G:C6	1:AA:1422:G:N7	2.89	0.41
1:AA:1526:G:P	21:AU:38:GLU:HB3	2.61	0.41
2:AB:65:LYS:CB	2:AB:158:ASP:OD2	2.66	0.41
2:AB:187:ASP:HB2	2:AB:203:ASP:OD1	2.21	0.41
3:AC:59:PRO:HD2	3:AC:62:SER:C	2.46	0.41
3:AC:60:ALA:C	3:AC:62:SER:N	2.79	0.41
3:AC:199:VAL:O	3:AC:199:VAL:HG22	2.21	0.41
5:AE:22:LYS:HB3	5:AE:29:ILE:CG2	2.51	0.41
5:AE:69:ASN:O	5:AE:69:ASN:CG	2.64	0.41
7:AG:61:PHE:HD2	7:AG:123:LEU:HD11	1.86	0.41
7:AG:72:VAL:O	7:AG:140:VAL:HG12	2.21	0.41
8:AH:98:LEU:HD23	8:AH:98:LEU:H	1.82	0.41
9:AI:86:LEU:O	9:AI:87:MET:C	2.64	0.41
13:AM:52:ILE:O	13:AM:55:LEU:HB2	2.21	0.41
16:AP:80:LYS:HE3	16:AP:80:LYS:CA	2.43	0.41
18:AR:24:ASP:O	18:AR:26:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:56:ILE:CD1	20:AT:60:GLN:HG2	2.51	0.41
20:AT:68:LYS:HB2	20:AT:68:LYS:NZ	2.36	0.41
22:AV:16:U:H2'	22:AV:17:C:H5'	2.03	0.41
22:AV:18:G:C4	22:AV:58:A:N1	2.89	0.41
1:BA:10:A:OP2	5:BE:130:THR:HG21	2.21	0.41
1:BA:87:C:O3'	1:BA:88:U:O4'	2.38	0.41
1:BA:274:A:H4'	1:BA:275:G:OP1	2.18	0.41
1:BA:376:G:C5	1:BA:377:G:N7	2.89	0.41
1:BA:452:A:C8	1:BA:452:A:C3'	3.03	0.41
1:BA:585:G:OP1	17:BQ:38:LYS:HE3	2.21	0.41
1:BA:585:G:H1'	1:BA:879:C:H5"	2.03	0.41
1:BA:603:U:C2'	1:BA:604:G:O5'	2.69	0.41
1:BA:710:G:N2	1:BA:711:G:H1'	2.36	0.41
1:BA:840:C:O2	1:BA:847:G:N2	2.54	0.41
1:BA:939:G:N1	1:BA:940:C:N3	2.69	0.41
1:BA:1021:A:C2'	1:BA:1022:A:H5"	2.50	0.41
1:BA:1118:U:H2'	1:BA:1119:C:C6	2.55	0.41
1:BA:1129:C:C2'	1:BA:1139:G:N7	2.84	0.41
1:BA:1320:C:N4	19:BS:35:ARG:HB2	2.36	0.41
1:BA:1373:G:C5'	7:BG:35:LYS:HB2	2.51	0.41
2:BB:19:THR:O	2:BB:20:ARG:NH2	2.53	0.41
2:BB:25:LYS:CE	2:BB:193:ASP:OD2	2.69	0.41
3:BC:32:LEU:O	3:BC:35:ASP:HB2	2.20	0.41
4:BD:7:LYS:HZ3	4:BD:21:LYS:HD2	1.86	0.41
4:BD:187:ARG:HH12	4:BD:191:SER:CB	2.34	0.41
5:BE:136:VAL:HG23	5:BE:140:ILE:HD11	2.02	0.41
8:BH:17:GLN:HE21	8:BH:71:VAL:HG23	1.86	0.41
10:BJ:56:HIS:C	10:BJ:57:VAL:O	2.64	0.41
11:BK:23:HIS:O	11:BK:29:THR:HA	2.20	0.41
11:BK:40:ALA:C	11:BK:41:LEU:HD23	2.46	0.41
11:BK:45:THR:O	11:BK:48:GLY:N	2.54	0.41
13:BM:10:ASP:OD1	13:BM:11:HIS:N	2.53	0.41
13:BM:39:ALA:HB3	13:BM:42:VAL:HG13	2.02	0.41
13:BM:51:GLN:O	13:BM:55:LEU:CD1	2.68	0.41
15:BO:2:LEU:HD12	15:BO:2:LEU:HA	1.87	0.41
16:BP:42:ILE:O	16:BP:43:ALA:C	2.64	0.41
17:BQ:51:GLU:O	17:BQ:52:CYS:O	2.38	0.41
20:BT:29:THR:HA	20:BT:32:LYS:HG2	2.04	0.41
21:BU:33:ARG:HD3	21:BU:34:ARG:CB	2.50	0.41
22:BV:5:G:N3	22:BV:69:G:N2	2.68	0.41
25:CA:125:A:C6	53:C2:10:LEU:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:153:U:O5'	25:CA:153:U:H6	2.04	0.41
25:CA:513:A:C2	25:CA:514:A:C4	3.09	0.41
25:CA:557:C:C2	25:CA:558:U:C5	3.09	0.41
25:CA:614:A:H8	25:CA:614:A:H5'	1.86	0.41
25:CA:706:A:H2'	25:CA:707:G:O4'	2.21	0.41
25:CA:828:U:O2'	25:CA:829:A:H5'	2.21	0.41
25:CA:842:U:C2'	25:CA:843:G:H5'	2.51	0.41
25:CA:1450:G:H21	25:CA:1452:G:H1	1.68	0.41
25:CA:1628:G:C2'	25:CA:1629:U:O5'	2.69	0.41
25:CA:1744:A:H2'	25:CA:1744:A:N3	2.35	0.41
25:CA:1805:A:H1'	27:CC:49:THR:O	2.21	0.41
25:CA:1843:C:H2'	25:CA:1844:C:C6	2.56	0.41
25:CA:1947:C:N3	25:CA:1960:A:C2	2.89	0.41
25:CA:1982:U:O2	25:CA:1982:U:H2'	2.21	0.41
25:CA:2002:G:OP1	38:CN:13:ASN:HA	2.21	0.41
25:CA:2070:A:H2'	25:CA:2071:A:O4'	2.21	0.41
25:CA:2072:C:H6	25:CA:2072:C:H5"	1.86	0.41
25:CA:2191:A:C2	25:CA:2192:U:C6	3.09	0.41
25:CA:2278:A:H8	25:CA:2278:A:H5"	1.86	0.41
25:CA:2297:A:C6	25:CA:2298:A:C8	3.09	0.41
25:CA:2687:U:H2'	25:CA:2688:G:O4'	2.20	0.41
26:CB:55:U:O2	26:CB:55:U:C2'	2.60	0.41
26:CB:73:A:C5	26:CB:104:A:C2	3.09	0.41
27:CC:13:ARG:HG2	27:CC:14:HIS:CD2	2.56	0.41
27:CC:142:ASN:H	27:CC:154:ALA:HB3	1.85	0.41
30:CF:91:ARG:O	30:CF:94:ARG:HG3	2.21	0.41
32:CH:52:ALA:O	32:CH:56:ALA:HB3	2.21	0.41
32:CH:69:ALA:HB1	32:CH:138:VAL:HG12	2.04	0.41
33:CI:24:GLY:HA3	33:CI:25:PRO:HD3	1.99	0.41
34:CJ:98:GLU:CD	34:CJ:126:ALA:HB2	2.45	0.41
38:CN:1:MET:HE2	38:CN:1:MET:HB3	1.95	0.41
39:CO:42:PRO:C	39:CO:44:GLY:N	2.78	0.41
39:CO:83:LEU:C	39:CO:85:LYS:N	2.78	0.41
40:CP:90:ALA:HB2	40:CP:112:ARG:HA	2.02	0.41
42:CR:67:GLY:C	42:CR:93:PHE:CE2	2.99	0.41
45:CU:13:LEU:HA	45:CU:13:LEU:HD23	1.89	0.41
46:CV:83:LYS:HB2	46:CV:83:LYS:HE3	1.94	0.41
49:CY:55:THR:O	49:CY:56:LEU:C	2.62	0.41
53:C2:35:ARG:O	53:C2:36:ALA:C	2.62	0.41
25:DA:476:G:H4'	25:DA:502:A:N1	2.36	0.41
25:DA:617:G:H2'	25:DA:618:G:O5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1113:U:H2'	25:DA:1114:C:H6	1.84	0.41
25:DA:1257:C:H4'	29:DE:78:TRP:CD2	2.56	0.41
25:DA:1300:G:N3	25:DA:1626:A:C6	2.88	0.41
25:DA:1326:U:C2	25:DA:1648:U:O2'	2.73	0.41
25:DA:1668:A:H4'	25:DA:1669:A:O5'	2.21	0.41
25:DA:1782:U:C4	25:DA:2587:A:C2	3.09	0.41
25:DA:2035:G:H4'	25:DA:2036:C:OP2	2.21	0.41
25:DA:2043:C:H2'	25:DA:2044:C:C6	2.56	0.41
25:DA:2070:A:N3	25:DA:2070:A:C2'	2.82	0.41
25:DA:2201:G:O6	25:DA:2223:G:C6	2.74	0.41
25:DA:2217:G:O2'	25:DA:2218:G:H5'	2.21	0.41
25:DA:2259:U:C6	25:DA:2427:C:C4	3.09	0.41
25:DA:2468:A:H2'	25:DA:2476:A:C6	2.56	0.41
25:DA:2769:U:C4	25:DA:2770:G:C5	3.09	0.41
25:DA:2816:G:C2'	25:DA:2817:U:O5'	2.69	0.41
56:DB:36:C:H5"	56:DB:37:C:OP2	2.20	0.41
27:DC:64:VAL:CG1	27:DC:65:ASP:N	2.83	0.41
27:DC:261:ARG:HG2	27:DC:262:THR:CG2	2.48	0.41
30:DF:69:ALA:O	30:DF:70:ARG:C	2.62	0.41
32:DH:40:THR:O	32:DH:42:LYS:CA	2.69	0.41
32:DH:46:PHE:O	32:DH:49:ALA:HB3	2.21	0.41
34:DJ:59:ALA:H	34:DJ:126:ALA:HA	1.86	0.41
43:DS:82:MET:HB2	43:DS:98:LYS:HB2	2.03	0.41
46:DV:20:LEU:HD23	46:DV:20:LEU:C	2.46	0.41
48:DX:62:GLY:O	48:DX:63:ILE:C	2.63	0.41
51:D0:24:VAL:C	51:D0:25:THR:HG1	2.14	0.41
54:D3:42:HIS:O	54:D3:45:PRO:HG2	2.20	0.41
1:AA:495:A:H4'	1:AA:496:A:O4'	2.20	0.40
1:AA:614:C:C4	1:AA:615:G:N7	2.89	0.40
1:AA:749:A:C6	1:AA:750:C:C4	3.09	0.40
1:AA:755:G:H2'	1:AA:756:C:H6	1.87	0.40
1:AA:840:C:H6	1:AA:840:C:O5'	2.04	0.40
1:AA:840:C:N3	1:AA:846:G:O6	2.54	0.40
1:AA:977:A:H3'	1:AA:977:A:N3	2.37	0.40
1:AA:1035:A:C8	1:AA:1035:A:OP2	2.74	0.40
1:AA:1236:A:O2'	1:AA:1304:G:H4'	2.21	0.40
1:AA:1394:A:N6	1:AA:1501:C:H5'	2.36	0.40
1:AA:1492:A:C8	1:AA:1492:A:OP2	2.74	0.40
2:AB:206:ILE:HD13	2:AB:206:ILE:N	2.36	0.40
2:AB:209:VAL:C	2:AB:211:LEU:N	2.77	0.40
3:AC:82:ASP:C	3:AC:84:GLU:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:141:VAL:HG23	4:AD:141:VAL:O	2.20	0.40
4:AD:147:LYS:HD3	4:AD:147:LYS:N	2.33	0.40
4:AD:196:GLU:C	4:AD:198:LEU:H	2.29	0.40
4:AD:202:LEU:C	4:AD:204:SER:H	2.28	0.40
5:AE:131:ASN:O	5:AE:135:VAL:HG12	2.22	0.40
6:AF:45:ARG:HB3	6:AF:59:TYR:CD1	2.55	0.40
7:AG:90:VAL:O	7:AG:91:ARG:C	2.63	0.40
9:AI:19:PHE:O	9:AI:62:LEU:HA	2.21	0.40
9:AI:20:ILE:CD1	9:AI:85:ALA:CB	2.99	0.40
9:AI:102:PHE:CD1	9:AI:102:PHE:N	2.87	0.40
9:AI:105:ARG:HD2	9:AI:105:ARG:C	2.45	0.40
11:AK:35:ASP:OD2	11:AK:35:ASP:C	2.62	0.40
12:AL:27:PRO:HG2	12:AL:28:GLN:OE1	2.21	0.40
14:AN:53:ARG:HG2	14:AN:53:ARG:HH11	1.86	0.40
17:AQ:47:ASP:HB2	17:AQ:74:LEU:HD21	2.02	0.40
19:AS:54:ARG:HH21	19:AS:55:GLN:CB	2.34	0.40
21:AU:8:ASN:OD1	21:AU:8:ASN:N	2.53	0.40
1:BA:156:C:C4	1:BA:157:U:C4	3.09	0.40
1:BA:189:A:H2'	1:BA:190:A:H5'	2.04	0.40
1:BA:202:G:H2'	1:BA:203:G:O4'	2.21	0.40
1:BA:322:C:O3'	20:BT:17:ARG:CG	2.69	0.40
1:BA:542:G:C2	1:BA:543:U:C5	3.10	0.40
1:BA:657:U:O2	15:BO:21:THR:CG2	2.68	0.40
1:BA:738:C:H2'	1:BA:739:C:C5	2.54	0.40
1:BA:844:G:OP2	1:BA:844:G:C5	2.74	0.40
1:BA:1013:G:N2	1:BA:1017:U:C2	2.90	0.40
1:BA:1089:G:N2	1:BA:1090:U:H1'	2.35	0.40
1:BA:1239:A:N6	1:BA:1299:A:N6	2.70	0.40
1:BA:1319:A:H5'	19:BS:4:LEU:HD13	2.03	0.40
1:BA:1486:G:C2	1:BA:1487:G:N3	2.89	0.40
1:BA:1524:C:O5'	1:BA:1524:C:H6	2.03	0.40
2:BB:98:GLY:O	2:BB:100:LEU:C	2.65	0.40
2:BB:133:ALA:O	2:BB:134:LEU:C	2.63	0.40
2:BB:210:THR:O	2:BB:211:LEU:C	2.64	0.40
4:BD:114:ARG:C	4:BD:116:LEU:N	2.78	0.40
5:BE:98:ALA:O	5:BE:99:SER:C	2.64	0.40
6:BF:40:GLU:CB	6:BF:42:TRP:HE1	2.34	0.40
6:BF:52:ASN:O	6:BF:53:LYS:HB2	2.21	0.40
6:BF:73:GLU:O	6:BF:73:GLU:HG2	2.17	0.40
7:BG:87:PRO:HB3	7:BG:144:ALA:HB2	2.03	0.40
9:BI:13:SER:O	9:BI:68:GLY:HA3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:BI:33:SER:HB3	9:BI:36:GLN:NE2	2.37	0.40
9:BI:46:VAL:O	9:BI:49:GLN:HB2	2.21	0.40
11:BK:104:PHE:O	11:BK:105:ARG:C	2.61	0.40
12:BL:62:VAL:HG23	12:BL:63:THR:N	2.36	0.40
14:BN:64:CYS:C	14:BN:66:GLN:N	2.78	0.40
16:BP:79:ASN:CG	16:BP:82:ALA:HB3	2.46	0.40
19:BS:9:PHE:CD1	19:BS:10:ILE:N	2.90	0.40
21:BU:14:ALA:C	21:BU:15:LEU:CG	2.94	0.40
25:CA:135:U:O5'	25:CA:135:U:H6	2.04	0.40
25:CA:162:U:O4	25:CA:2218:G:H4'	2.20	0.40
25:CA:729:G:C5	27:CC:206:LYS:HB2	2.56	0.40
25:CA:838:C:O2'	25:CA:839:U:H5'	2.21	0.40
25:CA:1059:G:C2'	33:CI:131:THR:OG1	2.69	0.40
25:CA:1091:G:O2'	25:CA:1092:C:H5	2.04	0.40
25:CA:1234:U:H3'	25:CA:1234:U:C6	2.56	0.40
25:CA:1446:C:H6	25:CA:1446:C:O5'	2.04	0.40
25:CA:1478:G:C6	25:CA:1514:G:C2	3.09	0.40
25:CA:1490:A:O2'	25:CA:1491:G:H5'	2.21	0.40
25:CA:1569:A:C6	25:CA:1570:A:C6	3.09	0.40
25:CA:1613:G:N2	25:CA:1619:G:C4	2.89	0.40
25:CA:1724:G:H2'	25:CA:1725:U:H5'	2.02	0.40
25:CA:2056:G:N3	25:CA:2056:G:C2'	2.84	0.40
25:CA:2163:A:H5'	25:CA:2170:A:O2'	2.21	0.40
25:CA:2189:U:H2'	25:CA:2190:G:C8	2.56	0.40
25:CA:2207:C:C2'	25:CA:2208:C:O5'	2.68	0.40
25:CA:2312:U:C3'	25:CA:2312:U:C6	3.03	0.40
25:CA:2401:U:H6	25:CA:2401:U:O5'	2.03	0.40
25:CA:2443:C:O2'	25:CA:2444:G:H5'	2.21	0.40
25:CA:2619:C:H4'	28:CD:156:PHE:O	2.21	0.40
25:CA:2722:G:C2'	25:CA:2723:C:H5'	2.51	0.40
25:CA:2760:C:O2	25:CA:2760:C:H2'	2.21	0.40
25:CA:2807:U:C2'	25:CA:2808:G:H5'	2.51	0.40
27:CC:69:ASN:O	27:CC:70:LYS:C	2.64	0.40
27:CC:75:ALA:HB2	27:CC:95:TYR:HA	2.03	0.40
27:CC:146:LYS:O	27:CC:149:LYS:HB3	2.21	0.40
34:CJ:92:MET:HE3	34:CJ:92:MET:HB3	1.96	0.40
36:CL:109:LYS:C	36:CL:111:ILE:HD12	2.46	0.40
37:CM:130:PHE:CD2	37:CM:130:PHE:C	2.98	0.40
38:CN:3:HIS:O	38:CN:4:ARG:HB2	2.21	0.40
38:CN:23:ASN:O	38:CN:25:ALA:N	2.54	0.40
39:CO:41:ALA:HB1	39:CO:42:PRO:CD	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CU:39:ASN:HD22	45:CU:62:ALA:HB3	1.86	0.40
45:CU:53:GLN:H	45:CU:54:PRO:HD3	1.83	0.40
51:C0:52:LYS:HE2	51:C0:55:ALA:CB	2.50	0.40
51:C0:52:LYS:CE	51:C0:55:ALA:HB2	2.51	0.40
25:DA:84:A:H4'	25:DA:85:G:O5'	2.21	0.40
25:DA:371:A:N3	48:DX:60:LYS:NZ	2.69	0.40
25:DA:419:U:H5"	60:DA:3232:HOH:O	2.21	0.40
25:DA:511:U:H5"	25:DA:512:G:OP2	2.21	0.40
25:DA:659:G:C4'	29:DE:95:LYS:HD3	2.51	0.40
25:DA:1010:A:N3	25:DA:1153:C:H1'	2.36	0.40
25:DA:1069:A:O3'	25:DA:1070:A:H8	2.04	0.40
25:DA:1095:A:C6	25:DA:1096:A:C2	3.09	0.40
25:DA:1542:U:O2'	25:DA:1543:G:C5'	2.68	0.40
25:DA:1644:C:O2	25:DA:1644:C:C2'	2.66	0.40
25:DA:1734:G:C5	25:DA:1735:A:N7	2.89	0.40
25:DA:1756:G:C8	25:DA:1756:G:H3'	2.56	0.40
25:DA:1760:C:C5	25:DA:1761:C:C4	3.10	0.40
25:DA:1792:G:O2'	25:DA:1793:C:H5'	2.20	0.40
25:DA:1862:G:C2	25:DA:1881:C:C2	3.09	0.40
25:DA:1867:G:C5	25:DA:1868:C:C5	3.09	0.40
25:DA:1996:C:H5	35:DK:32:TYR:OH	2.04	0.40
25:DA:2100:G:C6	25:DA:2190:G:C6	3.08	0.40
25:DA:2215:C:O2'	25:DA:2216:G:H5'	2.21	0.40
25:DA:2334:U:O3'	39:DO:13:ARG:HB2	2.21	0.40
25:DA:2545:G:C2'	25:DA:2546:U:H5'	2.51	0.40
25:DA:2661:G:N1	25:DA:2662:A:N3	2.69	0.40
25:DA:2683:C:C6	25:DA:2684:U:H5	2.39	0.40
56:DB:49:C:OP1	39:DO:102:ARG:N	2.53	0.40
27:DC:194:VAL:HG23	27:DC:195:GLY:N	2.35	0.40
27:DC:234:GLY:O	27:DC:235:GLU:HB2	2.20	0.40
29:DE:18:THR:HG22	29:DE:19:PHE:CE2	2.56	0.40
30:DF:100:GLU:O	30:DF:102:LEU:C	2.63	0.40
30:DF:147:ARG:HG3	30:DF:149:ARG:H	1.86	0.40
31:DG:117:PRO:O	31:DG:118:ALA:C	2.64	0.40
31:DG:174:LYS:HG2	31:DG:175:LYS:N	2.36	0.40
32:DH:75:LEU:HD23	32:DH:75:LEU:HA	1.75	0.40
33:DI:30:GLN:OE1	33:DI:32:VAL:HB	2.21	0.40
34:DJ:103:ILE:HG22	34:DJ:104:ALA:N	2.35	0.40
36:DL:92:LEU:HD21	36:DL:124:GLY:HA3	2.03	0.40
38:DN:9:GLN:O	38:DN:17:ARG:NH2	2.54	0.40
38:DN:29:VAL:HG11	38:DN:75:ILE:HG23	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DN:41:ALA:C	38:DN:43:GLU:N	2.79	0.40
40:DP:61:ARG:HH21	40:DP:61:ARG:HG3	1.87	0.40
41:DQ:110:GLU:C	41:DQ:112:ALA:N	2.75	0.40
42:DR:51:VAL:CB	42:DR:52:PRO:CD	2.94	0.40
43:DS:28:LYS:HD3	43:DS:31:GLN:OE1	2.22	0.40
48:DX:7:THR:OG1	48:DX:9:LYS:HD2	2.21	0.40
1:AA:16:A:C2	1:AA:920:U:O2	2.74	0.40
1:AA:32:A:H2'	1:AA:33:A:C8	2.56	0.40
1:AA:60:A:C2	1:AA:107:G:N3	2.88	0.40
1:AA:186:C:H2'	1:AA:187:G:O4'	2.20	0.40
1:AA:389:A:C3'	1:AA:390:U:H5'	2.51	0.40
1:AA:720:C:H3'	1:AA:721:G:C8	2.56	0.40
1:AA:1118:U:O3'	9:AI:84:ARG:NH2	2.54	0.40
1:AA:1165:U:H2'	1:AA:1166:G:O4'	2.22	0.40
1:AA:1216:A:C6	1:AA:1217:C:C4	3.09	0.40
1:AA:1216:A:C4	1:AA:1217:C:H5	2.36	0.40
1:AA:1312:G:C2	1:AA:1326:U:N3	2.89	0.40
2:AB:88:GLN:C	2:AB:89:PHE:HD2	2.26	0.40
4:AD:154:VAL:HA	4:AD:157:ALA:HB3	2.03	0.40
4:AD:170:LEU:HD12	4:AD:170:LEU:H	1.87	0.40
5:AE:15:ILE:HD11	5:AE:37:VAL:HB	2.03	0.40
6:AF:49:TYR:HA	6:AF:50:PRO:HD3	1.82	0.40
7:AG:49:LEU:CD1	7:AG:60:ALA:CB	2.99	0.40
8:AH:5:PRO:O	8:AH:8:ASP:N	2.55	0.40
8:AH:19:ALA:O	8:AH:20:ASN:HB2	2.21	0.40
9:AI:18:VAL:O	9:AI:18:VAL:HG12	2.21	0.40
11:AK:96:ILE:O	11:AK:99:LEU:N	2.53	0.40
11:AK:98:ALA:O	11:AK:101:ALA:HB3	2.21	0.40
11:AK:123:PRO:O	11:AK:124:LYS:C	2.64	0.40
12:AL:86:VAL:O	12:AL:88:ASP:N	2.54	0.40
14:AN:11:LYS:O	14:AN:12:ARG:C	2.62	0.40
16:AP:46:LYS:HE2	16:AP:47:GLU:H	1.86	0.40
16:AP:56:ARG:O	16:AP:57:ILE:C	2.64	0.40
18:AR:62:ARG:HB3	18:AR:69:TYR:CZ	2.56	0.40
1:BA:255:G:H2'	1:BA:256:U:C6	2.56	0.40
1:BA:293:G:C6	1:BA:305:G:N1	2.90	0.40
1:BA:457:G:N2	1:BA:476:U:C2	2.89	0.40
1:BA:734:G:H2'	1:BA:735:C:H6	1.87	0.40
1:BA:736:C:OP1	18:BR:60:ARG:NH1	2.54	0.40
1:BA:740:U:O2'	1:BA:741:G:C5'	2.69	0.40
1:BA:977:A:C1'	1:BA:982:U:O4	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:984:C:H2'	1:BA:985:C:H6	1.86	0.40
1:BA:1074:G:C2	1:BA:1102:A:C4	3.09	0.40
1:BA:1131:G:N7	1:BA:1132:C:C5	2.90	0.40
1:BA:1505:G:C2'	23:BX:15:A:OP2	2.69	0.40
2:BB:84:LEU:HD12	2:BB:84:LEU:C	2.46	0.40
2:BB:136:ARG:O	2:BB:139:GLU:CG	2.69	0.40
3:BC:6:PRO:HB3	3:BC:181:ILE:HG21	2.04	0.40
3:BC:11:LEU:HD13	3:BC:17:TRP:CE2	2.56	0.40
3:BC:150:VAL:O	3:BC:166:TRP:HA	2.21	0.40
4:BD:114:ARG:O	4:BD:116:LEU:N	2.55	0.40
4:BD:186:GLU:CB	4:BD:189:ASP:OD1	2.69	0.40
5:BE:35:LEU:HA	5:BE:35:LEU:HD12	1.73	0.40
6:BF:88:MET:SD	6:BF:90:MET:HE2	2.61	0.40
6:BF:92:THR:O	6:BF:93:LYS:C	2.63	0.40
7:BG:45:ALA:CA	7:BG:120:ALA:HB2	2.50	0.40
9:BI:14:SER:HA	9:BI:68:GLY:C	2.46	0.40
10:BJ:9:ARG:C	10:BJ:10:LEU:HD12	2.47	0.40
10:BJ:89:ARG:O	10:BJ:90:LEU:HG	2.20	0.40
15:BO:44:GLU:HB3	15:BO:45:HIS:CD2	2.56	0.40
17:BQ:11:VAL:O	17:BQ:12:VAL:HG12	2.20	0.40
20:BT:79:THR:O	20:BT:82:ILE:N	2.55	0.40
25:CA:170:U:H2'	25:CA:171:U:H6	1.86	0.40
25:CA:359:G:C2'	25:CA:360:U:H5'	2.50	0.40
25:CA:528:A:N1	25:CA:2043:C:O5'	2.54	0.40
25:CA:666:A:C4	25:CA:667:U:C5	3.09	0.40
25:CA:842:U:O2'	25:CA:843:G:H5'	2.21	0.40
25:CA:1166:G:N2	25:CA:1184:U:H1'	2.35	0.40
25:CA:1261:C:C2'	25:CA:1262:A:O5'	2.70	0.40
25:CA:1373:A:H2'	25:CA:1374:G:O5'	2.20	0.40
25:CA:1432:G:O2'	25:CA:1433:A:H5'	2.22	0.40
25:CA:1584:U:O2	25:CA:1584:U:C2'	2.68	0.40
25:CA:1735:A:C2	25:CA:1736:U:C6	3.09	0.40
25:CA:1748:C:C2	25:CA:1749:A:C8	3.09	0.40
25:CA:1875:G:O2'	25:CA:1876:A:O5'	2.36	0.40
25:CA:2142:A:C2	25:CA:2150:C:N3	2.89	0.40
25:CA:2204:G:O5'	27:CC:149:LYS:HE3	2.21	0.40
26:CB:86:G:N7	26:CB:88:C:C4	2.89	0.40
28:CD:103:ASP:C	28:CD:104:VAL:HG22	2.45	0.40
30:CF:8:LYS:O	30:CF:9:ASP:C	2.65	0.40
30:CF:41:GLU:C	30:CF:43:ILE:H	2.29	0.40
31:CG:86:LEU:HD12	31:CG:86:LEU:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CH:31:VAL:HG12	32:CH:32:PRO:N	2.37	0.40
32:CH:72:ILE:HD12	32:CH:140:ALA:CB	2.51	0.40
33:CI:101:SER:OG	33:CI:102:ARG:N	2.55	0.40
37:CM:2:LEU:HD22	37:CM:2:LEU:H	1.86	0.40
37:CM:59:ARG:O	37:CM:60:GLN:HG2	2.21	0.40
37:CM:109:PRO:O	37:CM:112:LEU:N	2.54	0.40
41:CQ:78:PHE:CE2	41:CQ:82:LEU:HD11	2.55	0.40
42:CR:49:ILE:CB	42:CR:52:PRO:C	2.91	0.40
48:CX:38:TRP:HE3	48:CX:45:PHE:CD2	2.40	0.40
25:DA:282:A:C4	25:DA:283:G:C8	3.08	0.40
25:DA:294:A:N6	25:DA:345:A:C4	2.89	0.40
25:DA:428:A:H2'	25:DA:429:A:O4'	2.21	0.40
25:DA:528:A:C2'	25:DA:529:A:O5'	2.69	0.40
25:DA:645:C:O2'	25:DA:646:U:C5'	2.69	0.40
25:DA:648:G:H2'	25:DA:649:G:H8	1.86	0.40
25:DA:812:C:N3	25:DA:813:U:C5	2.89	0.40
25:DA:819:A:C2'	25:DA:820:A:O5'	2.65	0.40
25:DA:860:U:C6	25:DA:2268:A:O4'	2.74	0.40
25:DA:900:A:C4	25:DA:901:C:C6	3.09	0.40
25:DA:1011:G:C2	25:DA:1151:A:C2	3.10	0.40
25:DA:1081:U:C5'	25:DA:1082:U:OP2	2.69	0.40
25:DA:1176:U:C4	25:DA:1177:G:O6	2.74	0.40
25:DA:1195:G:N3	25:DA:1226:A:H2	2.19	0.40
25:DA:1373:A:H2'	25:DA:1374:G:O4'	2.22	0.40
25:DA:1465:G:N1	25:DA:1466:U:N3	2.69	0.40
25:DA:1486:U:H2'	25:DA:1487:U:C6	2.56	0.40
25:DA:1629:U:O2	25:DA:2698:U:C5'	2.69	0.40
25:DA:1790:C:O5'	25:DA:1790:C:H6	2.04	0.40
25:DA:1964:G:H4'	25:DA:1965:C:OP2	2.21	0.40
25:DA:2110:G:H5'	25:DA:2118:U:O2	2.20	0.40
25:DA:2195:U:O2	25:DA:2196:C:C6	2.74	0.40
25:DA:2286:G:OP1	52:D1:29:LYS:CE	2.63	0.40
25:DA:2329:U:H2'	25:DA:2330:G:O4'	2.21	0.40
25:DA:2331:G:H2'	25:DA:2336:A:N1	2.36	0.40
25:DA:2382:G:N2	54:D3:41:ARG:NH2	2.70	0.40
25:DA:2636:C:H4'	28:DD:81:GLU:CD	2.46	0.40
25:DA:2765:A:N3	25:DA:2765:A:C2'	2.85	0.40
25:DA:2779:U:O4'	25:DA:2781:A:C5	2.74	0.40
25:DA:2810:A:H2'	25:DA:2811:G:O4'	2.21	0.40
25:DA:2824:C:C4	25:DA:2825:G:C5	3.08	0.40
25:DA:2860:A:C8	25:DA:2861:U:C6	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DC:199:HIS:O	27:DC:202:ARG:HG2	2.22	0.40
28:DD:49:GLN:HA	28:DD:81:GLU:HA	2.04	0.40
29:DE:171:ASP:OD1	29:DE:172:ALA:N	2.55	0.40
30:DF:37:MET:CG	30:DF:56:LEU:HD11	2.51	0.40
32:DH:14:SER:C	32:DH:15:LEU:HD23	2.46	0.40
33:DI:72:THR:HG1	33:DI:115:ASP:CG	2.30	0.40
35:DK:10:VAL:HG12	35:DK:12:ASP:OD1	2.22	0.40
35:DK:34:GLY:O	35:DK:36:GLY:N	2.54	0.40
36:DL:103:ILE:HD13	36:DL:103:ILE:N	2.35	0.40
38:DN:1:MET:O	38:DN:2:ARG:C	2.63	0.40
38:DN:8:ARG:HB2	38:DN:43:GLU:CD	2.45	0.40
38:DN:51:LEU:O	38:DN:54:LEU:HB3	2.21	0.40
39:DO:109:ALA:HA	39:DO:112:GLU:HB2	2.04	0.40
41:DQ:85:ALA:O	41:DQ:86:SER:CB	2.69	0.40
44:DT:37:ASP:CG	44:DT:38:ALA:H	2.29	0.40
49:DY:9:LYS:HG2	49:DY:11:VAL:H	1.86	0.40
50:DZ:44:ARG:HA	50:DZ:44:ARG:HD2	1.74	0.40
1:AA:78:A:N6	1:AA:79:G:C2	2.89	0.40
1:AA:295:C:C2	1:AA:296:U:C6	3.09	0.40
1:AA:369:G:H2'	1:AA:370:C:H6	1.86	0.40
1:AA:430:A:OP1	4:AD:8:LEU:HB2	2.21	0.40
1:AA:720:C:H1'	18:AR:38:ILE:HG21	2.03	0.40
1:AA:987:G:N3	1:AA:1219:A:C2	2.89	0.40
1:AA:1000:A:C2	1:AA:1041:G:N2	2.89	0.40
1:AA:1023:U:C2'	1:AA:1024:G:O4'	2.68	0.40
1:AA:1033:G:N2	1:AA:1034:G:O4'	2.54	0.40
1:AA:1048:G:P	60:AA:1783:HOH:O	2.79	0.40
1:AA:1144:G:N1	1:AA:1145:A:H2	2.19	0.40
1:AA:1315:U:C4	1:AA:1316:G:C6	3.09	0.40
2:AB:117:GLU:O	2:AB:120:SER:HB3	2.21	0.40
2:AB:142:LYS:O	2:AB:144:GLU:N	2.54	0.40
3:AC:113:LYS:O	3:AC:117:ASP:OD2	2.39	0.40
4:AD:128:VAL:O	4:AD:128:VAL:HG13	2.22	0.40
5:AE:67:ARG:O	5:AE:68:ARG:O	2.40	0.40
5:AE:96:GLN:HB2	5:AE:123:LEU:HD12	2.04	0.40
7:AG:39:GLU:C	7:AG:41:ILE:H	2.29	0.40
7:AG:67:ASN:OD1	7:AG:129:ASN:HB3	2.21	0.40
7:AG:96:ASN:O	7:AG:100:MET:HG3	2.21	0.40
9:AI:41:GLU:O	9:AI:44:ARG:NH1	2.52	0.40
13:AM:19:THR:HB	13:AM:25:GLY:HA2	2.02	0.40
13:AM:30:LYS:HE3	13:AM:30:LYS:HB3	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:53:ARG:C	14:AN:55:SER:N	2.79	0.40
16:AP:46:LYS:HD3	16:AP:46:LYS:C	2.46	0.40
18:AR:71:ASP:O	18:AR:73:HIS:N	2.54	0.40
21:AU:21:SER:C	21:AU:22:CYS:SG	3.04	0.40
21:AU:33:ARG:HH21	21:AU:34:ARG:HG3	1.85	0.40
21:AU:46:ARG:C	21:AU:48:LYS:N	2.80	0.40
1:BA:64:G:H2'	1:BA:64:G:O5'	2.21	0.40
1:BA:109:A:C6	1:BA:326:G:C6	3.10	0.40
1:BA:708:C:H2'	1:BA:709:U:H6	1.84	0.40
1:BA:739:C:H2'	1:BA:740:U:O5'	2.21	0.40
1:BA:781:A:N6	1:BA:802:A:H1'	2.35	0.40
1:BA:1061:G:H8	1:BA:1061:G:O5'	2.05	0.40
1:BA:1061:G:C5	1:BA:1062:U:C5	3.09	0.40
1:BA:1081:A:C2	1:BA:1082:A:C4	3.10	0.40
1:BA:1129:C:C2	1:BA:1139:G:C6	3.09	0.40
1:BA:1244:G:N2	1:BA:1294:G:N3	2.70	0.40
1:BA:1415:G:C2	1:BA:1486:G:C4	3.08	0.40
2:BB:9:LEU:CD2	2:BB:11:ALA:HB3	2.51	0.40
2:BB:134:LEU:HD23	2:BB:135:MET:SD	2.61	0.40
4:BD:74:TYR:O	4:BD:75:TYR:C	2.62	0.40
4:BD:168:THR:HG21	4:BD:183:ARG:NH2	2.36	0.40
5:BE:73:VAL:O	5:BE:75:LEU:CD1	2.69	0.40
5:BE:132:PRO:HA	5:BE:135:VAL:CG1	2.51	0.40
6:BF:55:HIS:ND1	6:BF:55:HIS:N	2.66	0.40
7:BG:125:ASP:HB3	7:BG:130:LYS:CG	2.52	0.40
10:BJ:25:ILE:HG21	10:BJ:74:VAL:HG21	2.04	0.40
11:BK:14:GLN:HE21	11:BK:15:VAL:N	2.19	0.40
11:BK:51:PHE:HB2	11:BK:55:ARG:HB2	2.03	0.40
11:BK:109:ILE:CG2	21:BU:16:ARG:CD	2.99	0.40
11:BK:125:LYS:O	11:BK:126:ARG:HG3	2.21	0.40
12:BL:60:PHE:N	12:BL:60:PHE:CD1	2.90	0.40
14:BN:15:LEU:HB3	14:BN:55:SER:CA	2.47	0.40
20:BT:27:MET:SD	20:BT:60:GLN:HG3	2.61	0.40
21:BU:7:GLU:C	21:BU:11:PHE:CE2	2.99	0.40
25:CA:220:G:O2'	25:CA:233:A:N3	2.49	0.40
25:CA:443:A:H2	25:CA:1245:G:N3	2.19	0.40
25:CA:544:C:C5	25:CA:545:U:C6	3.09	0.40
25:CA:664:G:H2'	25:CA:665:U:H5'	2.03	0.40
25:CA:677:A:O2'	25:CA:2071:A:H5'	2.21	0.40
25:CA:686:U:H2'	25:CA:788:A:C2	2.56	0.40
25:CA:710:U:H6	25:CA:710:U:O5'	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:771:G:C6	25:CA:772:C:N4	2.89	0.40
25:CA:1415:U:C4	25:CA:1587:G:O6	2.74	0.40
25:CA:1701:A:H2'	25:CA:1702:G:H5'	2.02	0.40
25:CA:1752:C:H5'	25:CA:2861:U:O3'	2.21	0.40
25:CA:1827:U:O2'	25:CA:1828:G:H5'	2.21	0.40
25:CA:2095:A:H5'	25:CA:2096:C:OP2	2.21	0.40
25:CA:2392:A:C2	25:CA:2393:U:C2	3.09	0.40
26:CB:38:C:C6	26:CB:38:C:C3'	3.04	0.40
26:CB:73:A:C8	26:CB:104:A:C6	3.09	0.40
27:CC:35:LYS:HG2	27:CC:36:ASN:N	2.36	0.40
27:CC:100:ARG:HG3	27:CC:100:ARG:HH11	1.87	0.40
27:CC:106:PRO:HD2	27:CC:109:LEU:HD22	2.02	0.40
27:CC:201:LEU:O	27:CC:202:ARG:C	2.64	0.40
28:CD:40:LEU:H	28:CD:40:LEU:HG	1.72	0.40
28:CD:99:GLU:CG	28:CD:182:ALA:HB2	2.52	0.40
30:CF:48:LEU:O	30:CF:51:ASN:CB	2.69	0.40
30:CF:121:PHE:CE2	30:CF:127:TYR:HD1	2.39	0.40
31:CG:25:ILE:O	31:CG:78:VAL:HG21	2.22	0.40
31:CG:59:ASP:O	31:CG:60:GLY:C	2.65	0.40
32:CH:51:ARG:HB2	32:CH:52:ALA:H	1.77	0.40
33:CI:56:VAL:HA	33:CI:71:LYS:CE	2.49	0.40
36:CL:58:TYR:O	54:C3:12:ARG:CD	2.70	0.40
40:CP:13:LYS:NZ	40:CP:80:VAL:O	2.54	0.40
42:CR:40:MET:HE2	42:CR:48:LYS:HE2	2.03	0.40
49:CY:18:LEU:O	49:CY:22:LEU:HB3	2.21	0.40
49:CY:23:ARG:CA	49:CY:27:ASN:ND2	2.84	0.40
54:C3:56:LEU:O	54:C3:59:ALA:HB3	2.21	0.40
25:DA:10:A:C5	25:DA:11:C:C5	3.10	0.40
25:DA:13:A:H4'	25:DA:14:A:OP1	2.20	0.40
25:DA:55:G:C2	25:DA:56:A:N7	2.90	0.40
25:DA:151:C:H2'	25:DA:152:A:C8	2.57	0.40
25:DA:277:G:C2'	25:DA:278:A:OP2	2.69	0.40
25:DA:280:U:C2	25:DA:281:C:C5	3.09	0.40
25:DA:391:A:C5	25:DA:392:U:C5	3.09	0.40
25:DA:402:A:H8	25:DA:402:A:O5'	2.04	0.40
25:DA:494:G:OP1	43:DS:8:ARG:HD3	2.21	0.40
25:DA:600:G:C5	25:DA:601:C:C4	3.09	0.40
25:DA:1030:C:O2	25:DA:1030:C:C2'	2.65	0.40
25:DA:1059:G:C6	25:DA:1080:A:C2	3.08	0.40
25:DA:1084:A:H2'	25:DA:1085:A:C1'	2.51	0.40
25:DA:1087:G:N9	25:DA:1089:A:H1'	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1146:C:O2	25:DA:1146:C:C2'	2.65	0.40
25:DA:1364:G:H2'	25:DA:1365:A:H5'	2.02	0.40
25:DA:1796:U:H4'	27:DC:253:GLY:N	2.37	0.40
25:DA:1870:C:H5"	25:DA:1871:A:C4	2.56	0.40
25:DA:2019:A:H2'	25:DA:2020:A:O5'	2.21	0.40
25:DA:2019:A:C2'	25:DA:2020:A:O5'	2.69	0.40
25:DA:2470:G:O2'	25:DA:2471:A:H5'	2.20	0.40
25:DA:2531:A:C5	25:DA:2532:G:C5	3.10	0.40
25:DA:2660:A:C6	25:DA:2661:G:C5	3.09	0.40
25:DA:2751:G:H3'	25:DA:2752:C:C6	2.56	0.40
25:DA:2787:C:O2'	25:DA:2788:C:H5'	2.21	0.40
25:DA:2840:C:H5"	38:DN:53:THR:HG21	2.03	0.40
27:DC:7:PRO:HB3	27:DC:13:ARG:HA	2.01	0.40
27:DC:145:MET:HG3	27:DC:153:LEU:HD21	2.03	0.40
28:DD:185:ASN:O	28:DD:186:LEU:HD23	2.21	0.40
29:DE:72:SER:C	29:DE:74:LYS:N	2.76	0.40
29:DE:83:VAL:HG12	29:DE:86:ALA:HA	2.03	0.40
30:DF:109:ARG:HH21	30:DF:109:ARG:HG2	1.85	0.40
30:DF:168:LEU:O	30:DF:172:PHE:CE1	2.75	0.40
32:DH:9:VAL:HG11	32:DH:12:LEU:CD1	2.52	0.40
32:DH:63:ALA:CA	32:DH:66:ASN:HB2	2.51	0.40
34:DJ:31:GLU:O	34:DJ:32:LEU:C	2.64	0.40
35:DK:69:VAL:O	35:DK:69:VAL:CG2	2.69	0.40
38:DN:49:GLU:OE2	38:DN:95:THR:HG21	2.22	0.40
38:DN:79:LEU:O	38:DN:80:PHE:CB	2.69	0.40
40:DP:20:ARG:CB	40:DP:21:PRO:HD2	2.47	0.40
40:DP:23:ASP:OD2	40:DP:112:ARG:NH1	2.55	0.40
40:DP:105:LYS:HA	40:DP:108:ARG:HD3	2.03	0.40
42:DR:46:GLU:CD	42:DR:47:VAL:N	2.77	0.40
42:DR:74:ILE:HD12	42:DR:74:ILE:N	2.37	0.40
46:DV:24:ASN:O	46:DV:24:ASN:CG	2.63	0.40
46:DV:55:GLU:O	46:DV:59:GLU:HB2	2.21	0.40
48:DX:32:LEU:C	48:DX:33:HIS:CG	3.00	0.40
49:DY:45:GLN:HG3	49:DY:46:VAL:H	1.85	0.40
53:D2:43:THR:O	53:D2:44:VAL:HB	2.21	0.40
1:AA:69:G:H2'	1:AA:69:G:N3	2.35	0.40
1:AA:80:A:N3	1:AA:80:A:H2'	2.36	0.40
1:AA:181:A:C2	1:AA:194:C:N3	2.90	0.40
1:AA:476:U:O2	1:AA:476:U:H2'	2.20	0.40
1:AA:614:C:H2'	1:AA:615:G:O5'	2.21	0.40
1:AA:678:U:O2'	1:AA:679:C:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:932:C:N4	7:AG:2:ARG:HH22	2.20	0.40
1:AA:952:U:H2'	1:AA:953:G:H8	1.85	0.40
1:AA:958:A:C6	1:AA:959:A:N1	2.89	0.40
1:AA:1016:A:H3'	1:AA:1017:U:O4'	2.21	0.40
1:AA:1025:U:C5'	1:AA:1026:G:O5'	2.69	0.40
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.21	0.40
1:AA:1060:U:H1'	10:AJ:54:SER:HB2	2.02	0.40
1:AA:1471:U:C2'	1:AA:1472:U:O5'	2.70	0.40
2:AB:87:ASP:HB2	2:AB:220:VAL:HG12	2.03	0.40
3:AC:41:TYR:O	3:AC:42:LEU:C	2.65	0.40
3:AC:106:ARG:NH1	3:AC:107:LYS:O	2.54	0.40
3:AC:114:LEU:O	3:AC:115:VAL:C	2.64	0.40
4:AD:8:LEU:HA	4:AD:8:LEU:HD13	1.86	0.40
4:AD:155:LYS:HD3	4:AD:155:LYS:HA	1.92	0.40
4:AD:168:THR:CB	4:AD:183:ARG:NH2	2.84	0.40
6:AF:17:GLN:HE21	6:AF:17:GLN:CA	2.35	0.40
9:AI:43:ALA:C	9:AI:45:MET:SD	3.05	0.40
10:AJ:15:HIS:CG	10:AJ:16:ARG:N	2.86	0.40
10:AJ:36:VAL:HG23	10:AJ:76:ILE:HG23	2.03	0.40
11:AK:111:ASP:OD2	11:AK:113:THR:HG23	2.21	0.40
12:AL:107:LYS:HG3	12:AL:108:ASP:CG	2.46	0.40
13:AM:44:ILE:HG13	13:AM:47:LEU:CD1	2.46	0.40
13:AM:80:MET:C	13:AM:91:ARG:HH22	2.29	0.40
15:AO:9:LYS:O	15:AO:10:ILE:C	2.64	0.40
16:AP:3:THR:CG2	16:AP:4:ILE:N	2.85	0.40
16:AP:79:ASN:O	16:AP:80:LYS:HE3	2.21	0.40
22:AV:65:G:N3	22:AV:66:U:C6	2.89	0.40
24:AY:25:ILE:HG23	24:AY:179:LYS:HE2	2.04	0.40
24:AY:91:ASN:O	24:AY:102:PRO:HD2	2.21	0.40
1:BA:230:G:H2'	1:BA:231:U:O4'	2.22	0.40
1:BA:386:C:H2'	1:BA:387:U:C5'	2.52	0.40
1:BA:560:A:C8	1:BA:566:G:C4	3.09	0.40
1:BA:644:U:C5'	8:BH:83:ARG:HH12	2.31	0.40
1:BA:724:G:C2	1:BA:725:G:C8	3.10	0.40
1:BA:766:A:H2'	1:BA:767:A:O4'	2.21	0.40
1:BA:801:U:C2'	1:BA:802:A:O5'	2.69	0.40
1:BA:952:U:O4	13:BM:102:LYS:HG2	2.22	0.40
1:BA:1028:C:C5	1:BA:1034:G:N2	2.89	0.40
1:BA:1158:C:O2	1:BA:1158:C:C2'	2.67	0.40
1:BA:1313:U:N3	1:BA:1314:C:C5	2.89	0.40
1:BA:1324:A:C5	1:BA:1325:C:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1417:G:C6	1:BA:1482:G:C6	3.10	0.40
2:BB:86:CYS:C	2:BB:88:GLN:N	2.79	0.40
2:BB:93:HIS:CG	2:BB:94:ARG:HH21	2.40	0.40
2:BB:124:THR:O	2:BB:125:PHE:HB3	2.21	0.40
3:BC:11:LEU:HD23	3:BC:11:LEU:HA	1.84	0.40
3:BC:46:LEU:O	3:BC:49:ALA:HB3	2.22	0.40
5:BE:104:ILE:HD12	5:BE:104:ILE:HA	1.96	0.40
9:BI:29:ILE:CD1	9:BI:37:TYR:CD2	3.05	0.40
9:BI:128:LYS:CD	9:BI:129:ARG:OXT	2.70	0.40
10:BJ:35:GLN:OE1	10:BJ:78:GLU:HB2	2.22	0.40
11:BK:15:VAL:HG13	11:BK:16:SER:N	2.36	0.40
12:BL:113:ARG:HD2	12:BL:118:VAL:HG12	2.04	0.40
16:BP:32:PHE:O	16:BP:32:PHE:CD1	2.74	0.40
21:BU:25:ALA:C	21:BU:27:VAL:N	2.76	0.40
25:CA:80:G:N3	25:CA:294:A:C2	2.90	0.40
25:CA:328:U:C2'	25:CA:329:G:OP1	2.69	0.40
25:CA:757:G:N3	25:CA:757:G:H2'	2.35	0.40
25:CA:769:U:HO2'	25:CA:1379:U:H6	1.67	0.40
25:CA:771:G:OP2	53:C2:11:LYS:HD3	2.21	0.40
25:CA:772:C:C2	25:CA:773:U:C5	3.10	0.40
25:CA:819:A:N3	25:CA:1189:A:C2	2.90	0.40
25:CA:869:G:C6	25:CA:870:U:C4	3.10	0.40
25:CA:912:C:C4	25:CA:913:U:O4	2.74	0.40
25:CA:1448:G:C2'	25:CA:1449:G:H5'	2.51	0.40
25:CA:1450:G:C2	25:CA:1462:C:C2	3.09	0.40
25:CA:1580:A:H2'	25:CA:1581:G:C5'	2.52	0.40
25:CA:1726:C:C2	25:CA:1727:C:C6	3.08	0.40
25:CA:1958:C:O2'	25:CA:1959:G:H5'	2.21	0.40
25:CA:2111:U:O4	25:CA:2145:C:O2	2.39	0.40
25:CA:2463:C:H6	25:CA:2463:C:O5'	2.05	0.40
25:CA:2649:C:H6	25:CA:2649:C:O5'	2.04	0.40
28:CD:2:ILE:HD13	28:CD:90:PHE:CZ	2.57	0.40
30:CF:1:ALA:O	30:CF:2:LYS:C	2.64	0.40
30:CF:51:ASN:ND2	30:CF:146:ASP:HB3	2.36	0.40
30:CF:175:PRO:O	30:CF:176:PHE:HB2	2.20	0.40
31:CG:8:VAL:HG21	31:CG:72:ASN:HA	2.04	0.40
33:CI:56:VAL:CA	33:CI:71:LYS:HE2	2.50	0.40
39:CO:50:ALA:O	39:CO:51:ALA:HB2	2.21	0.40
39:CO:106:LEU:HD23	39:CO:106:LEU:O	2.20	0.40
43:CS:35:ILE:HB	43:CS:36:LEU:H	1.78	0.40
43:CS:63:GLY:O	43:CS:64:ALA:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CT:69:ARG:CB	44:CT:74:ILE:HG22	2.48	0.40
46:CV:80:HIS:CE1	46:CV:83:LYS:HE2	2.56	0.40
50:CZ:16:LEU:HD23	50:CZ:16:LEU:HA	1.90	0.40
51:C0:48:TYR:O	51:C0:49:ARG:HB2	2.20	0.40
25:DA:222:A:C8	25:DA:224:U:C6	3.09	0.40
25:DA:541:A:C8	25:DA:541:A:H3'	2.56	0.40
25:DA:734:A:C4	25:DA:735:A:C8	3.10	0.40
25:DA:835:C:H6	25:DA:835:C:O5'	2.04	0.40
25:DA:873:C:N3	25:DA:905:A:C2	2.89	0.40
25:DA:1142:A:C4	25:DA:1144:A:N7	2.90	0.40
25:DA:1384:A:H1'	25:DA:1405:U:H1'	2.03	0.40
25:DA:1401:G:C5	25:DA:1402:U:C4	3.09	0.40
25:DA:1545:A:C8	25:DA:1546:G:C8	3.09	0.40
25:DA:1587:G:C6	25:DA:1588:G:N7	2.89	0.40
25:DA:1600:C:N4	60:DA:3720:HOH:O	2.54	0.40
25:DA:1821:A:H8	25:DA:1821:A:O5'	2.04	0.40
25:DA:1982:U:O2	25:DA:1982:U:C2'	2.69	0.40
25:DA:2184:A:H8	25:DA:2184:A:OP2	2.04	0.40
25:DA:2207:C:C4	25:DA:2218:G:N1	2.89	0.40
25:DA:2230:G:O5'	25:DA:2230:G:H8	2.05	0.40
25:DA:2259:U:C4	25:DA:2427:C:N4	2.89	0.40
25:DA:2284:A:H1'	25:DA:2325:G:C2	2.57	0.40
25:DA:2648:G:C4	25:DA:2649:C:C5	3.09	0.40
25:DA:2683:C:H2'	25:DA:2684:U:C6	2.52	0.40
25:DA:2742:G:N2	25:DA:2763:G:H1'	2.37	0.40
25:DA:2821:A:OP2	28:DD:115:GLY:CA	2.69	0.40
30:DF:103:ILE:CG2	30:DF:174:PHE:CD2	3.04	0.40
32:DH:41:LYS:HA	32:DH:44:ILE:HG23	2.03	0.40
32:DH:75:LEU:C	32:DH:77:THR:N	2.78	0.40
33:DI:7:TYR:CB	33:DI:58:ILE:H	2.34	0.40
33:DI:135:MET:HB2	33:DI:137:LEU:HG	2.04	0.40
34:DJ:7:LYS:O	34:DJ:11:VAL:CG2	2.68	0.40
34:DJ:58:ASN:HD22	34:DJ:61:LYS:HD3	1.86	0.40
35:DK:8:LEU:N	35:DK:8:LEU:CD1	2.78	0.40
36:DL:77:ILE:HG23	36:DL:81:ASP:OD2	2.22	0.40
36:DL:111:ILE:HD12	36:DL:111:ILE:H	1.84	0.40
37:DM:56:ALA:C	37:DM:58:LYS:H	2.27	0.40
37:DM:95:LEU:C	37:DM:96:ILE:HD13	2.46	0.40
37:DM:109:PRO:C	37:DM:111:GLU:N	2.79	0.40
41:DQ:48:ASP:HA	41:DQ:51:GLN:HB2	2.04	0.40
41:DQ:94:LEU:HD23	41:DQ:94:LEU:HA	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DR:39:LEU:CB	42:DR:49:ILE:HD13	2.52	0.40
45:DU:90:LYS:HA	45:DU:90:LYS:HD3	1.83	0.40
57:DW:43:ALA:CB	57:DW:47:VAL:HG12	2.51	0.40
50:DZ:39:ASP:CG	50:DZ:44:ARG:HE	2.30	0.40
1:AA:9:G:C2'	1:AA:10:A:H5'	2.51	0.40
1:AA:53:A:N1	1:AA:359:G:C6	2.89	0.40
1:AA:54:C:O2	1:AA:54:C:C2'	2.67	0.40
1:AA:191:G:H2'	1:AA:192:A:H5'	2.02	0.40
1:AA:217:C:O2'	1:AA:218:U:H5'	2.22	0.40
1:AA:408:A:N1	1:AA:409:U:C2	2.90	0.40
1:AA:513:C:O5'	1:AA:513:C:H6	2.05	0.40
1:AA:751:U:H1'	15:AO:22:GLY:O	2.21	0.40
1:AA:803:G:O5'	1:AA:803:G:H8	2.04	0.40
1:AA:841:C:O2	1:AA:843:U:C4	2.75	0.40
1:AA:1296:C:H5'	13:AM:13:HIS:CE1	2.56	0.40
1:AA:1398:A:H5"	1:AA:1398:A:H8	1.86	0.40
2:AB:34:ARG:HE	2:AB:35:ASN:H	1.69	0.40
2:AB:51:GLU:HA	2:AB:54:ALA:HB3	2.04	0.40
2:AB:53:LEU:CD1	2:AB:219:THR:HG21	2.49	0.40
2:AB:74:ALA:O	2:AB:75:ALA:HB2	2.21	0.40
2:AB:75:ALA:O	2:AB:78:ALA:N	2.55	0.40
2:AB:135:MET:HA	2:AB:138:ARG:HG2	2.03	0.40
2:AB:164:ASP:CG	2:AB:203:ASP:OD1	2.64	0.40
3:AC:21:TRP:CH2	3:AC:31:ASN:CB	3.05	0.40
4:AD:25:ARG:CD	4:AD:30:LYS:CE	3.00	0.40
4:AD:30:LYS:HE2	4:AD:30:LYS:HB2	1.93	0.40
4:AD:71:PHE:C	4:AD:71:PHE:CD1	3.00	0.40
4:AD:114:ARG:O	4:AD:115:GLN:C	2.64	0.40
4:AD:131:ILE:HD11	4:AD:134:TYR:CA	2.52	0.40
5:AE:105:ILE:HG13	5:AE:123:LEU:HB3	2.04	0.40
6:AF:16:GLU:OE1	4:BD:187:ARG:NH1	2.55	0.40
7:AG:19:SER:O	7:AG:20:GLU:C	2.63	0.40
7:AG:92:PRO:O	7:AG:93:VAL:C	2.64	0.40
8:AH:11:THR:O	8:AH:14:ARG:HB3	2.21	0.40
9:AI:52:GLU:HB3	9:AI:53:LEU:HD12	2.04	0.40
10:AJ:84:VAL:O	10:AJ:84:VAL:HG22	2.22	0.40
12:AL:55:ARG:HG3	12:AL:55:ARG:NH2	2.35	0.40
14:AN:64:CYS:HA	14:AN:79:LEU:HA	2.03	0.40
15:AO:28:VAL:O	15:AO:28:VAL:HG12	2.21	0.40
15:AO:40:GLY:O	15:AO:43:ALA:HB3	2.21	0.40
15:AO:69:LEU:O	15:AO:69:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:77:TYR:O	15:AO:81:ILE:HG23	2.22	0.40
19:AS:26:ASP:OD2	19:AS:27:LYS:O	2.40	0.40
19:AS:48:ILE:HD12	19:AS:48:ILE:N	2.36	0.40
1:BA:69:G:N3	1:BA:70:U:C5	2.90	0.40
1:BA:235:C:H2'	1:BA:236:A:C8	2.56	0.40
1:BA:401:C:H2'	1:BA:402:G:H8	1.86	0.40
1:BA:474:G:C4	1:BA:475:C:C5	3.09	0.40
1:BA:491:G:H2'	1:BA:492:C:H6	1.86	0.40
1:BA:654:G:H4'	8:BH:2:MET:HE1	2.04	0.40
1:BA:692:U:H5	11:BK:27:ASN:HD22	1.68	0.40
1:BA:707:U:OP1	11:BK:86:LYS:CE	2.70	0.40
1:BA:1037:C:OP2	1:BA:1037:C:H6	2.03	0.40
1:BA:1226:C:P	13:BM:89:ARG:HH22	2.44	0.40
1:BA:1234:C:H2'	1:BA:1235:U:C5'	2.49	0.40
1:BA:1473:G:C2'	1:BA:1474:U:H5'	2.52	0.40
2:BB:14:HIS:HD2	2:BB:208:ALA:HB2	1.86	0.40
3:BC:61:LYS:HE3	3:BC:61:LYS:CA	2.52	0.40
3:BC:166:TRP:HE3	3:BC:166:TRP:O	2.04	0.40
5:BE:14:LEU:HD12	5:BE:14:LEU:C	2.46	0.40
6:BF:16:GLU:C	6:BF:18:VAL:H	2.29	0.40
8:BH:11:THR:HG23	8:BH:14:ARG:HH12	1.87	0.40
8:BH:68:LYS:HE2	8:BH:72:GLU:OE2	2.20	0.40
9:BI:5:TYR:CD1	9:BI:20:ILE:HG22	2.56	0.40
9:BI:50:PRO:HB3	9:BI:83:THR:HG23	2.03	0.40
10:BJ:71:LEU:HA	10:BJ:71:LEU:HD13	1.90	0.40
11:BK:22:ILE:HG21	11:BK:95:THR:CG2	2.51	0.40
11:BK:109:ILE:HG22	21:BU:16:ARG:NH1	2.37	0.40
13:BM:32:ILE:HD13	13:BM:58:GLU:CB	2.51	0.40
13:BM:47:LEU:HD23	13:BM:48:SER:N	2.36	0.40
13:BM:79:LEU:O	13:BM:80:MET:O	2.38	0.40
13:BM:106:ARG:HD2	13:BM:112:ARG:CZ	2.52	0.40
14:BN:43:ASN:O	14:BN:47:LYS:HG3	2.22	0.40
18:BR:47:ARG:N	18:BR:47:ARG:HD2	2.36	0.40
19:BS:9:PHE:O	19:BS:38:THR:OG1	2.39	0.40
20:BT:5:SER:O	20:BT:7:LYS:HG2	2.22	0.40
25:CA:109:C:H6	25:CA:109:C:O5'	2.03	0.40
25:CA:228:C:H4'	25:CA:229:C:C5'	2.51	0.40
25:CA:329:G:H1	45:CU:16:LYS:HG2	1.86	0.40
25:CA:356:G:C2'	25:CA:357:C:H5'	2.52	0.40
25:CA:545:U:H1'	25:CA:548:G:OP2	2.21	0.40
25:CA:669:G:H2'	25:CA:670:A:N7	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CA:712:G:O6	25:CA:719:C:N3	2.54	0.40
25:CA:1057:A:C5	25:CA:1058:U:C5	3.10	0.40
25:CA:1080:A:C2	25:CA:1081:U:C6	3.10	0.40
25:CA:1087:G:N2	25:CA:1090:A:C8	2.90	0.40
25:CA:1203:U:C4	25:CA:1204:A:C6	3.10	0.40
25:CA:1441:G:C4	25:CA:1442:U:C5	3.10	0.40
25:CA:1463:C:O2'	25:CA:1464:G:H5'	2.22	0.40
25:CA:1723:G:H3'	25:CA:1723:G:H8	1.87	0.40
25:CA:1989:G:C2'	25:CA:1990:C:O5'	2.68	0.40
25:CA:2056:G:H4'	51:C0:4:GLN:NE2	2.37	0.40
25:CA:2307:G:H4'	25:CA:2308:G:O5'	2.21	0.40
25:CA:2655:G:O2'	25:CA:2656:U:P	2.80	0.40
25:CA:2681:C:C4	25:CA:2724:U:C5	3.10	0.40
26:CB:20:G:H2'	26:CB:21:G:O5'	2.21	0.40
27:CC:173:LEU:O	27:CC:180:MET:HA	2.22	0.40
28:CD:5:VAL:HG21	28:CD:80:TRP:CD2	2.57	0.40
28:CD:12:THR:CG2	40:CP:8:GLU:HG2	2.52	0.40
28:CD:115:GLY:O	38:CN:3:HIS:CE1	2.75	0.40
28:CD:125:TRP:O	28:CD:126:ASN:HB2	2.21	0.40
29:CE:91:ASP:OD1	29:CE:92:HIS:N	2.55	0.40
29:CE:134:LEU:CD2	29:CE:160:ALA:O	2.69	0.40
30:CF:23:SER:C	30:CF:25:MET:N	2.80	0.40
30:CF:28:PRO:C	30:CF:29:ARG:CG	2.94	0.40
30:CF:66:ILE:O	30:CF:66:ILE:CG1	2.69	0.40
30:CF:174:PHE:HA	30:CF:175:PRO:HD2	1.74	0.40
31:CG:23:ILE:HG23	31:CG:25:ILE:HD11	2.03	0.40
32:CH:31:VAL:CG1	32:CH:32:PRO:CD	2.99	0.40
32:CH:54:LEU:O	32:CH:55:GLU:C	2.63	0.40
36:CL:127:VAL:HG11	36:CL:132:ARG:CA	2.51	0.40
38:CN:46:ARG:O	38:CN:50:PRO:HG2	2.21	0.40
46:CV:30:ILE:HA	46:CV:91:PHE:O	2.21	0.40
49:CY:15:ASN:O	49:CY:16:THR:C	2.65	0.40
49:CY:18:LEU:HD21	49:CY:22:LEU:CD2	2.45	0.40
55:C4:30:GLU:HB3	55:C4:33:HIS:CG	2.56	0.40
25:DA:132:G:C2	25:DA:133:U:C2	3.09	0.40
25:DA:137:U:H5"	25:DA:140:C:C5	2.57	0.40
25:DA:284:U:H5'	25:DA:285:G:OP2	2.22	0.40
25:DA:362:A:C4	25:DA:363:G:C8	3.10	0.40
25:DA:478:A:N1	25:DA:500:G:H4'	2.36	0.40
25:DA:494:G:H21	43:DS:57:ASN:HD21	1.69	0.40
25:DA:857:G:H2'	25:DA:858:G:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1178:C:N3	25:DA:1179:G:O6	2.54	0.40
25:DA:1194:A:C2	25:DA:1195:G:C4	3.10	0.40
25:DA:1351:C:H2'	25:DA:1352:U:N1	2.36	0.40
25:DA:1441:G:N2	25:DA:1442:U:C2	2.89	0.40
25:DA:1525:A:C8	25:DA:1526:C:C5	3.09	0.40
25:DA:1562:U:N3	25:DA:1563:U:C5	2.89	0.40
25:DA:1854:A:O4'	25:DA:2233:U:H4'	2.21	0.40
25:DA:1860:G:C2'	25:DA:1861:G:H5'	2.52	0.40
25:DA:2060:A:O4'	25:DA:2502:G:H1'	2.22	0.40
25:DA:2659:G:OP1	31:DG:157:LYS:HD2	2.21	0.40
56:DB:24:G:C2	56:DB:56:G:C6	3.09	0.40
56:DB:96:G:O2'	56:DB:97:C:H5'	2.21	0.40
27:DC:24:HIS:CE1	27:DC:25:LYS:O	2.75	0.40
29:DE:28:VAL:O	29:DE:32:VAL:CG2	2.69	0.40
29:DE:124:PHE:O	29:DE:125:SER:HB3	2.21	0.40
29:DE:188:MET:HE3	29:DE:192:ALA:HB1	2.03	0.40
32:DH:25:TYR:CE1	32:DH:30:LEU:HD11	2.56	0.40
32:DH:41:LYS:HA	32:DH:44:ILE:HG12	2.04	0.40
33:DI:3:LYS:CD	33:DI:4:VAL:HG23	2.51	0.40
33:DI:57:VAL:C	33:DI:58:ILE:HG12	2.46	0.40
34:DJ:3:THR:HG23	34:DJ:4:PHE:H	1.86	0.40
34:DJ:60:ASP:OD1	34:DJ:61:LYS:N	2.54	0.40
35:DK:34:GLY:O	35:DK:35:VAL:C	2.64	0.40
36:DL:117:THR:CG2	36:DL:118:THR:H	2.34	0.40
37:DM:57:VAL:HG12	37:DM:105:MET:HE1	2.04	0.40
37:DM:74:THR:O	37:DM:75:GLU:HB2	2.20	0.40
38:DN:52:ILE:O	38:DN:54:LEU:N	2.54	0.40
38:DN:66:ALA:O	38:DN:69:ARG:O	2.40	0.40
39:DO:106:LEU:CD2	39:DO:106:LEU:C	2.95	0.40
49:DY:31:GLN:HA	49:DY:34:SER:OG	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	216/218 (99%)	109 (50%)	49 (23%)	58 (27%)	0	0
2	BB	216/218 (99%)	112 (52%)	49 (23%)	55 (26%)	0	0
3	AC	204/206 (99%)	125 (61%)	49 (24%)	30 (15%)	0	0
3	BC	204/206 (99%)	126 (62%)	47 (23%)	31 (15%)	0	0
4	AD	203/205 (99%)	123 (61%)	41 (20%)	39 (19%)	0	0
4	BD	203/205 (99%)	136 (67%)	36 (18%)	31 (15%)	0	0
5	AE	148/150 (99%)	87 (59%)	38 (26%)	23 (16%)	0	0
5	BE	148/150 (99%)	90 (61%)	31 (21%)	27 (18%)	0	0
6	AF	98/100 (98%)	62 (63%)	21 (21%)	15 (15%)	0	0
6	BF	98/100 (98%)	54 (55%)	23 (24%)	21 (21%)	0	0
7	AG	149/151 (99%)	86 (58%)	41 (28%)	22 (15%)	0	0
7	BG	149/151 (99%)	79 (53%)	46 (31%)	24 (16%)	0	0
8	AH	127/129 (98%)	79 (62%)	37 (29%)	11 (9%)	0	3
8	BH	127/129 (98%)	82 (65%)	32 (25%)	13 (10%)	0	2
9	AI	125/127 (98%)	76 (61%)	34 (27%)	15 (12%)	0	1
9	BI	125/127 (98%)	77 (62%)	33 (26%)	15 (12%)	0	1
10	AJ	96/98 (98%)	60 (62%)	14 (15%)	22 (23%)	0	0
10	BJ	96/98 (98%)	64 (67%)	14 (15%)	18 (19%)	0	0
11	AK	115/117 (98%)	84 (73%)	17 (15%)	14 (12%)	0	1
11	BK	115/117 (98%)	81 (70%)	19 (16%)	15 (13%)	0	1
12	AL	121/123 (98%)	85 (70%)	29 (24%)	7 (6%)	1	8
12	BL	121/123 (98%)	91 (75%)	16 (13%)	14 (12%)	0	1
13	AM	112/114 (98%)	78 (70%)	22 (20%)	12 (11%)	0	2
13	BM	112/114 (98%)	65 (58%)	24 (21%)	23 (20%)	0	0
14	AN	92/100 (92%)	47 (51%)	27 (29%)	18 (20%)	0	0
14	BN	92/100 (92%)	39 (42%)	30 (33%)	23 (25%)	0	0
15	AO	86/88 (98%)	57 (66%)	22 (26%)	7 (8%)	1	3
15	BO	86/88 (98%)	52 (60%)	17 (20%)	17 (20%)	0	0
16	AP	80/82 (98%)	48 (60%)	11 (14%)	21 (26%)	0	0
16	BP	80/82 (98%)	47 (59%)	22 (28%)	11 (14%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
17	AQ	78/80 (98%)	47 (60%)	18 (23%)	13 (17%)	0 0
17	BQ	78/80 (98%)	48 (62%)	18 (23%)	12 (15%)	0 0
18	AR	53/55 (96%)	34 (64%)	13 (24%)	6 (11%)	0 1
18	BR	53/55 (96%)	31 (58%)	19 (36%)	3 (6%)	1 8
19	AS	77/79 (98%)	36 (47%)	29 (38%)	12 (16%)	0 0
19	BS	77/79 (98%)	56 (73%)	14 (18%)	7 (9%)	0 2
20	AT	83/85 (98%)	37 (45%)	31 (37%)	15 (18%)	0 0
20	BT	83/85 (98%)	46 (55%)	23 (28%)	14 (17%)	0 0
21	AU	49/51 (96%)	20 (41%)	15 (31%)	14 (29%)	0 0
21	BU	49/51 (96%)	22 (45%)	10 (20%)	17 (35%)	0 0
24	AY	181/183 (99%)	135 (75%)	35 (19%)	11 (6%)	1 7
27	CC	269/271 (99%)	216 (80%)	32 (12%)	21 (8%)	1 4
27	DC	269/271 (99%)	198 (74%)	43 (16%)	28 (10%)	0 2
28	CD	207/209 (99%)	166 (80%)	30 (14%)	11 (5%)	1 9
28	DD	207/209 (99%)	162 (78%)	35 (17%)	10 (5%)	2 11
29	CE	199/201 (99%)	158 (79%)	32 (16%)	9 (4%)	2 12
29	DE	199/201 (99%)	142 (71%)	38 (19%)	19 (10%)	0 2
30	CF	175/177 (99%)	118 (67%)	38 (22%)	19 (11%)	0 1
30	DF	175/177 (99%)	113 (65%)	34 (19%)	28 (16%)	0 0
31	CG	174/176 (99%)	129 (74%)	30 (17%)	15 (9%)	0 3
31	DG	174/176 (99%)	106 (61%)	43 (25%)	25 (14%)	0 0
32	CH	147/149 (99%)	95 (65%)	29 (20%)	23 (16%)	0 0
32	DH	147/149 (99%)	95 (65%)	27 (18%)	25 (17%)	0 0
33	CI	139/141 (99%)	65 (47%)	47 (34%)	27 (19%)	0 0
33	DI	139/141 (99%)	71 (51%)	46 (33%)	22 (16%)	0 0
34	CJ	140/142 (99%)	123 (88%)	11 (8%)	6 (4%)	2 12
34	DJ	140/142 (99%)	112 (80%)	24 (17%)	4 (3%)	3 20
35	CK	120/122 (98%)	88 (73%)	24 (20%)	8 (7%)	1 5
35	DK	120/122 (98%)	87 (72%)	21 (18%)	12 (10%)	0 2
36	CL	141/143 (99%)	99 (70%)	21 (15%)	21 (15%)	0 0
36	DL	141/143 (99%)	88 (62%)	36 (26%)	17 (12%)	0 1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
37	CM	134/136 (98%)	110 (82%)	15 (11%)	9 (7%)	1 5
37	DM	134/136 (98%)	97 (72%)	23 (17%)	14 (10%)	0 2
38	CN	118/120 (98%)	91 (77%)	21 (18%)	6 (5%)	1 10
38	DN	118/120 (98%)	82 (70%)	28 (24%)	8 (7%)	1 5
39	CO	114/116 (98%)	83 (73%)	17 (15%)	14 (12%)	0 1
39	DO	114/116 (98%)	77 (68%)	25 (22%)	12 (10%)	0 2
40	CP	112/114 (98%)	96 (86%)	12 (11%)	4 (4%)	2 16
40	DP	112/114 (98%)	86 (77%)	19 (17%)	7 (6%)	1 6
41	CQ	115/117 (98%)	100 (87%)	13 (11%)	2 (2%)	7 32
41	DQ	115/117 (98%)	95 (83%)	18 (16%)	2 (2%)	7 32
42	CR	101/103 (98%)	84 (83%)	9 (9%)	8 (8%)	1 3
42	DR	101/103 (98%)	78 (77%)	14 (14%)	9 (9%)	0 3
43	CS	108/110 (98%)	90 (83%)	12 (11%)	6 (6%)	1 8
43	DS	108/110 (98%)	78 (72%)	19 (18%)	11 (10%)	0 2
44	CT	91/93 (98%)	67 (74%)	13 (14%)	11 (12%)	0 1
44	DT	91/93 (98%)	59 (65%)	20 (22%)	12 (13%)	0 1
45	CU	100/102 (98%)	74 (74%)	14 (14%)	12 (12%)	0 1
45	DU	100/102 (98%)	73 (73%)	14 (14%)	13 (13%)	0 1
46	CV	92/94 (98%)	78 (85%)	12 (13%)	2 (2%)	5 26
46	DV	92/94 (98%)	71 (77%)	15 (16%)	6 (6%)	1 5
47	CW	74/76 (97%)	68 (92%)	4 (5%)	2 (3%)	4 22
48	CX	75/77 (97%)	64 (85%)	9 (12%)	2 (3%)	4 22
48	DX	75/77 (97%)	54 (72%)	15 (20%)	6 (8%)	1 3
49	CY	61/63 (97%)	34 (56%)	13 (21%)	14 (23%)	0 0
49	DY	61/63 (97%)	28 (46%)	16 (26%)	17 (28%)	0 0
50	CZ	56/58 (97%)	50 (89%)	6 (11%)	0	100 100
50	DZ	56/58 (97%)	50 (89%)	4 (7%)	2 (4%)	2 16
51	C0	54/56 (96%)	44 (82%)	8 (15%)	2 (4%)	2 15
51	D0	54/56 (96%)	39 (72%)	10 (18%)	5 (9%)	0 2
52	C1	48/50 (96%)	32 (67%)	12 (25%)	4 (8%)	0 3
52	D1	48/50 (96%)	36 (75%)	10 (21%)	2 (4%)	2 13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
53	C2	44/46 (96%)	37 (84%)	6 (14%)	1 (2%)	5 25
53	D2	44/46 (96%)	31 (70%)	8 (18%)	5 (11%)	0 1
54	C3	62/64 (97%)	56 (90%)	6 (10%)	0	100 100
54	D3	62/64 (97%)	49 (79%)	11 (18%)	2 (3%)	3 18
55	C4	36/38 (95%)	31 (86%)	4 (11%)	1 (3%)	4 21
55	D4	36/38 (95%)	31 (86%)	4 (11%)	1 (3%)	4 21
57	DW	73/75 (97%)	57 (78%)	12 (16%)	4 (6%)	1 8
All	All	11416/11626 (98%)	7804 (68%)	2248 (20%)	1364 (12%)	0 1

All (1364) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	PHE
2	AB	21	TYR
2	AB	33	ALA
2	AB	63	LYS
2	AB	67	LEU
2	AB	72	LYS
2	AB	74	ALA
2	AB	82	ALA
2	AB	86	CYS
2	AB	91	VAL
2	AB	94	ARG
2	AB	106	VAL
2	AB	114	LYS
2	AB	115	ASP
2	AB	116	LEU
2	AB	119	GLN
2	AB	128	LEU
2	AB	131	LYS
2	AB	132	GLU
2	AB	133	ALA
2	AB	144	GLU
2	AB	147	LEU
2	AB	151	LYS
2	AB	156	LEU
2	AB	160	LEU
2	AB	163	ILE
2	AB	182	VAL
2	AB	200	PRO

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Mol	Chain	Res	Type
2	AB	206	ILE
2	AB	208	ALA
2	AB	211	LEU
2	AB	219	THR
2	AB	221	ARG
3	AC	11	LEU
3	AC	14	VAL
3	AC	16	PRO
3	AC	17	TRP
3	AC	25	THR
3	AC	53	ARG
3	AC	78	LYS
3	AC	79	LYS
3	AC	119	ILE
3	AC	120	THR
3	AC	138	GLN
3	AC	145	ALA
3	AC	167	TYR
4	AD	22	SER
4	AD	25	ARG
4	AD	28	ASP
4	AD	32	LYS
4	AD	34	GLU
4	AD	43	ARG
4	AD	48	SER
4	AD	150	LYS
4	AD	152	SER
4	AD	155	LYS
4	AD	159	GLU
4	AD	167	PRO
4	AD	190	LEU
4	AD	191	SER
4	AD	202	LEU
5	AE	11	GLN
5	AE	61	LYS
5	AE	68	ARG
5	AE	81	GLN
5	AE	99	SER
5	AE	104	ILE
5	AE	112	ALA
5	AE	121	ASN
5	AE	137	ARG

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Mol	Chain	Res	Type
6	AF	6	ILE
6	AF	18	VAL
6	AF	36	ILE
6	AF	63	ASN
6	AF	82	ASP
6	AF	91	ARG
6	AF	92	THR
7	AG	14	ASP
7	AG	49	LEU
7	AG	58	LEU
7	AG	93	VAL
7	AG	101	ARG
7	AG	112	ASP
7	AG	129	ASN
8	AH	2	MET
8	AH	13	ILE
8	AH	14	ARG
8	AH	49	LYS
8	AH	53	ASP
8	AH	56	PRO
8	AH	102	VAL
9	AI	40	ARG
9	AI	71	ILE
9	AI	87	MET
9	AI	90	ASP
9	AI	119	LYS
10	AJ	17	LEU
10	AJ	32	THR
10	AJ	33	GLY
10	AJ	34	ALA
10	AJ	43	PRO
10	AJ	57	VAL
10	AJ	61	ALA
10	AJ	101	SER
11	AK	14	GLN
11	AK	51	PHE
11	AK	71	ASP
11	AK	72	ALA
11	AK	74	LYS
11	AK	124	LYS
11	AK	125	LYS
12	AL	23	LEU

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Mol	Chain	Res	Type
12	AL	24	GLU
12	AL	25	ALA
12	AL	43	LYS
13	AM	3	ILE
13	AM	10	ASP
13	AM	11	HIS
13	AM	26	LYS
13	AM	40	GLU
13	AM	113	LYS
14	AN	20	PHE
14	AN	28	ALA
14	AN	30	ILE
14	AN	32	ASP
14	AN	47	LYS
14	AN	49	GLN
14	AN	52	PRO
14	AN	62	ASN
14	AN	92	GLU
15	AO	72	LYS
16	AP	11	ALA
16	AP	16	PHE
16	AP	43	ALA
16	AP	46	LYS
16	AP	51	ARG
16	AP	77	GLU
16	AP	79	ASN
17	AQ	12	VAL
17	AQ	50	ASN
19	AS	28	LYS
19	AS	64	GLU
19	AS	75	PRO
20	AT	4	LYS
20	AT	5	SER
20	AT	43	LYS
20	AT	72	ALA
20	AT	76	ALA
21	AU	10	PRO
21	AU	23	GLU
21	AU	35	GLU
21	AU	37	TYR
21	AU	39	LYS
24	AY	34	SER

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Mol	Chain	Res	Type
24	AY	112	LYS
24	AY	113	ASP
24	AY	147	LYS
2	BB	9	LEU
2	BB	15	PHE
2	BB	21	TYR
2	BB	35	ASN
2	BB	56	LEU
2	BB	58	LYS
2	BB	62	ARG
2	BB	73	ARG
2	BB	99	MET
2	BB	115	ASP
2	BB	120	SER
2	BB	125	PHE
2	BB	133	ALA
2	BB	139	GLU
2	BB	140	LEU
2	BB	150	ILE
2	BB	221	ARG
3	BC	11	LEU
3	BC	16	PRO
3	BC	53	ARG
3	BC	63	ILE
3	BC	81	GLU
3	BC	100	ILE
3	BC	102	ILE
3	BC	140	ALA
3	BC	145	ALA
3	BC	155	ARG
3	BC	171	ARG
3	BC	190	THR
4	BD	25	ARG
4	BD	26	ALA
4	BD	32	LYS
4	BD	34	GLU
4	BD	35	GLN
4	BD	36	ALA
4	BD	110	ARG
4	BD	163	GLN
4	BD	166	LYS
4	BD	173	ASP

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Mol	Chain	Res	Type
4	BD	191	SER
5	BE	11	GLN
5	BE	50	GLY
5	BE	67	ARG
5	BE	97	PRO
5	BE	100	GLU
5	BE	101	GLY
5	BE	102	THR
5	BE	122	VAL
5	BE	137	ARG
5	BE	154	ALA
6	BF	15	SER
6	BF	27	ALA
6	BF	33	GLU
6	BF	54	LEU
6	BF	55	HIS
6	BF	86	ARG
6	BF	91	ARG
6	BF	92	THR
6	BF	93	LYS
6	BF	98	GLU
7	BG	8	GLN
7	BG	56	SER
7	BG	69	ARG
7	BG	126	ALA
7	BG	129	ASN
8	BH	30	LYS
8	BH	49	LYS
8	BH	66	GLN
8	BH	77	VAL
8	BH	88	LYS
9	BI	38	PHE
9	BI	40	ARG
9	BI	42	THR
9	BI	44	ARG
9	BI	54	VAL
9	BI	119	LYS
9	BI	128	LYS
10	BJ	7	ARG
10	BJ	42	LEU
10	BJ	57	VAL
10	BJ	59	LYS

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Mol	Chain	Res	Type
10	BJ	86	ALA
10	BJ	92	LEU
10	BJ	93	ALA
11	BK	51	PHE
11	BK	90	PRO
11	BK	124	LYS
11	BK	126	ARG
12	BL	14	LYS
12	BL	43	LYS
12	BL	75	GLU
12	BL	116	TYR
13	BM	10	ASP
13	BM	26	LYS
13	BM	31	ALA
13	BM	65	GLU
13	BM	80	MET
13	BM	81	ASP
13	BM	113	LYS
14	BN	10	VAL
14	BN	20	PHE
14	BN	22	LYS
14	BN	28	ALA
14	BN	32	ASP
14	BN	52	PRO
14	BN	59	ARG
14	BN	62	ASN
15	BO	58	MET
15	BO	59	VAL
15	BO	74	VAL
15	BO	86	LEU
16	BP	43	ALA
16	BP	44	SER
16	BP	80	LYS
17	BQ	4	ILE
17	BQ	9	GLY
17	BQ	11	VAL
17	BQ	12	VAL
17	BQ	50	ASN
17	BQ	51	GLU
17	BQ	52	CYS
18	BR	46	THR
20	BT	3	ILE

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Mol	Chain	Res	Type
20	BT	5	SER
20	BT	40	ALA
21	BU	8	ASN
21	BU	11	PHE
21	BU	16	ARG
21	BU	23	GLU
21	BU	35	GLU
21	BU	36	PHE
21	BU	39	LYS
21	BU	45	LYS
27	CC	35	LYS
27	CC	36	ASN
27	CC	121	ALA
27	CC	122	ALA
27	CC	167	ASP
27	CC	196	ASN
27	CC	235	GLU
28	CD	41	ALA
28	CD	104	VAL
28	CD	152	PRO
30	CF	175	PRO
31	CG	81	GLY
31	CG	117	PRO
31	CG	118	ALA
32	CH	2	GLN
32	CH	10	ALA
32	CH	11	ASN
32	CH	12	LEU
32	CH	14	SER
32	CH	31	VAL
32	CH	32	PRO
32	CH	33	GLN
32	CH	56	ALA
33	CI	5	GLN
33	CI	6	ALA
33	CI	18	ASN
33	CI	30	GLN
33	CI	57	VAL
33	CI	64	ARG
33	CI	65	SER
33	CI	74	PRO
33	CI	104	GLN

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Mol	Chain	Res	Type
33	CI	105	LEU
33	CI	115	ASP
33	CI	116	MET
33	CI	133	ARG
34	CJ	81	ILE
35	CK	35	VAL
35	CK	75	SER
35	CK	91	SER
35	CK	110	GLU
36	CL	15	ALA
36	CL	29	LYS
36	CL	68	SER
36	CL	69	ARG
36	CL	86	GLU
36	CL	88	GLY
36	CL	94	THR
36	CL	111	ILE
36	CL	115	GLU
37	CM	44	ARG
37	CM	55	ARG
37	CM	69	PRO
37	CM	78	LEU
38	CN	11	ASN
39	CO	49	VAL
40	CP	15	ASP
40	CP	93	LYS
40	CP	104	GLY
41	CQ	24	TYR
41	CQ	86	SER
42	CR	40	MET
42	CR	51	VAL
42	CR	55	ASP
42	CR	65	ALA
44	CT	72	GLN
44	CT	89	GLU
45	CU	6	ARG
45	CU	7	ASP
45	CU	16	LYS
45	CU	97	SER
45	CU	98	ASN
45	CU	99	SER
49	CY	17	GLU

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Mol	Chain	Res	Type
49	CY	22	LEU
49	CY	24	GLU
49	CY	33	ALA
52	C1	16	THR
52	C1	51	ALA
53	C2	44	VAL
27	DC	12	ARG
27	DC	57	HIS
27	DC	70	LYS
27	DC	107	LYS
27	DC	121	ALA
27	DC	237	ARG
27	DC	238	ASN
27	DC	254	LYS
28	DD	98	VAL
28	DD	105	LYS
28	DD	152	PRO
29	DE	6	LYS
29	DE	7	ASP
29	DE	8	ALA
29	DE	11	ALA
29	DE	22	ASP
29	DE	72	SER
29	DE	131	THR
29	DE	144	GLU
30	DF	2	LYS
30	DF	28	PRO
30	DF	100	GLU
30	DF	102	LEU
30	DF	122	ASP
30	DF	149	ARG
30	DF	175	PRO
31	DG	6	ALA
31	DG	27	GLY
31	DG	46	ASP
31	DG	110	HIS
31	DG	118	ALA
31	DG	144	ALA
31	DG	173	ALA
31	DG	174	LYS
32	DH	3	VAL
32	DH	8	LYS

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Mol	Chain	Res	Type
32	DH	9	VAL
32	DH	10	ALA
32	DH	31	VAL
32	DH	32	PRO
32	DH	33	GLN
32	DH	41	LYS
32	DH	115	VAL
32	DH	119	ASN
33	DI	6	ALA
33	DI	18	ASN
33	DI	64	ARG
33	DI	89	SER
33	DI	92	PRO
33	DI	101	SER
33	DI	114	ALA
35	DK	109	SER
35	DK	119	ALA
36	DL	9	ALA
36	DL	29	LYS
36	DL	80	SER
36	DL	103	ILE
36	DL	104	GLN
36	DL	111	ILE
36	DL	133	ALA
37	DM	3	GLN
37	DM	43	ALA
37	DM	53	MET
37	DM	69	PRO
38	DN	2	ARG
38	DN	59	SER
38	DN	88	ALA
38	DN	119	SER
39	DO	99	TYR
40	DP	93	LYS
42	DR	7	SER
42	DR	24	LYS
43	DS	64	ALA
43	DS	109	ASP
44	DT	10	VAL
44	DT	17	SER
44	DT	18	GLU
44	DT	37	ASP

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Mol	Chain	Res	Type
44	DT	48	GLN
44	DT	88	LYS
45	DU	6	ARG
45	DU	8	ASP
45	DU	52	ASN
45	DU	54	PRO
45	DU	99	SER
46	DV	59	GLU
49	DY	17	GLU
49	DY	21	LEU
49	DY	24	GLU
49	DY	37	LEU
49	DY	57	LEU
49	DY	61	ALA
50	DZ	3	THR
52	D1	4	ILE
52	D1	51	ALA
53	D2	32	ALA
2	AB	13	VAL
2	AB	50	ASN
2	AB	51	GLU
2	AB	56	LEU
2	AB	75	ALA
2	AB	96	LEU
2	AB	122	ASP
2	AB	123	GLY
2	AB	127	LYS
2	AB	154	GLY
2	AB	176	ASN
2	AB	207	ARG
2	AB	209	VAL
2	AB	210	THR
3	AC	61	LYS
3	AC	80	GLY
3	AC	93	ILE
3	AC	106	ARG
3	AC	126	ARG
3	AC	140	ALA
4	AD	6	PRO
4	AD	9	LYS
4	AD	23	GLY
4	AD	31	CYS

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Mol	Chain	Res	Type
4	AD	101	VAL
4	AD	124	VAL
4	AD	165	GLU
4	AD	174	ALA
5	AE	75	LEU
5	AE	77	ASN
5	AE	87	VAL
5	AE	98	ALA
5	AE	119	VAL
5	AE	133	ILE
5	AE	146	MET
5	AE	156	ARG
6	AF	8	PHE
6	AF	51	ILE
7	AG	74	VAL
7	AG	86	VAL
7	AG	99	ALA
7	AG	102	TRP
7	AG	124	SER
7	AG	131	GLY
8	AH	24	VAL
8	AH	47	ASP
9	AI	31	GLN
9	AI	106	ASP
10	AJ	28	THR
10	AJ	35	GLN
10	AJ	41	PRO
10	AJ	59	LYS
10	AJ	74	VAL
10	AJ	93	ALA
11	AK	16	SER
11	AK	77	GLY
11	AK	118	ASN
12	AL	88	ASP
13	AM	66	GLY
14	AN	16	ALA
14	AN	27	LYS
14	AN	75	ARG
16	AP	10	GLY
16	AP	15	PRO
16	AP	36	VAL
16	AP	53	ASP

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Mol	Chain	Res	Type
16	AP	76	LYS
16	AP	78	VAL
16	AP	80	LYS
17	AQ	8	GLN
17	AQ	11	VAL
17	AQ	48	GLU
17	AQ	49	ASN
17	AQ	68	LYS
17	AQ	69	THR
18	AR	24	ASP
19	AS	8	PRO
19	AS	13	HIS
19	AS	29	PRO
20	AT	57	VAL
20	AT	73	ARG
21	AU	26	GLY
24	AY	87	ASP
24	AY	141	LYS
24	AY	153	ASP
2	BB	18	GLN
2	BB	22	TRP
2	BB	32	GLY
2	BB	33	ALA
2	BB	63	LYS
2	BB	72	LYS
2	BB	85	SER
2	BB	123	GLY
2	BB	138	ARG
2	BB	154	GLY
2	BB	170	ILE
2	BB	206	ILE
2	BB	208	ALA
2	BB	219	THR
2	BB	224	ARG
3	BC	12	GLY
3	BC	13	ILE
3	BC	76	ILE
3	BC	79	LYS
3	BC	88	LYS
3	BC	115	VAL
4	BD	31	CYS
4	BD	33	ILE

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Mol	Chain	Res	Type
4	BD	46	ARG
4	BD	78	ALA
4	BD	161	ALA
4	BD	175	GLY
5	BE	99	SER
5	BE	110	MET
5	BE	125	LYS
5	BE	129	SER
5	BE	153	ALA
5	BE	157	GLY
6	BF	14	GLN
6	BF	52	ASN
6	BF	75	GLU
7	BG	16	LYS
7	BG	28	ILE
7	BG	79	VAL
7	BG	139	ASP
8	BH	21	LYS
8	BH	114	ALA
9	BI	9	GLY
9	BI	90	ASP
9	BI	100	ALA
9	BI	102	PHE
10	BJ	17	LEU
10	BJ	35	GLN
10	BJ	36	VAL
10	BJ	100	ILE
11	BK	14	GLN
11	BK	16	SER
11	BK	91	GLY
11	BK	103	GLY
11	BK	105	ARG
12	BL	3	VAL
12	BL	16	ALA
12	BL	77	SER
12	BL	88	ASP
12	BL	117	GLY
13	BM	4	ALA
13	BM	5	GLY
13	BM	11	HIS
13	BM	19	THR
13	BM	40	GLU

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Mol	Chain	Res	Type
13	BM	91	ARG
13	BM	104	ASN
13	BM	110	GLY
14	BN	3	GLN
14	BN	17	ASP
14	BN	27	LYS
14	BN	30	ILE
14	BN	33	VAL
14	BN	42	TRP
14	BN	76	LYS
14	BN	92	GLU
14	BN	100	SER
15	BO	2	LEU
15	BO	17	ASP
15	BO	26	VAL
15	BO	27	GLN
15	BO	35	ILE
15	BO	85	GLY
16	BP	31	ARG
16	BP	53	ASP
16	BP	75	ILE
17	BQ	17	GLU
19	BS	4	LEU
19	BS	5	LYS
19	BS	37	SER
19	BS	63	ASP
21	BU	10	PRO
21	BU	12	ASP
21	BU	24	LYS
27	CC	11	GLY
27	CC	12	ARG
27	CC	70	LYS
27	CC	151	GLY
27	CC	177	SER
28	CD	86	GLU
28	CD	88	GLU
28	CD	206	ALA
29	CE	45	ALA
29	CE	151	GLY
29	CE	161	ALA
30	CF	20	ASN
30	CF	40	GLY

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Mol	Chain	Res	Type
30	CF	41	GLU
30	CF	52	ALA
30	CF	69	ALA
30	CF	151	LEU
30	CF	159	ALA
31	CG	38	ASP
31	CG	60	GLY
31	CG	151	ARG
32	CH	3	VAL
32	CH	28	ASN
32	CH	34	GLY
32	CH	35	LYS
32	CH	41	LYS
32	CH	118	PRO
32	CH	119	ASN
32	CH	121	VAL
33	CI	21	PRO
33	CI	23	VAL
33	CI	44	LYS
33	CI	71	LYS
33	CI	97	VAL
35	CK	109	SER
36	CL	24	GLY
36	CL	27	LEU
36	CL	30	THR
36	CL	31	GLY
36	CL	81	ASP
36	CL	102	GLY
36	CL	114	GLY
37	CM	54	THR
38	CN	2	ARG
38	CN	10	LEU
39	CO	3	LYS
39	CO	57	ALA
39	CO	77	ALA
39	CO	87	ILE
42	CR	49	ILE
42	CR	50	GLY
42	CR	53	PHE
44	CT	38	ALA
45	CU	8	ASP
45	CU	51	LEU

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Mol	Chain	Res	Type
45	CU	101	THR
46	CV	51	GLN
48	CX	41	SER
49	CY	14	LEU
49	CY	32	ALA
49	CY	37	LEU
49	CY	62	GLY
51	C0	54	ILE
27	DC	35	LYS
27	DC	151	GLY
27	DC	188	ARG
27	DC	239	PHE
27	DC	253	GLY
28	DD	104	VAL
29	DE	122	GLU
29	DE	127	GLU
29	DE	132	LYS
29	DE	163	ASN
29	DE	194	LYS
30	DF	20	ASN
30	DF	29	ARG
30	DF	53	ALA
30	DF	96	TRP
30	DF	104	THR
30	DF	115	GLY
30	DF	160	LYS
31	DG	5	LYS
31	DG	60	GLY
31	DG	81	GLY
31	DG	95	ALA
31	DG	151	ARG
32	DH	12	LEU
32	DH	22	LYS
32	DH	34	GLY
32	DH	35	LYS
32	DH	87	GLU
32	DH	118	PRO
32	DH	121	VAL
33	DI	8	VAL
33	DI	71	LYS
33	DI	83	ALA
33	DI	87	SER

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Mol	Chain	Res	Type
33	DI	105	LEU
34	DJ	81	ILE
34	DJ	118	MET
35	DK	35	VAL
35	DK	101	GLY
35	DK	105	ARG
36	DL	5	THR
36	DL	54	GLN
36	DL	102	GLY
36	DL	114	GLY
36	DL	115	GLU
37	DM	23	GLY
37	DM	111	GLU
39	DO	34	HIS
39	DO	37	ALA
39	DO	57	ALA
39	DO	63	LYS
39	DO	76	LYS
39	DO	103	VAL
39	DO	106	LEU
40	DP	19	PHE
40	DP	104	GLY
42	DR	102	SER
43	DS	33	LEU
43	DS	59	GLU
43	DS	63	GLY
43	DS	80	PRO
44	DT	9	LYS
44	DT	22	THR
44	DT	52	GLU
45	DU	20	LYS
45	DU	56	GLY
45	DU	63	ALA
46	DV	9	ARG
46	DV	65	VAL
46	DV	93	ARG
57	DW	23	GLY
48	DX	2	ARG
48	DX	56	ARG
49	DY	2	LYS
49	DY	9	LYS
49	DY	25	GLN

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Mol	Chain	Res	Type
49	DY	33	ALA
49	DY	46	VAL
51	D0	17	SER
51	D0	31	LYS
53	D2	17	GLY
55	D4	37	GLN
2	AB	25	LYS
2	AB	40	ILE
2	AB	125	PHE
3	AC	65	VAL
3	AC	87	ARG
3	AC	135	ARG
3	AC	139	ASN
4	AD	160	LEU
4	AD	166	LYS
4	AD	168	THR
4	AD	169	TRP
4	AD	192	ALA
5	AE	60	GLN
5	AE	67	ARG
5	AE	142	GLY
5	AE	150	GLU
6	AF	56	LYS
6	AF	68	GLN
6	AF	69	GLU
7	AG	50	ALA
7	AG	100	MET
8	AH	96	ALA
9	AI	8	THR
9	AI	52	GLU
9	AI	55	ASP
10	AJ	39	PRO
10	AJ	58	ASN
10	AJ	95	GLY
13	AM	56	ARG
13	AM	104	ASN
14	AN	42	TRP
14	AN	76	LYS
15	AO	57	ARG
16	AP	49	GLY
16	AP	65	ALA
17	AQ	16	MET

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Mol	Chain	Res	Type
17	AQ	17	GLU
17	AQ	39	ARG
18	AR	48	ALA
19	AS	23	GLU
20	AT	3	ILE
20	AT	15	LYS
21	AU	36	PHE
21	AU	47	ALA
2	BB	17	HIS
2	BB	50	ASN
2	BB	74	ALA
2	BB	86	CYS
2	BB	94	ARG
2	BB	101	THR
2	BB	169	HIS
2	BB	192	PRO
2	BB	204	ASP
2	BB	217	ALA
3	BC	116	ALA
3	BC	138	GLN
4	BD	84	ASN
4	BD	88	ASN
4	BD	104	MET
4	BD	172	VAL
5	BE	44	ARG
5	BE	69	ASN
5	BE	121	ASN
5	BE	144	GLU
6	BF	26	THR
6	BF	53	LYS
6	BF	69	GLU
7	BG	6	ILE
7	BG	9	ARG
7	BG	15	PRO
7	BG	38	ALA
7	BG	58	LEU
7	BG	81	GLY
7	BG	83	THR
8	BH	34	ALA
8	BH	70	VAL
8	BH	112	ASP
9	BI	120	ALA

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Mol	Chain	Res	Type
10	BJ	58	ASN
10	BJ	75	ASP
11	BK	71	ASP
11	BK	97	ARG
11	BK	98	ALA
12	BL	33	CYS
12	BL	122	LYS
13	BM	51	GLN
13	BM	90	HIS
13	BM	109	LYS
14	BN	8	ARG
14	BN	21	ALA
14	BN	64	CYS
15	BO	25	GLU
15	BO	65	LEU
15	BO	70	LYS
15	BO	72	LYS
16	BP	11	ALA
17	BQ	61	ARG
20	BT	33	LYS
20	BT	35	TYR
20	BT	68	LYS
20	BT	70	LYS
20	BT	74	HIS
21	BU	20	ARG
21	BU	34	ARG
27	CC	65	ASP
27	CC	74	PRO
27	CC	157	ALA
28	CD	40	LEU
29	CE	8	ALA
29	CE	142	ALA
29	CE	173	THR
30	CF	9	ASP
30	CF	24	VAL
30	CF	44	ALA
30	CF	109	ARG
30	CF	116	LEU
31	CG	28	LYS
31	CG	77	GLY
31	CG	150	TYR
32	CH	26	ALA

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Mol	Chain	Res	Type
32	CH	107	GLY
33	CI	36	GLU
33	CI	41	PHE
33	CI	82	ALA
33	CI	100	ILE
33	CI	112	LYS
34	CJ	32	LEU
35	CK	93	GLN
35	CK	119	ALA
36	CL	137	ALA
37	CM	6	ARG
37	CM	43	ALA
37	CM	113	ALA
38	CN	80	PHE
39	CO	60	GLU
39	CO	88	LYS
39	CO	89	ASP
39	CO	95	SER
40	CP	65	ASN
43	CS	12	SER
43	CS	46	LEU
43	CS	64	ALA
44	CT	20	ALA
44	CT	88	LYS
46	CV	67	GLY
49	CY	20	ASN
49	CY	57	LEU
52	C1	32	LYS
27	DC	18	VAL
27	DC	189	ALA
27	DC	204	LEU
27	DC	224	MET
28	DD	36	GLN
28	DD	43	ASP
28	DD	45	TYR
28	DD	159	LYS
28	DD	174	SER
29	DE	61	ARG
29	DE	83	VAL
30	DF	42	ALA
30	DF	51	ASN
30	DF	52	ALA

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Mol	Chain	Res	Type
30	DF	95	MET
30	DF	97	GLU
30	DF	99	PHE
30	DF	101	ARG
31	DG	79	THR
31	DG	145	ALA
33	DI	36	GLU
33	DI	38	CYS
35	DK	88	ASN
35	DK	108	ARG
36	DL	42	SER
36	DL	118	THR
38	DN	3	HIS
38	DN	53	THR
39	DO	68	LYS
39	DO	79	ALA
40	DP	33	GLU
42	DR	6	GLN
42	DR	28	ALA
42	DR	70	GLU
43	DS	58	ALA
44	DT	5	GLU
45	DU	36	GLU
45	DU	97	SER
57	DW	31	SER
48	DX	33	HIS
48	DX	52	ALA
48	DX	61	LYS
49	DY	14	LEU
49	DY	22	LEU
50	DZ	44	ARG
53	D2	45	SER
54	D3	27	ASN
2	AB	142	LYS
3	AC	8	GLY
3	AC	60	ALA
3	AC	85	LYS
4	AD	29	THR
4	AD	35	GLN
4	AD	42	ALA
4	AD	78	ALA
4	AD	125	ASN

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Mol	Chain	Res	Type
4	AD	148	ALA
5	AE	23	THR
6	AF	53	LYS
7	AG	16	LYS
7	AG	144	ALA
8	AH	118	ALA
9	AI	68	GLY
10	AJ	36	VAL
10	AJ	42	LEU
10	AJ	92	LEU
11	AK	40	ALA
11	AK	126	ARG
13	AM	111	PRO
14	AN	64	CYS
14	AN	69	ARG
15	AO	2	LEU
15	AO	9	LYS
15	AO	45	HIS
17	AQ	5	ARG
17	AQ	35	LYS
18	AR	26	ALA
18	AR	29	LYS
18	AR	60	ARG
19	AS	4	LEU
20	AT	23	ARG
20	AT	29	THR
20	AT	74	HIS
21	AU	9	GLU
2	BB	81	ASP
2	BB	134	LEU
2	BB	182	VAL
2	BB	187	ASP
3	BC	47	ALA
3	BC	65	VAL
3	BC	74	ILE
4	BD	41	GLY
4	BD	115	GLN
4	BD	153	ARG
4	BD	174	ALA
4	BD	203	TYR
5	BE	106	ALA
5	BE	112	ALA

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Mol	Chain	Res	Type
5	BE	149	PRO
6	BF	13	ASP
6	BF	62	MET
7	BG	27	ASN
7	BG	130	LYS
7	BG	136	LYS
10	BJ	29	ALA
11	BK	77	GLY
11	BK	88	PRO
11	BK	118	ASN
12	BL	21	PRO
13	BM	32	ILE
14	BN	15	LEU
14	BN	57	PRO
14	BN	65	ARG
15	BO	45	HIS
17	BQ	47	ASP
17	BQ	70	LYS
17	BQ	79	GLU
18	BR	29	LYS
20	BT	6	ALA
20	BT	50	PHE
27	CC	160	TYR
27	CC	204	LEU
28	CD	57	ALA
28	CD	67	HIS
28	CD	133	THR
30	CF	129	MET
30	CF	132	ARG
31	CG	131	VAL
32	CH	8	LYS
32	CH	9	VAL
32	CH	51	ARG
34	CJ	89	PHE
39	CO	51	ALA
39	CO	76	LYS
39	CO	94	ARG
44	CT	5	GLU
44	CT	41	ALA
44	CT	52	GLU
47	CW	7	ARG
47	CW	59	ALA

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Mol	Chain	Res	Type
48	CX	59	ASP
49	CY	10	SER
49	CY	21	LEU
51	C0	53	VAL
52	C1	50	GLU
55	C4	20	ASP
27	DC	113	ASP
27	DC	158	GLY
27	DC	200	MET
27	DC	231	HIS
27	DC	243	PRO
28	DD	133	THR
29	DE	200	LEU
30	DF	4	HIS
30	DF	26	GLN
30	DF	54	ALA
30	DF	171	ALA
31	DG	3	VAL
31	DG	7	PRO
31	DG	45	ALA
31	DG	159	LYS
32	DH	16	GLY
32	DH	42	LYS
32	DH	71	LYS
33	DI	21	PRO
33	DI	100	ILE
34	DJ	30	THR
35	DK	23	LYS
35	DK	110	GLU
36	DL	82	LEU
37	DM	17	ASN
37	DM	28	PHE
37	DM	54	THR
38	DN	84	GLY
39	DO	60	GLU
40	DP	110	LYS
41	DQ	66	ALA
42	DR	49	ILE
43	DS	36	LEU
45	DU	50	ALA
46	DV	16	ALA
46	DV	43	ASP

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Mol	Chain	Res	Type
57	DW	11	ASP
49	DY	4	LYS
49	DY	34	SER
49	DY	60	LYS
51	D0	19	ASP
51	D0	37	HIS
2	AB	42	LEU
2	AB	83	ALA
2	AB	111	LYS
2	AB	218	ALA
3	AC	26	LYS
3	AC	64	ARG
3	AC	76	ILE
3	AC	166	TRP
4	AD	69	ARG
4	AD	139	ASN
5	AE	55	VAL
6	AF	54	LEU
7	AG	78	ARG
9	AI	56	MET
10	AJ	31	ARG
11	AK	55	ARG
11	AK	123	PRO
12	AL	20	VAL
13	AM	49	GLU
16	AP	8	ARG
16	AP	50	THR
18	AR	59	LYS
19	AS	12	LEU
19	AS	30	LEU
19	AS	74	ALA
20	AT	39	GLU
21	AU	14	ALA
21	AU	22	CYS
21	AU	24	LYS
21	AU	51	ALA
24	AY	41	ILE
24	AY	95	ALA
2	BB	119	GLN
2	BB	135	MET
2	BB	151	LYS
2	BB	211	LEU

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Mol	Chain	Res	Type
3	BC	44	LYS
3	BC	114	LEU
4	BD	49	ASP
4	BD	169	TRP
6	BF	18	VAL
6	BF	94	HIS
7	BG	78	ARG
8	BH	20	ASN
8	BH	32	LYS
9	BI	125	GLN
10	BJ	31	ARG
10	BJ	90	LEU
12	BL	76	HIS
15	BO	28	VAL
16	BP	10	GLY
16	BP	13	LYS
16	BP	74	LEU
19	BS	22	VAL
19	BS	26	ASP
20	BT	37	ALA
20	BT	54	GLN
20	BT	85	LEU
21	BU	22	CYS
21	BU	52	VAL
27	CC	75	ALA
28	CD	98	VAL
29	CE	97	ASN
30	CF	42	ALA
31	CG	7	PRO
31	CG	78	VAL
31	CG	98	LYS
31	CG	155	PRO
32	CH	55	GLU
33	CI	120	ASP
34	CJ	25	LEU
35	CK	29	HIS
36	CL	5	THR
36	CL	84	LYS
36	CL	101	ILE
38	CN	118	ARG
39	CO	41	ALA
43	CS	10	ALA

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Mol	Chain	Res	Type
44	CT	37	ASP
44	CT	90	GLY
49	CY	5	GLU
27	DC	142	ASN
29	DE	135	ALA
30	DF	109	ARG
31	DG	66	THR
31	DG	155	PRO
33	DI	116	MET
36	DL	86	GLU
37	DM	116	ALA
40	DP	65	ASN
40	DP	113	LEU
42	DR	53	PHE
43	DS	57	ASN
43	DS	62	ASP
44	DT	24	MET
45	DU	67	SER
57	DW	16	ARG
48	DX	54	GLY
49	DY	23	ARG
53	D2	31	LEU
53	D2	44	VAL
4	AD	36	ALA
6	AF	27	ALA
7	AG	17	PHE
7	AG	104	VAL
9	AI	49	GLN
9	AI	50	PRO
10	AJ	45	ARG
15	AO	16	ARG
16	AP	28	ARG
16	AP	44	SER
20	AT	54	GLN
24	AY	33	ALA
2	BB	16	GLY
2	BB	34	ARG
2	BB	87	ASP
3	BC	73	GLY
5	BE	23	THR
5	BE	98	ALA
5	BE	132	PRO

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Mol	Chain	Res	Type
7	BG	26	VAL
7	BG	30	MET
13	BM	9	PRO
15	BO	24	THR
21	BU	26	GLY
21	BU	37	TYR
27	CC	154	ALA
29	CE	177	PRO
30	CF	102	LEU
30	CF	174	PHE
33	CI	51	GLY
33	CI	101	SER
36	CL	12	SER
37	CM	114	ARG
42	CR	64	VAL
43	CS	45	VAL
45	CU	36	GLU
27	DC	252	LYS
27	DC	269	ARG
29	DE	97	ASN
30	DF	93	GLU
32	DH	53	GLU
32	DH	57	LYS
32	DH	76	GLU
32	DH	86	ASP
33	DI	73	PRO
33	DI	108	ILE
37	DM	55	ARG
38	DN	52	ILE
41	DQ	106	THR
44	DT	2	ILE
45	DU	16	LYS
51	D0	54	ILE
4	AD	24	VAL
7	AG	5	VAL
9	AI	54	VAL
20	AT	66	ILE
21	AU	40	PRO
3	BC	71	ARG
3	BC	75	VAL
3	BC	148	ILE
4	BD	27	ILE

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Mol	Chain	Res	Type
5	BE	107	GLY
10	BJ	39	PRO
19	BS	44	ILE
27	CC	27	LYS
29	CE	193	VAL
31	CG	11	PRO
27	DC	28	PRO
29	DE	177	PRO
33	DI	84	GLY
35	DK	50	GLY
35	DK	93	GLN
37	DM	46	ILE
42	DR	63	VAL
2	AB	150	ILE
4	AD	100	VAL
7	AG	80	GLY
14	AN	10	VAL
15	AO	85	GLY
19	AS	44	ILE
24	AY	129	VAL
2	BB	172	ILE
4	BD	24	VAL
7	BG	7	GLY
9	BI	71	ILE
10	BJ	41	PRO
18	BR	25	ILE
38	CN	109	PRO
45	CU	54	PRO
35	DK	48	PRO
37	DM	87	GLY
2	AB	79	VAL
2	AB	155	GLY
12	AL	70	GLY
14	AN	45	VAL
16	AP	75	ILE
7	BG	92	PRO
9	BI	57	VAL
12	BL	15	VAL
13	BM	59	VAL
27	CC	195	GLY
33	CI	121	ILE
34	CJ	82	GLY

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Mol	Chain	Res	Type
34	CJ	97	PRO
39	CO	101	GLY
43	CS	66	ILE
49	CY	46	VAL
31	DG	16	VAL
31	DG	125	PRO
37	DM	4	PRO
43	DS	35	ILE
13	AM	94	LEU
3	BC	59	PRO
4	BD	51	GLY
20	BT	82	ILE
30	CF	28	PRO
27	DC	123	ILE
30	DF	75	GLY
31	DG	143	VAL
33	DI	12	VAL
33	DI	57	VAL
34	DJ	103	ILE
36	DL	53	GLY
39	DO	66	GLY
2	BB	200	PRO
3	BC	97	PRO
6	BF	29	ILE
8	BH	71	VAL
13	BM	6	ILE
13	BM	64	VAL
16	BP	36	VAL
44	CT	2	ILE
45	CU	53	GLN
27	DC	130	PRO
31	DG	75	VAL
32	DH	107	GLY
54	D3	17	GLY

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	AB	180/180 (100%)	111 (62%)	69 (38%)	0 1
2	BB	180/180 (100%)	129 (72%)	51 (28%)	0 2
3	AC	170/170 (100%)	124 (73%)	46 (27%)	0 2
3	BC	170/170 (100%)	123 (72%)	47 (28%)	0 2
4	AD	172/172 (100%)	130 (76%)	42 (24%)	1 4
4	BD	172/172 (100%)	120 (70%)	52 (30%)	0 1
5	AE	113/113 (100%)	75 (66%)	38 (34%)	0 1
5	BE	113/113 (100%)	79 (70%)	34 (30%)	0 1
6	AF	87/87 (100%)	57 (66%)	30 (34%)	0 1
6	BF	87/87 (100%)	61 (70%)	26 (30%)	0 2
7	AG	124/124 (100%)	85 (68%)	39 (32%)	0 1
7	BG	124/124 (100%)	82 (66%)	42 (34%)	0 1
8	AH	104/104 (100%)	79 (76%)	25 (24%)	1 4
8	BH	104/104 (100%)	74 (71%)	30 (29%)	0 2
9	AI	105/105 (100%)	80 (76%)	25 (24%)	1 4
9	BI	105/105 (100%)	68 (65%)	37 (35%)	0 1
10	AJ	86/86 (100%)	60 (70%)	26 (30%)	0 1
10	BJ	86/86 (100%)	55 (64%)	31 (36%)	0 1
11	AK	90/90 (100%)	63 (70%)	27 (30%)	0 1
11	BK	90/90 (100%)	67 (74%)	23 (26%)	0 3
12	AL	103/103 (100%)	86 (84%)	17 (16%)	2 12
12	BL	103/103 (100%)	72 (70%)	31 (30%)	0 1
13	AM	92/92 (100%)	69 (75%)	23 (25%)	0 3
13	BM	92/92 (100%)	70 (76%)	22 (24%)	1 4
14	AN	79/83 (95%)	59 (75%)	20 (25%)	0 3
14	BN	79/83 (95%)	59 (75%)	20 (25%)	0 3
15	AO	76/76 (100%)	62 (82%)	14 (18%)	1 9
15	BO	76/76 (100%)	60 (79%)	16 (21%)	1 6
16	AP	65/65 (100%)	47 (72%)	18 (28%)	0 2
16	BP	65/65 (100%)	46 (71%)	19 (29%)	0 2
17	AQ	74/74 (100%)	54 (73%)	20 (27%)	0 2
17	BQ	74/74 (100%)	48 (65%)	26 (35%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
18	AR	48/48 (100%)	37 (77%)	11 (23%)	1 5
18	BR	48/48 (100%)	40 (83%)	8 (17%)	2 12
19	AS	70/70 (100%)	54 (77%)	16 (23%)	1 5
19	BS	70/70 (100%)	49 (70%)	21 (30%)	0 1
20	AT	65/65 (100%)	35 (54%)	30 (46%)	0 0
20	BT	65/65 (100%)	47 (72%)	18 (28%)	0 2
21	AU	44/44 (100%)	26 (59%)	18 (41%)	0 0
21	BU	44/44 (100%)	28 (64%)	16 (36%)	0 1
24	AY	157/157 (100%)	133 (85%)	24 (15%)	3 14
27	CC	216/216 (100%)	173 (80%)	43 (20%)	1 7
27	DC	216/216 (100%)	167 (77%)	49 (23%)	1 5
28	CD	164/164 (100%)	135 (82%)	29 (18%)	2 10
28	DD	164/164 (100%)	131 (80%)	33 (20%)	1 7
29	CE	165/165 (100%)	138 (84%)	27 (16%)	2 12
29	DE	165/165 (100%)	117 (71%)	48 (29%)	0 2
30	CF	148/148 (100%)	111 (75%)	37 (25%)	0 3
30	DF	148/148 (100%)	114 (77%)	34 (23%)	1 5
31	CG	137/137 (100%)	110 (80%)	27 (20%)	1 8
31	DG	137/137 (100%)	115 (84%)	22 (16%)	2 12
32	CH	114/114 (100%)	87 (76%)	27 (24%)	1 4
32	DH	114/114 (100%)	89 (78%)	25 (22%)	1 5
33	CI	109/109 (100%)	74 (68%)	35 (32%)	0 1
33	DI	109/109 (100%)	78 (72%)	31 (28%)	0 2
34	CJ	116/116 (100%)	95 (82%)	21 (18%)	2 9
34	DJ	116/116 (100%)	87 (75%)	29 (25%)	0 3
35	CK	103/103 (100%)	85 (82%)	18 (18%)	2 10
35	DK	103/103 (100%)	83 (81%)	20 (19%)	1 8
36	CL	102/102 (100%)	77 (76%)	25 (24%)	1 4
36	DL	102/102 (100%)	75 (74%)	27 (26%)	0 3
37	CM	109/109 (100%)	81 (74%)	28 (26%)	0 3
37	DM	109/109 (100%)	82 (75%)	27 (25%)	1 3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
38	CN	100/100 (100%)	80 (80%)	20 (20%)	1 7
38	DN	100/100 (100%)	79 (79%)	21 (21%)	1 6
39	CO	86/86 (100%)	65 (76%)	21 (24%)	1 4
39	DO	86/86 (100%)	63 (73%)	23 (27%)	0 3
40	CP	99/99 (100%)	77 (78%)	22 (22%)	1 5
40	DP	99/99 (100%)	74 (75%)	25 (25%)	0 3
41	CQ	89/89 (100%)	76 (85%)	13 (15%)	3 15
41	DQ	89/89 (100%)	74 (83%)	15 (17%)	2 11
42	CR	84/84 (100%)	68 (81%)	16 (19%)	1 8
42	DR	84/84 (100%)	63 (75%)	21 (25%)	0 3
43	CS	93/93 (100%)	79 (85%)	14 (15%)	3 14
43	DS	93/93 (100%)	72 (77%)	21 (23%)	1 5
44	CT	80/80 (100%)	67 (84%)	13 (16%)	2 12
44	DT	80/80 (100%)	53 (66%)	27 (34%)	0 1
45	CU	83/83 (100%)	64 (77%)	19 (23%)	1 5
45	DU	83/83 (100%)	62 (75%)	21 (25%)	0 3
46	CV	78/78 (100%)	63 (81%)	15 (19%)	1 8
46	DV	78/78 (100%)	60 (77%)	18 (23%)	1 5
47	CW	56/58 (97%)	44 (79%)	12 (21%)	1 6
48	CX	67/67 (100%)	55 (82%)	12 (18%)	2 10
48	DX	67/67 (100%)	54 (81%)	13 (19%)	1 8
49	CY	55/55 (100%)	44 (80%)	11 (20%)	1 7
49	DY	55/55 (100%)	44 (80%)	11 (20%)	1 7
50	CZ	48/48 (100%)	36 (75%)	12 (25%)	0 3
50	DZ	48/48 (100%)	34 (71%)	14 (29%)	0 2
51	C0	47/47 (100%)	41 (87%)	6 (13%)	4 19
51	D0	47/47 (100%)	40 (85%)	7 (15%)	3 15
52	C1	45/45 (100%)	35 (78%)	10 (22%)	1 5
52	D1	45/45 (100%)	36 (80%)	9 (20%)	1 7
53	C2	38/38 (100%)	32 (84%)	6 (16%)	2 13
53	D2	38/38 (100%)	33 (87%)	5 (13%)	4 18

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
54	C3	51/51 (100%)	42 (82%)	9 (18%)	2 10
54	D3	51/51 (100%)	46 (90%)	5 (10%)	7 30
55	C4	34/34 (100%)	27 (79%)	7 (21%)	1 7
55	D4	34/34 (100%)	29 (85%)	5 (15%)	3 15
57	DW	55/57 (96%)	48 (87%)	7 (13%)	4 20
All	All	9482/9494 (100%)	7166 (76%)	2316 (24%)	1 4

All (2316) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	9	LEU
2	AB	13	VAL
2	AB	14	HIS
2	AB	18	GLN
2	AB	19	THR
2	AB	20	ARG
2	AB	30	ILE
2	AB	31	PHE
2	AB	37	VAL
2	AB	38	HIS
2	AB	39	ILE
2	AB	40	ILE
2	AB	42	LEU
2	AB	43	GLU
2	AB	45	THR
2	AB	48	MET
2	AB	49	PHE
2	AB	51	GLU
2	AB	55	GLU
2	AB	56	LEU
2	AB	63	LYS
2	AB	65	LYS
2	AB	67	LEU
2	AB	69	VAL
2	AB	71	THR
2	AB	77	GLU
2	AB	81	ASP
2	AB	84	LEU
2	AB	88	GLN
2	AB	89	PHE

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Mol	Chain	Res	Type
2	AB	90	PHE
2	AB	100	LEU
2	AB	101	THR
2	AB	106	VAL
2	AB	108	GLN
2	AB	110	ILE
2	AB	111	LYS
2	AB	116	LEU
2	AB	125	PHE
2	AB	128	LEU
2	AB	129	THR
2	AB	130	LYS
2	AB	131	LYS
2	AB	132	GLU
2	AB	134	LEU
2	AB	135	MET
2	AB	136	ARG
2	AB	139	GLU
2	AB	142	LYS
2	AB	143	LEU
2	AB	145	ASN
2	AB	150	ILE
2	AB	160	LEU
2	AB	162	VAL
2	AB	169	HIS
2	AB	170	ILE
2	AB	178	LEU
2	AB	180	ILE
2	AB	185	ILE
2	AB	187	ASP
2	AB	193	ASP
2	AB	196	ASP
2	AB	198	VAL
2	AB	204	ASP
2	AB	206	ILE
2	AB	207	ARG
2	AB	209	VAL
2	AB	219	THR
2	AB	224	ARG
3	AC	2	GLN
3	AC	3	LYS
3	AC	7	ASN

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Mol	Chain	Res	Type
3	AC	9	ILE
3	AC	13	ILE
3	AC	14	VAL
3	AC	15	LYS
3	AC	17	TRP
3	AC	24	ASN
3	AC	25	THR
3	AC	26	LYS
3	AC	27	GLU
3	AC	32	LEU
3	AC	34	SER
3	AC	36	PHE
3	AC	42	LEU
3	AC	43	THR
3	AC	54	ILE
3	AC	57	GLU
3	AC	58	ARG
3	AC	63	ILE
3	AC	76	ILE
3	AC	81	GLU
3	AC	85	LYS
3	AC	93	ILE
3	AC	102	ILE
3	AC	110	LEU
3	AC	120	THR
3	AC	123	LEU
3	AC	128	MET
3	AC	130	ARG
3	AC	139	ASN
3	AC	141	MET
3	AC	143	LEU
3	AC	149	LYS
3	AC	150	VAL
3	AC	153	SER
3	AC	156	LEU
3	AC	160	GLU
3	AC	161	ILE
3	AC	165	GLU
3	AC	166	TRP
3	AC	171	ARG
3	AC	172	VAL
3	AC	184	ASN

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Mol	Chain	Res	Type
3	AC	199	VAL
4	AD	4	LEU
4	AD	8	LEU
4	AD	9	LYS
4	AD	12	ARG
4	AD	29	THR
4	AD	30	LYS
4	AD	31	CYS
4	AD	34	GLU
4	AD	44	LYS
4	AD	47	LEU
4	AD	52	VAL
4	AD	54	LEU
4	AD	59	LYS
4	AD	62	ARG
4	AD	68	GLU
4	AD	69	ARG
4	AD	77	GLU
4	AD	85	THR
4	AD	104	MET
4	AD	109	THR
4	AD	115	GLN
4	AD	118	SER
4	AD	122	ILE
4	AD	130	ASN
4	AD	137	SER
4	AD	142	VAL
4	AD	158	LEU
4	AD	160	LEU
4	AD	162	GLU
4	AD	163	GLN
4	AD	166	LYS
4	AD	170	LEU
4	AD	171	GLU
4	AD	176	LYS
4	AD	178	GLU
4	AD	182	LYS
4	AD	193	ASP
4	AD	194	ILE
4	AD	195	ASN
4	AD	196	GLU
4	AD	202	LEU

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Mol	Chain	Res	Type
4	AD	205	LYS
5	AE	14	LEU
5	AE	17	VAL
5	AE	18	ASN
5	AE	20	VAL
5	AE	25	LYS
5	AE	37	VAL
5	AE	45	VAL
5	AE	54	GLU
5	AE	55	VAL
5	AE	63	MET
5	AE	64	GLU
5	AE	68	ARG
5	AE	71	ILE
5	AE	72	ASN
5	AE	73	VAL
5	AE	77	ASN
5	AE	82	HIS
5	AE	87	VAL
5	AE	92	ARG
5	AE	94	PHE
5	AE	102	THR
5	AE	113	VAL
5	AE	114	LEU
5	AE	116	VAL
5	AE	119	VAL
5	AE	121	ASN
5	AE	123	LEU
5	AE	125	LYS
5	AE	130	THR
5	AE	131	ASN
5	AE	133	ILE
5	AE	135	VAL
5	AE	136	VAL
5	AE	139	THR
5	AE	140	ILE
5	AE	144	GLU
5	AE	148	SER
5	AE	152	VAL
6	AF	2	ARG
6	AF	6	ILE
6	AF	10	VAL

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Mol	Chain	Res	Type
6	AF	14	GLN
6	AF	15	SER
6	AF	17	GLN
6	AF	24	ARG
6	AF	35	LYS
6	AF	39	LEU
6	AF	42	TRP
6	AF	44	ARG
6	AF	46	GLN
6	AF	51	ILE
6	AF	52	ASN
6	AF	55	HIS
6	AF	62	MET
6	AF	63	ASN
6	AF	69	GLU
6	AF	71	ILE
6	AF	73	GLU
6	AF	74	LEU
6	AF	77	THR
6	AF	82	ASP
6	AF	85	ILE
6	AF	86	ARG
6	AF	87	SER
6	AF	89	VAL
6	AF	96	VAL
6	AF	97	THR
6	AF	100	SER
7	AG	5	VAL
7	AG	6	ILE
7	AG	8	GLN
7	AG	12	LEU
7	AG	22	LEU
7	AG	25	PHE
7	AG	29	LEU
7	AG	31	VAL
7	AG	42	VAL
7	AG	46	LEU
7	AG	48	THR
7	AG	49	LEU
7	AG	51	GLN
7	AG	58	LEU
7	AG	61	PHE

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Mol	Chain	Res	Type
7	AG	62	GLU
7	AG	67	ASN
7	AG	69	ARG
7	AG	73	GLU
7	AG	74	VAL
7	AG	77	ARG
7	AG	78	ARG
7	AG	79	VAL
7	AG	85	GLN
7	AG	88	VAL
7	AG	89	GLU
7	AG	90	VAL
7	AG	105	GLU
7	AG	108	ARG
7	AG	110	ARG
7	AG	119	LEU
7	AG	121	ASN
7	AG	129	ASN
7	AG	132	THR
7	AG	134	VAL
7	AG	135	LYS
7	AG	141	HIS
7	AG	145	GLU
7	AG	147	ASN
8	AH	2	MET
8	AH	10	LEU
8	AH	12	ARG
8	AH	21	LYS
8	AH	25	THR
8	AH	29	SER
8	AH	30	LYS
8	AH	31	LEU
8	AH	37	ASN
8	AH	41	GLU
8	AH	47	ASP
8	AH	48	PHE
8	AH	54	THR
8	AH	76	ARG
8	AH	82	LEU
8	AH	88	LYS
8	AH	89	ASP
8	AH	93	LYS

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Mol	Chain	Res	Type
8	AH	98	LEU
8	AH	102	VAL
8	AH	103	VAL
8	AH	106	SER
8	AH	111	THR
8	AH	116	ARG
8	AH	124	ILE
9	AI	6	TYR
9	AI	10	ARG
9	AI	11	ARG
9	AI	12	LYS
9	AI	13	SER
9	AI	17	ARG
9	AI	29	ILE
9	AI	35	GLU
9	AI	41	GLU
9	AI	42	THR
9	AI	45	MET
9	AI	56	MET
9	AI	60	LEU
9	AI	62	LEU
9	AI	67	LYS
9	AI	86	LEU
9	AI	87	MET
9	AI	88	GLU
9	AI	89	TYR
9	AI	96	GLU
9	AI	98	ARG
9	AI	115	VAL
9	AI	126	PHE
9	AI	128	LYS
9	AI	129	ARG
10	AJ	6	ILE
10	AJ	8	ILE
10	AJ	11	LYS
10	AJ	15	HIS
10	AJ	17	LEU
10	AJ	25	ILE
10	AJ	27	GLU
10	AJ	28	THR
10	AJ	40	ILE
10	AJ	42	LEU

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Mol	Chain	Res	Type
10	AJ	44	THR
10	AJ	47	GLU
10	AJ	49	PHE
10	AJ	52	LEU
10	AJ	53	ILE
10	AJ	54	SER
10	AJ	59	LYS
10	AJ	63	ASP
10	AJ	67	ILE
10	AJ	71	LEU
10	AJ	73	LEU
10	AJ	75	ASP
10	AJ	77	VAL
10	AJ	83	THR
10	AJ	92	LEU
10	AJ	101	SER
11	AK	13	LYS
11	AK	15	VAL
11	AK	17	ASP
11	AK	23	HIS
11	AK	29	THR
11	AK	30	ILE
11	AK	31	VAL
11	AK	34	THR
11	AK	37	GLN
11	AK	51	PHE
11	AK	64	VAL
11	AK	67	GLU
11	AK	75	GLU
11	AK	80	ASN
11	AK	81	LEU
11	AK	82	GLU
11	AK	92	ARG
11	AK	93	GLU
11	AK	95	THR
11	AK	96	ILE
11	AK	100	ASN
11	AK	106	ILE
11	AK	108	ASN
11	AK	110	THR
11	AK	113	THR
11	AK	125	LYS

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Mol	Chain	Res	Type
11	AK	127	ARG
12	AL	3	VAL
12	AL	9	LYS
12	AL	14	LYS
12	AL	18	SER
12	AL	20	VAL
12	AL	24	GLU
12	AL	43	LYS
12	AL	48	LEU
12	AL	53	ARG
12	AL	61	GLU
12	AL	63	THR
12	AL	73	LEU
12	AL	74	GLN
12	AL	77	SER
12	AL	101	LEU
12	AL	114	SER
12	AL	120	ARG
13	AM	3	ILE
13	AM	6	ILE
13	AM	12	LYS
13	AM	15	VAL
13	AM	26	LYS
13	AM	28	ARG
13	AM	33	LEU
13	AM	43	LYS
13	AM	44	ILE
13	AM	54	THR
13	AM	56	ARG
13	AM	59	VAL
13	AM	63	VAL
13	AM	70	ARG
13	AM	71	GLU
13	AM	78	ARG
13	AM	82	LEU
13	AM	86	ARG
13	AM	90	HIS
13	AM	94	LEU
13	AM	106	ARG
13	AM	107	THR
13	AM	111	PRO
14	AN	3	GLN

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Mol	Chain	Res	Type
14	AN	6	LYS
14	AN	9	GLU
14	AN	15	LEU
14	AN	23	ARG
14	AN	25	GLU
14	AN	27	LYS
14	AN	41	ARG
14	AN	43	ASN
14	AN	46	LEU
14	AN	48	LEU
14	AN	49	GLN
14	AN	51	LEU
14	AN	74	LEU
14	AN	76	LYS
14	AN	82	ILE
14	AN	89	MET
14	AN	92	GLU
14	AN	98	LYS
14	AN	100	SER
15	AO	7	THR
15	AO	12	SER
15	AO	16	ARG
15	AO	21	THR
15	AO	30	LEU
15	AO	34	GLN
15	AO	38	LEU
15	AO	39	GLN
15	AO	47	LYS
15	AO	52	ARG
15	AO	56	LEU
15	AO	57	ARG
15	AO	74	VAL
15	AO	86	LEU
16	AP	2	VAL
16	AP	6	LEU
16	AP	9	HIS
16	AP	16	PHE
16	AP	18	GLN
16	AP	19	VAL
16	AP	20	VAL
16	AP	31	ARG
16	AP	33	ILE

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Mol	Chain	Res	Type
16	AP	34	GLU
16	AP	39	PHE
16	AP	46	LYS
16	AP	51	ARG
16	AP	67	ILE
16	AP	70	ARG
16	AP	71	VAL
16	AP	75	ILE
16	AP	76	LYS
17	AQ	3	LYS
17	AQ	6	THR
17	AQ	13	SER
17	AQ	20	ILE
17	AQ	22	VAL
17	AQ	24	ILE
17	AQ	25	GLU
17	AQ	27	PHE
17	AQ	28	VAL
17	AQ	37	ILE
17	AQ	50	ASN
17	AQ	51	GLU
17	AQ	54	ILE
17	AQ	58	VAL
17	AQ	60	ILE
17	AQ	73	THR
17	AQ	75	VAL
17	AQ	76	ARG
17	AQ	80	LYS
17	AQ	82	VAL
18	AR	23	LYS
18	AR	24	ASP
18	AR	28	LEU
18	AR	29	LYS
18	AR	32	ILE
18	AR	35	SER
18	AR	42	ARG
18	AR	47	ARG
18	AR	54	LEU
18	AR	60	ARG
18	AR	70	THR
19	AS	5	LYS
19	AS	10	ILE

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Mol	Chain	Res	Type
19	AS	15	LEU
19	AS	20	LYS
19	AS	26	ASP
19	AS	34	SER
19	AS	35	ARG
19	AS	39	ILE
19	AS	48	ILE
19	AS	54	ARG
19	AS	55	GLN
19	AS	62	THR
19	AS	64	GLU
19	AS	70	LEU
19	AS	73	PHE
19	AS	78	THR
20	AT	3	ILE
20	AT	4	LYS
20	AT	7	LYS
20	AT	9	ARG
20	AT	11	ILE
20	AT	12	GLN
20	AT	13	SER
20	AT	14	GLU
20	AT	17	ARG
20	AT	18	LYS
20	AT	22	SER
20	AT	25	SER
20	AT	26	MET
20	AT	29	THR
20	AT	31	ILE
20	AT	33	LYS
20	AT	47	GLN
20	AT	48	LYS
20	AT	52	GLU
20	AT	53	MET
20	AT	56	ILE
20	AT	63	LYS
20	AT	65	LEU
20	AT	66	ILE
20	AT	67	HIS
20	AT	68	LYS
20	AT	69	ASN
20	AT	70	LYS

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Mol	Chain	Res	Type
20	AT	75	LYS
20	AT	83	ASN
21	AU	3	ILE
21	AU	5	VAL
21	AU	7	GLU
21	AU	8	ASN
21	AU	9	GLU
21	AU	11	PHE
21	AU	15	LEU
21	AU	17	ARG
21	AU	19	LYS
21	AU	27	VAL
21	AU	28	LEU
21	AU	32	ARG
21	AU	33	ARG
21	AU	42	THR
21	AU	43	GLU
21	AU	50	SER
21	AU	52	VAL
21	AU	53	LYS
24	AY	16	LYS
24	AY	23	THR
24	AY	25	ILE
24	AY	38	LEU
24	AY	41	ILE
24	AY	57	SER
24	AY	87	ASP
24	AY	98	ASP
24	AY	106	LEU
24	AY	107	THR
24	AY	121	GLU
24	AY	127	VAL
24	AY	133	ARG
24	AY	135	ASP
24	AY	143	LEU
24	AY	145	LYS
24	AY	147	LYS
24	AY	156	ARG
24	AY	157	SER
24	AY	159	ASP
24	AY	162	GLN
24	AY	163	LYS

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Mol	Chain	Res	Type
24	AY	179	LYS
24	AY	180	GLU
2	BB	13	VAL
2	BB	14	HIS
2	BB	15	PHE
2	BB	18	GLN
2	BB	19	THR
2	BB	23	ASN
2	BB	26	MET
2	BB	27	LYS
2	BB	34	ARG
2	BB	39	ILE
2	BB	42	LEU
2	BB	48	MET
2	BB	49	PHE
2	BB	50	ASN
2	BB	51	GLU
2	BB	56	LEU
2	BB	62	ARG
2	BB	65	LYS
2	BB	66	ILE
2	BB	67	LEU
2	BB	76	SER
2	BB	80	LYS
2	BB	86	CYS
2	BB	87	ASP
2	BB	88	GLN
2	BB	90	PHE
2	BB	91	VAL
2	BB	94	ARG
2	BB	99	MET
2	BB	100	LEU
2	BB	105	THR
2	BB	116	LEU
2	BB	125	PHE
2	BB	128	LEU
2	BB	129	THR
2	BB	132	GLU
2	BB	138	ARG
2	BB	141	GLU
2	BB	142	LYS
2	BB	143	LEU

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Mol	Chain	Res	Type
2	BB	150	ILE
2	BB	162	VAL
2	BB	163	ILE
2	BB	187	ASP
2	BB	195	VAL
2	BB	196	ASP
2	BB	206	ILE
2	BB	209	VAL
2	BB	211	LEU
2	BB	219	THR
2	BB	221	ARG
3	BC	2	GLN
3	BC	3	LYS
3	BC	13	ILE
3	BC	14	VAL
3	BC	15	LYS
3	BC	17	TRP
3	BC	24	ASN
3	BC	25	THR
3	BC	26	LYS
3	BC	32	LEU
3	BC	36	PHE
3	BC	42	LEU
3	BC	44	LYS
3	BC	45	GLU
3	BC	52	SER
3	BC	55	VAL
3	BC	57	GLU
3	BC	63	ILE
3	BC	69	THR
3	BC	79	LYS
3	BC	93	ILE
3	BC	102	ILE
3	BC	107	LYS
3	BC	110	LEU
3	BC	118	SER
3	BC	120	THR
3	BC	127	VAL
3	BC	128	MET
3	BC	130	ARG
3	BC	131	ARG
3	BC	139	ASN

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Mol	Chain	Res	Type
3	BC	143	LEU
3	BC	146	LYS
3	BC	148	ILE
3	BC	150	VAL
3	BC	151	GLU
3	BC	152	VAL
3	BC	166	TRP
3	BC	174	LEU
3	BC	175	HIS
3	BC	177	LEU
3	BC	178	ARG
3	BC	189	HIS
3	BC	191	THR
3	BC	192	TYR
3	BC	199	VAL
3	BC	201	ILE
4	BD	4	LEU
4	BD	7	LYS
4	BD	8	LEU
4	BD	9	LYS
4	BD	21	LYS
4	BD	27	ILE
4	BD	28	ASP
4	BD	30	LYS
4	BD	31	CYS
4	BD	32	LYS
4	BD	46	ARG
4	BD	53	GLN
4	BD	54	LEU
4	BD	55	ARG
4	BD	57	LYS
4	BD	58	GLN
4	BD	59	LYS
4	BD	62	ARG
4	BD	63	ILE
4	BD	66	VAL
4	BD	68	GLU
4	BD	80	ARG
4	BD	82	LYS
4	BD	85	THR
4	BD	89	LEU
4	BD	92	LEU

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Mol	Chain	Res	Type
4	BD	97	LEU
4	BD	99	ASN
4	BD	101	VAL
4	BD	109	THR
4	BD	115	GLN
4	BD	116	LEU
4	BD	124	VAL
4	BD	127	ARG
4	BD	128	VAL
4	BD	131	ILE
4	BD	137	SER
4	BD	142	VAL
4	BD	146	GLU
4	BD	151	GLN
4	BD	160	LEU
4	BD	162	GLU
4	BD	166	LYS
4	BD	170	LEU
4	BD	177	MET
4	BD	178	GLU
4	BD	183	ARG
4	BD	190	LEU
4	BD	194	ILE
4	BD	199	ILE
4	BD	202	LEU
4	BD	205	LYS
5	BE	9	GLU
5	BE	14	LEU
5	BE	17	VAL
5	BE	24	VAL
5	BE	25	LYS
5	BE	28	ARG
5	BE	38	VAL
5	BE	45	VAL
5	BE	54	GLU
5	BE	59	ILE
5	BE	68	ARG
5	BE	69	ASN
5	BE	72	ASN
5	BE	73	VAL
5	BE	76	ASN
5	BE	77	ASN

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Mol	Chain	Res	Type
5	BE	79	THR
5	BE	80	LEU
5	BE	87	VAL
5	BE	92	ARG
5	BE	95	MET
5	BE	96	GLN
5	BE	100	GLU
5	BE	111	ARG
5	BE	113	VAL
5	BE	114	LEU
5	BE	119	VAL
5	BE	125	LYS
5	BE	130	THR
5	BE	135	VAL
5	BE	136	VAL
5	BE	139	THR
5	BE	151	MET
5	BE	155	LYS
6	BF	1	MET
6	BF	2	ARG
6	BF	5	GLU
6	BF	7	VAL
6	BF	8	PHE
6	BF	9	MET
6	BF	10	VAL
6	BF	13	ASP
6	BF	23	GLU
6	BF	24	ARG
6	BF	29	ILE
6	BF	35	LYS
6	BF	36	ILE
6	BF	38	ARG
6	BF	39	LEU
6	BF	51	ILE
6	BF	54	LEU
6	BF	55	HIS
6	BF	60	VAL
6	BF	63	ASN
6	BF	69	GLU
6	BF	73	GLU
6	BF	77	THR
6	BF	86	ARG

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Mol	Chain	Res	Type
6	BF	87	SER
6	BF	97	THR
7	BG	2	ARG
7	BG	4	ARG
7	BG	5	VAL
7	BG	8	GLN
7	BG	11	ILE
7	BG	21	LEU
7	BG	22	LEU
7	BG	29	LEU
7	BG	35	LYS
7	BG	46	LEU
7	BG	47	GLU
7	BG	49	LEU
7	BG	52	ARG
7	BG	58	LEU
7	BG	61	PHE
7	BG	65	LEU
7	BG	69	ARG
7	BG	72	VAL
7	BG	74	VAL
7	BG	76	SER
7	BG	77	ARG
7	BG	83	THR
7	BG	85	GLN
7	BG	86	VAL
7	BG	89	GLU
7	BG	90	VAL
7	BG	91	ARG
7	BG	94	ARG
7	BG	96	ASN
7	BG	108	ARG
7	BG	110	ARG
7	BG	119	LEU
7	BG	125	ASP
7	BG	128	GLU
7	BG	129	ASN
7	BG	134	VAL
7	BG	135	LYS
7	BG	137	ARG
7	BG	138	GLU
7	BG	139	ASP

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Mol	Chain	Res	Type
7	BG	143	MET
7	BG	145	GLU
8	BH	2	MET
8	BH	10	LEU
8	BH	12	ARG
8	BH	21	LYS
8	BH	24	VAL
8	BH	29	SER
8	BH	30	LYS
8	BH	35	ILE
8	BH	41	GLU
8	BH	46	GLU
8	BH	48	PHE
8	BH	50	VAL
8	BH	53	ASP
8	BH	58	LEU
8	BH	62	LEU
8	BH	64	TYR
8	BH	66	GLN
8	BH	73	SER
8	BH	74	ILE
8	BH	76	ARG
8	BH	79	ARG
8	BH	86	LYS
8	BH	100	ILE
8	BH	103	VAL
8	BH	111	THR
8	BH	116	ARG
8	BH	120	LEU
8	BH	124	ILE
8	BH	125	ILE
8	BH	128	VAL
9	BI	8	THR
9	BI	10	ARG
9	BI	11	ARG
9	BI	17	ARG
9	BI	18	VAL
9	BI	27	ILE
9	BI	28	VAL
9	BI	31	GLN
9	BI	32	ARG
9	BI	35	GLU

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Mol	Chain	Res	Type
9	BI	42	THR
9	BI	44	ARG
9	BI	47	VAL
9	BI	48	ARG
9	BI	53	LEU
9	BI	55	ASP
9	BI	56	MET
9	BI	58	GLU
9	BI	60	LEU
9	BI	65	THR
9	BI	67	LYS
9	BI	84	ARG
9	BI	87	MET
9	BI	88	GLU
9	BI	89	TYR
9	BI	92	SER
9	BI	93	LEU
9	BI	96	GLU
9	BI	98	ARG
9	BI	104	THR
9	BI	115	VAL
9	BI	117	LEU
9	BI	119	LYS
9	BI	125	GLN
9	BI	126	PHE
9	BI	128	LYS
9	BI	129	ARG
10	BJ	6	ILE
10	BJ	9	ARG
10	BJ	10	LEU
10	BJ	22	THR
10	BJ	25	ILE
10	BJ	26	VAL
10	BJ	27	GLU
10	BJ	32	THR
10	BJ	35	GLN
10	BJ	42	LEU
10	BJ	45	ARG
10	BJ	48	ARG
10	BJ	50	THR
10	BJ	58	ASN
10	BJ	59	LYS

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Mol	Chain	Res	Type
10	BJ	62	ARG
10	BJ	63	ASP
10	BJ	64	GLN
10	BJ	66	GLU
10	BJ	71	LEU
10	BJ	73	LEU
10	BJ	77	VAL
10	BJ	78	GLU
10	BJ	80	THR
10	BJ	83	THR
10	BJ	84	VAL
10	BJ	87	LEU
10	BJ	88	MET
10	BJ	89	ARG
10	BJ	92	LEU
10	BJ	96	VAL
11	BK	13	LYS
11	BK	14	GLN
11	BK	30	ILE
11	BK	32	THR
11	BK	41	LEU
11	BK	45	THR
11	BK	63	GLN
11	BK	64	VAL
11	BK	71	ASP
11	BK	73	VAL
11	BK	76	TYR
11	BK	80	ASN
11	BK	81	LEU
11	BK	82	GLU
11	BK	95	THR
11	BK	99	LEU
11	BK	100	ASN
11	BK	104	PHE
11	BK	105	ARG
11	BK	106	ILE
11	BK	113	THR
11	BK	124	LYS
11	BK	125	LYS
12	BL	3	VAL
12	BL	5	GLN
12	BL	9	LYS

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Mol	Chain	Res	Type
12	BL	11	ARG
12	BL	15	VAL
12	BL	17	LYS
12	BL	19	ASN
12	BL	20	VAL
12	BL	21	PRO
12	BL	30	ARG
12	BL	32	VAL
12	BL	35	ARG
12	BL	43	LYS
12	BL	51	VAL
12	BL	57	THR
12	BL	58	ASN
12	BL	62	VAL
12	BL	73	LEU
12	BL	74	GLN
12	BL	80	LEU
12	BL	81	ILE
12	BL	85	ARG
12	BL	87	LYS
12	BL	89	LEU
12	BL	92	VAL
12	BL	93	ARG
12	BL	101	LEU
12	BL	106	VAL
12	BL	109	ARG
12	BL	114	SER
12	BL	120	ARG
13	BM	6	ILE
13	BM	8	ILE
13	BM	20	SER
13	BM	24	VAL
13	BM	26	LYS
13	BM	28	ARG
13	BM	30	LYS
13	BM	32	ILE
13	BM	33	LEU
13	BM	40	GLU
13	BM	47	LEU
13	BM	52	ILE
13	BM	53	ASP
13	BM	55	LEU

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Mol	Chain	Res	Type
13	BM	59	VAL
13	BM	71	GLU
13	BM	79	LEU
13	BM	86	ARG
13	BM	89	ARG
13	BM	90	HIS
13	BM	96	VAL
13	BM	100	ARG
14	BN	3	GLN
14	BN	9	GLU
14	BN	12	ARG
14	BN	15	LEU
14	BN	22	LYS
14	BN	25	GLU
14	BN	27	LYS
14	BN	31	SER
14	BN	32	ASP
14	BN	34	ASN
14	BN	43	ASN
14	BN	48	LEU
14	BN	49	GLN
14	BN	51	LEU
14	BN	53	ARG
14	BN	60	GLN
14	BN	71	HIS
14	BN	77	PHE
14	BN	82	ILE
14	BN	90	ARG
15	BO	3	SER
15	BO	5	GLU
15	BO	16	ARG
15	BO	21	THR
15	BO	25	GLU
15	BO	34	GLN
15	BO	38	LEU
15	BO	47	LYS
15	BO	61	GLN
15	BO	62	ARG
15	BO	69	LEU
15	BO	72	LYS
15	BO	78	THR
15	BO	84	LEU

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Mol	Chain	Res	Type
15	BO	86	LEU
15	BO	87	ARG
16	BP	1	MET
16	BP	2	VAL
16	BP	3	THR
16	BP	8	ARG
16	BP	17	TYR
16	BP	19	VAL
16	BP	20	VAL
16	BP	26	ASN
16	BP	33	ILE
16	BP	34	GLU
16	BP	36	VAL
16	BP	46	LYS
16	BP	48	GLU
16	BP	51	ARG
16	BP	61	VAL
16	BP	63	GLN
16	BP	69	ASP
16	BP	74	LEU
16	BP	80	LYS
17	BQ	4	ILE
17	BQ	6	THR
17	BQ	7	LEU
17	BQ	8	GLN
17	BQ	10	ARG
17	BQ	16	MET
17	BQ	17	GLU
17	BQ	20	ILE
17	BQ	21	VAL
17	BQ	22	VAL
17	BQ	24	ILE
17	BQ	28	VAL
17	BQ	39	ARG
17	BQ	47	ASP
17	BQ	51	GLU
17	BQ	54	ILE
17	BQ	58	VAL
17	BQ	69	THR
17	BQ	73	THR
17	BQ	74	LEU
17	BQ	75	VAL

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Mol	Chain	Res	Type
17	BQ	76	ARG
17	BQ	77	VAL
17	BQ	78	VAL
17	BQ	80	LYS
17	BQ	82	VAL
18	BR	20	ILE
18	BR	28	LEU
18	BR	32	ILE
18	BR	38	ILE
18	BR	46	THR
18	BR	47	ARG
18	BR	54	LEU
18	BR	58	ILE
19	BS	5	LYS
19	BS	6	LYS
19	BS	10	ILE
19	BS	12	LEU
19	BS	13	HIS
19	BS	15	LEU
19	BS	18	VAL
19	BS	20	LYS
19	BS	22	VAL
19	BS	24	SER
19	BS	27	LYS
19	BS	32	THR
19	BS	36	ARG
19	BS	38	THR
19	BS	44	ILE
19	BS	48	ILE
19	BS	55	GLN
19	BS	57	VAL
19	BS	64	GLU
19	BS	65	MET
19	BS	70	LEU
20	BT	4	LYS
20	BT	7	LYS
20	BT	9	ARG
20	BT	11	ILE
20	BT	14	GLU
20	BT	18	LYS
20	BT	20	ASN
20	BT	26	MET

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Mol	Chain	Res	Type
20	BT	35	TYR
20	BT	38	ILE
20	BT	53	MET
20	BT	63	LYS
20	BT	66	ILE
20	BT	68	LYS
20	BT	75	LYS
20	BT	77	ASN
20	BT	78	LEU
20	BT	82	ILE
21	BU	5	VAL
21	BU	7	GLU
21	BU	8	ASN
21	BU	11	PHE
21	BU	13	VAL
21	BU	15	LEU
21	BU	16	ARG
21	BU	19	LYS
21	BU	21	SER
21	BU	27	VAL
21	BU	33	ARG
21	BU	35	GLU
21	BU	36	PHE
21	BU	42	THR
21	BU	46	ARG
21	BU	48	LYS
27	CC	2	VAL
27	CC	9	SER
27	CC	13	ARG
27	CC	15	VAL
27	CC	17	LYS
27	CC	25	LYS
27	CC	34	GLU
27	CC	37	SER
27	CC	38	LYS
27	CC	42	ARG
27	CC	63	ILE
27	CC	76	VAL
27	CC	96	LYS
27	CC	101	ARG
27	CC	104	LEU
27	CC	109	LEU

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Mol	Chain	Res	Type
27	CC	110	LYS
27	CC	115	ILE
27	CC	120	ASP
27	CC	124	LYS
27	CC	129	LEU
27	CC	136	VAL
27	CC	138	SER
27	CC	140	VAL
27	CC	153	LEU
27	CC	155	ARG
27	CC	167	ASP
27	CC	173	LEU
27	CC	176	ARG
27	CC	183	VAL
27	CC	196	ASN
27	CC	198	GLU
27	CC	203	VAL
27	CC	204	LEU
27	CC	211	ARG
27	CC	224	MET
27	CC	225	ASN
27	CC	256	THR
27	CC	259	ASN
27	CC	262	THR
27	CC	266	ILE
27	CC	268	ARG
27	CC	270	ARG
28	CD	12	THR
28	CD	13	ARG
28	CD	26	VAL
28	CD	28	GLU
28	CD	32	ASN
28	CD	33	ARG
28	CD	35	THR
28	CD	37	VAL
28	CD	46	ARG
28	CD	48	ILE
28	CD	62	LYS
28	CD	73	VAL
28	CD	77	ARG
28	CD	83	ARG
28	CD	89	GLU

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Mol	Chain	Res	Type
28	CD	95	SER
28	CD	97	SER
28	CD	100	LEU
28	CD	105	LYS
28	CD	112	THR
28	CD	121	THR
28	CD	129	THR
28	CD	139	SER
28	CD	159	LYS
28	CD	176	ASP
28	CD	177	VAL
28	CD	178	VAL
28	CD	184	ARG
28	CD	193	VAL
29	CE	4	VAL
29	CE	7	ASP
29	CE	12	LEU
29	CE	40	ARG
29	CE	47	LYS
29	CE	53	THR
29	CE	55	SER
29	CE	77	ILE
29	CE	80	SER
29	CE	84	THR
29	CE	97	ASN
29	CE	108	ILE
29	CE	111	GLU
29	CE	113	VAL
29	CE	119	ILE
29	CE	149	ILE
29	CE	150	THR
29	CE	159	LEU
29	CE	163	ASN
29	CE	164	LEU
29	CE	170	ARG
29	CE	176	ASP
29	CE	187	VAL
29	CE	189	THR
29	CE	196	VAL
29	CE	197	GLU
29	CE	199	MET
30	CF	2	LYS

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Mol	Chain	Res	Type
30	CF	11	VAL
30	CF	17	THR
30	CF	18	GLU
30	CF	20	ASN
30	CF	24	VAL
30	CF	26	GLN
30	CF	30	VAL
30	CF	33	ILE
30	CF	34	THR
30	CF	35	LEU
30	CF	41	GLU
30	CF	43	ILE
30	CF	47	LYS
30	CF	48	LEU
30	CF	49	LEU
30	CF	50	ASP
30	CF	55	ASP
30	CF	56	LEU
30	CF	60	SER
30	CF	67	THR
30	CF	77	LYS
30	CF	91	ARG
30	CF	94	ARG
30	CF	100	GLU
30	CF	104	THR
30	CF	107	VAL
30	CF	120	SER
30	CF	124	ARG
30	CF	129	MET
30	CF	131	VAL
30	CF	146	ASP
30	CF	149	ARG
30	CF	151	LEU
30	CF	154	THR
30	CF	157	THR
30	CF	173	ASP
31	CG	5	LYS
31	CG	9	VAL
31	CG	10	VAL
31	CG	14	VAL
31	CG	22	VAL
31	CG	26	LYS

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Mol	Chain	Res	Type
31	CG	29	ASN
31	CG	31	GLU
31	CG	41	GLU
31	CG	42	VAL
31	CG	49	LEU
31	CG	76	ILE
31	CG	79	THR
31	CG	91	VAL
31	CG	100	ASN
31	CG	105	SER
31	CG	123	GLU
31	CG	130	ILE
31	CG	138	GLN
31	CG	148	ARG
31	CG	154	GLU
31	CG	155	PRO
31	CG	159	LYS
31	CG	165	ASP
31	CG	167	VAL
31	CG	169	ARG
31	CG	170	THR
32	CH	1	MET
32	CH	3	VAL
32	CH	7	ASP
32	CH	8	LYS
32	CH	15	LEU
32	CH	18	GLN
32	CH	19	VAL
32	CH	27	ARG
32	CH	37	VAL
32	CH	48	GLU
32	CH	50	ARG
32	CH	60	GLU
32	CH	66	ASN
32	CH	72	ILE
32	CH	75	LEU
32	CH	76	GLU
32	CH	77	THR
32	CH	78	VAL
32	CH	87	GLU
32	CH	90	LEU
32	CH	112	LYS

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Mol	Chain	Res	Type
32	CH	113	SER
32	CH	116	ARG
32	CH	123	ARG
32	CH	124	THR
32	CH	131	SER
32	CH	146	VAL
33	CI	2	LYS
33	CI	7	TYR
33	CI	8	VAL
33	CI	10	LEU
33	CI	11	GLN
33	CI	16	MET
33	CI	27	LEU
33	CI	30	GLN
33	CI	33	ASN
33	CI	37	PHE
33	CI	38	CYS
33	CI	39	LYS
33	CI	44	LYS
33	CI	46	ASP
33	CI	49	GLU
33	CI	56	VAL
33	CI	61	TYR
33	CI	66	PHE
33	CI	67	THR
33	CI	68	PHE
33	CI	71	LYS
33	CI	81	LYS
33	CI	85	ILE
33	CI	86	LYS
33	CI	93	ASN
33	CI	95	ASP
33	CI	96	LYS
33	CI	100	ILE
33	CI	101	SER
33	CI	102	ARG
33	CI	107	GLU
33	CI	125	THR
33	CI	126	ARG
33	CI	135	MET
33	CI	139	VAL
34	CJ	1	MET

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Mol	Chain	Res	Type
34	CJ	4	PHE
34	CJ	5	THR
34	CJ	9	GLU
34	CJ	17	VAL
34	CJ	23	LYS
34	CJ	30	THR
34	CJ	43	GLU
34	CJ	48	VAL
34	CJ	61	LYS
34	CJ	64	VAL
34	CJ	65	THR
34	CJ	70	THR
34	CJ	81	ILE
34	CJ	84	ILE
34	CJ	100	VAL
34	CJ	101	ILE
34	CJ	124	VAL
34	CJ	131	ASN
34	CJ	135	GLN
34	CJ	142	ILE
35	CK	8	LEU
35	CK	19	VAL
35	CK	20	MET
35	CK	28	SER
35	CK	31	ARG
35	CK	32	TYR
35	CK	38	ILE
35	CK	42	THR
35	CK	58	LEU
35	CK	63	VAL
35	CK	66	LYS
35	CK	77	ILE
35	CK	80	ASP
35	CK	82	ASN
35	CK	88	ASN
35	CK	92	GLU
35	CK	103	VAL
35	CK	121	GLU
36	CL	5	THR
36	CL	13	LYS
36	CL	19	LEU
36	CL	21	ARG

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Mol	Chain	Res	Type
36	CL	27	LEU
36	CL	33	ARG
36	CL	40	SER
36	CL	47	ARG
36	CL	67	THR
36	CL	69	ARG
36	CL	76	GLU
36	CL	82	LEU
36	CL	85	VAL
36	CL	86	GLU
36	CL	89	VAL
36	CL	92	LEU
36	CL	93	ASN
36	CL	94	THR
36	CL	95	LEU
36	CL	100	ILE
36	CL	115	GLU
36	CL	125	LEU
36	CL	127	VAL
36	CL	142	ILE
36	CL	144	GLU
37	CM	5	LYS
37	CM	7	THR
37	CM	12	MET
37	CM	16	ARG
37	CM	24	THR
37	CM	25	ASP
37	CM	30	SER
37	CM	36	VAL
37	CM	40	ARG
37	CM	47	GLU
37	CM	50	ARG
37	CM	55	ARG
37	CM	57	VAL
37	CM	60	GLN
37	CM	69	PRO
37	CM	70	ASP
37	CM	74	THR
37	CM	82	MET
37	CM	89	VAL
37	CM	100	LYS
37	CM	108	VAL

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Mol	Chain	Res	Type
37	CM	110	GLU
37	CM	111	GLU
37	CM	115	GLU
37	CM	129	THR
37	CM	131	VAL
37	CM	134	THR
37	CM	135	VAL
38	CN	2	ARG
38	CN	6	SER
38	CN	13	ASN
38	CN	15	SER
38	CN	20	MET
38	CN	36	THR
38	CN	37	THR
38	CN	39	PRO
38	CN	48	VAL
38	CN	56	LYS
38	CN	57	THR
38	CN	65	LEU
38	CN	69	ARG
38	CN	70	THR
38	CN	71	ARG
38	CN	89	SER
38	CN	97	ILE
38	CN	114	GLU
38	CN	116	VAL
38	CN	120	GLU
39	CO	4	LYS
39	CO	9	ARG
39	CO	17	LYS
39	CO	18	LEU
39	CO	25	ARG
39	CO	28	VAL
39	CO	38	GLN
39	CO	45	SER
39	CO	47	VAL
39	CO	49	VAL
39	CO	62	LEU
39	CO	63	LYS
39	CO	65	THR
39	CO	74	VAL
39	CO	78	VAL

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Mol	Chain	Res	Type
39	CO	88	LYS
39	CO	89	ASP
39	CO	106	LEU
39	CO	111	ARG
39	CO	112	GLU
39	CO	115	LEU
40	CP	2	ASN
40	CP	3	ILE
40	CP	6	GLN
40	CP	15	ASP
40	CP	18	SER
40	CP	26	GLU
40	CP	31	VAL
40	CP	45	VAL
40	CP	62	LYS
40	CP	67	GLU
40	CP	72	VAL
40	CP	74	GLN
40	CP	80	VAL
40	CP	92	ARG
40	CP	95	LYS
40	CP	102	ARG
40	CP	108	ARG
40	CP	109	ILE
40	CP	110	LYS
40	CP	111	GLU
40	CP	113	LEU
40	CP	114	ASN
41	CQ	3	VAL
41	CQ	5	ARG
41	CQ	7	VAL
41	CQ	8	ILE
41	CQ	10	ARG
41	CQ	16	ILE
41	CQ	17	LEU
41	CQ	18	LYS
41	CQ	33	VAL
41	CQ	39	ILE
41	CQ	50	ARG
41	CQ	91	ARG
41	CQ	97	ILE
42	CR	1	MET

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Mol	Chain	Res	Type
42	CR	14	VAL
42	CR	20	VAL
42	CR	27	ILE
42	CR	38	VAL
42	CR	39	LEU
42	CR	43	ASN
42	CR	46	GLU
42	CR	47	VAL
42	CR	48	LYS
42	CR	58	VAL
42	CR	62	GLU
42	CR	64	VAL
42	CR	83	TYR
42	CR	85	LYS
42	CR	94	THR
43	CS	4	ILE
43	CS	6	LYS
43	CS	12	SER
43	CS	19	LEU
43	CS	28	LYS
43	CS	35	ILE
43	CS	69	LEU
43	CS	73	LYS
43	CS	81	SER
43	CS	95	ARG
43	CS	96	ILE
43	CS	97	LEU
43	CS	107	VAL
43	CS	109	ASP
44	CT	28	ASN
44	CT	30	ILE
44	CT	34	VAL
44	CT	36	LYS
44	CT	37	ASP
44	CT	39	THR
44	CT	49	LYS
44	CT	52	GLU
44	CT	57	VAL
44	CT	60	THR
44	CT	74	ILE
44	CT	77	ARG
44	CT	91	GLN

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Mol	Chain	Res	Type
45	CU	7	ASP
45	CU	8	ASP
45	CU	11	ILE
45	CU	17	ASP
45	CU	20	LYS
45	CU	23	LYS
45	CU	25	LYS
45	CU	28	LEU
45	CU	30	SER
45	CU	33	VAL
45	CU	48	VAL
45	CU	51	LEU
45	CU	57	ILE
45	CU	60	LYS
45	CU	64	ILE
45	CU	67	SER
45	CU	71	ILE
45	CU	85	ARG
45	CU	99	SER
46	CV	1	MET
46	CV	3	THR
46	CV	8	VAL
46	CV	10	LYS
46	CV	11	GLU
46	CV	19	ARG
46	CV	29	ILE
46	CV	43	ASP
46	CV	53	LYS
46	CV	60	VAL
46	CV	61	LEU
46	CV	62	THR
46	CV	65	VAL
46	CV	70	ILE
46	CV	77	VAL
47	CW	16	ARG
47	CW	20	LYS
47	CW	25	GLU
47	CW	34	VAL
47	CW	35	ARG
47	CW	40	LYS
47	CW	60	ASP
47	CW	66	GLU

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Mol	Chain	Res	Type
47	CW	68	LYS
47	CW	71	LYS
47	CW	77	SER
47	CW	78	ILE
48	CX	4	CYS
48	CX	21	LEU
48	CX	27	ARG
48	CX	36	ARG
48	CX	39	VAL
48	CX	40	GLU
48	CX	43	LYS
48	CX	46	VAL
48	CX	57	VAL
48	CX	58	ILE
48	CX	70	LEU
48	CX	76	LYS
49	CY	2	LYS
49	CY	6	LEU
49	CY	13	GLU
49	CY	16	THR
49	CY	22	LEU
49	CY	29	ARG
49	CY	37	LEU
49	CY	44	LYS
49	CY	54	LYS
49	CY	58	ASN
49	CY	59	GLU
50	CZ	2	LYS
50	CZ	7	THR
50	CZ	9	THR
50	CZ	20	LYS
50	CZ	24	LEU
50	CZ	31	ILE
50	CZ	38	GLU
50	CZ	44	ARG
50	CZ	47	ILE
50	CZ	56	VAL
50	CZ	57	GLU
50	CZ	58	GLU
51	C0	3	GLN
51	C0	9	ARG
51	C0	19	ASP

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Mol	Chain	Res	Type
51	C0	35	GLU
51	C0	39	ARG
51	C0	52	LYS
52	C1	5	ARG
52	C1	7	LYS
52	C1	9	LYS
52	C1	10	LEU
52	C1	32	LYS
52	C1	34	GLU
52	C1	35	LEU
52	C1	42	VAL
52	C1	46	VAL
52	C1	50	GLU
53	C2	1	MET
53	C2	11	LYS
53	C2	12	ARG
53	C2	22	MET
53	C2	34	ARG
53	C2	42	LEU
54	C3	15	LYS
54	C3	16	THR
54	C3	29	ARG
54	C3	30	HIS
54	C3	37	THR
54	C3	40	LYS
54	C3	44	ARG
54	C3	46	LYS
54	C3	58	ILE
55	C4	2	LYS
55	C4	3	VAL
55	C4	6	SER
55	C4	16	ILE
55	C4	17	VAL
55	C4	20	ASP
55	C4	35	GLN
27	DC	2	VAL
27	DC	5	CYS
27	DC	8	THR
27	DC	19	VAL
27	DC	20	ASN
27	DC	27	LYS
27	DC	35	LYS

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Mol	Chain	Res	Type
27	DC	47	ARG
27	DC	50	THR
27	DC	51	ARG
27	DC	52	HIS
27	DC	58	LYS
27	DC	62	ARG
27	DC	63	ILE
27	DC	73	ILE
27	DC	76	VAL
27	DC	78	GLU
27	DC	79	ARG
27	DC	87	SER
27	DC	93	VAL
27	DC	103	ILE
27	DC	104	LEU
27	DC	109	LEU
27	DC	110	LYS
27	DC	117	SER
27	DC	119	VAL
27	DC	140	VAL
27	DC	153	LEU
27	DC	159	THR
27	DC	167	ASP
27	DC	173	LEU
27	DC	174	ARG
27	DC	181	ARG
27	DC	184	GLU
27	DC	186	ASP
27	DC	188	ARG
27	DC	194	VAL
27	DC	200	MET
27	DC	201	LEU
27	DC	204	LEU
27	DC	215	VAL
27	DC	235	GLU
27	DC	249	VAL
27	DC	250	GLN
27	DC	255	LYS
27	DC	261	ARG
27	DC	264	LYS
27	DC	266	ILE
27	DC	271	SER

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Mol	Chain	Res	Type
28	DD	1	MET
28	DD	4	LEU
28	DD	9	VAL
28	DD	11	MET
28	DD	22	ILE
28	DD	27	ILE
28	DD	28	GLU
28	DD	42	ASN
28	DD	49	GLN
28	DD	50	VAL
28	DD	52	THR
28	DD	55	LYS
28	DD	60	VAL
28	DD	73	VAL
28	DD	74	GLU
28	DD	80	TRP
28	DD	84	LEU
28	DD	86	GLU
28	DD	91	THR
28	DD	95	SER
28	DD	100	LEU
28	DD	103	ASP
28	DD	107	VAL
28	DD	136	ASN
28	DD	141	ARG
28	DD	142	VAL
28	DD	150	GLN
28	DD	165	MET
28	DD	170	VAL
28	DD	172	VAL
28	DD	177	VAL
28	DD	186	LEU
28	DD	189	VAL
29	DE	6	LYS
29	DE	22	ASP
29	DE	32	VAL
29	DE	33	VAL
29	DE	40	ARG
29	DE	43	THR
29	DE	44	ARG
29	DE	58	LYS
29	DE	63	LYS

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Mol	Chain	Res	Type
29	DE	65	THR
29	DE	69	ARG
29	DE	77	ILE
29	DE	78	TRP
29	DE	88	ARG
29	DE	90	GLN
29	DE	93	SER
29	DE	108	ILE
29	DE	109	LEU
29	DE	113	VAL
29	DE	114	ARG
29	DE	118	LEU
29	DE	120	VAL
29	DE	123	LYS
29	DE	127	GLU
29	DE	130	LYS
29	DE	131	THR
29	DE	144	GLU
29	DE	146	VAL
29	DE	149	ILE
29	DE	154	ASP
29	DE	156	ASN
29	DE	158	PHE
29	DE	159	LEU
29	DE	163	ASN
29	DE	164	LEU
29	DE	167	VAL
29	DE	168	ASP
29	DE	170	ARG
29	DE	171	ASP
29	DE	173	THR
29	DE	178	VAL
29	DE	179	SER
29	DE	180	LEU
29	DE	181	ILE
29	DE	189	THR
29	DE	195	GLN
29	DE	198	GLU
29	DE	200	LEU
30	DF	3	LEU
30	DF	9	ASP
30	DF	13	LYS

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Mol	Chain	Res	Type
30	DF	19	PHE
30	DF	20	ASN
30	DF	25	MET
30	DF	30	VAL
30	DF	34	THR
30	DF	35	LEU
30	DF	43	ILE
30	DF	51	ASN
30	DF	63	LYS
30	DF	65	LEU
30	DF	66	ILE
30	DF	73	VAL
30	DF	79	ARG
30	DF	80	GLN
30	DF	82	TYR
30	DF	89	THR
30	DF	91	ARG
30	DF	94	ARG
30	DF	102	LEU
30	DF	103	ILE
30	DF	105	ILE
30	DF	124	ARG
30	DF	131	VAL
30	DF	132	ARG
30	DF	140	ILE
30	DF	146	ASP
30	DF	148	VAL
30	DF	149	ARG
30	DF	156	THR
30	DF	173	ASP
30	DF	177	ARG
31	DG	10	VAL
31	DG	28	LYS
31	DG	43	LYS
31	DG	50	THR
31	DG	73	SER
31	DG	76	ILE
31	DG	83	THR
31	DG	88	LEU
31	DG	103	ASN
31	DG	112	VAL
31	DG	115	GLN

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Mol	Chain	Res	Type
31	DG	116	LEU
31	DG	128	THR
31	DG	131	VAL
31	DG	132	LEU
31	DG	140	ILE
31	DG	151	ARG
31	DG	154	GLU
31	DG	159	LYS
31	DG	165	ASP
31	DG	171	LYS
31	DG	172	GLU
32	DH	7	ASP
32	DH	12	LEU
32	DH	14	SER
32	DH	15	LEU
32	DH	17	ASP
32	DH	37	VAL
32	DH	42	LYS
32	DH	44	ILE
32	DH	48	GLU
32	DH	50	ARG
32	DH	54	LEU
32	DH	60	GLU
32	DH	61	VAL
32	DH	62	LEU
32	DH	72	ILE
32	DH	76	GLU
32	DH	77	THR
32	DH	78	VAL
32	DH	79	THR
32	DH	82	SER
32	DH	87	GLU
32	DH	129	GLU
32	DH	131	SER
32	DH	136	SER
32	DH	145	ASN
33	DI	3	LYS
33	DI	7	TYR
33	DI	10	LEU
33	DI	11	GLN
33	DI	16	MET
33	DI	23	VAL

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Mol	Chain	Res	Type
33	DI	27	LEU
33	DI	30	GLN
33	DI	39	LYS
33	DI	48	ILE
33	DI	50	LYS
33	DI	54	ILE
33	DI	67	THR
33	DI	68	PHE
33	DI	71	LYS
33	DI	79	LEU
33	DI	85	ILE
33	DI	91	LYS
33	DI	94	LYS
33	DI	95	ASP
33	DI	96	LYS
33	DI	102	ARG
33	DI	104	GLN
33	DI	107	GLU
33	DI	116	MET
33	DI	117	THR
33	DI	124	MET
33	DI	126	ARG
33	DI	129	GLU
33	DI	133	ARG
33	DI	135	MET
34	DJ	1	MET
34	DJ	2	LYS
34	DJ	3	THR
34	DJ	11	VAL
34	DJ	17	VAL
34	DJ	28	LEU
34	DJ	30	THR
34	DJ	37	ARG
34	DJ	39	LYS
34	DJ	40	HIS
34	DJ	43	GLU
34	DJ	54	ILE
34	DJ	58	ASN
34	DJ	64	VAL
34	DJ	72	LYS
34	DJ	81	ILE
34	DJ	84	ILE

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Mol	Chain	Res	Type
34	DJ	86	GLN
34	DJ	96	ARG
34	DJ	101	ILE
34	DJ	103	ILE
34	DJ	111	LYS
34	DJ	116	ARG
34	DJ	119	PHE
34	DJ	121	LYS
34	DJ	131	ASN
34	DJ	139	VAL
34	DJ	140	LEU
34	DJ	142	ILE
35	DK	1	MET
35	DK	4	GLU
35	DK	47	ILE
35	DK	49	ARG
35	DK	53	LYS
35	DK	58	LEU
35	DK	61	VAL
35	DK	67	LYS
35	DK	70	ARG
35	DK	73	ASP
35	DK	80	ASP
35	DK	86	LEU
35	DK	90	ASN
35	DK	92	GLU
35	DK	95	ILE
35	DK	97	THR
35	DK	104	THR
35	DK	110	GLU
35	DK	116	ILE
35	DK	118	LEU
36	DL	4	ASN
36	DL	5	THR
36	DL	6	LEU
36	DL	10	GLU
36	DL	12	SER
36	DL	27	LEU
36	DL	35	HIS
36	DL	42	SER
36	DL	46	VAL
36	DL	47	ARG

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Mol	Chain	Res	Type
36	DL	59	ARG
36	DL	60	ARG
36	DL	74	THR
36	DL	82	LEU
36	DL	85	VAL
36	DL	90	VAL
36	DL	94	THR
36	DL	95	LEU
36	DL	100	ILE
36	DL	103	ILE
36	DL	107	PHE
36	DL	111	ILE
36	DL	116	VAL
36	DL	118	THR
36	DL	121	THR
36	DL	126	ARG
36	DL	143	GLU
37	DM	2	LEU
37	DM	12	MET
37	DM	14	LYS
37	DM	20	LEU
37	DM	33	LEU
37	DM	36	VAL
37	DM	46	ILE
37	DM	54	THR
37	DM	57	VAL
37	DM	66	ARG
37	DM	69	PRO
37	DM	70	ASP
37	DM	74	THR
37	DM	78	LEU
37	DM	93	VAL
37	DM	100	LYS
37	DM	108	VAL
37	DM	111	GLU
37	DM	118	LYS
37	DM	124	LEU
37	DM	126	ILE
37	DM	127	LYS
37	DM	128	THR
37	DM	129	THR
37	DM	132	THR

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Mol	Chain	Res	Type
37	DM	134	THR
37	DM	136	MET
38	DN	6	SER
38	DN	8	ARG
38	DN	14	SER
38	DN	20	MET
38	DN	22	ARG
38	DN	24	MET
38	DN	34	ILE
38	DN	40	LYS
38	DN	51	LEU
38	DN	63	ARG
38	DN	69	ARG
38	DN	70	THR
38	DN	71	ARG
38	DN	74	GLU
38	DN	76	VAL
38	DN	79	LEU
38	DN	81	ASN
38	DN	82	GLU
38	DN	95	THR
38	DN	97	ILE
38	DN	116	VAL
39	DO	4	LYS
39	DO	8	ILE
39	DO	15	ARG
39	DO	24	THR
39	DO	26	LEU
39	DO	28	VAL
39	DO	31	THR
39	DO	45	SER
39	DO	47	VAL
39	DO	48	LEU
39	DO	52	SER
39	DO	62	LEU
39	DO	67	ASN
39	DO	74	VAL
39	DO	78	VAL
39	DO	88	LYS
39	DO	89	ASP
39	DO	95	SER
39	DO	100	HIS

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Mol	Chain	Res	Type
39	DO	103	VAL
39	DO	106	LEU
39	DO	116	GLN
39	DO	117	PHE
40	DP	1	SER
40	DP	6	GLN
40	DP	7	LEU
40	DP	18	SER
40	DP	25	VAL
40	DP	31	VAL
40	DP	33	GLU
40	DP	36	LYS
40	DP	38	ARG
40	DP	50	ARG
40	DP	51	ASN
40	DP	54	LEU
40	DP	56	SER
40	DP	63	ILE
40	DP	65	ASN
40	DP	69	VAL
40	DP	72	VAL
40	DP	74	GLN
40	DP	79	VAL
40	DP	80	VAL
40	DP	84	SER
40	DP	92	ARG
40	DP	93	LYS
40	DP	109	ILE
40	DP	113	LEU
41	DQ	7	VAL
41	DQ	8	ILE
41	DQ	10	ARG
41	DQ	16	ILE
41	DQ	21	LYS
41	DQ	40	LYS
41	DQ	50	ARG
41	DQ	52	ARG
41	DQ	53	LYS
41	DQ	86	SER
41	DQ	91	ARG
41	DQ	93	ILE
41	DQ	99	VAL

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Mol	Chain	Res	Type
41	DQ	108	LEU
41	DQ	110	GLU
42	DR	10	LYS
42	DR	12	HIS
42	DR	14	VAL
42	DR	18	GLN
42	DR	22	LEU
42	DR	38	VAL
42	DR	39	LEU
42	DR	46	GLU
42	DR	47	VAL
42	DR	48	LYS
42	DR	49	ILE
42	DR	51	VAL
42	DR	53	PHE
42	DR	58	VAL
42	DR	72	VAL
42	DR	73	LYS
42	DR	81	LYS
42	DR	84	ARG
42	DR	86	GLN
42	DR	94	THR
42	DR	99	THR
43	DS	2	GLU
43	DS	4	ILE
43	DS	6	LYS
43	DS	9	HIS
43	DS	19	LEU
43	DS	28	LYS
43	DS	29	VAL
43	DS	39	THR
43	DS	40	ASN
43	DS	41	LYS
43	DS	47	VAL
43	DS	62	ASP
43	DS	66	ILE
43	DS	67	ASP
43	DS	80	PRO
43	DS	81	SER
43	DS	86	MET
43	DS	96	ILE
43	DS	97	LEU

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Mol	Chain	Res	Type
43	DS	104	THR
43	DS	109	ASP
44	DT	3	ARG
44	DT	5	GLU
44	DT	7	LEU
44	DT	16	VAL
44	DT	18	GLU
44	DT	24	MET
44	DT	25	GLU
44	DT	26	LYS
44	DT	28	ASN
44	DT	30	ILE
44	DT	31	VAL
44	DT	32	LEU
44	DT	34	VAL
44	DT	39	THR
44	DT	42	GLU
44	DT	50	LEU
44	DT	52	GLU
44	DT	60	THR
44	DT	61	LEU
44	DT	63	VAL
44	DT	70	HIS
44	DT	74	ILE
44	DT	77	ARG
44	DT	82	LYS
44	DT	86	THR
44	DT	89	GLU
44	DT	91	GLN
45	DU	5	ARG
45	DU	6	ARG
45	DU	14	THR
45	DU	24	VAL
45	DU	25	LYS
45	DU	26	ASN
45	DU	27	VAL
45	DU	28	LEU
45	DU	30	SER
45	DU	39	ASN
45	DU	40	LEU
45	DU	44	HIS
45	DU	45	GLN

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Mol	Chain	Res	Type
45	DU	52	ASN
45	DU	53	GLN
45	DU	59	GLU
45	DU	67	SER
45	DU	71	ILE
45	DU	92	VAL
45	DU	98	ASN
45	DU	99	SER
46	DV	1	MET
46	DV	3	THR
46	DV	8	VAL
46	DV	10	LYS
46	DV	29	ILE
46	DV	40	ILE
46	DV	42	LEU
46	DV	45	ASP
46	DV	50	MET
46	DV	53	LYS
46	DV	55	GLU
46	DV	61	LEU
46	DV	65	VAL
46	DV	70	ILE
46	DV	77	VAL
46	DV	80	HIS
46	DV	86	LEU
46	DV	87	GLN
57	DW	16	ARG
57	DW	25	GLU
57	DW	26	SER
57	DW	34	VAL
57	DW	66	GLU
57	DW	77	SER
57	DW	79	GLU
48	DX	2	ARG
48	DX	9	LYS
48	DX	24	THR
48	DX	32	LEU
48	DX	40	GLU
48	DX	42	GLU
48	DX	47	THR
48	DX	50	VAL
48	DX	53	LYS

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Mol	Chain	Res	Type
48	DX	63	ILE
48	DX	65	THR
48	DX	70	LEU
48	DX	73	ARG
49	DY	1	MET
49	DY	2	LYS
49	DY	6	LEU
49	DY	8	GLU
49	DY	13	GLU
49	DY	15	ASN
49	DY	16	THR
49	DY	29	ARG
49	DY	40	SER
49	DY	55	THR
49	DY	57	LEU
50	DZ	2	LYS
50	DZ	5	LYS
50	DZ	6	ILE
50	DZ	9	THR
50	DZ	10	ARG
50	DZ	15	ARG
50	DZ	24	LEU
50	DZ	30	ARG
50	DZ	31	ILE
50	DZ	34	THR
50	DZ	35	VAL
50	DZ	40	THR
50	DZ	44	ARG
50	DZ	53	MET
51	D0	22	THR
51	D0	24	VAL
51	D0	27	LEU
51	D0	39	ARG
51	D0	45	ASP
51	D0	51	ARG
51	D0	54	ILE
52	D1	4	ILE
52	D1	9	LYS
52	D1	11	VAL
52	D1	24	LYS
52	D1	27	ARG
52	D1	34	GLU

Continued on next page...

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Mol	Chain	Res	Type
52	D1	37	LYS
52	D1	42	VAL
52	D1	50	GLU
53	D2	1	MET
53	D2	4	THR
53	D2	24	THR
53	D2	41	ARG
53	D2	44	VAL
54	D3	12	ARG
54	D3	29	ARG
54	D3	30	HIS
54	D3	35	LYS
54	D3	38	LYS
55	D4	3	VAL
55	D4	4	ARG
55	D4	17	VAL
55	D4	26	ILE
55	D4	35	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (250) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	14	HIS
2	AB	18	GLN
2	AB	50	ASN
2	AB	189	ASN
3	AC	5	HIS
3	AC	24	ASN
4	AD	39	GLN
4	AD	53	GLN
4	AD	115	GLN
4	AD	119	HIS
4	AD	130	ASN
4	AD	163	GLN
4	AD	195	ASN
4	AD	197	HIS
5	AE	11	GLN
5	AE	72	ASN
5	AE	81	GLN
5	AE	82	HIS
5	AE	88	HIS
5	AE	121	ASN

Continued on next page...

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Mol	Chain	Res	Type
5	AE	131	ASN
5	AE	147	ASN
6	AF	3	HIS
6	AF	55	HIS
7	AG	129	ASN
7	AG	141	HIS
8	AH	3	GLN
8	AH	15	ASN
9	AI	3	ASN
9	AI	24	ASN
9	AI	74	GLN
10	AJ	56	HIS
11	AK	21	HIS
11	AK	23	HIS
11	AK	27	ASN
11	AK	100	ASN
11	AK	108	ASN
11	AK	118	ASN
12	AL	19	ASN
12	AL	111	GLN
13	AM	13	HIS
13	AM	90	HIS
14	AN	60	GLN
14	AN	66	GLN
15	AO	37	HIS
15	AO	39	GLN
16	AP	18	GLN
17	AQ	49	ASN
19	AS	51	HIS
19	AS	56	HIS
20	AT	12	GLN
20	AT	19	HIS
20	AT	20	ASN
20	AT	47	GLN
20	AT	51	ASN
20	AT	74	HIS
24	AY	54	GLN
2	BB	14	HIS
2	BB	17	HIS
2	BB	38	HIS
2	BB	50	ASN
2	BB	93	HIS

Continued on next page...

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Mol	Chain	Res	Type
2	BB	167	HIS
2	BB	169	HIS
2	BB	177	ASN
2	BB	202	ASN
3	BC	5	HIS
3	BC	68	HIS
3	BC	122	GLN
3	BC	175	HIS
4	BD	119	HIS
4	BD	197	HIS
5	BE	96	GLN
5	BE	121	ASN
6	BF	17	GLN
6	BF	52	ASN
6	BF	63	ASN
7	BG	27	ASN
7	BG	51	GLN
7	BG	67	ASN
7	BG	129	ASN
8	BH	17	GLN
8	BH	20	ASN
8	BH	66	GLN
9	BI	24	ASN
9	BI	36	GLN
9	BI	125	GLN
10	BJ	58	ASN
10	BJ	64	GLN
10	BJ	70	HIS
10	BJ	99	GLN
11	BK	14	GLN
11	BK	23	HIS
11	BK	27	ASN
11	BK	39	ASN
11	BK	117	HIS
11	BK	118	ASN
12	BL	4	ASN
12	BL	19	ASN
12	BL	72	ASN
12	BL	74	GLN
13	BM	90	HIS
14	BN	71	HIS
15	BO	34	GLN

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Mol	Chain	Res	Type
15	BO	61	GLN
16	BP	26	ASN
16	BP	79	ASN
17	BQ	8	GLN
17	BQ	30	HIS
17	BQ	46	HIS
18	BR	51	GLN
18	BR	53	GLN
19	BS	56	HIS
19	BS	68	HIS
20	BT	2	ASN
20	BT	19	HIS
20	BT	20	ASN
20	BT	47	GLN
20	BT	60	GLN
20	BT	67	HIS
27	CC	85	ASN
27	CC	133	ASN
27	CC	141	HIS
27	CC	242	HIS
28	CD	42	ASN
28	CD	67	HIS
28	CD	136	ASN
29	CE	90	GLN
29	CE	94	GLN
29	CE	136	GLN
29	CE	163	ASN
29	CE	165	HIS
30	CF	4	HIS
30	CF	20	ASN
30	CF	36	ASN
30	CF	51	ASN
30	CF	62	GLN
31	CG	72	ASN
31	CG	100	ASN
31	CG	114	HIS
31	CG	127	GLN
32	CH	135	HIS
33	CI	18	ASN
34	CJ	58	ASN
34	CJ	77	HIS
34	CJ	80	HIS

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Mol	Chain	Res	Type
35	CK	5	GLN
35	CK	13	ASN
35	CK	82	ASN
36	CL	35	HIS
37	CM	13	HIS
37	CM	60	GLN
38	CN	13	ASN
38	CN	18	GLN
38	CN	31	HIS
38	CN	62	ASN
38	CN	73	ASN
39	CO	29	HIS
39	CO	61	GLN
40	CP	2	ASN
40	CP	11	GLN
40	CP	40	GLN
40	CP	65	ASN
41	CQ	80	ASN
42	CR	12	HIS
42	CR	43	ASN
42	CR	87	GLN
42	CR	89	HIS
43	CS	9	HIS
43	CS	57	ASN
43	CS	60	HIS
44	CT	28	ASN
44	CT	59	ASN
45	CU	68	ASN
45	CU	73	ASN
48	CX	19	HIS
49	CY	25	GLN
49	CY	58	ASN
51	C0	3	GLN
51	C0	41	HIS
52	C1	18	HIS
52	C1	45	HIS
53	C2	26	ASN
54	C3	42	HIS
27	DC	24	HIS
27	DC	57	HIS
27	DC	141	HIS
27	DC	250	GLN

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Mol	Chain	Res	Type
28	DD	42	ASN
28	DD	58	ASN
28	DD	67	HIS
28	DD	134	HIS
28	DD	150	GLN
29	DE	90	GLN
29	DE	92	HIS
29	DE	156	ASN
29	DE	163	ASN
29	DE	195	GLN
30	DF	20	ASN
30	DF	22	ASN
30	DF	36	ASN
31	DG	72	ASN
31	DG	103	ASN
32	DH	128	HIS
32	DH	135	HIS
33	DI	11	GLN
33	DI	29	GLN
33	DI	33	ASN
33	DI	42	ASN
33	DI	93	ASN
34	DJ	58	ASN
34	DJ	86	GLN
35	DK	5	GLN
35	DK	93	GLN
36	DL	4	ASN
36	DL	35	HIS
37	DM	97	GLN
38	DN	3	HIS
38	DN	73	ASN
39	DO	43	ASN
40	DP	51	ASN
40	DP	65	ASN
40	DP	74	GLN
41	DQ	36	GLN
41	DQ	55	GLN
42	DR	87	GLN
43	DS	9	HIS
43	DS	57	ASN
44	DT	28	ASN
44	DT	91	GLN

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Mol	Chain	Res	Type
44	DT	92	ASN
45	DU	39	ASN
45	DU	53	GLN
46	DV	24	ASN
46	DV	75	GLN
46	DV	87	GLN
57	DW	8	ASN
57	DW	53	HIS
48	DX	16	ASN
49	DY	20	ASN
49	DY	36	GLN
51	D0	37	HIS
52	D1	18	HIS
52	D1	25	ASN
52	D1	44	GLN
52	D1	45	HIS
53	D2	26	ASN
53	D2	29	GLN
55	D4	13	ASN
55	D4	35	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1537/1539 (99%)	442 (28%)	28 (1%)
1	BA	1538/1539 (99%)	446 (28%)	20 (1%)
22	AV	75/76 (98%)	29 (38%)	1 (1%)
22	BV	75/76 (98%)	15 (20%)	1 (1%)
23	AX	14/16 (87%)	5 (35%)	0
23	BX	15/16 (93%)	4 (26%)	0
25	CA	2895/2903 (99%)	754 (26%)	53 (1%)
25	DA	2893/2903 (99%)	765 (26%)	48 (1%)
26	CB	118/119 (99%)	24 (20%)	1 (0%)
56	DB	117/118 (99%)	34 (29%)	3 (2%)
All	All	9277/9305 (99%)	2518 (27%)	155 (1%)

All (2518) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	6	G

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Mol	Chain	Res	Type
1	AA	7	A
1	AA	9	G
1	AA	12	U
1	AA	13	U
1	AA	15	G
1	AA	22	G
1	AA	28	A
1	AA	32	A
1	AA	39	G
1	AA	44	A
1	AA	45	G
1	AA	47	C
1	AA	48	C
1	AA	49	U
1	AA	51	A
1	AA	62	U
1	AA	67	C
1	AA	69	G
1	AA	70	U
1	AA	71	A
1	AA	72	A
1	AA	75	G
1	AA	76	G
1	AA	77	A
1	AA	80	A
1	AA	82	G
1	AA	83	C
1	AA	84	U
1	AA	85	U
1	AA	86	G
1	AA	89	U
1	AA	90	C
1	AA	91	U
1	AA	92	U
1	AA	94	G
1	AA	95	C
1	AA	97	G
1	AA	108	G
1	AA	109	A
1	AA	111	G
1	AA	116	A
1	AA	117	G

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Mol	Chain	Res	Type
1	AA	120	A
1	AA	121	U
1	AA	122	G
1	AA	130	A
1	AA	131	A
1	AA	137	U
1	AA	139	A
1	AA	142	G
1	AA	143	A
1	AA	144	G
1	AA	149	A
1	AA	159	G
1	AA	162	A
1	AA	163	C
1	AA	164	G
1	AA	168	G
1	AA	176	C
1	AA	181	A
1	AA	182	A
1	AA	183	C
1	AA	195	A
1	AA	200	G
1	AA	204	G
1	AA	205	A
1	AA	209	U
1	AA	210	C
1	AA	213	G
1	AA	220	G
1	AA	226	G
1	AA	240	G
1	AA	245	U
1	AA	247	G
1	AA	251	G
1	AA	260	G
1	AA	262	A
1	AA	263	A
1	AA	266	G
1	AA	267	C
1	AA	278	G
1	AA	279	A
1	AA	280	C
1	AA	289	G

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Mol	Chain	Res	Type
1	AA	290	C
1	AA	300	A
1	AA	308	C
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	331	G
1	AA	332	G
1	AA	346	G
1	AA	347	G
1	AA	352	C
1	AA	354	G
1	AA	359	G
1	AA	367	U
1	AA	370	C
1	AA	371	A
1	AA	372	C
1	AA	374	A
1	AA	382	A
1	AA	383	A
1	AA	384	G
1	AA	391	G
1	AA	398	U
1	AA	402	G
1	AA	403	C
1	AA	406	G
1	AA	407	U
1	AA	409	U
1	AA	410	G
1	AA	411	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	418	C
1	AA	420	U
1	AA	421	U
1	AA	422	C
1	AA	423	G
1	AA	424	G
1	AA	429	U
1	AA	430	A
1	AA	433	G

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Mol	Chain	Res	Type
1	AA	435	A
1	AA	439	U
1	AA	440	C
1	AA	445	G
1	AA	453	G
1	AA	456	A
1	AA	457	G
1	AA	458	U
1	AA	459	A
1	AA	460	A
1	AA	463	U
1	AA	465	A
1	AA	466	A
1	AA	467	U
1	AA	468	A
1	AA	474	G
1	AA	481	G
1	AA	482	A
1	AA	484	G
1	AA	485	U
1	AA	486	U
1	AA	490	C
1	AA	491	G
1	AA	492	C
1	AA	494	G
1	AA	495	A
1	AA	497	G
1	AA	498	A
1	AA	500	G
1	AA	501	C
1	AA	509	A
1	AA	511	C
1	AA	514	C
1	AA	515	G
1	AA	518	C
1	AA	521	G
1	AA	527	G
1	AA	530	G
1	AA	531	U
1	AA	532	A
1	AA	534	U
1	AA	547	A

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Mol	Chain	Res	Type
1	AA	550	G
1	AA	559	A
1	AA	562	U
1	AA	564	C
1	AA	570	G
1	AA	572	A
1	AA	573	A
1	AA	576	C
1	AA	578	C
1	AA	596	A
1	AA	605	U
1	AA	611	C
1	AA	615	G
1	AA	619	U
1	AA	625	U
1	AA	630	A
1	AA	631	C
1	AA	640	A
1	AA	644	U
1	AA	650	G
1	AA	652	U
1	AA	653	U
1	AA	656	G
1	AA	661	G
1	AA	665	A
1	AA	686	U
1	AA	695	A
1	AA	702	A
1	AA	703	G
1	AA	707	U
1	AA	720	C
1	AA	721	G
1	AA	723	U
1	AA	724	G
1	AA	731	G
1	AA	733	G
1	AA	755	G
1	AA	756	C
1	AA	764	C
1	AA	773	G
1	AA	774	G
1	AA	776	G

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Mol	Chain	Res	Type
1	AA	777	A
1	AA	778	G
1	AA	786	G
1	AA	787	A
1	AA	788	U
1	AA	792	A
1	AA	793	U
1	AA	794	A
1	AA	799	G
1	AA	804	U
1	AA	805	C
1	AA	815	A
1	AA	817	C
1	AA	821	G
1	AA	828	U
1	AA	829	G
1	AA	833	G
1	AA	841	C
1	AA	842	U
1	AA	843	U
1	AA	845	A
1	AA	846	G
1	AA	849	G
1	AA	854	U
1	AA	859	G
1	AA	860	A
1	AA	869	G
1	AA	883	C
1	AA	890	G
1	AA	896	C
1	AA	900	A
1	AA	902	G
1	AA	910	C
1	AA	912	C
1	AA	914	A
1	AA	919	A
1	AA	926	G
1	AA	927	G
1	AA	932	C
1	AA	934	C
1	AA	935	A
1	AA	938	A

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Mol	Chain	Res	Type
1	AA	946	A
1	AA	960	U
1	AA	963	G
1	AA	964	A
1	AA	966	G
1	AA	969	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	979	C
1	AA	982	U
1	AA	983	A
1	AA	986	U
1	AA	989	U
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	1002	G
1	AA	1004	A
1	AA	1007	U
1	AA	1008	U
1	AA	1016	A
1	AA	1017	U
1	AA	1019	A
1	AA	1021	A
1	AA	1022	A
1	AA	1025	U
1	AA	1026	G
1	AA	1027	C
1	AA	1028	C
1	AA	1030	U
1	AA	1031	C
1	AA	1032	G
1	AA	1033	G
1	AA	1034	G
1	AA	1035	A
1	AA	1036	A
1	AA	1037	C
1	AA	1039	G
1	AA	1043	G
1	AA	1044	A

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Mol	Chain	Res	Type
1	AA	1049	U
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1056	U
1	AA	1058	G
1	AA	1063	C
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1114	C
1	AA	1115	U
1	AA	1118	U
1	AA	1124	G
1	AA	1127	G
1	AA	1133	G
1	AA	1134	G
1	AA	1135	U
1	AA	1136	C
1	AA	1137	C
1	AA	1139	G
1	AA	1140	C
1	AA	1141	C
1	AA	1142	G
1	AA	1145	A
1	AA	1146	A
1	AA	1152	A
1	AA	1157	A
1	AA	1159	U
1	AA	1160	G
1	AA	1161	C
1	AA	1164	G
1	AA	1166	G
1	AA	1167	A
1	AA	1168	U
1	AA	1169	A
1	AA	1181	G

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Mol	Chain	Res	Type
1	AA	1182	G
1	AA	1183	U
1	AA	1184	G
1	AA	1187	G
1	AA	1188	A
1	AA	1190	G
1	AA	1191	A
1	AA	1192	C
1	AA	1196	A
1	AA	1197	A
1	AA	1201	A
1	AA	1202	U
1	AA	1203	C
1	AA	1212	U
1	AA	1213	A
1	AA	1215	G
1	AA	1224	U
1	AA	1227	A
1	AA	1228	C
1	AA	1235	U
1	AA	1238	A
1	AA	1239	A
1	AA	1240	U
1	AA	1256	A
1	AA	1257	A
1	AA	1259	C
1	AA	1260	G
1	AA	1271	A
1	AA	1272	G
1	AA	1275	A
1	AA	1280	A
1	AA	1284	C
1	AA	1285	A
1	AA	1286	U
1	AA	1287	A
1	AA	1293	C
1	AA	1294	G
1	AA	1297	G
1	AA	1299	A
1	AA	1300	G
1	AA	1302	C
1	AA	1303	C

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Mol	Chain	Res	Type
1	AA	1304	G
1	AA	1305	G
1	AA	1317	C
1	AA	1318	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1326	U
1	AA	1329	A
1	AA	1330	U
1	AA	1332	A
1	AA	1334	G
1	AA	1336	C
1	AA	1337	G
1	AA	1338	G
1	AA	1340	A
1	AA	1341	U
1	AA	1346	A
1	AA	1352	C
1	AA	1353	G
1	AA	1354	U
1	AA	1357	A
1	AA	1358	U
1	AA	1363	A
1	AA	1365	G
1	AA	1368	A
1	AA	1378	C
1	AA	1379	G
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1414	U
1	AA	1418	A
1	AA	1426	G
1	AA	1427	C
1	AA	1429	A
1	AA	1430	A
1	AA	1432	G
1	AA	1433	A
1	AA	1441	A
1	AA	1443	C
1	AA	1446	A

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Mol	Chain	Res	Type
1	AA	1448	C
1	AA	1452	C
1	AA	1453	G
1	AA	1455	G
1	AA	1491	G
1	AA	1492	A
1	AA	1493	A
1	AA	1497	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1526	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
1	AA	1533	C
1	AA	1534	A
1	AA	1535	C
1	AA	1539	C
22	AV	8	U
22	AV	10	G
22	AV	13	C
22	AV	16	U
22	AV	17	C
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	22	G
22	AV	26	A
22	AV	33	U
22	AV	36	A
22	AV	37	A
22	AV	38	A
22	AV	44	G
22	AV	45	U
22	AV	46	G
22	AV	47	U
22	AV	48	C
22	AV	51	U
22	AV	57	G

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Mol	Chain	Res	Type
22	AV	58	A
22	AV	59	U
22	AV	61	C
22	AV	64	A
22	AV	67	C
22	AV	74	C
22	AV	76	A
23	AX	11	U
23	AX	12	A
23	AX	13	A
23	AX	14	A
23	AX	19	U
1	BA	4	U
1	BA	5	U
1	BA	6	G
1	BA	7	A
1	BA	8	A
1	BA	9	G
1	BA	19	A
1	BA	32	A
1	BA	39	G
1	BA	47	C
1	BA	48	C
1	BA	51	A
1	BA	52	C
1	BA	62	U
1	BA	63	C
1	BA	68	G
1	BA	70	U
1	BA	71	A
1	BA	74	A
1	BA	78	A
1	BA	81	A
1	BA	83	C
1	BA	84	U
1	BA	85	U
1	BA	87	C
1	BA	88	U
1	BA	89	U
1	BA	91	U
1	BA	92	U
1	BA	97	G

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Mol	Chain	Res	Type
1	BA	99	C
1	BA	102	G
1	BA	108	G
1	BA	116	A
1	BA	120	A
1	BA	121	U
1	BA	122	G
1	BA	127	G
1	BA	130	A
1	BA	131	A
1	BA	138	G
1	BA	142	G
1	BA	143	A
1	BA	144	G
1	BA	150	U
1	BA	151	A
1	BA	154	U
1	BA	155	A
1	BA	156	C
1	BA	157	U
1	BA	159	G
1	BA	161	A
1	BA	163	C
1	BA	168	G
1	BA	176	C
1	BA	177	G
1	BA	179	A
1	BA	181	A
1	BA	182	A
1	BA	183	C
1	BA	184	G
1	BA	187	G
1	BA	189	A
1	BA	190	A
1	BA	193	C
1	BA	195	A
1	BA	197	A
1	BA	200	G
1	BA	201	G
1	BA	204	G
1	BA	205	A
1	BA	206	C

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Mol	Chain	Res	Type
1	BA	207	C
1	BA	208	U
1	BA	209	U
1	BA	210	C
1	BA	211	G
1	BA	212	G
1	BA	213	G
1	BA	214	C
1	BA	223	A
1	BA	240	G
1	BA	244	U
1	BA	245	U
1	BA	247	G
1	BA	249	U
1	BA	251	G
1	BA	253	A
1	BA	266	G
1	BA	267	C
1	BA	269	C
1	BA	275	G
1	BA	279	A
1	BA	289	G
1	BA	298	A
1	BA	308	C
1	BA	309	A
1	BA	317	U
1	BA	318	G
1	BA	320	A
1	BA	321	A
1	BA	328	C
1	BA	329	A
1	BA	330	C
1	BA	332	G
1	BA	333	U
1	BA	339	C
1	BA	341	C
1	BA	349	A
1	BA	352	C
1	BA	354	G
1	BA	367	U
1	BA	369	G
1	BA	370	C

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Mol	Chain	Res	Type
1	BA	372	C
1	BA	373	A
1	BA	378	G
1	BA	383	A
1	BA	398	U
1	BA	406	G
1	BA	409	U
1	BA	411	A
1	BA	412	A
1	BA	413	G
1	BA	421	U
1	BA	422	C
1	BA	423	G
1	BA	429	U
1	BA	430	A
1	BA	436	C
1	BA	440	C
1	BA	456	A
1	BA	458	U
1	BA	461	A
1	BA	462	G
1	BA	463	U
1	BA	464	U
1	BA	466	A
1	BA	467	U
1	BA	468	A
1	BA	469	C
1	BA	474	G
1	BA	477	C
1	BA	478	A
1	BA	481	G
1	BA	482	A
1	BA	484	G
1	BA	485	U
1	BA	486	U
1	BA	494	G
1	BA	495	A
1	BA	497	G
1	BA	498	A
1	BA	499	A
1	BA	500	G
1	BA	506	G

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Mol	Chain	Res	Type
1	BA	511	C
1	BA	518	C
1	BA	519	C
1	BA	524	G
1	BA	526	C
1	BA	527	G
1	BA	530	G
1	BA	531	U
1	BA	532	A
1	BA	533	A
1	BA	537	G
1	BA	545	C
1	BA	547	A
1	BA	550	G
1	BA	557	G
1	BA	558	G
1	BA	559	A
1	BA	560	A
1	BA	562	U
1	BA	563	A
1	BA	568	G
1	BA	572	A
1	BA	573	A
1	BA	576	C
1	BA	579	A
1	BA	580	C
1	BA	581	G
1	BA	582	C
1	BA	595	A
1	BA	614	C
1	BA	627	G
1	BA	628	G
1	BA	633	G
1	BA	638	U
1	BA	641	U
1	BA	650	G
1	BA	653	U
1	BA	654	G
1	BA	660	C
1	BA	665	A
1	BA	674	G
1	BA	675	A

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Mol	Chain	Res	Type
1	BA	683	G
1	BA	684	U
1	BA	685	G
1	BA	694	A
1	BA	695	A
1	BA	700	G
1	BA	702	A
1	BA	710	G
1	BA	713	G
1	BA	718	A
1	BA	719	C
1	BA	720	C
1	BA	721	G
1	BA	723	U
1	BA	724	G
1	BA	731	G
1	BA	733	G
1	BA	734	G
1	BA	745	G
1	BA	752	G
1	BA	755	G
1	BA	764	C
1	BA	765	G
1	BA	766	A
1	BA	776	G
1	BA	777	A
1	BA	778	G
1	BA	784	A
1	BA	785	G
1	BA	792	A
1	BA	793	U
1	BA	794	A
1	BA	798	U
1	BA	802	A
1	BA	805	C
1	BA	809	G
1	BA	815	A
1	BA	817	C
1	BA	819	A
1	BA	820	U
1	BA	827	U
1	BA	828	U

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Mol	Chain	Res	Type
1	BA	833	G
1	BA	841	C
1	BA	842	U
1	BA	843	U
1	BA	844	G
1	BA	845	A
1	BA	846	G
1	BA	847	G
1	BA	849	G
1	BA	858	G
1	BA	870	U
1	BA	872	A
1	BA	874	G
1	BA	876	C
1	BA	885	G
1	BA	914	A
1	BA	918	A
1	BA	921	U
1	BA	926	G
1	BA	927	G
1	BA	930	C
1	BA	934	C
1	BA	935	A
1	BA	958	A
1	BA	960	U
1	BA	966	G
1	BA	968	A
1	BA	969	A
1	BA	970	C
1	BA	971	G
1	BA	972	C
1	BA	975	A
1	BA	976	G
1	BA	977	A
1	BA	983	A
1	BA	988	G
1	BA	989	U
1	BA	992	U
1	BA	993	G
1	BA	995	C
1	BA	996	A
1	BA	1003	G

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Mol	Chain	Res	Type
1	BA	1004	A
1	BA	1008	U
1	BA	1009	U
1	BA	1017	U
1	BA	1018	G
1	BA	1020	G
1	BA	1022	A
1	BA	1025	U
1	BA	1026	G
1	BA	1027	C
1	BA	1028	C
1	BA	1030	U
1	BA	1031	C
1	BA	1032	G
1	BA	1033	G
1	BA	1034	G
1	BA	1037	C
1	BA	1039	G
1	BA	1043	G
1	BA	1044	A
1	BA	1049	U
1	BA	1050	G
1	BA	1054	C
1	BA	1056	U
1	BA	1057	G
1	BA	1059	C
1	BA	1065	U
1	BA	1066	C
1	BA	1073	U
1	BA	1079	G
1	BA	1080	A
1	BA	1081	A
1	BA	1084	G
1	BA	1086	U
1	BA	1087	G
1	BA	1089	G
1	BA	1094	G
1	BA	1095	U
1	BA	1100	C
1	BA	1101	A
1	BA	1102	A
1	BA	1103	C

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Mol	Chain	Res	Type
1	BA	1105	A
1	BA	1107	C
1	BA	1116	U
1	BA	1122	U
1	BA	1124	G
1	BA	1125	U
1	BA	1132	C
1	BA	1133	G
1	BA	1134	G
1	BA	1135	U
1	BA	1136	C
1	BA	1137	C
1	BA	1138	G
1	BA	1139	G
1	BA	1140	C
1	BA	1141	C
1	BA	1142	G
1	BA	1145	A
1	BA	1154	G
1	BA	1155	A
1	BA	1158	C
1	BA	1159	U
1	BA	1160	G
1	BA	1161	C
1	BA	1167	A
1	BA	1171	A
1	BA	1176	A
1	BA	1180	A
1	BA	1183	U
1	BA	1184	G
1	BA	1192	C
1	BA	1196	A
1	BA	1197	A
1	BA	1200	C
1	BA	1201	A
1	BA	1202	U
1	BA	1203	C
1	BA	1212	U
1	BA	1213	A
1	BA	1227	A
1	BA	1238	A
1	BA	1240	U

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Mol	Chain	Res	Type
1	BA	1243	C
1	BA	1247	U
1	BA	1253	G
1	BA	1257	A
1	BA	1263	C
1	BA	1264	U
1	BA	1275	A
1	BA	1276	G
1	BA	1280	A
1	BA	1283	U
1	BA	1285	A
1	BA	1286	U
1	BA	1287	A
1	BA	1292	G
1	BA	1293	C
1	BA	1298	U
1	BA	1299	A
1	BA	1300	G
1	BA	1302	C
1	BA	1304	G
1	BA	1305	G
1	BA	1317	C
1	BA	1318	A
1	BA	1320	C
1	BA	1322	C
1	BA	1335	U
1	BA	1336	C
1	BA	1338	G
1	BA	1340	A
1	BA	1346	A
1	BA	1362	A
1	BA	1363	A
1	BA	1365	G
1	BA	1370	G
1	BA	1378	C
1	BA	1379	G
1	BA	1384	C
1	BA	1388	C
1	BA	1398	A
1	BA	1401	G
1	BA	1412	C
1	BA	1413	A

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Mol	Chain	Res	Type
1	BA	1419	G
1	BA	1425	U
1	BA	1426	G
1	BA	1435	G
1	BA	1440	U
1	BA	1441	A
1	BA	1442	G
1	BA	1445	U
1	BA	1446	A
1	BA	1452	C
1	BA	1454	G
1	BA	1455	G
1	BA	1456	A
1	BA	1468	A
1	BA	1473	G
1	BA	1480	A
1	BA	1487	G
1	BA	1491	G
1	BA	1492	A
1	BA	1497	G
1	BA	1498	U
1	BA	1499	A
1	BA	1500	A
1	BA	1503	A
1	BA	1505	G
1	BA	1506	U
1	BA	1517	G
1	BA	1522	U
1	BA	1529	G
1	BA	1530	G
1	BA	1531	A
1	BA	1532	U
1	BA	1533	C
1	BA	1534	A
1	BA	1535	C
1	BA	1536	C
1	BA	1538	C
1	BA	1540	U
22	BV	5	G
22	BV	8	U
22	BV	17	C
22	BV	18	G

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Mol	Chain	Res	Type
22	BV	19	G
22	BV	20	U
22	BV	21	A
22	BV	37	A
22	BV	39	U
22	BV	45	U
22	BV	48	C
22	BV	56	C
22	BV	58	A
22	BV	74	C
22	BV	76	A
23	BX	5	A
23	BX	12	A
23	BX	14	A
23	BX	19	U
25	CA	10	A
25	CA	12	U
25	CA	13	A
25	CA	15	G
25	CA	34	U
25	CA	35	G
25	CA	46	G
25	CA	61	C
25	CA	63	A
25	CA	71	A
25	CA	72	U
25	CA	74	A
25	CA	75	G
25	CA	84	A
25	CA	86	G
25	CA	87	U
25	CA	101	A
25	CA	103	A
25	CA	110	G
25	CA	118	A
25	CA	119	A
25	CA	120	U
25	CA	123	G
25	CA	128	C
25	CA	138	U
25	CA	139	U
25	CA	140	C

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Mol	Chain	Res	Type
25	CA	141	G
25	CA	142	A
25	CA	143	C
25	CA	146	A
25	CA	147	C
25	CA	158	U
25	CA	180	G
25	CA	181	A
25	CA	188	G
25	CA	196	A
25	CA	208	C
25	CA	216	A
25	CA	221	A
25	CA	222	A
25	CA	227	A
25	CA	230	G
25	CA	245	G
25	CA	248	G
25	CA	249	C
25	CA	254	G
25	CA	255	A
25	CA	265	A
25	CA	266	G
25	CA	271	G
25	CA	272	A
25	CA	273	G
25	CA	277	G
25	CA	278	A
25	CA	279	A
25	CA	282	A
25	CA	284	U
25	CA	285	G
25	CA	293	U
25	CA	301	G
25	CA	302	C
25	CA	306	U
25	CA	310	A
25	CA	311	A
25	CA	325	G
25	CA	329	G
25	CA	330	A
25	CA	331	C

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Mol	Chain	Res	Type
25	CA	340	A
25	CA	344	A
25	CA	351	C
25	CA	353	C
25	CA	359	G
25	CA	361	G
25	CA	362	A
25	CA	370	G
25	CA	371	A
25	CA	372	G
25	CA	386	G
25	CA	389	G
25	CA	396	G
25	CA	402	A
25	CA	404	A
25	CA	405	U
25	CA	406	G
25	CA	409	G
25	CA	411	G
25	CA	412	A
25	CA	414	C
25	CA	415	A
25	CA	418	C
25	CA	420	C
25	CA	424	G
25	CA	425	G
25	CA	428	A
25	CA	429	A
25	CA	438	G
25	CA	442	G
25	CA	451	U
25	CA	455	C
25	CA	456	C
25	CA	457	A
25	CA	471	A
25	CA	474	G
25	CA	480	A
25	CA	481	G
25	CA	491	G
25	CA	503	A
25	CA	504	A
25	CA	505	A

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Mol	Chain	Res	Type
25	CA	508	A
25	CA	509	C
25	CA	510	C
25	CA	528	A
25	CA	529	A
25	CA	531	C
25	CA	532	A
25	CA	533	G
25	CA	537	G
25	CA	538	A
25	CA	542	C
25	CA	543	G
25	CA	544	C
25	CA	545	U
25	CA	546	U
25	CA	547	A
25	CA	548	G
25	CA	549	G
25	CA	550	C
25	CA	551	G
25	CA	557	C
25	CA	563	A
25	CA	572	A
25	CA	573	U
25	CA	575	A
25	CA	586	A
25	CA	603	A
25	CA	613	A
25	CA	614	A
25	CA	615	U
25	CA	627	A
25	CA	631	A
25	CA	634	C
25	CA	637	A
25	CA	645	C
25	CA	646	U
25	CA	647	G
25	CA	648	G
25	CA	654	A
25	CA	655	A
25	CA	657	U
25	CA	663	G

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Mol	Chain	Res	Type
25	CA	669	G
25	CA	680	C
25	CA	686	U
25	CA	701	G
25	CA	702	U
25	CA	711	G
25	CA	722	A
25	CA	726	G
25	CA	730	A
25	CA	736	C
25	CA	738	G
25	CA	747	U
25	CA	751	A
25	CA	761	A
25	CA	762	U
25	CA	764	A
25	CA	765	C
25	CA	772	C
25	CA	773	U
25	CA	775	G
25	CA	776	G
25	CA	782	A
25	CA	784	G
25	CA	785	G
25	CA	790	U
25	CA	791	C
25	CA	792	A
25	CA	805	G
25	CA	812	C
25	CA	819	A
25	CA	824	U
25	CA	827	U
25	CA	828	U
25	CA	829	A
25	CA	830	G
25	CA	835	C
25	CA	845	A
25	CA	846	U
25	CA	847	U
25	CA	848	C
25	CA	858	G
25	CA	859	G

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Mol	Chain	Res	Type
25	CA	868	U
25	CA	873	C
25	CA	878	A
25	CA	879	G
25	CA	884	U
25	CA	885	C
25	CA	894	U
25	CA	896	A
25	CA	901	C
25	CA	910	A
25	CA	914	G
25	CA	915	C
25	CA	916	G
25	CA	930	G
25	CA	931	U
25	CA	932	U
25	CA	941	A
25	CA	946	C
25	CA	957	C
25	CA	961	C
25	CA	971	G
25	CA	973	A
25	CA	974	G
25	CA	983	A
25	CA	984	A
25	CA	985	C
25	CA	987	C
25	CA	989	G
25	CA	995	C
25	CA	996	A
25	CA	999	U
25	CA	1009	A
25	CA	1012	U
25	CA	1013	C
25	CA	1021	A
25	CA	1026	G
25	CA	1027	A
25	CA	1033	U
25	CA	1041	G
25	CA	1046	A
25	CA	1047	G
25	CA	1053	C

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Mol	Chain	Res	Type
25	CA	1057	A
25	CA	1059	G
25	CA	1061	U
25	CA	1062	G
25	CA	1066	U
25	CA	1067	A
25	CA	1068	G
25	CA	1070	A
25	CA	1071	G
25	CA	1072	C
25	CA	1073	A
25	CA	1074	G
25	CA	1075	C
25	CA	1079	C
25	CA	1081	U
25	CA	1087	G
25	CA	1088	A
25	CA	1091	G
25	CA	1092	C
25	CA	1093	G
25	CA	1098	A
25	CA	1099	G
25	CA	1100	C
25	CA	1101	U
25	CA	1104	C
25	CA	1106	G
25	CA	1112	G
25	CA	1119	U
25	CA	1121	C
25	CA	1126	A
25	CA	1130	U
25	CA	1131	G
25	CA	1132	U
25	CA	1133	A
25	CA	1135	C
25	CA	1136	G
25	CA	1138	G
25	CA	1139	G
25	CA	1141	U
25	CA	1142	A
25	CA	1155	A
25	CA	1168	G

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Mol	Chain	Res	Type
25	CA	1170	C
25	CA	1171	G
25	CA	1172	C
25	CA	1173	U
25	CA	1174	U
25	CA	1175	A
25	CA	1176	U
25	CA	1178	C
25	CA	1179	G
25	CA	1180	U
25	CA	1181	U
25	CA	1182	G
25	CA	1214	A
25	CA	1222	U
25	CA	1235	G
25	CA	1238	G
25	CA	1239	G
25	CA	1249	U
25	CA	1253	A
25	CA	1256	G
25	CA	1258	U
25	CA	1266	G
25	CA	1271	G
25	CA	1272	A
25	CA	1273	U
25	CA	1288	G
25	CA	1294	U
25	CA	1299	G
25	CA	1300	G
25	CA	1301	A
25	CA	1306	C
25	CA	1310	G
25	CA	1315	C
25	CA	1316	U
25	CA	1321	A
25	CA	1325	U
25	CA	1341	G
25	CA	1345	C
25	CA	1349	C
25	CA	1352	U
25	CA	1359	A
25	CA	1365	A

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Mol	Chain	Res	Type
25	CA	1367	A
25	CA	1370	C
25	CA	1372	U
25	CA	1373	A
25	CA	1374	G
25	CA	1378	A
25	CA	1379	U
25	CA	1380	G
25	CA	1383	A
25	CA	1386	C
25	CA	1387	A
25	CA	1390	U
25	CA	1406	U
25	CA	1407	G
25	CA	1415	U
25	CA	1416	G
25	CA	1417	C
25	CA	1418	G
25	CA	1419	A
25	CA	1420	A
25	CA	1424	G
25	CA	1427	A
25	CA	1428	C
25	CA	1450	G
25	CA	1451	C
25	CA	1452	G
25	CA	1453	A
25	CA	1460	U
25	CA	1461	C
25	CA	1462	C
25	CA	1463	C
25	CA	1472	C
25	CA	1482	G
25	CA	1485	U
25	CA	1491	G
25	CA	1493	C
25	CA	1494	A
25	CA	1495	A
25	CA	1504	A
25	CA	1505	A
25	CA	1508	A
25	CA	1509	A

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Mol	Chain	Res	Type
25	CA	1510	G
25	CA	1515	A
25	CA	1523	U
25	CA	1526	C
25	CA	1527	G
25	CA	1528	A
25	CA	1530	G
25	CA	1532	A
25	CA	1533	C
25	CA	1534	U
25	CA	1535	A
25	CA	1536	C
25	CA	1538	G
25	CA	1547	C
25	CA	1554	U
25	CA	1555	G
25	CA	1556	C
25	CA	1560	G
25	CA	1568	G
25	CA	1569	A
25	CA	1576	U
25	CA	1578	U
25	CA	1582	C
25	CA	1583	A
25	CA	1584	U
25	CA	1585	C
25	CA	1586	A
25	CA	1590	A
25	CA	1593	A
25	CA	1606	C
25	CA	1607	C
25	CA	1608	A
25	CA	1618	A
25	CA	1619	G
25	CA	1623	G
25	CA	1626	A
25	CA	1634	A
25	CA	1639	C
25	CA	1647	U
25	CA	1648	U
25	CA	1649	G
25	CA	1651	G

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Mol	Chain	Res	Type
25	CA	1652	A
25	CA	1661	G
25	CA	1674	G
25	CA	1675	C
25	CA	1677	A
25	CA	1686	C
25	CA	1687	G
25	CA	1695	G
25	CA	1710	G
25	CA	1711	A
25	CA	1714	U
25	CA	1715	G
25	CA	1717	A
25	CA	1718	G
25	CA	1721	G
25	CA	1725	U
25	CA	1729	U
25	CA	1730	C
25	CA	1736	U
25	CA	1738	G
25	CA	1743	G
25	CA	1744	A
25	CA	1750	G
25	CA	1754	A
25	CA	1757	A
25	CA	1758	U
25	CA	1764	C
25	CA	1771	C
25	CA	1773	A
25	CA	1782	U
25	CA	1791	A
25	CA	1800	C
25	CA	1801	A
25	CA	1802	A
25	CA	1808	A
25	CA	1809	A
25	CA	1811	G
25	CA	1816	C
25	CA	1828	G
25	CA	1829	A
25	CA	1833	C
25	CA	1835	G

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Mol	Chain	Res	Type
25	CA	1839	G
25	CA	1841	U
25	CA	1845	G
25	CA	1848	A
25	CA	1854	A
25	CA	1855	U
25	CA	1858	A
25	CA	1861	G
25	CA	1862	G
25	CA	1866	A
25	CA	1870	C
25	CA	1871	A
25	CA	1872	A
25	CA	1873	G
25	CA	1876	A
25	CA	1884	G
25	CA	1885	A
25	CA	1889	A
25	CA	1890	A
25	CA	1902	C
25	CA	1908	C
25	CA	1909	C
25	CA	1913	A
25	CA	1914	C
25	CA	1915	U
25	CA	1925	C
25	CA	1926	U
25	CA	1927	A
25	CA	1928	A
25	CA	1929	G
25	CA	1930	G
25	CA	1931	U
25	CA	1932	A
25	CA	1937	A
25	CA	1938	A
25	CA	1944	U
25	CA	1955	U
25	CA	1960	A
25	CA	1965	C
25	CA	1966	A
25	CA	1967	C
25	CA	1970	A

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Mol	Chain	Res	Type
25	CA	1971	U
25	CA	1972	G
25	CA	1975	G
25	CA	1981	A
25	CA	1985	C
25	CA	1990	C
25	CA	1991	U
25	CA	1992	G
25	CA	1993	U
25	CA	1997	C
25	CA	2008	C
25	CA	2009	A
25	CA	2020	A
25	CA	2022	U
25	CA	2023	C
25	CA	2025	C
25	CA	2027	G
25	CA	2031	A
25	CA	2033	A
25	CA	2034	U
25	CA	2035	G
25	CA	2043	C
25	CA	2055	C
25	CA	2056	G
25	CA	2060	A
25	CA	2061	G
25	CA	2062	A
25	CA	2066	C
25	CA	2069	G
25	CA	2071	A
25	CA	2072	C
25	CA	2077	A
25	CA	2078	C
25	CA	2083	G
25	CA	2096	C
25	CA	2097	A
25	CA	2101	A
25	CA	2102	G
25	CA	2104	C
25	CA	2107	G
25	CA	2109	U
25	CA	2110	G

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Mol	Chain	Res	Type
25	CA	2111	U
25	CA	2112	G
25	CA	2113	U
25	CA	2115	G
25	CA	2116	G
25	CA	2117	A
25	CA	2118	U
25	CA	2119	A
25	CA	2120	G
25	CA	2122	U
25	CA	2123	G
25	CA	2126	A
25	CA	2128	G
25	CA	2129	C
25	CA	2130	U
25	CA	2132	U
25	CA	2133	G
25	CA	2135	A
25	CA	2136	G
25	CA	2145	C
25	CA	2146	C
25	CA	2147	A
25	CA	2152	G
25	CA	2153	C
25	CA	2155	U
25	CA	2157	G
25	CA	2158	A
25	CA	2160	C
25	CA	2162	G
25	CA	2163	A
25	CA	2164	C
25	CA	2165	C
25	CA	2167	U
25	CA	2168	G
25	CA	2169	A
25	CA	2170	A
25	CA	2171	A
25	CA	2172	U
25	CA	2173	A
25	CA	2178	C
25	CA	2179	C
25	CA	2181	U

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Mol	Chain	Res	Type
25	CA	2183	A
25	CA	2184	A
25	CA	2185	U
25	CA	2187	U
25	CA	2198	A
25	CA	2203	U
25	CA	2204	G
25	CA	2208	C
25	CA	2211	A
25	CA	2212	A
25	CA	2213	U
25	CA	2214	C
25	CA	2220	U
25	CA	2225	A
25	CA	2226	C
25	CA	2233	U
25	CA	2238	G
25	CA	2239	G
25	CA	2248	C
25	CA	2250	G
25	CA	2257	U
25	CA	2261	C
25	CA	2268	A
25	CA	2277	G
25	CA	2278	A
25	CA	2280	G
25	CA	2283	C
25	CA	2284	A
25	CA	2286	G
25	CA	2287	A
25	CA	2288	A
25	CA	2296	U
25	CA	2302	U
25	CA	2303	G
25	CA	2305	U
25	CA	2308	G
25	CA	2309	A
25	CA	2311	A
25	CA	2312	U
25	CA	2325	G
25	CA	2326	C
25	CA	2327	A

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Mol	Chain	Res	Type
25	CA	2329	U
25	CA	2331	G
25	CA	2332	C
25	CA	2333	A
25	CA	2335	A
25	CA	2340	A
25	CA	2341	G
25	CA	2347	C
25	CA	2348	U
25	CA	2350	C
25	CA	2354	C
25	CA	2358	A
25	CA	2361	G
25	CA	2366	A
25	CA	2372	U
25	CA	2376	A
25	CA	2383	G
25	CA	2384	U
25	CA	2385	C
25	CA	2396	G
25	CA	2402	U
25	CA	2405	G
25	CA	2406	A
25	CA	2407	A
25	CA	2410	G
25	CA	2419	U
25	CA	2422	C
25	CA	2423	U
25	CA	2424	C
25	CA	2425	A
25	CA	2426	A
25	CA	2427	C
25	CA	2428	G
25	CA	2429	G
25	CA	2430	A
25	CA	2435	A
25	CA	2441	U
25	CA	2445	G
25	CA	2448	A
25	CA	2449	U
25	CA	2468	A
25	CA	2469	A

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Mol	Chain	Res	Type
25	CA	2474	U
25	CA	2476	A
25	CA	2491	U
25	CA	2493	U
25	CA	2494	G
25	CA	2497	A
25	CA	2502	G
25	CA	2505	G
25	CA	2507	C
25	CA	2508	G
25	CA	2514	U
25	CA	2518	A
25	CA	2520	C
25	CA	2523	G
25	CA	2525	G
25	CA	2527	C
25	CA	2529	G
25	CA	2552	U
25	CA	2553	G
25	CA	2554	U
25	CA	2555	U
25	CA	2556	C
25	CA	2566	A
25	CA	2567	G
25	CA	2573	C
25	CA	2585	U
25	CA	2586	U
25	CA	2602	A
25	CA	2603	G
25	CA	2604	U
25	CA	2609	U
25	CA	2610	C
25	CA	2613	U
25	CA	2629	U
25	CA	2632	A
25	CA	2634	A
25	CA	2646	C
25	CA	2662	A
25	CA	2664	G
25	CA	2669	G
25	CA	2676	C
25	CA	2681	C

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Mol	Chain	Res	Type
25	CA	2682	A
25	CA	2689	U
25	CA	2690	U
25	CA	2704	C
25	CA	2711	A
25	CA	2714	G
25	CA	2716	C
25	CA	2720	U
25	CA	2721	A
25	CA	2724	U
25	CA	2726	A
25	CA	2729	G
25	CA	2744	G
25	CA	2745	C
25	CA	2748	A
25	CA	2760	C
25	CA	2767	C
25	CA	2778	A
25	CA	2783	U
25	CA	2784	U
25	CA	2791	G
25	CA	2792	A
25	CA	2798	U
25	CA	2799	A
25	CA	2800	A
25	CA	2811	G
25	CA	2813	A
25	CA	2818	U
25	CA	2820	A
25	CA	2821	A
25	CA	2823	A
25	CA	2825	G
25	CA	2835	A
25	CA	2836	U
25	CA	2837	A
25	CA	2849	U
25	CA	2854	G
25	CA	2858	C
25	CA	2861	U
25	CA	2864	G
25	CA	2867	G
25	CA	2870	C

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Mol	Chain	Res	Type
25	CA	2873	A
25	CA	2874	C
25	CA	2880	C
25	CA	2881	U
25	CA	2883	A
25	CA	2884	U
25	CA	2885	G
25	CA	2886	A
25	CA	2887	A
25	CA	2889	C
25	CA	2899	A
25	CA	2900	A
25	CA	2903	U
26	CB	2	G
26	CB	3	C
26	CB	8	C
26	CB	12	C
26	CB	15	A
26	CB	16	G
26	CB	35	C
26	CB	36	C
26	CB	37	C
26	CB	41	G
26	CB	44	G
26	CB	45	A
26	CB	49	C
26	CB	56	G
26	CB	57	A
26	CB	60	C
26	CB	66	A
26	CB	67	G
26	CB	89	U
26	CB	90	C
26	CB	98	G
26	CB	99	A
26	CB	109	A
26	CB	119	A
25	DA	2	G
25	DA	10	A
25	DA	12	U
25	DA	13	A
25	DA	15	G

Continued on next page...

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Mol	Chain	Res	Type
25	DA	17	G
25	DA	22	C
25	DA	31	C
25	DA	34	U
25	DA	41	C
25	DA	42	A
25	DA	43	G
25	DA	45	G
25	DA	46	G
25	DA	53	A
25	DA	55	G
25	DA	56	A
25	DA	57	C
25	DA	58	G
25	DA	59	U
25	DA	60	G
25	DA	61	C
25	DA	63	A
25	DA	70	G
25	DA	71	A
25	DA	74	A
25	DA	75	G
25	DA	80	G
25	DA	82	U
25	DA	84	A
25	DA	90	U
25	DA	91	A
25	DA	92	U
25	DA	98	G
25	DA	99	U
25	DA	101	A
25	DA	102	U
25	DA	103	A
25	DA	105	C
25	DA	106	C
25	DA	118	A
25	DA	119	A
25	DA	120	U
25	DA	135	U
25	DA	137	U
25	DA	138	U
25	DA	139	U

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Mol	Chain	Res	Type
25	DA	140	C
25	DA	141	G
25	DA	142	A
25	DA	150	U
25	DA	158	U
25	DA	159	G
25	DA	162	U
25	DA	163	C
25	DA	196	A
25	DA	199	A
25	DA	202	U
25	DA	204	A
25	DA	216	A
25	DA	221	A
25	DA	222	A
25	DA	225	C
25	DA	231	A
25	DA	232	G
25	DA	244	A
25	DA	248	G
25	DA	249	C
25	DA	255	A
25	DA	256	A
25	DA	257	C
25	DA	264	C
25	DA	265	A
25	DA	266	G
25	DA	272	A
25	DA	276	U
25	DA	277	G
25	DA	279	A
25	DA	280	U
25	DA	281	C
25	DA	285	G
25	DA	287	G
25	DA	294	A
25	DA	296	U
25	DA	301	G
25	DA	311	A
25	DA	312	G
25	DA	320	A
25	DA	329	G

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Mol	Chain	Res	Type
25	DA	330	A
25	DA	331	C
25	DA	343	C
25	DA	353	C
25	DA	354	A
25	DA	361	G
25	DA	362	A
25	DA	365	U
25	DA	367	G
25	DA	371	A
25	DA	372	G
25	DA	385	C
25	DA	386	G
25	DA	399	U
25	DA	405	U
25	DA	411	G
25	DA	414	C
25	DA	417	C
25	DA	424	G
25	DA	425	G
25	DA	436	C
25	DA	437	U
25	DA	446	G
25	DA	455	C
25	DA	480	A
25	DA	481	G
25	DA	485	C
25	DA	486	C
25	DA	491	G
25	DA	504	A
25	DA	505	A
25	DA	508	A
25	DA	510	C
25	DA	521	U
25	DA	530	G
25	DA	531	C
25	DA	532	A
25	DA	533	G
25	DA	537	G
25	DA	541	A
25	DA	542	C
25	DA	543	G

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Mol	Chain	Res	Type
25	DA	544	C
25	DA	545	U
25	DA	546	U
25	DA	547	A
25	DA	548	G
25	DA	549	G
25	DA	550	C
25	DA	563	A
25	DA	567	U
25	DA	573	U
25	DA	575	A
25	DA	585	G
25	DA	586	A
25	DA	603	A
25	DA	608	A
25	DA	609	A
25	DA	612	G
25	DA	613	A
25	DA	614	A
25	DA	615	U
25	DA	617	G
25	DA	618	G
25	DA	620	G
25	DA	627	A
25	DA	630	G
25	DA	631	A
25	DA	637	A
25	DA	639	U
25	DA	640	C
25	DA	641	U
25	DA	645	C
25	DA	646	U
25	DA	647	G
25	DA	648	G
25	DA	654	A
25	DA	655	A
25	DA	673	C
25	DA	677	A
25	DA	683	U
25	DA	686	U
25	DA	693	A
25	DA	694	U

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Mol	Chain	Res	Type
25	DA	702	U
25	DA	704	G
25	DA	710	U
25	DA	711	G
25	DA	714	U
25	DA	715	A
25	DA	716	A
25	DA	717	C
25	DA	721	A
25	DA	730	A
25	DA	738	G
25	DA	740	C
25	DA	747	U
25	DA	762	U
25	DA	764	A
25	DA	765	C
25	DA	775	G
25	DA	776	G
25	DA	782	A
25	DA	783	A
25	DA	784	G
25	DA	785	G
25	DA	792	A
25	DA	799	G
25	DA	805	G
25	DA	811	U
25	DA	812	C
25	DA	816	C
25	DA	819	A
25	DA	820	A
25	DA	827	U
25	DA	828	U
25	DA	829	A
25	DA	830	G
25	DA	844	A
25	DA	845	A
25	DA	846	U
25	DA	847	U
25	DA	858	G
25	DA	859	G
25	DA	860	U
25	DA	863	A

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Mol	Chain	Res	Type
25	DA	864	G
25	DA	865	C
25	DA	880	G
25	DA	881	G
25	DA	882	G
25	DA	885	C
25	DA	896	A
25	DA	897	C
25	DA	902	C
25	DA	904	G
25	DA	910	A
25	DA	914	G
25	DA	921	C
25	DA	927	A
25	DA	931	U
25	DA	932	U
25	DA	934	U
25	DA	941	A
25	DA	946	C
25	DA	961	C
25	DA	974	G
25	DA	982	C
25	DA	983	A
25	DA	985	C
25	DA	990	A
25	DA	995	C
25	DA	996	A
25	DA	997	G
25	DA	1005	C
25	DA	1010	A
25	DA	1012	U
25	DA	1013	C
25	DA	1016	G
25	DA	1021	A
25	DA	1022	G
25	DA	1025	G
25	DA	1026	G
25	DA	1030	C
25	DA	1033	U
25	DA	1042	G
25	DA	1046	A
25	DA	1047	G

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Mol	Chain	Res	Type
25	DA	1048	A
25	DA	1053	C
25	DA	1058	U
25	DA	1059	G
25	DA	1060	U
25	DA	1061	U
25	DA	1062	G
25	DA	1063	G
25	DA	1065	U
25	DA	1066	U
25	DA	1067	A
25	DA	1068	G
25	DA	1070	A
25	DA	1071	G
25	DA	1072	C
25	DA	1073	A
25	DA	1074	G
25	DA	1075	C
25	DA	1077	A
25	DA	1079	C
25	DA	1082	U
25	DA	1083	U
25	DA	1087	G
25	DA	1088	A
25	DA	1089	A
25	DA	1090	A
25	DA	1091	G
25	DA	1092	C
25	DA	1094	U
25	DA	1097	U
25	DA	1100	C
25	DA	1104	C
25	DA	1110	G
25	DA	1111	A
25	DA	1112	G
25	DA	1115	G
25	DA	1122	G
25	DA	1128	G
25	DA	1132	U
25	DA	1133	A
25	DA	1135	C
25	DA	1136	G

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Mol	Chain	Res	Type
25	DA	1137	G
25	DA	1138	G
25	DA	1141	U
25	DA	1142	A
25	DA	1143	A
25	DA	1156	A
25	DA	1158	C
25	DA	1168	G
25	DA	1169	A
25	DA	1171	G
25	DA	1173	U
25	DA	1174	U
25	DA	1175	A
25	DA	1176	U
25	DA	1178	C
25	DA	1179	G
25	DA	1180	U
25	DA	1181	U
25	DA	1182	G
25	DA	1186	G
25	DA	1189	A
25	DA	1198	U
25	DA	1208	C
25	DA	1212	G
25	DA	1221	C
25	DA	1227	G
25	DA	1234	U
25	DA	1238	G
25	DA	1241	A
25	DA	1248	G
25	DA	1253	A
25	DA	1256	G
25	DA	1262	A
25	DA	1266	G
25	DA	1269	A
25	DA	1271	G
25	DA	1272	A
25	DA	1278	C
25	DA	1286	A
25	DA	1300	G
25	DA	1301	A
25	DA	1302	A

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Mol	Chain	Res	Type
25	DA	1310	G
25	DA	1311	G
25	DA	1313	U
25	DA	1315	C
25	DA	1316	U
25	DA	1321	A
25	DA	1324	G
25	DA	1332	G
25	DA	1337	G
25	DA	1345	C
25	DA	1347	A
25	DA	1348	C
25	DA	1349	C
25	DA	1352	U
25	DA	1359	A
25	DA	1361	G
25	DA	1365	A
25	DA	1368	G
25	DA	1372	U
25	DA	1378	A
25	DA	1379	U
25	DA	1383	A
25	DA	1386	C
25	DA	1387	A
25	DA	1389	G
25	DA	1390	U
25	DA	1395	A
25	DA	1398	C
25	DA	1412	U
25	DA	1413	A
25	DA	1414	C
25	DA	1416	G
25	DA	1417	C
25	DA	1418	G
25	DA	1419	A
25	DA	1420	A
25	DA	1423	G
25	DA	1427	A
25	DA	1428	C
25	DA	1429	G
25	DA	1433	A
25	DA	1434	A

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Mol	Chain	Res	Type
25	DA	1436	G
25	DA	1442	U
25	DA	1443	U
25	DA	1450	G
25	DA	1452	G
25	DA	1453	A
25	DA	1454	C
25	DA	1455	G
25	DA	1456	G
25	DA	1458	U
25	DA	1467	U
25	DA	1471	G
25	DA	1475	G
25	DA	1476	U
25	DA	1478	G
25	DA	1480	C
25	DA	1482	G
25	DA	1484	U
25	DA	1493	C
25	DA	1495	A
25	DA	1499	C
25	DA	1504	A
25	DA	1509	A
25	DA	1510	G
25	DA	1515	A
25	DA	1516	G
25	DA	1523	U
25	DA	1528	A
25	DA	1530	G
25	DA	1531	C
25	DA	1533	C
25	DA	1534	U
25	DA	1535	A
25	DA	1536	C
25	DA	1537	G
25	DA	1538	G
25	DA	1556	C
25	DA	1566	A
25	DA	1569	A
25	DA	1578	U
25	DA	1579	A
25	DA	1581	G

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Mol	Chain	Res	Type
25	DA	1582	C
25	DA	1583	A
25	DA	1584	U
25	DA	1585	C
25	DA	1586	A
25	DA	1606	C
25	DA	1607	C
25	DA	1608	A
25	DA	1610	A
25	DA	1613	G
25	DA	1616	A
25	DA	1622	G
25	DA	1623	G
25	DA	1647	U
25	DA	1648	U
25	DA	1649	G
25	DA	1651	G
25	DA	1654	A
25	DA	1674	G
25	DA	1676	A
25	DA	1677	A
25	DA	1702	G
25	DA	1705	A
25	DA	1706	C
25	DA	1709	U
25	DA	1715	G
25	DA	1728	C
25	DA	1729	U
25	DA	1730	C
25	DA	1731	G
25	DA	1735	A
25	DA	1738	G
25	DA	1739	A
25	DA	1740	G
25	DA	1744	A
25	DA	1754	A
25	DA	1756	G
25	DA	1762	A
25	DA	1764	C
25	DA	1773	A
25	DA	1774	C
25	DA	1776	G

Continued on next page...

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Mol	Chain	Res	Type
25	DA	1782	U
25	DA	1800	C
25	DA	1801	A
25	DA	1808	A
25	DA	1811	G
25	DA	1816	C
25	DA	1823	G
25	DA	1825	U
25	DA	1827	U
25	DA	1828	G
25	DA	1829	A
25	DA	1846	G
25	DA	1858	A
25	DA	1859	U
25	DA	1869	G
25	DA	1870	C
25	DA	1871	A
25	DA	1872	A
25	DA	1874	C
25	DA	1884	G
25	DA	1888	G
25	DA	1903	G
25	DA	1905	C
25	DA	1906	G
25	DA	1907	G
25	DA	1913	A
25	DA	1914	C
25	DA	1916	A
25	DA	1927	A
25	DA	1929	G
25	DA	1930	G
25	DA	1935	G
25	DA	1936	A
25	DA	1937	A
25	DA	1938	A
25	DA	1944	U
25	DA	1947	C
25	DA	1948	G
25	DA	1949	G
25	DA	1951	U
25	DA	1955	U
25	DA	1958	C

Continued on next page...

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Mol	Chain	Res	Type
25	DA	1961	C
25	DA	1963	U
25	DA	1965	C
25	DA	1966	A
25	DA	1967	C
25	DA	1970	A
25	DA	1971	U
25	DA	1972	G
25	DA	1974	C
25	DA	1983	G
25	DA	1991	U
25	DA	1992	G
25	DA	1993	U
25	DA	1997	C
25	DA	2019	A
25	DA	2022	U
25	DA	2023	C
25	DA	2031	A
25	DA	2033	A
25	DA	2042	A
25	DA	2043	C
25	DA	2055	C
25	DA	2056	G
25	DA	2057	G
25	DA	2060	A
25	DA	2061	G
25	DA	2062	A
25	DA	2069	G
25	DA	2072	C
25	DA	2076	U
25	DA	2092	U
25	DA	2093	G
25	DA	2096	C
25	DA	2102	G
25	DA	2103	C
25	DA	2107	G
25	DA	2108	A
25	DA	2109	U
25	DA	2110	G
25	DA	2111	U
25	DA	2112	G
25	DA	2113	U

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Mol	Chain	Res	Type
25	DA	2115	G
25	DA	2116	G
25	DA	2117	A
25	DA	2118	U
25	DA	2119	A
25	DA	2125	G
25	DA	2126	A
25	DA	2127	G
25	DA	2128	G
25	DA	2131	U
25	DA	2132	U
25	DA	2133	G
25	DA	2135	A
25	DA	2136	G
25	DA	2137	U
25	DA	2145	C
25	DA	2146	C
25	DA	2147	A
25	DA	2148	G
25	DA	2149	U
25	DA	2150	C
25	DA	2151	U
25	DA	2152	G
25	DA	2158	A
25	DA	2159	G
25	DA	2162	G
25	DA	2163	A
25	DA	2164	C
25	DA	2165	C
25	DA	2169	A
25	DA	2170	A
25	DA	2171	A
25	DA	2172	U
25	DA	2173	A
25	DA	2177	C
25	DA	2178	C
25	DA	2184	A
25	DA	2189	U
25	DA	2190	G
25	DA	2194	U
25	DA	2197	U
25	DA	2198	A

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Mol	Chain	Res	Type
25	DA	2204	G
25	DA	2211	A
25	DA	2212	A
25	DA	2214	C
25	DA	2220	U
25	DA	2223	G
25	DA	2224	G
25	DA	2225	A
25	DA	2226	C
25	DA	2227	A
25	DA	2228	G
25	DA	2236	U
25	DA	2238	G
25	DA	2242	G
25	DA	2243	U
25	DA	2245	U
25	DA	2250	G
25	DA	2268	A
25	DA	2269	G
25	DA	2273	A
25	DA	2278	A
25	DA	2280	G
25	DA	2283	C
25	DA	2287	A
25	DA	2293	G
25	DA	2294	G
25	DA	2296	U
25	DA	2297	A
25	DA	2305	U
25	DA	2307	G
25	DA	2309	A
25	DA	2310	C
25	DA	2311	A
25	DA	2312	U
25	DA	2320	U
25	DA	2321	U
25	DA	2322	A
25	DA	2324	U
25	DA	2325	G
25	DA	2327	A
25	DA	2333	A
25	DA	2335	A

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Mol	Chain	Res	Type
25	DA	2336	A
25	DA	2344	U
25	DA	2347	C
25	DA	2354	C
25	DA	2356	U
25	DA	2357	G
25	DA	2358	A
25	DA	2361	G
25	DA	2378	A
25	DA	2379	G
25	DA	2383	G
25	DA	2385	C
25	DA	2402	U
25	DA	2403	C
25	DA	2406	A
25	DA	2407	A
25	DA	2414	G
25	DA	2423	U
25	DA	2424	C
25	DA	2425	A
25	DA	2426	A
25	DA	2429	G
25	DA	2430	A
25	DA	2431	U
25	DA	2434	A
25	DA	2435	A
25	DA	2441	U
25	DA	2446	G
25	DA	2448	A
25	DA	2473	U
25	DA	2476	A
25	DA	2477	U
25	DA	2484	G
25	DA	2491	U
25	DA	2494	G
25	DA	2502	G
25	DA	2504	U
25	DA	2505	G
25	DA	2518	A
25	DA	2525	G
25	DA	2529	G
25	DA	2532	G

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Mol	Chain	Res	Type
25	DA	2534	A
25	DA	2535	G
25	DA	2547	A
25	DA	2554	U
25	DA	2557	G
25	DA	2566	A
25	DA	2567	G
25	DA	2572	A
25	DA	2573	C
25	DA	2574	G
25	DA	2580	U
25	DA	2585	U
25	DA	2592	G
25	DA	2602	A
25	DA	2603	G
25	DA	2605	U
25	DA	2609	U
25	DA	2613	U
25	DA	2614	A
25	DA	2615	U
25	DA	2629	U
25	DA	2630	G
25	DA	2653	U
25	DA	2656	U
25	DA	2663	G
25	DA	2681	C
25	DA	2683	C
25	DA	2689	U
25	DA	2690	U
25	DA	2701	U
25	DA	2702	G
25	DA	2703	C
25	DA	2713	U
25	DA	2714	G
25	DA	2718	G
25	DA	2724	U
25	DA	2726	A
25	DA	2729	G
25	DA	2732	G
25	DA	2743	U
25	DA	2748	A
25	DA	2757	A

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Mol	Chain	Res	Type
25	DA	2758	A
25	DA	2764	A
25	DA	2765	A
25	DA	2768	U
25	DA	2769	U
25	DA	2770	G
25	DA	2778	A
25	DA	2791	G
25	DA	2793	C
25	DA	2794	C
25	DA	2798	U
25	DA	2799	A
25	DA	2800	A
25	DA	2805	C
25	DA	2807	U
25	DA	2818	U
25	DA	2820	A
25	DA	2821	A
25	DA	2825	G
25	DA	2826	A
25	DA	2833	U
25	DA	2835	A
25	DA	2836	U
25	DA	2840	C
25	DA	2848	G
25	DA	2855	C
25	DA	2856	A
25	DA	2858	C
25	DA	2861	U
25	DA	2863	C
25	DA	2867	G
25	DA	2871	U
25	DA	2872	A
25	DA	2873	A
25	DA	2874	C
25	DA	2875	C
25	DA	2879	A
25	DA	2880	C
25	DA	2883	A
25	DA	2884	U
25	DA	2887	A
25	DA	2889	C

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Mol	Chain	Res	Type
25	DA	2894	G
25	DA	2895	G
25	DA	2902	C
25	DA	2903	U
56	DB	8	C
56	DB	11	C
56	DB	13	G
56	DB	15	A
56	DB	16	G
56	DB	19	C
56	DB	21	G
56	DB	22	U
56	DB	24	G
56	DB	25	U
56	DB	32	U
56	DB	33	G
56	DB	34	A
56	DB	35	C
56	DB	36	C
56	DB	38	C
56	DB	39	A
56	DB	44	G
56	DB	45	A
56	DB	46	A
56	DB	52	A
56	DB	56	G
56	DB	58	A
56	DB	59	A
56	DB	61	G
56	DB	64	G
56	DB	73	A
56	DB	88	C
56	DB	89	U
56	DB	90	C
56	DB	93	C
56	DB	99	A
56	DB	105	G
56	DB	109	A

All (155) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type

Mol	Chain	Res	Type
1	AA	115	G
1	AA	120	A
1	AA	148	G
1	AA	209	U
1	AA	329	A
1	AA	351	G
1	AA	410	G
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	439	U
1	AA	481	G
1	AA	510	A
1	AA	513	C
1	AA	653	U
1	AA	889	A
1	AA	1031	C
1	AA	1049	U
1	AA	1101	A
1	AA	1126	U
1	AA	1145	A
1	AA	1201	A
1	AA	1211	U
1	AA	1227	A
1	AA	1286	U
1	AA	1337	G
1	AA	1378	C
1	AA	1533	C
22	AV	18	G
1	BA	4	U
1	BA	96	U
1	BA	115	G
1	BA	209	U
1	BA	274	A
1	BA	428	G
1	BA	429	U
1	BA	485	U
1	BA	653	U
1	BA	733	G
1	BA	926	G
1	BA	1049	U

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Mol	Chain	Res	Type
1	BA	1101	A
1	BA	1168	U
1	BA	1201	A
1	BA	1211	U
1	BA	1299	A
1	BA	1317	C
1	BA	1491	G
1	BA	1534	A
22	BV	19	G
25	CA	60	G
25	CA	71	A
25	CA	74	A
25	CA	196	A
25	CA	221	A
25	CA	271	G
25	CA	301	G
25	CA	370	G
25	CA	404	A
25	CA	479	A
25	CA	503	A
25	CA	614	A
25	CA	620	G
25	CA	685	A
25	CA	764	A
25	CA	776	G
25	CA	790	U
25	CA	960	A
25	CA	984	A
25	CA	995	C
25	CA	1046	A
25	CA	1086	A
25	CA	1133	A
25	CA	1180	U
25	CA	1212	G
25	CA	1234	U
25	CA	1253	A
25	CA	1286	A
25	CA	1301	A
25	CA	1344	U
25	CA	1373	A
25	CA	1378	A
25	CA	1494	A

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Mol	Chain	Res	Type
25	CA	1606	C
25	CA	1647	U
25	CA	1674	G
25	CA	1800	C
25	CA	1875	G
25	CA	1900	A
25	CA	1929	G
25	CA	2060	A
25	CA	2127	G
25	CA	2157	G
25	CA	2211	A
25	CA	2286	G
25	CA	2326	C
25	CA	2406	A
25	CA	2422	C
25	CA	2425	A
25	CA	2602	A
25	CA	2681	C
25	CA	2848	G
25	CA	2873	A
26	CB	15	A
25	DA	60	G
25	DA	162	U
25	DA	199	A
25	DA	221	A
25	DA	271	G
25	DA	319	G
25	DA	404	A
25	DA	479	A
25	DA	503	A
25	DA	529	A
25	DA	531	C
25	DA	614	A
25	DA	616	A
25	DA	764	A
25	DA	776	G
25	DA	945	A
25	DA	984	A
25	DA	1033	U
25	DA	1071	G
25	DA	1237	A
25	DA	1240	U

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Mol	Chain	Res	Type
25	DA	1344	U
25	DA	1378	A
25	DA	1394	U
25	DA	1475	G
25	DA	1606	C
25	DA	1738	G
25	DA	1943	U
25	DA	2109	U
25	DA	2111	U
25	DA	2127	G
25	DA	2146	C
25	DA	2158	A
25	DA	2162	G
25	DA	2211	A
25	DA	2225	A
25	DA	2286	G
25	DA	2296	U
25	DA	2308	G
25	DA	2311	A
25	DA	2326	C
25	DA	2425	A
25	DA	2602	A
25	DA	2756	U
25	DA	2768	U
25	DA	2797	U
25	DA	2800	A
25	DA	2873	A
56	DB	33	G
56	DB	34	A
56	DB	89	U

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 500 ligands modelled in this entry, 500 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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	AA	1538/1539 (99%)	-0.47	12 (0%)	82	64	0, 31, 105, 170	0
1	BA	1539/1539 (100%)	-0.38	19 (1%)	76	55	0, 33, 101, 147	0
2	AB	218/218 (100%)	0.44	16 (7%)	21	11	12, 52, 84, 115	0
2	BB	218/218 (100%)	0.42	10 (4%)	37	20	19, 59, 88, 113	0
3	AC	206/206 (100%)	-0.25	4 (1%)	66	43	0, 35, 69, 93	0
3	BC	206/206 (100%)	0.03	1 (0%)	87	72	9, 46, 75, 92	0
4	AD	205/205 (100%)	0.19	8 (3%)	43	24	14, 42, 73, 98	0
4	BD	205/205 (100%)	-0.13	7 (3%)	48	27	0, 24, 64, 82	0
5	AE	150/150 (100%)	-0.09	3 (2%)	65	41	0, 32, 68, 105	0
5	BE	150/150 (100%)	-0.06	2 (1%)	75	53	0, 31, 68, 98	0
6	AF	100/100 (100%)	-0.14	3 (3%)	52	30	0, 33, 68, 86	0
6	BF	100/100 (100%)	0.23	2 (2%)	65	41	17, 54, 80, 93	0
7	AG	151/151 (100%)	0.36	10 (6%)	24	12	12, 56, 86, 111	0
7	BG	151/151 (100%)	0.25	9 (5%)	27	14	20, 54, 81, 94	0
8	AH	129/129 (100%)	-0.30	2 (1%)	70	47	0, 32, 60, 71	0
8	BH	129/129 (100%)	-0.15	2 (1%)	70	47	4, 34, 58, 82	0
9	AI	127/127 (100%)	0.38	3 (2%)	59	36	6, 54, 79, 108	0
9	BI	127/127 (100%)	0.75	9 (7%)	22	11	20, 55, 85, 117	0
10	AJ	98/98 (100%)	0.59	5 (5%)	33	17	8, 55, 89, 104	0
10	BJ	98/98 (100%)	0.73	8 (8%)	17	9	25, 58, 82, 113	0
11	AK	117/117 (100%)	-0.24	3 (2%)	57	34	0, 19, 50, 87	0
11	BK	117/117 (100%)	-0.04	2 (1%)	69	45	0, 32, 66, 79	0
12	AL	123/123 (100%)	-0.03	7 (5%)	29	15	0, 22, 67, 93	0
12	BL	123/123 (100%)	-0.16	7 (5%)	29	15	0, 17, 58, 93	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AM	114/114 (100%)	0.21	3 (2%) 57 34	9, 53, 87, 100	0
13	BM	114/114 (100%)	0.50	7 (6%) 27 14	26, 63, 87, 97	0
14	AN	96/100 (96%)	0.41	4 (4%) 40 22	12, 45, 84, 106	0
14	BN	96/100 (96%)	0.75	9 (9%) 14 7	10, 56, 84, 98	0
15	AO	88/88 (100%)	-0.23	1 (1%) 78 57	0, 28, 55, 93	0
15	BO	88/88 (100%)	-0.14	0 100 100	1, 33, 66, 89	0
16	AP	82/82 (100%)	-0.05	0 100 100	5, 30, 73, 86	0
16	BP	82/82 (100%)	-0.12	0 100 100	0, 24, 67, 91	0
17	AQ	80/80 (100%)	0.13	5 (6%) 26 13	8, 42, 75, 96	0
17	BQ	80/80 (100%)	0.16	4 (5%) 34 18	7, 44, 79, 94	0
18	AR	55/55 (100%)	-0.24	2 (3%) 46 26	0, 25, 59, 93	0
18	BR	55/55 (100%)	0.08	2 (3%) 46 26	5, 38, 80, 101	0
19	AS	79/79 (100%)	0.31	3 (3%) 44 24	21, 52, 83, 98	0
19	BS	79/79 (100%)	0.69	4 (5%) 33 17	37, 65, 83, 95	0
20	AT	85/85 (100%)	0.35	5 (5%) 28 14	7, 37, 67, 80	0
20	BT	85/85 (100%)	0.30	5 (5%) 28 14	8, 38, 69, 96	0
21	AU	51/51 (100%)	1.16	10 (19%) 3 2	7, 39, 74, 77	0
21	BU	51/51 (100%)	0.97	9 (17%) 4 3	8, 47, 74, 80	0
22	AV	76/76 (100%)	0.11	5 (6%) 24 12	0, 70, 127, 154	0
22	BV	76/76 (100%)	-0.34	0 100 100	22, 43, 72, 119	0
23	AX	15/16 (93%)	0.89	2 (13%) 7 4	6, 76, 115, 133	0
23	BX	16/16 (100%)	0.35	2 (12%) 8 5	16, 77, 102, 124	0
24	AY	183/183 (100%)	0.19	6 (3%) 49 28	0, 50, 96, 117	0
25	CA	2897/2903 (99%)	-0.71	91 (3%) 51 30	0, 0, 103, 162	0
25	DA	2896/2903 (99%)	-0.62	51 (1%) 67 44	0, 15, 109, 162	0
26	CB	119/119 (100%)	-0.85	1 (0%) 82 64	0, 7, 32, 85	0
27	CC	271/271 (100%)	-0.56	3 (1%) 78 57	0, 1, 29, 56	0
27	DC	271/271 (100%)	-0.34	1 (0%) 88 76	0, 19, 46, 77	0
28	CD	209/209 (100%)	-0.59	0 100 100	0, 0, 19, 61	0
28	DD	209/209 (100%)	-0.48	0 100 100	0, 10, 52, 66	0
29	CE	201/201 (100%)	-0.50	0 100 100	0, 0, 39, 84	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
29	DE	201/201 (100%)	-0.35	0 100 100	0, 21, 60, 89	0
30	CF	177/177 (100%)	0.04	4 (2%) 61 38	0, 35, 82, 91	0
30	DF	177/177 (100%)	0.32	7 (3%) 42 23	12, 58, 84, 95	0
31	CG	176/176 (100%)	-0.55	1 (0%) 85 69	0, 15, 48, 88	0
31	DG	176/176 (100%)	0.04	0 100 100	15, 48, 73, 93	0
32	CH	149/149 (100%)	0.16	7 (4%) 36 19	0, 52, 87, 100	0
32	DH	149/149 (100%)	0.39	5 (3%) 48 27	8, 58, 92, 107	0
33	CI	141/141 (100%)	2.01	61 (43%) 0 1	44, 79, 102, 124	0
33	DI	141/141 (100%)	2.12	71 (50%) 0 0	54, 82, 104, 118	0
34	CJ	142/142 (100%)	-0.52	3 (2%) 63 40	0, 0, 21, 56	0
34	DJ	142/142 (100%)	-0.51	3 (2%) 63 40	0, 8, 37, 65	0
35	CK	122/122 (100%)	-0.61	0 100 100	0, 0, 27, 73	0
35	DK	122/122 (100%)	-0.46	1 (0%) 82 64	0, 15, 50, 71	0
36	CL	143/143 (100%)	-0.41	1 (0%) 84 66	0, 0, 27, 68	0
36	DL	143/143 (100%)	-0.29	2 (1%) 73 51	0, 18, 56, 82	0
37	CM	136/136 (100%)	-0.63	0 100 100	0, 0, 21, 83	0
37	DM	136/136 (100%)	-0.40	0 100 100	0, 21, 55, 88	0
38	CN	120/120 (100%)	-0.55	0 100 100	0, 0, 14, 68	0
38	DN	120/120 (100%)	-0.38	0 100 100	0, 12, 44, 78	0
39	CO	116/116 (100%)	-0.55	0 100 100	0, 11, 39, 49	0
39	DO	116/116 (100%)	0.32	2 (1%) 69 45	5, 49, 78, 98	0
40	CP	114/114 (100%)	-0.64	0 100 100	0, 0, 47, 70	0
40	DP	114/114 (100%)	-0.38	0 100 100	0, 21, 51, 81	0
41	CQ	117/117 (100%)	-0.39	1 (0%) 81 61	0, 0, 7, 63	0
41	DQ	117/117 (100%)	-0.68	0 100 100	0, 2, 27, 45	0
42	CR	103/103 (100%)	-0.60	0 100 100	0, 0, 35, 57	0
42	DR	103/103 (100%)	-0.37	1 (0%) 79 59	0, 10, 46, 78	0
43	CS	110/110 (100%)	-0.49	0 100 100	0, 0, 22, 98	0
43	DS	110/110 (100%)	-0.62	0 100 100	0, 8, 40, 77	0
44	CT	93/93 (100%)	-0.29	1 (1%) 78 57	0, 6, 68, 78	0
44	DT	93/93 (100%)	0.03	2 (2%) 62 39	0, 35, 71, 96	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
45	CU	102/102 (100%)	-0.43	2 (1%) 65 41	0, 5, 42, 79	0
45	DU	102/102 (100%)	0.15	8 (7%) 19 10	0, 34, 74, 100	0
46	CV	94/94 (100%)	-0.55	0 100 100	0, 6, 42, 62	0
46	DV	94/94 (100%)	-0.07	0 100 100	11, 43, 68, 82	0
47	CW	76/76 (100%)	-0.51	1 (1%) 75 53	0, 1, 31, 69	0
48	CX	77/77 (100%)	-0.62	0 100 100	0, 1, 47, 74	0
48	DX	77/77 (100%)	-0.31	1 (1%) 75 53	0, 23, 55, 67	0
49	CY	63/63 (100%)	-0.18	1 (1%) 70 47	0, 14, 56, 97	0
49	DY	63/63 (100%)	0.20	3 (4%) 35 19	8, 43, 70, 111	0
50	CZ	58/58 (100%)	-0.54	1 (1%) 69 45	0, 0, 13, 50	0
50	DZ	58/58 (100%)	-0.43	1 (1%) 69 45	0, 20, 52, 72	0
51	C0	56/56 (100%)	-0.46	0 100 100	0, 0, 25, 69	0
51	D0	56/56 (100%)	-0.32	1 (1%) 67 44	0, 10, 53, 94	0
52	C1	50/50 (100%)	-0.42	1 (2%) 65 41	0, 8, 51, 93	0
52	D1	50/50 (100%)	0.11	0 100 100	21, 38, 70, 88	0
53	C2	46/46 (100%)	-0.24	1 (2%) 62 39	0, 0, 15, 101	0
53	D2	46/46 (100%)	-0.31	1 (2%) 62 39	0, 10, 26, 94	0
54	C3	64/64 (100%)	-0.50	0 100 100	0, 0, 11, 38	0
54	D3	64/64 (100%)	-0.32	0 100 100	0, 15, 35, 52	0
55	C4	38/38 (100%)	-0.26	1 (2%) 57 34	0, 1, 32, 72	0
55	D4	38/38 (100%)	0.17	1 (2%) 57 34	3, 26, 59, 65	0
56	DB	118/118 (100%)	-0.14	2 (1%) 69 45	6, 58, 86, 106	0
57	DW	75/75 (100%)	-0.18	1 (1%) 75 53	0, 27, 54, 94	0
All	All	20908/20931 (99%)	-0.29	589 (2%) 55 32	0, 23, 86, 170	0

All (589) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
20	BT	3	ILE	9.7
53	C2	46	LYS	8.4
25	CA	2172	U	8.2
2	AB	156	LEU	7.9
25	DA	2172	U	7.8
33	CI	52	LEU	7.5

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Mol	Chain	Res	Type	RSRZ
21	BU	37	TYR	7.0
33	DI	10	LEU	6.2
33	DI	4	VAL	6.0
4	BD	24	VAL	5.9
1	BA	1031	C	5.9
33	CI	78	LEU	5.9
25	CA	1065	U	5.7
33	CI	139	VAL	5.6
33	DI	53	PRO	5.6
33	DI	78	LEU	5.6
33	CI	53	PRO	5.5
4	AD	27	ILE	5.4
20	AT	3	ILE	5.3
33	DI	81	LYS	5.2
4	BD	27	ILE	5.2
42	DR	50	GLY	5.1
33	CI	85	ILE	5.1
45	CU	52	ASN	5.1
2	AB	155	GLY	5.1
33	DI	12	VAL	5.0
25	DA	2402	U	5.0
25	CA	1171	G	5.0
25	CA	2402	U	5.0
25	CA	1172	C	4.9
25	CA	2141	G	4.9
33	DI	3	LYS	4.9
10	AJ	102	LEU	4.9
21	AU	37	TYR	4.8
25	CA	1068	G	4.7
18	BR	19	GLU	4.7
45	DU	48	VAL	4.7
34	DJ	81	ILE	4.7
33	CI	12	VAL	4.7
32	DH	119	ASN	4.6
33	DI	54	ILE	4.6
2	AB	154	GLY	4.6
33	CI	137	LEU	4.5
23	AX	12	A	4.5
25	CA	2145	C	4.5
9	AI	42	THR	4.5
33	DI	139	VAL	4.5
53	D2	46	LYS	4.4

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Mol	Chain	Res	Type	RSRZ
21	AU	23	GLU	4.4
12	AL	13	ARG	4.4
33	CI	114	ALA	4.3
25	CA	1179	G	4.3
25	CA	2119	A	4.3
33	CI	10	LEU	4.3
33	DI	128	ILE	4.3
1	BA	1286	U	4.3
2	AB	153	MET	4.2
14	AN	29	ILE	4.2
25	CA	2140	G	4.2
33	DI	108	ILE	4.2
25	CA	1072	C	4.1
25	DA	1072	C	4.1
33	DI	11	GLN	4.1
33	DI	77	VAL	4.1
25	CA	2135	A	4.0
25	CA	2115	G	4.0
21	AU	34	ARG	4.0
25	CA	1063	G	4.0
33	CI	77	VAL	4.0
25	CA	1078	U	4.0
25	CA	2139	U	4.0
25	CA	1064	C	3.9
25	DA	2173	A	3.9
33	CI	117	THR	3.9
33	CI	16	MET	3.9
33	CI	69	VAL	3.9
11	AK	125	LYS	3.9
33	CI	14	ALA	3.9
21	AU	46	ARG	3.8
33	DI	23	VAL	3.8
1	AA	1032	G	3.8
4	AD	21	LYS	3.8
5	AE	157	GLY	3.8
25	CA	2173	A	3.8
7	AG	5	VAL	3.8
22	AV	19	G	3.8
34	DJ	9	GLU	3.8
33	CI	70	THR	3.8
33	DI	91	LYS	3.8
25	CA	1069	A	3.8

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Mol	Chain	Res	Type	RSRZ
25	CA	2178	C	3.8
33	CI	48	ILE	3.8
33	DI	1	ALA	3.8
14	AN	21	ALA	3.7
33	DI	9	LYS	3.7
12	BL	24	GLU	3.7
45	DU	51	LEU	3.7
7	AG	7	GLY	3.7
25	CA	1061	U	3.7
12	BL	14	LYS	3.7
55	C4	20	ASP	3.6
25	CA	613	A	3.6
2	BB	135	MET	3.6
33	CI	116	MET	3.6
21	AU	20	ARG	3.6
33	CI	74	PRO	3.6
1	BA	1032	G	3.6
25	CA	2152	G	3.6
14	BN	52	PRO	3.6
25	DA	2796	U	3.5
2	AB	64	GLY	3.5
33	DI	79	LEU	3.5
25	CA	885	C	3.5
33	CI	80	LYS	3.5
33	DI	112	LYS	3.5
33	DI	138	VAL	3.5
33	CI	22	PRO	3.5
20	AT	35	TYR	3.5
1	AA	121	U	3.5
25	CA	2122	U	3.5
52	C1	52	LYS	3.5
9	BI	42	THR	3.5
33	CI	138	VAL	3.5
45	DU	50	ALA	3.5
33	DI	74	PRO	3.5
7	BG	4	ARG	3.5
18	AR	20	ILE	3.5
19	AS	36	ARG	3.4
33	DI	55	PRO	3.4
25	CA	2121	G	3.4
24	AY	37	LEU	3.4
33	DI	132	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
33	DI	105	LEU	3.4
11	AK	74	LYS	3.4
12	BL	43	LYS	3.4
32	DH	123	ARG	3.4
9	BI	128	LYS	3.4
33	DI	59	THR	3.4
25	CA	2602	A	3.3
10	BJ	37	ARG	3.3
3	AC	192	TYR	3.3
32	CH	119	ASN	3.3
10	BJ	73	LEU	3.3
25	CA	2176	A	3.3
25	DA	1073	A	3.3
45	DU	46	LYS	3.3
7	BG	7	GLY	3.3
33	CI	67	THR	3.3
49	CY	59	GLU	3.3
21	BU	34	ARG	3.3
33	CI	112	LYS	3.3
33	DI	69	VAL	3.3
33	CI	26	ALA	3.3
33	DI	82	ALA	3.3
19	BS	36	ARG	3.3
25	CA	1071	G	3.3
25	CA	2123	G	3.3
25	DA	1068	G	3.2
25	CA	2117	A	3.2
25	CA	2154	A	3.2
12	AL	43	LYS	3.2
25	CA	2153	C	3.2
33	CI	47	SER	3.2
34	CJ	111	LYS	3.2
21	AU	31	VAL	3.2
8	BH	2	MET	3.2
30	CF	70	ARG	3.2
2	BB	128	LEU	3.2
7	AG	79	VAL	3.2
22	AV	17	C	3.2
2	AB	103	TRP	3.2
11	BK	125	LYS	3.2
22	AV	20	U	3.2
51	D0	26	SER	3.2

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Mol	Chain	Res	Type	RSRZ
12	AL	123	ALA	3.2
25	CA	1070	A	3.2
1	AA	1031	C	3.2
9	AI	22	PRO	3.2
9	BI	129	ARG	3.2
1	BA	121	U	3.1
1	BA	1033	G	3.1
18	BR	20	ILE	3.1
10	BJ	102	LEU	3.1
21	BU	12	ASP	3.1
33	CI	56	VAL	3.1
33	CI	133	ARG	3.1
33	CI	11	GLN	3.1
33	DI	109	ALA	3.1
25	CA	549	G	3.1
33	DI	22	PRO	3.1
45	DU	49	PRO	3.1
2	AB	42	LEU	3.1
33	DI	85	ILE	3.1
1	AA	1286	U	3.1
25	CA	546	U	3.1
27	CC	234	GLY	3.1
4	AD	62	ARG	3.1
8	BH	1	SER	3.1
25	CA	1057	A	3.1
25	DA	1100	C	3.0
4	BD	23	GLY	3.0
6	AF	91	ARG	3.0
7	AG	3	ARG	3.0
25	DA	1087	G	3.0
25	CA	139	U	3.0
33	CI	73	PRO	3.0
25	CA	654	A	3.0
25	CA	2143	C	3.0
25	DA	2150	C	3.0
33	DI	131	THR	3.0
4	AD	24	VAL	3.0
25	CA	1096	A	3.0
25	CA	1098	A	3.0
2	BB	15	PHE	3.0
25	DA	1414	C	3.0
4	BD	36	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
33	DI	26	ALA	3.0
25	CA	2120	G	3.0
14	BN	1	ALA	3.0
1	BA	841	C	3.0
33	DI	94	LYS	3.0
33	DI	97	VAL	3.0
7	AG	4	ARG	2.9
18	AR	19	GLU	2.9
19	BS	2	ARG	2.9
25	DA	1063	G	2.9
33	CI	55	PRO	2.9
36	DL	115	GLU	2.9
47	CW	13	GLU	2.9
2	BB	131	LYS	2.9
33	CI	13	ALA	2.9
7	BG	5	VAL	2.9
33	CI	136	GLY	2.9
33	CI	19	PRO	2.9
33	DI	119	ALA	2.9
25	CA	1093	G	2.9
25	CA	2159	G	2.9
7	BG	9	ARG	2.9
25	CA	2175	C	2.9
33	DI	19	PRO	2.9
1	AA	88	U	2.9
12	AL	37	TYR	2.9
14	AN	20	PHE	2.9
17	BQ	19	SER	2.9
33	DI	98	GLY	2.9
39	DO	50	ALA	2.9
25	CA	2174	C	2.9
1	BA	843	U	2.9
25	CA	2585	U	2.9
33	CI	75	ALA	2.9
33	DI	73	PRO	2.9
2	BB	212	TYR	2.9
1	AA	844	G	2.9
33	CI	79	LEU	2.9
49	DY	22	LEU	2.9
25	CA	1058	U	2.8
33	CI	132	ALA	2.8
34	CJ	9	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
33	DI	133	ARG	2.8
2	BB	185	ILE	2.8
9	BI	53	LEU	2.8
33	DI	58	ILE	2.8
25	CA	1090	A	2.8
33	DI	113	ALA	2.8
25	CA	1087	G	2.8
33	CI	46	ASP	2.8
25	CA	2177	C	2.8
33	CI	3	LYS	2.8
23	BX	12	A	2.8
36	DL	92	LEU	2.8
7	BG	6	ILE	2.8
27	CC	236	GLY	2.8
30	DF	129	MET	2.8
45	DU	52	ASN	2.8
25	DA	1099	G	2.8
4	BD	22	SER	2.8
8	AH	1	SER	2.8
33	DI	25	PRO	2.8
1	BA	1362	A	2.8
23	AX	13	A	2.8
25	CA	1067	A	2.8
20	AT	67	HIS	2.8
20	BT	67	HIS	2.8
12	BL	13	ARG	2.8
25	CA	2310	C	2.8
41	CQ	117	ALA	2.8
13	BM	114	PRO	2.8
17	AQ	82	VAL	2.8
33	CI	54	ILE	2.8
9	AI	67	LYS	2.7
21	BU	13	VAL	2.7
25	DA	1090	A	2.7
8	AH	2	MET	2.7
25	CA	2112	G	2.7
5	BE	92	ARG	2.7
7	AG	84	TYR	2.7
21	BU	52	VAL	2.7
1	BA	842	U	2.7
14	BN	20	PHE	2.7
25	CA	1066	U	2.7

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Mol	Chain	Res	Type	RSRZ
25	DA	276	U	2.7
25	CA	1073	A	2.7
33	CI	1	ALA	2.7
33	DI	52	LEU	2.7
13	AM	114	PRO	2.7
34	CJ	81	ILE	2.7
33	CI	135	MET	2.7
6	AF	92	THR	2.7
7	AG	10	LYS	2.7
1	AA	1441	A	2.7
25	CA	1080	A	2.7
25	DA	613	A	2.7
39	DO	51	ALA	2.7
21	AU	27	VAL	2.7
4	AD	72	ARG	2.7
13	BM	98	GLY	2.7
25	DA	1093	G	2.7
33	DI	114	ALA	2.7
1	AA	4	U	2.7
12	AL	24	GLU	2.6
33	CI	87	SER	2.6
12	BL	37	TYR	2.6
20	BT	35	TYR	2.6
33	DI	7	TYR	2.6
25	CA	2138	G	2.6
25	DA	1065	U	2.6
25	DA	1584	U	2.6
30	CF	71	LYS	2.6
32	CH	97	ARG	2.6
44	CT	69	ARG	2.6
26	CB	1	U	2.6
57	DW	13	GLU	2.6
30	DF	169	LEU	2.6
14	BN	33	VAL	2.6
33	CI	23	VAL	2.6
33	CI	71	LYS	2.6
33	DI	44	LYS	2.6
48	DX	19	HIS	2.6
45	DU	54	PRO	2.6
19	AS	67	GLY	2.6
12	BL	23	LEU	2.6
33	CI	4	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	BA	1030	U	2.6
25	CA	2149	U	2.6
25	DA	138	U	2.6
33	DI	111	THR	2.6
2	BB	127	LYS	2.6
2	AB	89	PHE	2.6
25	CA	2133	G	2.6
33	CI	7	TYR	2.6
25	CA	1095	A	2.6
25	CA	2142	A	2.6
24	AY	43	VAL	2.6
25	DA	2175	C	2.6
33	DI	75	ALA	2.6
14	BN	48	LEU	2.5
6	BF	91	ARG	2.5
25	CA	2136	G	2.5
25	DA	883	G	2.5
25	DA	2125	G	2.5
33	CI	115	ASP	2.5
33	DI	67	THR	2.5
19	BS	4	LEU	2.5
19	AS	2	ARG	2.5
25	CA	2171	A	2.5
25	CA	2309	A	2.5
1	BA	212	G	2.5
25	DA	277	G	2.5
33	CI	25	PRO	2.5
9	BI	94	ARG	2.5
2	AB	11	ALA	2.5
10	BJ	76	ILE	2.5
9	BI	45	MET	2.5
9	BI	12	LYS	2.5
21	BU	46	ARG	2.5
50	DZ	18	LYS	2.5
25	CA	892	A	2.5
30	CF	148	VAL	2.5
33	DI	57	VAL	2.5
25	DA	2124	G	2.5
7	AG	6	ILE	2.5
25	CA	1079	C	2.5
25	CA	1092	C	2.5
14	BN	11	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
33	CI	108	ILE	2.4
35	DK	98	ARG	2.4
19	BS	32	THR	2.4
25	DA	885	C	2.4
25	DA	1064	C	2.4
25	DA	1074	G	2.4
17	AQ	19	SER	2.4
25	CA	2169	A	2.4
30	DF	82	TYR	2.4
1	AA	842	U	2.4
25	CA	2124	G	2.4
2	AB	128	LEU	2.4
6	AF	54	LEU	2.4
12	AL	14	LYS	2.4
33	CI	66	PHE	2.4
25	DA	1094	U	2.4
33	DI	8	VAL	2.4
20	BT	2	ASN	2.4
21	AU	12	ASP	2.4
13	BM	6	ILE	2.4
14	BN	29	ILE	2.4
33	CI	121	ILE	2.4
33	DI	13	ALA	2.4
33	DI	43	ALA	2.4
10	BJ	87	LEU	2.4
25	CA	2108	A	2.4
25	CA	2170	A	2.4
25	CA	1083	U	2.4
25	DA	139	U	2.4
32	DH	108	VAL	2.4
4	AD	7	LYS	2.3
2	BB	138	ARG	2.3
17	AQ	4	ILE	2.3
34	DJ	111	LYS	2.3
17	BQ	64	ARG	2.3
2	BB	8	MET	2.3
1	BA	844	G	2.3
25	DA	2120	G	2.3
5	BE	64	GLU	2.3
32	CH	118	PRO	2.3
25	CA	2163	A	2.3
49	DY	23	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
33	DI	6	ALA	2.3
3	AC	36	PHE	2.3
7	BG	58	LEU	2.3
1	BA	1361	G	2.3
25	CA	2885	G	2.3
33	CI	9	LYS	2.3
24	AY	104	PRO	2.3
30	CF	79	ARG	2.3
10	BJ	6	ILE	2.3
30	DF	81	GLY	2.3
33	DI	61	TYR	2.3
25	CA	1089	A	2.3
25	DA	2163	A	2.3
10	BJ	75	ASP	2.3
25	DA	2118	U	2.3
10	AJ	77	VAL	2.3
10	BJ	74	VAL	2.3
24	AY	42	VAL	2.3
44	DT	76	ARG	2.3
9	BI	9	GLY	2.3
33	DI	16	MET	2.3
33	CI	65	SER	2.3
2	AB	134	LEU	2.3
44	DT	93	LEU	2.3
3	BC	36	PHE	2.3
25	CA	2144	G	2.3
25	CA	2148	G	2.3
4	BD	72	ARG	2.3
7	AG	108	ARG	2.3
14	BN	57	PRO	2.3
33	DI	121	ILE	2.3
7	AG	80	GLY	2.3
2	AB	8	MET	2.3
33	DI	27	LEU	2.3
17	BQ	15	LYS	2.3
27	DC	264	LYS	2.3
25	CA	2116	G	2.2
25	DA	2121	G	2.2
33	DI	48	ILE	2.2
33	CI	113	ALA	2.2
1	AA	412	A	2.2
33	DI	70	THR	2.2

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Mol	Chain	Res	Type	RSRZ
21	BU	20	ARG	2.2
33	CI	30	GLN	2.2
21	BU	38	GLU	2.2
2	BB	206	ILE	2.2
2	AB	65	LYS	2.2
25	DA	1078	U	2.2
25	DA	1083	U	2.2
25	CA	896	A	2.2
30	DF	31	GLU	2.2
4	BD	21	LYS	2.2
5	AE	158	LYS	2.2
7	BG	3	ARG	2.2
10	AJ	45	ARG	2.2
33	DI	117	THR	2.2
11	BK	128	VAL	2.2
25	CA	2137	U	2.2
33	DI	106	GLN	2.2
30	DF	155	ILE	2.2
25	CA	1099	G	2.2
25	DA	2117	A	2.2
56	DB	119	A	2.2
17	AQ	5	ARG	2.2
10	AJ	81	GLU	2.2
24	AY	91	ASN	2.2
27	CC	264	LYS	2.2
33	CI	43	ALA	2.2
25	DA	2109	U	2.2
25	DA	2585	U	2.2
55	D4	12	ARG	2.2
33	DI	68	PHE	2.2
25	CA	1088	A	2.2
13	BM	63	VAL	2.1
33	DI	71	LYS	2.1
32	CH	137	GLU	2.1
50	CZ	58	GLU	2.1
33	DI	66	PHE	2.1
25	CA	1180	U	2.1
33	CI	8	VAL	2.1
20	AT	56	ILE	2.1
25	DA	1057	A	2.1
25	CA	2110	G	2.1
25	DA	882	G	2.1

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Mol	Chain	Res	Type	RSRZ
25	DA	2115	G	2.1
25	DA	2162	G	2.1
2	AB	133	ALA	2.1
30	DF	79	ARG	2.1
1	BA	1214	C	2.1
25	DA	1493	C	2.1
13	AM	11	HIS	2.1
1	BA	4	U	2.1
1	BA	1029	U	2.1
2	AB	9	LEU	2.1
3	AC	206	ILE	2.1
4	AD	150	LYS	2.1
20	BT	68	LYS	2.1
25	CA	2109	U	2.1
25	DA	1061	U	2.1
32	CH	112	LYS	2.1
45	DU	16	LYS	2.1
21	BU	14	ALA	2.1
25	DA	2119	A	2.1
24	AY	74	SER	2.1
1	BA	211	G	2.1
21	AU	52	VAL	2.1
32	CH	134	VAL	2.1
1	BA	1533	C	2.1
6	BF	93	LYS	2.1
10	AJ	59	LYS	2.1
2	AB	150	ILE	2.1
5	AE	10	LEU	2.1
17	BQ	4	ILE	2.1
31	CG	110	HIS	2.1
33	DI	100	ILE	2.1
14	AN	23	ARG	2.1
33	DI	116	MET	2.1
49	DY	1	MET	2.1
17	AQ	81	ALA	2.1
33	CI	119	ALA	2.1
23	BX	19	U	2.1
4	AD	165	GLU	2.1
13	BM	62	PHE	2.1
14	BN	97	LYS	2.1
33	DI	2	LYS	2.1
3	AC	174	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
21	AU	17	ARG	2.1
45	CU	51	LEU	2.1
33	CI	72	THR	2.1
1	AA	1538	C	2.1
9	BI	15	ALA	2.1
22	AV	56	C	2.1
25	CA	2160	C	2.1
25	CA	2165	C	2.1
22	AV	18	G	2.1
25	CA	1059	G	2.1
25	DA	1416	G	2.1
56	DB	13	G	2.1
32	DH	32	PRO	2.1
1	AA	843	U	2.0
25	DA	1058	U	2.0
33	CI	127	SER	2.0
32	CH	66	ASN	2.0
13	BM	39	ALA	2.0
20	AT	6	ALA	2.0
15	AO	79	GLN	2.0
33	DI	15	GLY	2.0
32	DH	87	GLU	2.0
33	DI	86	LYS	2.0
36	CL	115	GLU	2.0
11	AK	128	VAL	2.0
25	DA	1091	G	2.0
33	CI	64	ARG	2.0
13	AM	6	ILE	2.0
1	BA	209	U	2.0
33	DI	124	MET	2.0
12	AL	17	LYS	2.0
7	BG	31	VAL	2.0
7	BG	79	VAL	2.0
25	DA	892	A	2.0
12	BL	8	ARG	2.0
13	BM	3	ILE	2.0
25	DA	2161	C	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	CA	3062	1/1	0.37	0.43	46,46,46,46	0
58	MG	CA	3048	1/1	0.73	0.08	13,13,13,13	0
58	MG	DA	3150	1/1	0.75	0.17	0,0,0,0	0
58	MG	DA	3098	1/1	0.82	0.28	49,49,49,49	0
58	MG	CA	3106	1/1	0.84	0.15	0,0,0,0	0
58	MG	DA	3083	1/1	0.84	0.17	31,31,31,31	0
58	MG	AA	1670	1/1	0.85	0.12	11,11,11,11	0
58	MG	DA	3165	1/1	0.85	0.18	0,0,0,0	0
58	MG	CA	3108	1/1	0.86	0.04	0,0,0,0	0
58	MG	DA	3060	1/1	0.86	0.21	5,5,5,5	0
58	MG	CA	3173	1/1	0.87	0.18	0,0,0,0	0
58	MG	AA	1667	1/1	0.87	0.19	13,13,13,13	0
58	MG	CA	3158	1/1	0.87	0.28	0,0,0,0	0
58	MG	BA	1618	1/1	0.88	0.12	4,4,4,4	0
58	MG	DA	3147	1/1	0.88	0.19	0,0,0,0	0
58	MG	AA	1658	1/1	0.89	0.13	16,16,16,16	0
58	MG	BA	1653	1/1	0.89	0.08	7,7,7,7	0
58	MG	DA	3161	1/1	0.89	0.16	15,15,15,15	0
58	MG	BA	1654	1/1	0.89	0.13	22,22,22,22	0
58	MG	DA	3131	1/1	0.90	0.26	55,55,55,55	0
58	MG	AA	1653	1/1	0.90	0.15	1,1,1,1	0
58	MG	BA	1635	1/1	0.90	0.12	21,21,21,21	0
58	MG	BA	1655	1/1	0.90	0.14	9,9,9,9	0
58	MG	DA	3163	1/1	0.90	0.10	0,0,0,0	0
58	MG	DA	3115	1/1	0.90	0.15	27,27,27,27	0
58	MG	CA	3177	1/1	0.91	0.17	0,0,0,0	0
58	MG	CB	204	1/1	0.91	0.35	0,0,0,0	0
58	MG	AA	1644	1/1	0.91	0.17	5,5,5,5	0
58	MG	CA	3099	1/1	0.91	0.33	53,53,53,53	0
58	MG	AA	1663	1/1	0.91	0.09	6,6,6,6	0
58	MG	AA	1640	1/1	0.91	0.15	34,34,34,34	0
58	MG	DA	3116	1/1	0.91	0.12	13,13,13,13	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	CA	3134	1/1	0.91	0.20	14,14,14,14	0
58	MG	DA	3138	1/1	0.91	0.34	0,0,0,0	0
58	MG	CA	3152	1/1	0.91	0.17	0,0,0,0	0
58	MG	CA	3153	1/1	0.91	0.18	0,0,0,0	0
58	MG	CA	3028	1/1	0.91	0.12	21,21,21,21	0
58	MG	CA	3160	1/1	0.91	0.21	0,0,0,0	0
58	MG	BA	1642	1/1	0.91	0.18	6,6,6,6	0
58	MG	AA	1664	1/1	0.92	0.09	4,4,4,4	0
58	MG	CA	3164	1/1	0.92	0.24	0,0,0,0	0
58	MG	AA	1655	1/1	0.92	0.19	0,0,0,0	0
58	MG	AA	1645	1/1	0.92	0.19	8,8,8,8	0
58	MG	CA	3178	1/1	0.92	0.07	0,0,0,0	0
58	MG	CA	3194	1/1	0.92	0.18	0,0,0,0	0
58	MG	AA	1625	1/1	0.92	0.04	6,6,6,6	0
58	MG	DA	3149	1/1	0.92	0.18	0,0,0,0	0
58	MG	CQ	201	1/1	0.92	0.27	0,0,0,0	0
58	MG	DA	3160	1/1	0.92	0.07	0,0,0,0	0
58	MG	DA	3055	1/1	0.92	0.11	28,28,28,28	0
58	MG	DA	3057	1/1	0.92	0.11	14,14,14,14	0
58	MG	BA	1631	1/1	0.92	0.09	35,35,35,35	0
58	MG	DA	3061	1/1	0.93	0.18	24,24,24,24	0
58	MG	AA	1666	1/1	0.93	0.09	13,13,13,13	0
58	MG	DA	3091	1/1	0.93	0.18	50,50,50,50	0
58	MG	AA	1660	1/1	0.93	0.16	15,15,15,15	0
58	MG	AA	1656	1/1	0.93	0.16	14,14,14,14	0
58	MG	BA	1649	1/1	0.93	0.18	11,11,11,11	0
58	MG	CA	3176	1/1	0.93	0.16	10,10,10,10	0
58	MG	BA	1615	1/1	0.93	0.17	9,9,9,9	0
58	MG	CA	3117	1/1	0.93	0.09	5,5,5,5	0
58	MG	AA	1654	1/1	0.93	0.15	5,5,5,5	0
58	MG	CA	3145	1/1	0.93	0.14	0,0,0,0	0
58	MG	CA	3147	1/1	0.93	0.29	0,0,0,0	0
58	MG	BA	1627	1/1	0.93	0.07	35,35,35,35	0
58	MG	BA	1630	1/1	0.93	0.07	41,41,41,41	0
58	MG	DA	3164	1/1	0.93	0.11	0,0,0,0	0
58	MG	CA	3154	1/1	0.93	0.21	0,0,0,0	0
58	MG	CA	3188	1/1	0.94	0.16	2,2,2,2	0
58	MG	CA	3192	1/1	0.94	0.05	0,0,0,0	0
58	MG	CA	3026	1/1	0.94	0.20	30,30,30,30	0
58	MG	BA	1645	1/1	0.94	0.07	8,8,8,8	0
58	MG	BA	1647	1/1	0.94	0.07	0,0,0,0	0
58	MG	CA	3149	1/1	0.94	0.35	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	CA	3151	1/1	0.94	0.28	0,0,0,0	0
58	MG	AA	1648	1/1	0.94	0.05	4,4,4,4	0
58	MG	CA	3081	1/1	0.94	0.03	0,0,0,0	0
58	MG	DA	3078	1/1	0.94	0.09	15,15,15,15	0
58	MG	CA	3085	1/1	0.94	0.09	12,12,12,12	0
58	MG	CA	3155	1/1	0.94	0.26	0,0,0,0	0
58	MG	CA	3156	1/1	0.94	0.28	0,0,0,0	0
58	MG	AA	1661	1/1	0.94	0.11	15,15,15,15	0
58	MG	CA	3159	1/1	0.94	0.18	0,0,0,0	0
58	MG	CA	3105	1/1	0.94	0.12	0,0,0,0	0
58	MG	CA	3161	1/1	0.94	0.12	0,0,0,0	0
58	MG	DA	3139	1/1	0.94	0.23	0,0,0,0	0
58	MG	CA	3163	1/1	0.94	0.16	0,0,0,0	0
58	MG	BA	1636	1/1	0.94	0.07	42,42,42,42	0
58	MG	CA	3167	1/1	0.94	0.23	0,0,0,0	0
58	MG	DA	3151	1/1	0.94	0.18	11,11,11,11	0
58	MG	DA	3152	1/1	0.94	0.20	6,6,6,6	0
58	MG	DA	3156	1/1	0.94	0.18	3,3,3,3	0
58	MG	AA	1662	1/1	0.94	0.13	8,8,8,8	0
58	MG	CA	3175	1/1	0.94	0.16	0,0,0,0	0
58	MG	CA	3116	1/1	0.94	0.17	10,10,10,10	0
58	MG	CA	3014	1/1	0.94	0.07	12,12,12,12	0
58	MG	CA	3132	1/1	0.94	0.26	24,24,24,24	0
58	MG	BA	1612	1/1	0.95	0.05	18,18,18,18	0
58	MG	DA	3119	1/1	0.95	0.09	44,44,44,44	0
58	MG	AA	1623	1/1	0.95	0.07	24,24,24,24	0
58	MG	DA	3025	1/1	0.95	0.17	16,16,16,16	0
58	MG	DA	3036	1/1	0.95	0.09	21,21,21,21	0
58	MG	DA	3143	1/1	0.95	0.18	0,0,0,0	0
58	MG	DA	3146	1/1	0.95	0.18	0,0,0,0	0
58	MG	DA	3047	1/1	0.95	0.05	28,28,28,28	0
58	MG	DA	3148	1/1	0.95	0.19	0,0,0,0	0
58	MG	CA	3140	1/1	0.95	0.35	0,0,0,0	0
58	MG	AA	1659	1/1	0.95	0.08	12,12,12,12	0
58	MG	BA	1643	1/1	0.95	0.15	3,3,3,3	0
58	MG	BA	1644	1/1	0.95	0.08	0,0,0,0	0
58	MG	CA	3180	1/1	0.95	0.10	6,6,6,6	0
58	MG	AA	1601	1/1	0.95	0.07	44,44,44,44	0
58	MG	DA	3090	1/1	0.95	0.06	15,15,15,15	0
58	MG	CA	3191	1/1	0.95	0.17	0,0,0,0	0
58	MG	AA	1616	1/1	0.95	0.07	11,11,11,11	0
58	MG	AA	1650	1/1	0.95	0.07	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	BA	1633	1/1	0.96	0.11	11,11,11,11	0
58	MG	CA	3138	1/1	0.96	0.40	0,0,0,0	0
58	MG	CA	3165	1/1	0.96	0.13	0,0,0,0	0
58	MG	BA	1648	1/1	0.96	0.22	0,0,0,0	0
58	MG	DA	3079	1/1	0.96	0.06	27,27,27,27	0
58	MG	CA	3169	1/1	0.96	0.23	7,7,7,7	0
58	MG	DA	3084	1/1	0.96	0.12	32,32,32,32	0
58	MG	DA	3088	1/1	0.96	0.11	12,12,12,12	0
58	MG	CA	3170	1/1	0.96	0.11	0,0,0,0	0
58	MG	CA	3172	1/1	0.96	0.10	0,0,0,0	0
58	MG	DA	3092	1/1	0.96	0.17	34,34,34,34	0
58	MG	DA	3095	1/1	0.96	0.07	10,10,10,10	0
58	MG	CA	3143	1/1	0.96	0.24	0,0,0,0	0
58	MG	DA	3102	1/1	0.96	0.07	12,12,12,12	0
58	MG	CA	3058	1/1	0.96	0.05	10,10,10,10	0
58	MG	AA	1639	1/1	0.96	0.08	22,22,22,22	0
58	MG	BA	1651	1/1	0.96	0.06	7,7,7,7	0
58	MG	CA	3150	1/1	0.96	0.13	0,0,0,0	0
58	MG	DA	3136	1/1	0.96	0.12	28,28,28,28	0
58	MG	CA	3082	1/1	0.96	0.06	0,0,0,0	0
58	MG	CA	3181	1/1	0.96	0.16	0,0,0,0	0
58	MG	DA	3140	1/1	0.96	0.21	0,0,0,0	0
58	MG	CA	3185	1/1	0.96	0.21	0,0,0,0	0
58	MG	CA	3084	1/1	0.96	0.05	22,22,22,22	0
58	MG	CA	3190	1/1	0.96	0.21	0,0,0,0	0
58	MG	AA	1668	1/1	0.96	0.08	0,0,0,0	0
58	MG	AA	1669	1/1	0.96	0.12	10,10,10,10	0
58	MG	AA	1620	1/1	0.96	0.07	10,10,10,10	0
58	MG	BA	1656	1/1	0.96	0.19	9,9,9,9	0
58	MG	CA	3013	1/1	0.96	0.10	0,0,0,0	0
58	MG	DA	3155	1/1	0.96	0.11	1,1,1,1	0
58	MG	DA	3004	1/1	0.96	0.06	30,30,30,30	0
58	MG	DA	3157	1/1	0.96	0.10	0,0,0,0	0
58	MG	DA	3015	1/1	0.96	0.16	23,23,23,23	0
58	MG	AA	1671	1/1	0.96	0.11	6,6,6,6	0
58	MG	CA	3015	1/1	0.96	0.12	36,36,36,36	0
58	MG	BA	1608	1/1	0.96	0.07	18,18,18,18	0
58	MG	CA	3162	1/1	0.96	0.26	0,0,0,0	0
58	MG	DB	203	1/1	0.96	0.08	16,16,16,16	0
58	MG	DQ	801	1/1	0.96	0.24	0,0,0,0	0
58	MG	DA	3080	1/1	0.97	0.12	1,1,1,1	0
58	MG	CA	3070	1/1	0.97	0.12	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	BA	1652	1/1	0.97	0.11	1,1,1,1	0
58	MG	BA	1637	1/1	0.97	0.09	19,19,19,19	0
58	MG	CA	3179	1/1	0.97	0.12	0,0,0,0	0
58	MG	BA	1641	1/1	0.97	0.07	20,20,20,20	0
58	MG	AA	1646	1/1	0.97	0.04	0,0,0,0	0
58	MG	CA	3182	1/1	0.97	0.28	0,0,0,0	0
58	MG	CA	3091	1/1	0.97	0.05	3,3,3,3	0
58	MG	CA	3186	1/1	0.97	0.27	0,0,0,0	0
58	MG	DA	3110	1/1	0.97	0.07	18,18,18,18	0
58	MG	BA	1620	1/1	0.97	0.06	19,19,19,19	0
58	MG	CA	3189	1/1	0.97	0.11	0,0,0,0	0
58	MG	CA	3001	1/1	0.97	0.05	0,0,0,0	0
58	MG	CA	3157	1/1	0.97	0.19	0,0,0,0	0
58	MG	DA	3133	1/1	0.97	0.19	16,16,16,16	0
58	MG	AA	1619	1/1	0.97	0.11	32,32,32,32	0
58	MG	AA	1665	1/1	0.97	0.04	0,0,0,0	0
58	MG	BA	1646	1/1	0.97	0.07	10,10,10,10	0
58	MG	CA	3024	1/1	0.97	0.06	0,0,0,0	0
58	MG	DA	3141	1/1	0.97	0.22	0,0,0,0	0
58	MG	AA	1627	1/1	0.97	0.08	19,19,19,19	0
58	MG	DA	3145	1/1	0.97	0.12	0,0,0,0	0
58	MG	DA	3011	1/1	0.97	0.04	0,0,0,0	0
58	MG	DA	3013	1/1	0.97	0.09	0,0,0,0	0
58	MG	DA	3014	1/1	0.97	0.06	12,12,12,12	0
58	MG	BA	1609	1/1	0.97	0.06	26,26,26,26	0
58	MG	CA	3035	1/1	0.97	0.09	1,1,1,1	0
58	MG	CA	3139	1/1	0.97	0.37	0,0,0,0	0
58	MG	DA	3040	1/1	0.97	0.06	5,5,5,5	0
58	MG	DA	3153	1/1	0.97	0.12	11,11,11,11	0
58	MG	DA	3154	1/1	0.97	0.15	0,0,0,0	0
58	MG	CA	3166	1/1	0.97	0.14	0,0,0,0	0
58	MG	CA	3045	1/1	0.97	0.04	0,0,0,0	0
58	MG	CA	3141	1/1	0.97	0.26	0,0,0,0	0
58	MG	DA	3158	1/1	0.97	0.10	0,0,0,0	0
58	MG	DA	3159	1/1	0.97	0.17	3,3,3,3	0
58	MG	DA	3059	1/1	0.97	0.07	6,6,6,6	0
58	MG	AA	1652	1/1	0.97	0.16	13,13,13,13	0
58	MG	DA	3162	1/1	0.97	0.20	4,4,4,4	0
58	MG	CA	3144	1/1	0.97	0.26	0,0,0,0	0
58	MG	DA	3063	1/1	0.97	0.10	0,0,0,0	0
58	MG	DA	3069	1/1	0.97	0.06	41,41,41,41	0
58	MG	DA	3166	1/1	0.97	0.25	9,9,9,9	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	BA	1650	1/1	0.97	0.21	5,5,5,5	0
58	MG	AA	1657	1/1	0.97	0.13	2,2,2,2	0
58	MG	DA	3043	1/1	0.98	0.05	6,6,6,6	0
58	MG	AA	1604	1/1	0.98	0.14	22,22,22,22	0
58	MG	DA	3050	1/1	0.98	0.04	0,0,0,0	0
58	MG	CA	3086	1/1	0.98	0.09	0,0,0,0	0
58	MG	CA	3089	1/1	0.98	0.12	19,19,19,19	0
58	MG	AA	1622	1/1	0.98	0.14	0,0,0,0	0
58	MG	CA	3092	1/1	0.98	0.06	16,16,16,16	0
58	MG	CA	3095	1/1	0.98	0.08	17,17,17,17	0
58	MG	AA	1610	1/1	0.98	0.05	32,32,32,32	0
58	MG	CA	3103	1/1	0.98	0.08	0,0,0,0	0
58	MG	DA	3070	1/1	0.98	0.04	0,0,0,0	0
58	MG	DA	3073	1/1	0.98	0.04	6,6,6,6	0
58	MG	AA	1614	1/1	0.98	0.03	12,12,12,12	0
58	MG	CA	3002	1/1	0.98	0.06	0,0,0,0	0
58	MG	CA	3168	1/1	0.98	0.16	0,0,0,0	0
58	MG	AA	1647	1/1	0.98	0.21	1,1,1,1	0
58	MG	CA	3109	1/1	0.98	0.10	0,0,0,0	0
58	MG	CA	3171	1/1	0.98	0.13	0,0,0,0	0
58	MG	CA	3112	1/1	0.98	0.05	4,4,4,4	0
58	MG	CA	3114	1/1	0.98	0.05	0,0,0,0	0
58	MG	CA	3174	1/1	0.98	0.18	0,0,0,0	0
58	MG	DA	3094	1/1	0.98	0.04	43,43,43,43	0
58	MG	BA	1603	1/1	0.98	0.04	13,13,13,13	0
58	MG	DA	3096	1/1	0.98	0.04	13,13,13,13	0
58	MG	BA	1606	1/1	0.98	0.06	24,24,24,24	0
58	MG	CA	3120	1/1	0.98	0.13	2,2,2,2	0
58	MG	DA	3103	1/1	0.98	0.05	0,0,0,0	0
58	MG	DA	3104	1/1	0.98	0.06	0,0,0,0	0
58	MG	DA	3105	1/1	0.98	0.04	0,0,0,0	0
58	MG	CA	3124	1/1	0.98	0.03	0,0,0,0	0
58	MG	DA	3111	1/1	0.98	0.05	1,1,1,1	0
58	MG	DA	3114	1/1	0.98	0.04	14,14,14,14	0
58	MG	CA	3021	1/1	0.98	0.04	0,0,0,0	0
58	MG	AA	1602	1/1	0.98	0.11	17,17,17,17	0
58	MG	AA	1649	1/1	0.98	0.20	0,0,0,0	0
58	MG	BA	1611	1/1	0.98	0.08	13,13,13,13	0
58	MG	CA	3183	1/1	0.98	0.20	0,0,0,0	0
58	MG	DA	3135	1/1	0.98	0.08	11,11,11,11	0
58	MG	CA	3184	1/1	0.98	0.18	0,0,0,0	0
58	MG	DA	3137	1/1	0.98	0.36	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	CA	3030	1/1	0.98	0.06	0,0,0,0	0
58	MG	CA	3031	1/1	0.98	0.15	0,0,0,0	0
58	MG	CA	3187	1/1	0.98	0.13	0,0,0,0	0
58	MG	CA	3142	1/1	0.98	0.37	0,0,0,0	0
58	MG	DA	3142	1/1	0.98	0.12	0,0,0,0	0
58	MG	AA	1630	1/1	0.98	0.10	16,16,16,16	0
58	MG	BA	1614	1/1	0.98	0.05	19,19,19,19	0
58	MG	AA	1651	1/1	0.98	0.18	0,0,0,0	0
58	MG	CA	3146	1/1	0.98	0.26	0,0,0,0	0
58	MG	CA	3193	1/1	0.98	0.17	0,0,0,0	0
58	MG	CA	3056	1/1	0.98	0.08	10,10,10,10	0
58	MG	CA	3148	1/1	0.98	0.28	0,0,0,0	0
58	MG	BA	1616	1/1	0.98	0.04	0,0,0,0	0
58	MG	CA	3061	1/1	0.98	0.05	9,9,9,9	0
58	MG	DA	3005	1/1	0.98	0.07	25,25,25,25	0
58	MG	DA	3006	1/1	0.98	0.05	10,10,10,10	0
58	MG	DA	3009	1/1	0.98	0.04	4,4,4,4	0
58	MG	DA	3010	1/1	0.98	0.04	7,7,7,7	0
58	MG	AA	1631	1/1	0.98	0.11	35,35,35,35	0
58	MG	AA	1635	1/1	0.98	0.09	18,18,18,18	0
58	MG	CA	3076	1/1	0.98	0.07	0,0,0,0	0
58	MG	CA	3080	1/1	0.98	0.07	1,1,1,1	0
58	MG	DA	3016	1/1	0.98	0.04	1,1,1,1	0
58	MG	DA	3018	1/1	0.98	0.02	6,6,6,6	0
58	MG	DA	3023	1/1	0.98	0.04	0,0,0,0	0
58	MG	BA	1623	1/1	0.98	0.04	3,3,3,3	0
58	MG	DA	3034	1/1	0.98	0.04	11,11,11,11	0
58	MG	AA	1603	1/1	0.98	0.05	28,28,28,28	0
58	MG	DA	3039	1/1	0.98	0.03	3,3,3,3	0
58	MG	BA	1629	1/1	0.98	0.05	17,17,17,17	0
58	MG	DA	3028	1/1	0.99	0.05	0,0,0,0	0
58	MG	DA	3030	1/1	0.99	0.05	0,0,0,0	0
58	MG	DA	3033	1/1	0.99	0.06	0,0,0,0	0
58	MG	CA	3047	1/1	0.99	0.05	0,0,0,0	0
58	MG	AA	1642	1/1	0.99	0.03	1,1,1,1	0
58	MG	DA	3037	1/1	0.99	0.10	0,0,0,0	0
58	MG	DA	3038	1/1	0.99	0.03	0,0,0,0	0
58	MG	CA	3053	1/1	0.99	0.03	0,0,0,0	0
58	MG	AA	1643	1/1	0.99	0.33	0,0,0,0	0
58	MG	AA	1612	1/1	0.99	0.09	0,0,0,0	0
58	MG	DA	3044	1/1	0.99	0.06	11,11,11,11	0
58	MG	DA	3045	1/1	0.99	0.04	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	DA	3046	1/1	0.99	0.03	1,1,1,1	0
58	MG	CA	3059	1/1	0.99	0.03	4,4,4,4	0
58	MG	CA	3060	1/1	0.99	0.05	4,4,4,4	0
58	MG	DA	3053	1/1	0.99	0.01	0,0,0,0	0
58	MG	DA	3054	1/1	0.99	0.04	0,0,0,0	0
58	MG	AA	1607	1/1	0.99	0.03	10,10,10,10	0
58	MG	DA	3056	1/1	0.99	0.08	5,5,5,5	0
58	MG	AA	1615	1/1	0.99	0.08	9,9,9,9	0
58	MG	CA	3063	1/1	0.99	0.08	0,0,0,0	0
58	MG	AA	1626	1/1	0.99	0.04	0,0,0,0	0
58	MG	CA	3074	1/1	0.99	0.10	0,0,0,0	0
58	MG	DA	3062	1/1	0.99	0.06	0,0,0,0	0
58	MG	CA	3075	1/1	0.99	0.02	0,0,0,0	0
58	MG	DA	3064	1/1	0.99	0.04	0,0,0,0	0
58	MG	DA	3066	1/1	0.99	0.04	0,0,0,0	0
58	MG	AA	1608	1/1	0.99	0.13	0,0,0,0	0
58	MG	CA	3077	1/1	0.99	0.05	0,0,0,0	0
58	MG	DA	3071	1/1	0.99	0.06	0,0,0,0	0
58	MG	AA	1617	1/1	0.99	0.06	21,21,21,21	0
58	MG	DA	3075	1/1	0.99	0.03	8,8,8,8	0
58	MG	DA	3076	1/1	0.99	0.06	5,5,5,5	0
58	MG	AA	1618	1/1	0.99	0.04	21,21,21,21	0
58	MG	BA	1622	1/1	0.99	0.07	4,4,4,4	0
58	MG	CA	3083	1/1	0.99	0.04	10,10,10,10	0
58	MG	DA	3081	1/1	0.99	0.03	0,0,0,0	0
58	MG	DA	3082	1/1	0.99	0.04	7,7,7,7	0
58	MG	AA	1632	1/1	0.99	0.03	15,15,15,15	0
58	MG	BA	1626	1/1	0.99	0.03	14,14,14,14	0
58	MG	DA	3085	1/1	0.99	0.10	0,0,0,0	0
58	MG	DA	3087	1/1	0.99	0.03	20,20,20,20	0
58	MG	AA	1606	1/1	0.99	0.04	6,6,6,6	0
58	MG	DA	3089	1/1	0.99	0.04	24,24,24,24	0
58	MG	AA	1636	1/1	0.99	0.04	0,0,0,0	0
58	MG	AA	1637	1/1	0.99	0.04	1,1,1,1	0
58	MG	CA	3004	1/1	0.99	0.03	11,11,11,11	0
58	MG	DA	3093	1/1	0.99	0.04	2,2,2,2	0
58	MG	CA	3093	1/1	0.99	0.06	11,11,11,11	0
58	MG	CA	3094	1/1	0.99	0.03	3,3,3,3	0
58	MG	CA	3006	1/1	0.99	0.04	1,1,1,1	0
58	MG	DA	3097	1/1	0.99	0.03	13,13,13,13	0
58	MG	CA	3096	1/1	0.99	0.03	0,0,0,0	0
58	MG	DA	3099	1/1	0.99	0.03	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	DA	3100	1/1	0.99	0.04	4,4,4,4	0
58	MG	CA	3098	1/1	0.99	0.04	0,0,0,0	0
58	MG	CA	3007	1/1	0.99	0.04	0,0,0,0	0
58	MG	CA	3100	1/1	0.99	0.04	0,0,0,0	0
58	MG	CA	3009	1/1	0.99	0.03	0,0,0,0	0
58	MG	DA	3107	1/1	0.99	0.04	9,9,9,9	0
58	MG	DA	3108	1/1	0.99	0.10	0,0,0,0	0
58	MG	DA	3109	1/1	0.99	0.07	2,2,2,2	0
58	MG	AA	1611	1/1	0.99	0.05	0,0,0,0	0
58	MG	AA	1672	1/1	0.99	0.09	3,3,3,3	0
58	MG	DA	3112	1/1	0.99	0.04	5,5,5,5	0
58	MG	BA	1634	1/1	0.99	0.07	10,10,10,10	0
58	MG	CA	3017	1/1	0.99	0.09	0,0,0,0	0
58	MG	CA	3111	1/1	0.99	0.04	6,6,6,6	0
58	MG	CA	3019	1/1	0.99	0.04	0,0,0,0	0
58	MG	DA	3120	1/1	0.99	0.05	8,8,8,8	0
58	MG	DA	3121	1/1	0.99	0.04	7,7,7,7	0
58	MG	DA	3122	1/1	0.99	0.06	0,0,0,0	0
58	MG	DA	3123	1/1	0.99	0.04	6,6,6,6	0
58	MG	DA	3126	1/1	0.99	0.06	0,0,0,0	0
58	MG	DA	3128	1/1	0.99	0.07	0,0,0,0	0
58	MG	CA	3113	1/1	0.99	0.06	0,0,0,0	0
58	MG	DA	3132	1/1	0.99	0.04	6,6,6,6	0
58	MG	BA	1601	1/1	0.99	0.03	2,2,2,2	0
58	MG	CA	3115	1/1	0.99	0.03	0,0,0,0	0
58	MG	BA	1602	1/1	0.99	0.03	21,21,21,21	0
58	MG	CA	3025	1/1	0.99	0.09	0,0,0,0	0
58	MG	CA	3118	1/1	0.99	0.04	0,0,0,0	0
58	MG	AA	1621	1/1	0.99	0.06	10,10,10,10	0
58	MG	CA	3121	1/1	0.99	0.13	0,0,0,0	0
58	MG	BA	1638	1/1	0.99	0.05	27,27,27,27	0
58	MG	CA	3126	1/1	0.99	0.06	0,0,0,0	0
58	MG	CB	201	1/1	0.99	0.03	0,0,0,0	0
58	MG	DA	3144	1/1	0.99	0.11	0,0,0,0	0
58	MG	CB	202	1/1	0.99	0.08	0,0,0,0	0
58	MG	CA	3127	1/1	0.99	0.07	0,0,0,0	0
58	MG	CA	3129	1/1	0.99	0.07	0,0,0,0	0
58	MG	DA	3001	1/1	0.99	0.07	0,0,0,0	0
58	MG	DA	3002	1/1	0.99	0.04	1,1,1,1	0
58	MG	DA	3003	1/1	0.99	0.02	8,8,8,8	0
58	MG	BA	1640	1/1	0.99	0.10	0,0,0,0	0
58	MG	BA	1605	1/1	0.99	0.03	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	CA	3135	1/1	0.99	0.07	0,0,0,0	0
58	MG	DA	3007	1/1	0.99	0.13	26,26,26,26	0
58	MG	CA	3136	1/1	0.99	0.04	0,0,0,0	0
58	MG	CA	3137	1/1	0.99	0.07	4,4,4,4	0
58	MG	AA	1641	1/1	0.99	0.04	0,0,0,0	0
58	MG	DA	3012	1/1	0.99	0.04	0,0,0,0	0
58	MG	CA	3036	1/1	0.99	0.08	0,0,0,0	0
58	MG	CA	3037	1/1	0.99	0.09	11,11,11,11	0
58	MG	CA	3039	1/1	0.99	0.05	0,0,0,0	0
58	MG	CA	3040	1/1	0.99	0.06	0,0,0,0	0
58	MG	CA	3041	1/1	0.99	0.10	0,0,0,0	0
58	MG	DA	3020	1/1	0.99	0.03	0,0,0,0	0
58	MG	BA	1607	1/1	0.99	0.09	1,1,1,1	0
58	MG	CA	3046	1/1	0.99	0.06	0,0,0,0	0
58	MG	DB	201	1/1	0.99	0.02	24,24,24,24	0
58	MG	DB	202	1/1	0.99	0.04	9,9,9,9	0
58	MG	DA	3026	1/1	0.99	0.03	0,0,0,0	0
58	MG	DL	201	1/1	0.99	0.03	10,10,10,10	0
58	MG	DA	3027	1/1	0.99	0.08	14,14,14,14	0
58	MG	AA	1624	1/1	1.00	0.02	10,10,10,10	0
58	MG	CA	3032	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3033	1/1	1.00	0.07	0,0,0,0	0
58	MG	CA	3034	1/1	1.00	0.12	0,0,0,0	0
58	MG	DA	3065	1/1	1.00	0.03	0,0,0,0	0
58	MG	BA	1604	1/1	1.00	0.06	13,13,13,13	0
58	MG	DA	3067	1/1	1.00	0.02	0,0,0,0	0
58	MG	DA	3068	1/1	1.00	0.02	6,6,6,6	0
58	MG	CA	3097	1/1	1.00	0.05	0,0,0,0	0
58	MG	BA	1617	1/1	1.00	0.06	13,13,13,13	0
58	MG	AA	1605	1/1	1.00	0.01	0,0,0,0	0
58	MG	DA	3072	1/1	1.00	0.02	0,0,0,0	0
58	MG	CA	3038	1/1	1.00	0.15	0,0,0,0	0
58	MG	DA	3074	1/1	1.00	0.08	0,0,0,0	0
58	MG	CA	3101	1/1	1.00	0.07	0,0,0,0	0
58	MG	CA	3102	1/1	1.00	0.10	0,0,0,0	0
58	MG	DA	3077	1/1	1.00	0.04	12,12,12,12	0
58	MG	BA	1619	1/1	1.00	0.02	0,0,0,0	0
58	MG	CA	3104	1/1	1.00	0.02	0,0,0,0	0
58	MG	CA	3003	1/1	1.00	0.02	0,0,0,0	0
58	MG	BA	1639	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3107	1/1	1.00	0.10	0,0,0,0	0
58	MG	CA	3042	1/1	1.00	0.07	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	CA	3043	1/1	1.00	0.02	0,0,0,0	0
58	MG	CA	3110	1/1	1.00	0.10	0,0,0,0	0
58	MG	DA	3086	1/1	1.00	0.09	0,0,0,0	0
58	MG	CA	3044	1/1	1.00	0.02	0,0,0,0	0
58	MG	CA	3005	1/1	1.00	0.01	14,14,14,14	0
58	MG	AA	1613	1/1	1.00	0.04	2,2,2,2	0
58	MG	BA	1621	1/1	1.00	0.03	12,12,12,12	0
58	MG	CA	3008	1/1	1.00	0.04	0,0,0,0	0
58	MG	CA	3049	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3050	1/1	1.00	0.05	0,0,0,0	0
58	MG	CA	3051	1/1	1.00	0.03	3,3,3,3	0
58	MG	CA	3119	1/1	1.00	0.04	8,8,8,8	0
58	MG	CA	3052	1/1	1.00	0.04	0,0,0,0	0
58	MG	AA	1633	1/1	1.00	0.06	3,3,3,3	0
58	MG	CB	203	1/1	1.00	0.04	5,5,5,5	0
58	MG	CA	3122	1/1	1.00	0.05	0,0,0,0	0
58	MG	CA	3123	1/1	1.00	0.09	0,0,0,0	0
58	MG	DA	3101	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3054	1/1	1.00	0.09	0,0,0,0	0
58	MG	CA	3125	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3055	1/1	1.00	0.06	6,6,6,6	0
58	MG	CA	3010	1/1	1.00	0.04	0,0,0,0	0
58	MG	DA	3106	1/1	1.00	0.11	0,0,0,0	0
58	MG	CA	3128	1/1	1.00	0.10	0,0,0,0	0
58	MG	CA	3057	1/1	1.00	0.05	0,0,0,0	0
58	MG	CA	3130	1/1	1.00	0.12	0,0,0,0	0
58	MG	DA	3008	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3131	1/1	1.00	0.08	0,0,0,0	0
58	MG	CA	3011	1/1	1.00	0.12	0,0,0,0	0
58	MG	DA	3113	1/1	1.00	0.06	0,0,0,0	0
58	MG	CA	3133	1/1	1.00	0.01	0,0,0,0	0
58	MG	CA	3012	1/1	1.00	0.11	0,0,0,0	0
58	MG	AA	1634	1/1	1.00	0.05	2,2,2,2	0
58	MG	DA	3117	1/1	1.00	0.02	5,5,5,5	0
58	MG	DA	3118	1/1	1.00	0.03	7,7,7,7	0
58	MG	BA	1624	1/1	1.00	0.02	1,1,1,1	0
58	MG	BA	1625	1/1	1.00	0.02	0,0,0,0	0
58	MG	CA	3016	1/1	1.00	0.06	0,0,0,0	0
58	MG	DA	3017	1/1	1.00	0.07	0,0,0,0	0
58	MG	CA	3064	1/1	1.00	0.13	0,0,0,0	0
58	MG	DA	3124	1/1	1.00	0.02	0,0,0,0	0
58	MG	DA	3125	1/1	1.00	0.03	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	DA	3019	1/1	1.00	0.03	0,0,0,0	0
58	MG	DA	3127	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3065	1/1	1.00	0.03	0,0,0,0	0
58	MG	DA	3129	1/1	1.00	0.04	0,0,0,0	0
58	MG	DA	3130	1/1	1.00	0.03	0,0,0,0	0
58	MG	DA	3021	1/1	1.00	0.03	3,3,3,3	0
58	MG	DA	3022	1/1	1.00	0.01	0,0,0,0	0
58	MG	CA	3066	1/1	1.00	0.13	0,0,0,0	0
58	MG	DA	3134	1/1	1.00	0.01	0,0,0,0	0
58	MG	DA	3024	1/1	1.00	0.01	0,0,0,0	0
58	MG	CA	3067	1/1	1.00	0.09	0,0,0,0	0
58	MG	CA	3068	1/1	1.00	0.07	0,0,0,0	0
58	MG	CA	3069	1/1	1.00	0.07	0,0,0,0	0
58	MG	AA	1609	1/1	1.00	0.05	0,0,0,0	0
58	MG	DA	3029	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3071	1/1	1.00	0.02	0,0,0,0	0
58	MG	DA	3031	1/1	1.00	0.04	0,0,0,0	0
58	MG	DA	3032	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3072	1/1	1.00	0.02	0,0,0,0	0
58	MG	CA	3073	1/1	1.00	0.06	0,0,0,0	0
58	MG	DA	3035	1/1	1.00	0.03	0,0,0,0	0
58	MG	CA	3018	1/1	1.00	0.12	0,0,0,0	0
58	MG	BA	1610	1/1	1.00	0.06	0,0,0,0	0
58	MG	CA	3020	1/1	1.00	0.04	0,0,0,0	0
58	MG	BA	1628	1/1	1.00	0.07	25,25,25,25	0
58	MG	CA	3078	1/1	1.00	0.05	0,0,0,0	0
58	MG	DA	3041	1/1	1.00	0.04	6,6,6,6	0
58	MG	DA	3042	1/1	1.00	0.02	5,5,5,5	0
58	MG	CA	3079	1/1	1.00	0.03	3,3,3,3	0
58	MG	CA	3022	1/1	1.00	0.07	0,0,0,0	0
58	MG	CA	3023	1/1	1.00	0.06	0,0,0,0	0
58	MG	AA	1628	1/1	1.00	0.04	1,1,1,1	0
58	MG	AA	1629	1/1	1.00	0.02	0,0,0,0	0
58	MG	DA	3048	1/1	1.00	0.03	0,0,0,0	0
58	MG	DA	3049	1/1	1.00	0.03	0,0,0,0	0
58	MG	BA	1613	1/1	1.00	0.07	0,0,0,0	0
58	MG	DA	3051	1/1	1.00	0.02	0,0,0,0	0
58	MG	DA	3052	1/1	1.00	0.01	0,0,0,0	0
58	MG	CA	3027	1/1	1.00	0.05	0,0,0,0	0
58	MG	BA	1632	1/1	1.00	0.05	18,18,18,18	0
58	MG	CA	3087	1/1	1.00	0.09	0,0,0,0	0
58	MG	CA	3088	1/1	1.00	0.05	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
58	MG	CA	3029	1/1	1.00	0.08	0,0,0,0	0
58	MG	DA	3058	1/1	1.00	0.02	6,6,6,6	0
58	MG	CA	3090	1/1	1.00	0.02	1,1,1,1	0
58	MG	AA	1638	1/1	1.00	0.07	12,12,12,12	0
59	ZN	C4	101	1/1	1.00	0.01	0,0,0,0	0
59	ZN	D4	101	1/1	1.00	0.02	41,41,41,41	0

6.5 Other polymers (i)

There are no such residues in this entry.