



# Full wwPDB X-ray Structure Validation Report ⓘ

Sep 14, 2023 – 10:45 AM EDT

PDB ID : 4V4Q  
Title : Crystal structure of the bacterial ribosome from Escherichia coli at 3.5 Å resolution.  
Authors : Schuwirth, B.S.; Borovinskaya, M.A.; Hau, C.W.; Zhang, W.; Vila-Sanjurjo, A.; Holton, J.M.; Cate, J.H.D.  
Deposited on : 2005-08-30  
Resolution : 3.46 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<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>.

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

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.13  
EDS : 2.35.1  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.35.1

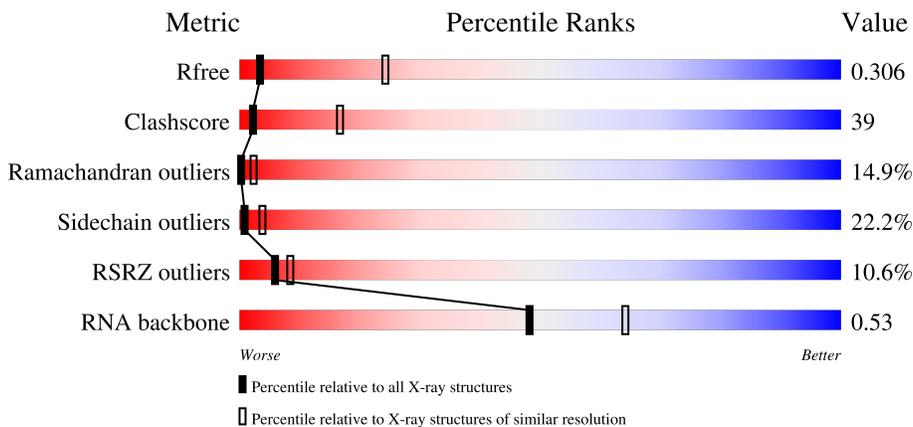
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.46 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.



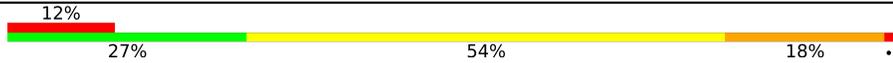
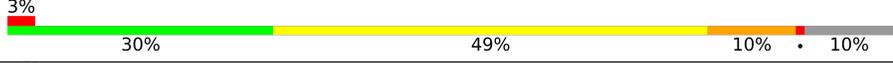
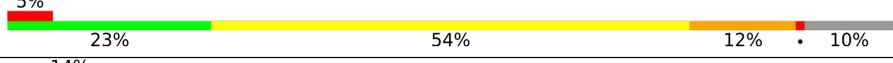
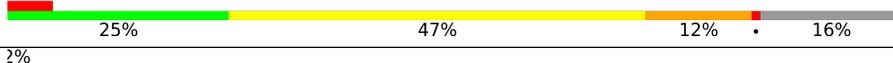
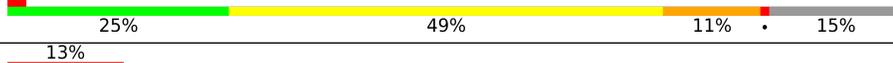
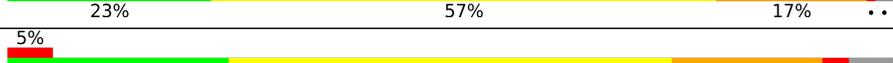
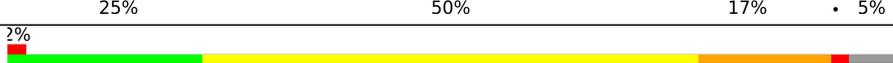
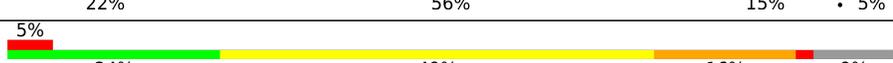
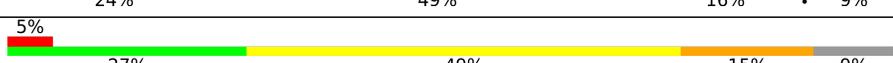
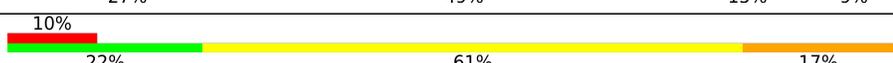
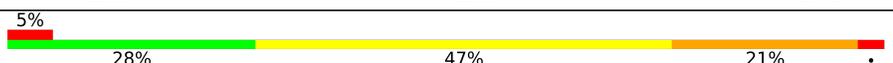
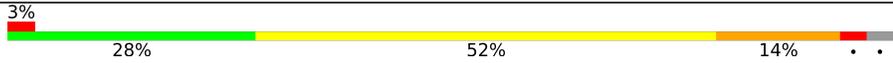
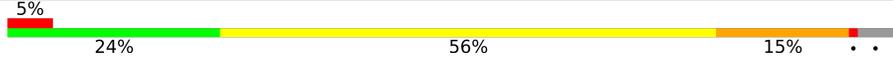
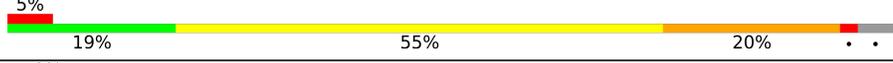
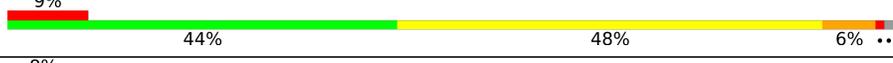
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1291 (3.52-3.40)
Clashscore	141614	1372 (3.52-3.40)
Ramachandran outliers	138981	1337 (3.52-3.40)
Sidechain outliers	138945	1338 (3.52-3.40)
RSRZ outliers	127900	1205 (3.52-3.40)
RNA backbone	3102	1036 (3.96-2.96)

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  $\geq 3$ , 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  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1542	 3% 25% 59% 14% .
1	CA	1542	 26% 60% 13% ..
2	AC	232	 3% 26% 49% 12% . 11%
2	CC	232	 3% 27% 50% 12% 11%

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Mol	Chain	Length	Quality of chain
3	AD	205	
3	CD	205	
4	AE	166	
4	CE	166	
5	AF	135	
5	CF	135	
6	AG	178	
6	CG	178	
7	AH	129	
7	CH	129	
8	AI	129	
8	CI	129	
9	AJ	103	
9	CJ	103	
10	AK	128	
10	CK	128	
11	AL	123	
11	CL	123	
12	AM	117	
12	CM	117	
13	AN	100	
13	CN	100	
14	AO	89	
14	CO	89	
15	AP	82	

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Mol	Chain	Length	Quality of chain
15	CP	82	5% 24% 60% 12% ..
16	AQ	83	28% 20% 58% 18% .
16	CQ	83	11% 22% 63% 13% .
17	AR	74	12% 24% 43% 7% 26%
17	CR	74	9% 34% 31% 9% 26%
18	AS	91	10% 25% 51% 9% . 13%
18	CS	91	5% 23% 43% 15% 7% 12%
19	AT	86	% 41% 48% 8% ..
19	CT	86	% 35% 45% 19% .
20	AB	240	16% 21% 50% 19% . 9%
20	CB	240	22% 24% 49% 17% . 9%
21	AU	71	7% 13% 28% 28% . 28%
21	CU	71	6% 15% 32% 20% . 28%
22	BA	120	2% 28% 56% 14% .
22	DA	120	2% 23% 62% 12% .
23	BB	2904	% 26% 59% 12% ..
23	DB	2904	% 26% 58% 12% ..
24	BV	94	14% 23% 60% 16% .
24	DV	94	7% 34% 55% 10% .
25	BC	273	19% 11% 44% 34% 8% .
25	DC	273	28% 13% 46% 32% 7% .
26	BD	209	44% 13% 51% 33% .
26	DD	209	22% 18% 48% 28% 6%
27	BE	201	30% 14% 53% 27% 5%
27	DE	201	20% 19% 47% 29% .

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Mol	Chain	Length	Quality of chain
28	BF	178	
28	DF	178	
29	BG	176	
29	DG	176	
30	BH	149	
30	DH	149	
31	BJ	142	
31	DJ	142	
32	BK	123	
32	DK	123	
33	BL	144	
33	DL	144	
34	BM	136	
34	DM	136	
35	BN	127	
35	DN	127	
36	BO	117	
36	DO	117	
37	BP	114	
37	DP	114	
38	BQ	117	
38	DQ	117	
39	BR	103	
39	DR	103	
40	BS	110	

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Mol	Chain	Length	Quality of chain
40	DS	110	9% 25% 51% 23%
41	BT	100	20% 17% 54% 22% 6%
41	DT	100	28% 15% 52% 27% 5%
42	BU	103	32% 17% 50% 27%
42	DU	103	14% 17% 50% 26% 6%
43	BW	84	37% 17% 44% 29% 11%
43	DW	84	35% 14% 54% 29%
44	BX	63	19% 22% 46% 32%
44	DX	63	29% 16% 65% 14% 5%
45	BY	58	22% 28% 48% 19% 5%
45	DY	58	12% 24% 53% 21%
46	BZ	70	9% 23% 41% 23% 13%
46	DZ	70	10% 19% 56% 21%
47	B0	56	38% 20% 48% 20% 12%
47	D0	56	21% 11% 62% 20% 7%
48	B1	54	39% 22% 39% 37%
48	D1	54	50% 22% 43% 35%
49	B2	46	15% 26% 43% 30%
49	D2	46	2% 28% 41% 22% 9%
50	B3	64	25% 25% 41% 33%
50	D3	64	22% 22% 50% 25%
51	B4	38	26% 21% 37% 39%
51	D4	38	32% 5% 45% 29% 21%
52	BI	141	62% 35% 61%
52	DI	141	31% 34% 59% 7%

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:

<b>Mol</b>	<b>Type</b>	<b>Chain</b>	<b>Res</b>	<b>Chirality</b>	<b>Geometry</b>	<b>Clashes</b>	<b>Electron density</b>
53	MG	AA	1636	-	-	-	X

## 2 Entry composition

There are 54 unique types of molecules in this entry. The entry contains 284107 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 ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1530	Total 32831	C 14642	N 6024	O 10635	P 1530	0	0	0
1	CA	1530	Total 32831	C 14642	N 6024	O 10635	P 1530	0	0	0

- Molecule 2 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AC	206	Total 1624	C 1028	N 305	O 288	S 3	0	0	0
2	CC	206	Total 1624	C 1028	N 305	O 288	S 3	0	0	0

- Molecule 3 is a protein called 30S ribosomal protein S4.

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

- Molecule 4 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	AE	150	Total 1105	C 687	N 211	O 201	S 6	0	0	0
4	CE	150	Total 1105	C 687	N 211	O 201	S 6	0	0	0

- Molecule 5 is a protein called 30S ribosomal protein S6.



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AF	100	Total	C	N	O	S	0	0	0
			817	515	148	148	6			
5	CF	100	Total	C	N	O	S	0	0	0
			817	515	148	148	6			

- Molecule 6 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AG	150	Total	C	N	O	S	0	0	0
			1174	730	226	214	4			
6	CG	152	Total	C	N	O	S	0	0	0
			1196	745	230	217	4			

- Molecule 7 is a protein called 30S ribosomal protein S8.

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

- Molecule 8 is a protein called 30S ribosomal protein S9.

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

- Molecule 9 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AJ	98	Total	C	N	O	S	0	0	0
			786	493	150	142	1			
9	CJ	98	Total	C	N	O	S	0	0	0
			786	493	150	142	1			

- Molecule 10 is a protein called 30S ribosomal protein S11.

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

- Molecule 11 is a protein called 30S ribosomal protein S12.

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

- Molecule 12 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	114	Total	C	N	O	S	0	0	0
			883	546	178	156	3			
12	CM	113	Total	C	N	O	S	0	0	0
			876	541	177	155	3			

- Molecule 13 is a protein called 30S ribosomal protein S14.

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

- Molecule 14 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AO	88	Total	C	N	O	S	0	0	0
			716	440	146	129	1			
14	CO	88	Total	C	N	O	S	0	0	0
			716	440	146	129	1			

- Molecule 15 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			
15	CP	80	Total	C	N	O	S	0	0	0
			638	400	126	111	1			

- Molecule 16 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AQ	80	Total	C	N	O	S	0	0	0
			648	411	121	113	3			
16	CQ	81	Total	C	N	O	S	0	0	0
			656	417	122	114	3			

- Molecule 17 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	AR	55	Total	C	N	O	0	0	0
			455	288	86	81			
17	CR	55	Total	C	N	O	0	0	0
			455	288	86	81			

- Molecule 18 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AS	79	Total	C	N	O	S	0	0	0
			637	408	120	107	2			
18	CS	80	Total	C	N	O	S	0	0	0
			644	413	121	108	2			

- Molecule 19 is a protein called 30S ribosomal protein S20.

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

- Molecule 20 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AB	218	Total	C	N	O	S	0	0	0
			1704	1081	305	311	7			
20	CB	218	Total	C	N	O	S	0	0	0
			1704	1081	305	311	7			

- 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
			425	265	86	73	1			
21	CU	51	Total	C	N	O	S	0	0	0
			425	265	86	73	1			

- Molecule 22 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	BA	117	Total	C	N	O	P	0	0	0
			2507	1116	459	815	117			
22	DA	117	Total	C	N	O	P	0	0	0
			2507	1116	459	815	117			

- Molecule 23 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	BB	2841	Total	C	N	O	P	0	0	0
			60995	27210	11229	19715	2841			
23	DB	2841	Total	C	N	O	P	0	0	0
			60995	27210	11229	19715	2841			

- Molecule 24 is a protein called 50S ribosomal protein L25.

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

- Molecule 25 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BC	267	Total	C	N	O	S	0	0	0
			2053	1271	416	359	7			
25	DC	267	Total	C	N	O	S	0	0	0
			2053	1271	416	359	7			

- Molecule 26 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

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

- Molecule 27 is a protein called 50S ribosomal protein L4.

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

- Molecule 28 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BF	178	Total	C	N	O	S	0	0	0
			1420	905	251	258	6			
28	DF	178	Total	C	N	O	S	0	0	0
			1420	905	251	258	6			

- Molecule 29 is a protein called 50S ribosomal protein L6.

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

- Molecule 30 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			
30	DH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			

- Molecule 31 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BJ	140	Total	C	N	O	S	0	0	0
			1112	704	210	194	4			
31	DJ	140	Total	C	N	O	S	0	0	0
			1112	704	210	194	4			

- Molecule 32 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
32	BK	121	Total 930	C 582	N 179	O 164	S 5	0	0	0
32	DK	121	Total 930	C 582	N 179	O 164	S 5	0	0	0

- Molecule 33 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
33	BL	144	Total 1053	C 654	N 207	O 190	S 2	0	0	0
33	DL	144	Total 1053	C 654	N 207	O 190	S 2	0	0	0

- Molecule 34 is a protein called 50S ribosomal protein L16.

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

- Molecule 35 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
35	BN	127	Total 1008	C 621	N 204	O 178	S 5	0	0	0
35	DN	127	Total 1008	C 621	N 204	O 178	S 5	0	0	0

- Molecule 36 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
36	BO	117	Total 900	C 557	N 179	O 163	S 1	0	0	0
36	DO	117	Total 900	C 557	N 179	O 163	S 1	0	0	0

- Molecule 37 is a protein called 50S ribosomal protein L19.

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

- Molecule 38 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BQ	117	Total	C	N	O	S	0	0	0
			947	604	192	151				
38	DQ	117	Total	C	N	O	S	0	0	0
			947	604	192	151				

- Molecule 39 is a protein called 50S ribosomal protein L21.

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

- Molecule 40 is a protein called 50S ribosomal protein L22.

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

- Molecule 41 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BT	99	Total	C	N	O	S	0	0	0
			777	491	145	139	2			
41	DT	99	Total	C	N	O	S	0	0	0
			777	491	145	139	2			

- Molecule 42 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	BU	102	Total	C	N	O	0	0	0
			779	492	146	141			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
42	DU	102	779	492	146	141	0	0	0

- Molecule 43 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
43	BW	84	634	391	129	113	1	0	0	0
43	DW	84	634	391	129	113	1	0	0	0

- Molecule 44 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
44	BX	63	509	313	99	95	2	0	0	0
44	DX	63	509	313	99	95	2	0	0	0

- Molecule 45 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
45	BY	58	449	281	87	79	2	0	0	0
45	DY	58	449	281	87	79	2	0	0	0

- Molecule 46 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
46	BZ	70	549	339	104	100	6	0	0	0
46	DZ	70	549	339	104	100	6	0	0	0

- Molecule 47 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
47	B0	56	444	269	94	80	1	0	0	0
47	D0	56	444	269	94	80	1	0	0	0



- Molecule 48 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
48	B1	54	Total	C	N	O	0	0	0
			441	284	81	76			
48	D1	54	Total	C	N	O	0	0	0
			441	284	81	76			

- Molecule 49 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
49	B2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			
49	D2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
50	B3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			
50	D3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			

- Molecule 51 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	B4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			
51	D4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			

- Molecule 52 is a protein called 50S ribosomal protein L11.

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

- Molecule 53 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	AA	59	Total Mg 59 59	0	0
53	AP	1	Total Mg 1 1	0	0
53	BB	110	Total Mg 110 110	0	0
53	CA	62	Total Mg 62 62	0	0
53	DB	110	Total Mg 110 110	0	0
53	DN	1	Total Mg 1 1	0	0

- Molecule 54 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	AA	290	Total O 290 290	0	0
54	AE	3	Total O 3 3	0	0
54	AK	2	Total O 2 2	0	0
54	AN	4	Total O 4 4	0	0
54	AP	1	Total O 1 1	0	0
54	BB	497	Total O 497 497	0	0
54	BC	1	Total O 1 1	0	0
54	BE	5	Total O 5 5	0	0
54	BH	1	Total O 1 1	0	0
54	BL	2	Total O 2 2	0	0
54	BN	1	Total O 1 1	0	0
54	CA	295	Total O 295 295	0	0
54	CE	3	Total O 3 3	0	0
54	CK	1	Total O 1 1	0	0

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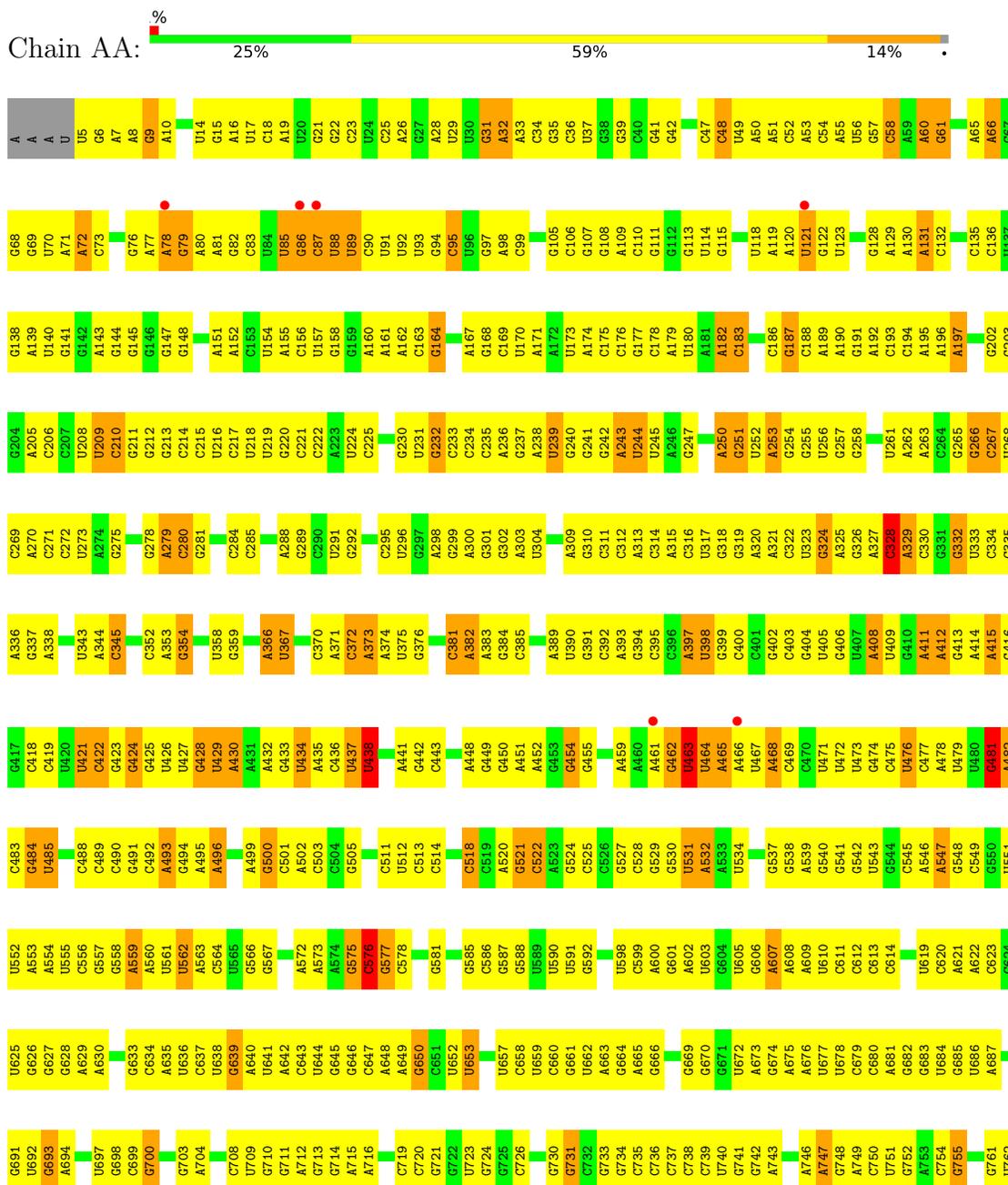
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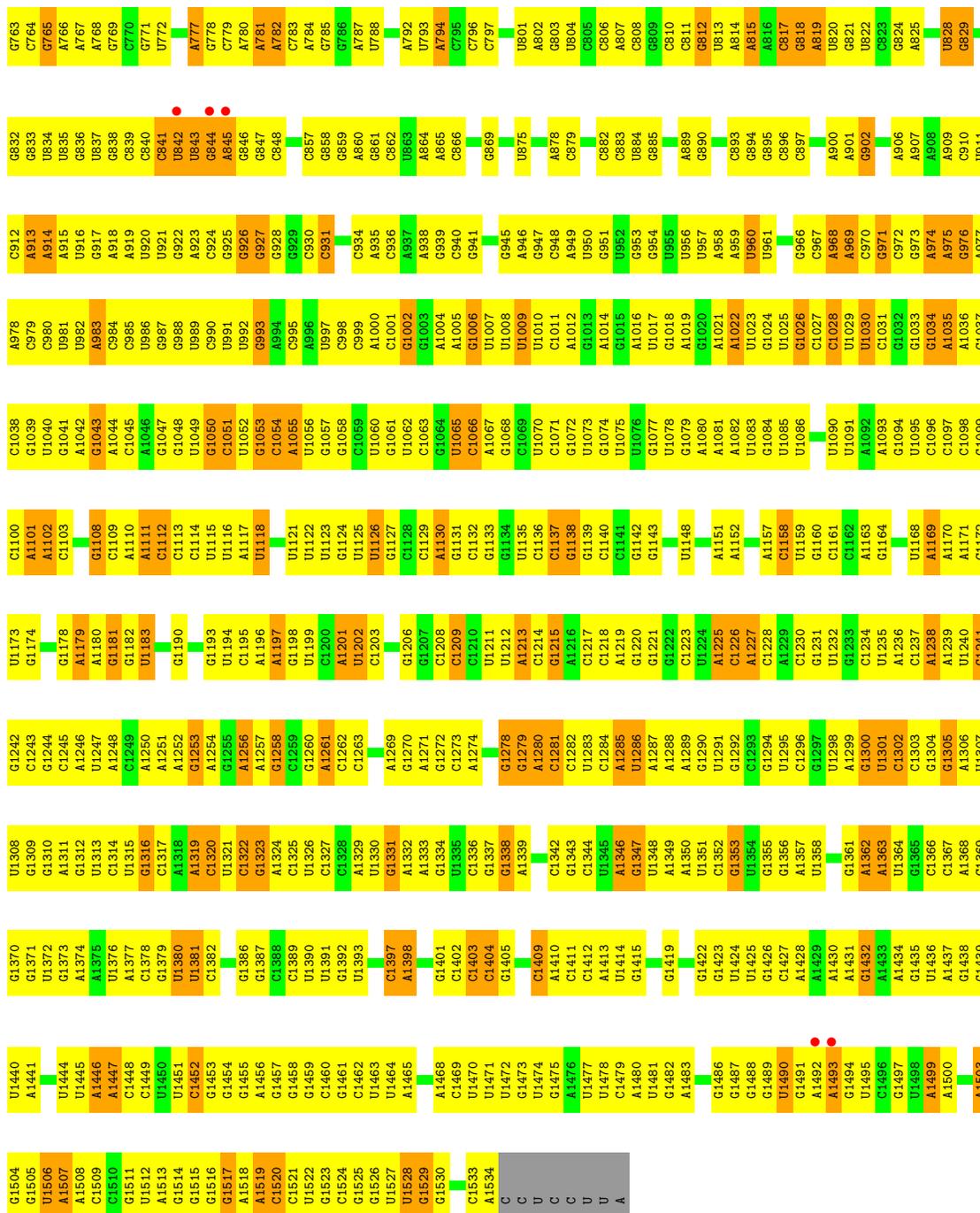
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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54	CN	2	Total O 2 2	0	0
54	CP	1	Total O 1 1	0	0
54	CT	2	Total O 2 2	0	0
54	DB	499	Total O 499 499	0	0
54	DC	1	Total O 1 1	0	0
54	DD	1	Total O 1 1	0	0
54	DE	3	Total O 3 3	0	0
54	DJ	2	Total O 2 2	0	0
54	DL	1	Total O 1 1	0	0
54	DN	2	Total O 2 2	0	0
54	DQ	1	Total O 1 1	0	0
54	D2	2	Total O 2 2	0	0

### 3 Residue-property plots

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.

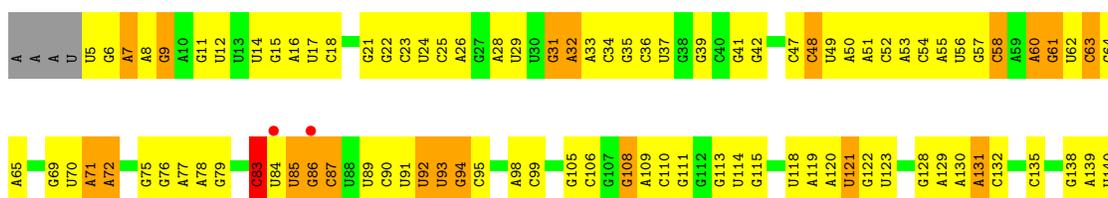
- Molecule 1: 16S ribosomal RNA



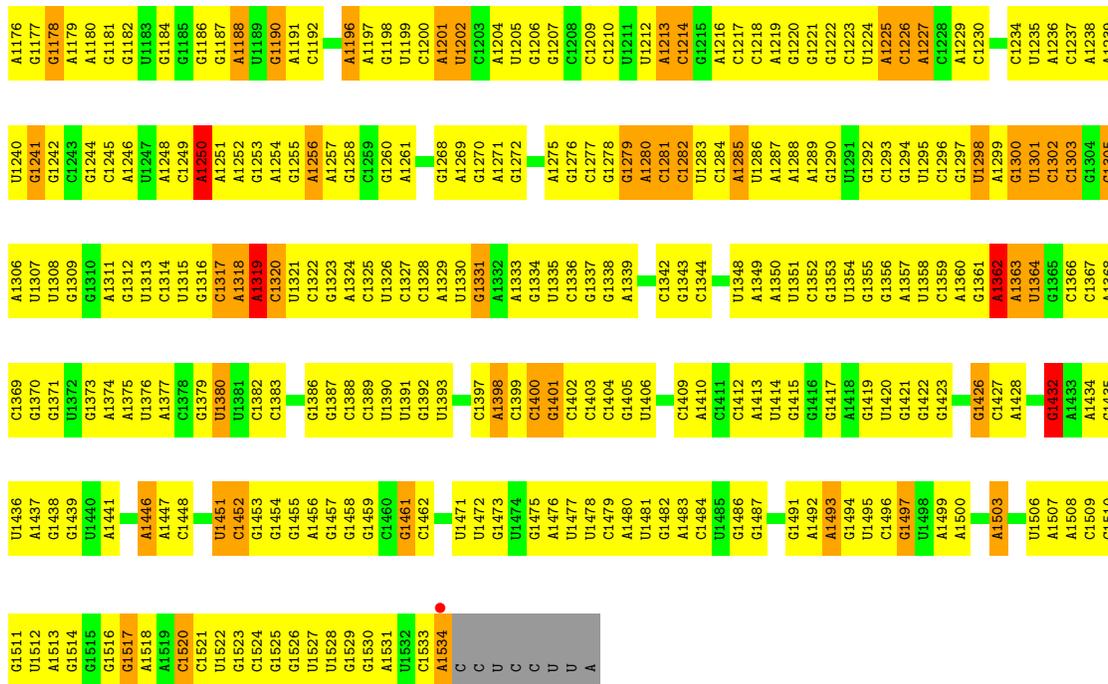


● Molecule 1: 16S ribosomal RNA

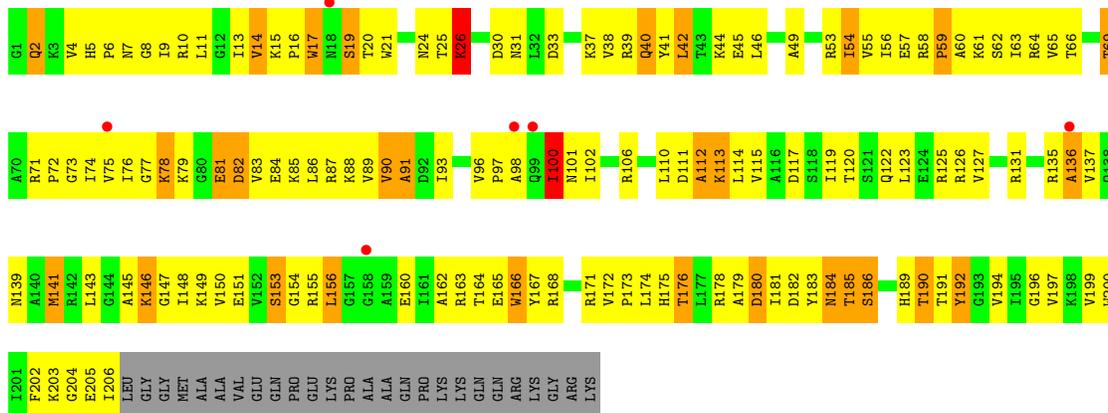
Chain CA: 26% 60% 13% ..



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U208	U209	C210	G211	G212	G213	C214	C215	U216	C217	U218	U219	G220	C221	C222	A223	U224	C225	G230	U231	G232	C233	G301	C234	C235	A236	G237	A238	U239	G310	C311	G241	G242	A243	U244	U245	A246	G247	A250	G251	C252	A253	G254	C255	C188	U256	G258	U261	A262	A263	G264	G265	G266	G267	U268	C269	A270	U271	C272		
U273	A274	G275	G276	C277	G278	A279	C280	G281	C284	C285	G288	G289	C295	A300	G301	G302	A303	U304	A309	A328	C311	C312	A313	C314	A315	A316	U317	U318	C319	A320	A321	C322	U323	G324	A325	G326	A327	C328	G191	A329	C330	G331	G332	U333	C334	C335	G336	A337	A338	U343	A344									
C345	C352	G353	G354	U355	U356	G359	G360	A366	U367	C370	A371	C372	A373	A374	U375	G376	G377	C381	A382	A383	G384	C385	A386	A387	C388	C389	G390	G391	C392	A393	G394	C395	G396	A397	U398	C399	C400	G401	G402	C403	G404	U405	U406	U407	A408	U409	G410	A411	A412	G413	A414	A415	G416	C418						
C419	U420	U421	C422	G423	G424	G425	U426	U427	U428	U429	A430	A431	A432	G433	U434	A435	A436	U437	U438	C440	A441	G442	C443	A448	G449	G450	A451	A452	G453	G454	G455	A456	A459	A460	A461	G462	U463	U464	C470	U471	U472	U473	G474	C475	U476	C477	C478	U479	U480	G481	A482									
C483	G484	U485	C488	G489	C490	G491	C492	G493	A494	A495	A496	A499	G500	C501	A502	C436	C503	G504	G505	C511	U512	C513	C514	C518	G521	U591	G522	A523	G524	C525	C526	G527	C528	G529	U530	U531	A532	A533	U534	G537	U538	A539	C611	G541	U542	U543	G544	C545	A546	A547	G621	A622	G691	U625	G626	U552				
A553	A554	U555	C556	G557	G558	A559	A560	U561	U562	A563	G566	G567	G568	A572	C501	A573	A574	G575	G576	C577	C578	G585	C586	G587	U590	U591	G592	A596	G597	U598	C599	A600	G601	A602	U603	G604	U605	A606	A607	A608	A609	U610	C611	G612	C613	C614	U619	C620	A621	A622	G691	U625	G626	U552						
G628	A629	A630	G633	G634	A635	U636	G637	U638	A639	A640	A642	C643	U644	G645	C646	G647	A648	A649	G650	C651	U652	U653	C658	U659	G661	U662	A663	G664	A665	G666	G667	G668	G669	G670	G671	U672	A673	G674	A675	A676	U677	C678	C679	G682	G683	U684	G685	U686	A687	G688	G691	U625	G626	A694						
A695	A696	C697	G703	A704	G705	A706	U707	U708	U709	G710	G711	A712	G713	A714	A715	A716	C719	U720	G721	G722	G724	G725	C726	G730	U731	U732	C733	G734	C735	U736	C737	C738	C739	U740	G741	A742	A743	A744	A745	A746	A747	U748	A749	U750	U751	U752	A753	C754	G755	G761	U762	G763	U764	G765	A766					
A767	A768	G769	U770	U771	U772	U773	G774	U775	A776	A777	C778	A779	G780	A781	C782	A783	A784	G785	U792	U793	A794	C795	U796	C797	U798	U801	A802	G803	U804	C805	U806	A807	C808	G809	C810	C811	G812	U813	A814	A815	G816	C817	G818	A819	U820	G821	G824	A825	U828	G829	G830	A831	G832	G833	U834	U835	U836	U837		
G838	C839	C840	C841	U842	U843	U844	U845	U846	G847	G848	C857	G858	A859	G860	C861	G862	U863	A864	A865	C866	G869	U875	A878	C879	U880	C881	U882	C883	C884	U885	G886	G887	G888	G889	C890	U891	U892	G893	U894	U895	U896	U897	C898	A901	U902	G903	U904	U905	A906	U907	U908	C909	U910	C911	A912	U913	U914	U915	U916	G917
A918	A919	U920	U921	G922	A923	G924	G925	G926	G927	G928	U929	C930	C931	C932	G933	A934	C935	U936	U937	A938	G939	C940	G941	G945	A946	G947	U948	A949	U950	G951	U952	G953	U954	U955	U956	U957	A958	U959	U960	G961	C962	G963	A964	U965	G966	G967	U968	U969	C970	G971	U972	C973	A974	U975	G976	A977	U978	U979		
C980	U981	U982	A983	C984	C985	U986	G987	G988	U989	C990	U991	U992	G993	A994	U997	C998	C999	A1000	C1001	G1002	C1003	A1004	A1005	G1006	U1007	U1008	U1009	U1010	C1011	A1012	G1013	U1014	G1015	A1016	U1019	G1020	A1021	U1022	U1023	G1024	U1025	G1026	C1027	C1028	U1029	U1030	U1031	G1032	G1033	G1034	A1035	U1036	C1037	C1038	U1039	U1040	G1041			
A1042	G1043	A1044	U1045	G1046	G1047	G1048	G1049	U1050	U1051	G1052	C1053	C1054	A1055	U1056	G1057	G1058	C1059	U1060	G1061	U1062	C1063	G1064	U1065	C1066	A1067	U1068	C1069	C1070	U1071	U1072	U1073	C1074	U1075	U1078	U1079	A1080	A1081	A1082	U1083	C1084	U1085	U1086	U1091	A1092	U1093	G1094	U1095	C1096	C1097	U1098	U1099	C1100	A1101	A1102	C1103	G1104	A1105	U1106	C1107	
G1108	A1111	C1112	C1113	C1114	U1115	C1116	C1117	C1118	C1119	C1120	U1121	U1122	U1123	G1124	U1125	U1126	G1127	C1128	C1129	A1130	G1131	C1132	C1133	G1134	U1135	C1136	C1137	G1138	C1139	C1140	C1141	G1142	G1143	G1144	A1145	A1146	C1147	U1148	C1149	A1150	A1151	A1152	A1157	C1158	U1159	G1160	C1161	C1162	A1163	G1164	U1165	C1166	A1170	A1171	C1172	U1173	G1174	G1175		

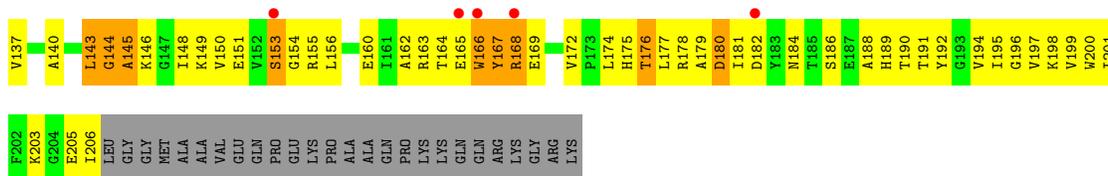


• Molecule 2: 30S ribosomal protein S3

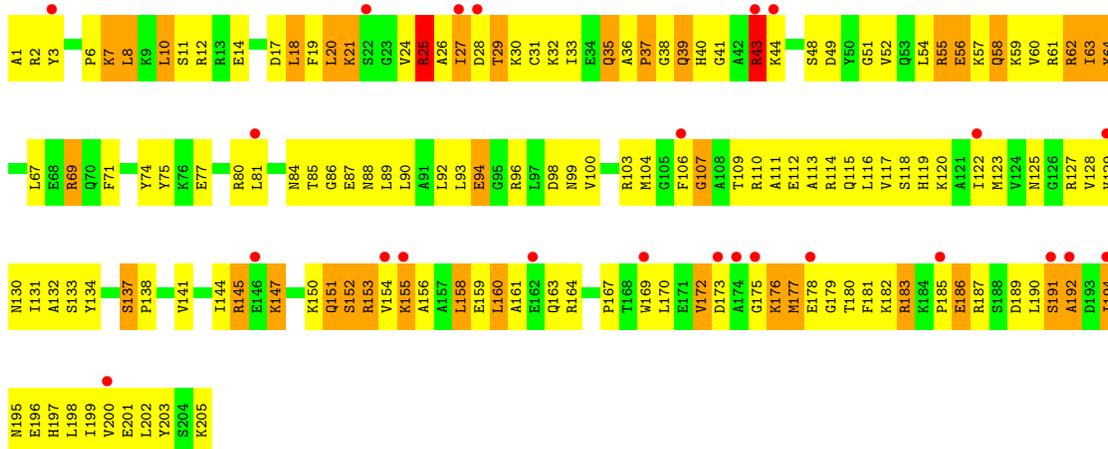


• Molecule 2: 30S ribosomal protein S3

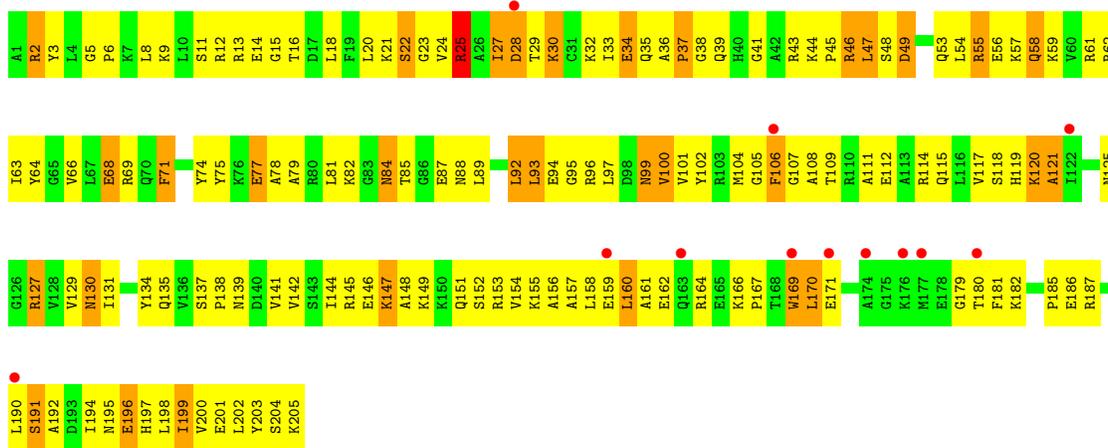




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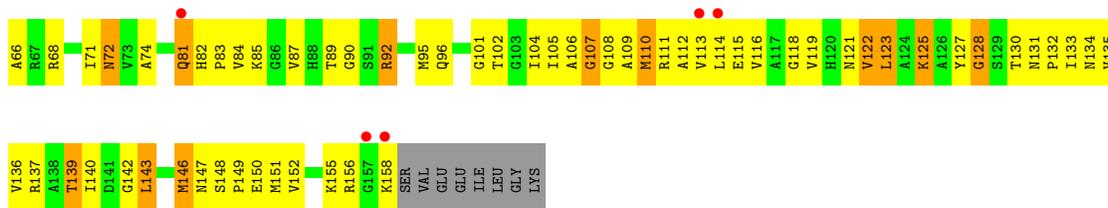
• Molecule 3: 30S ribosomal protein S4



• Molecule 4: 30S ribosomal protein S5



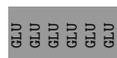
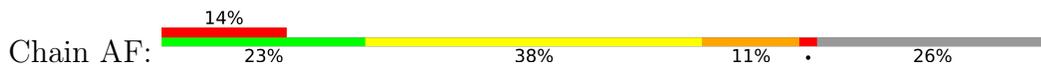




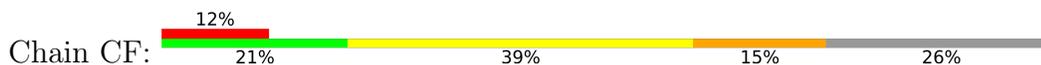
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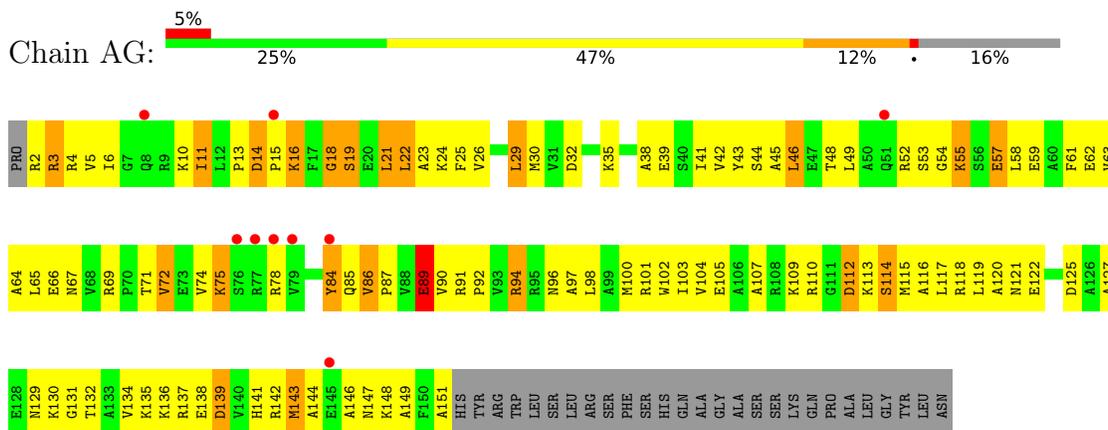
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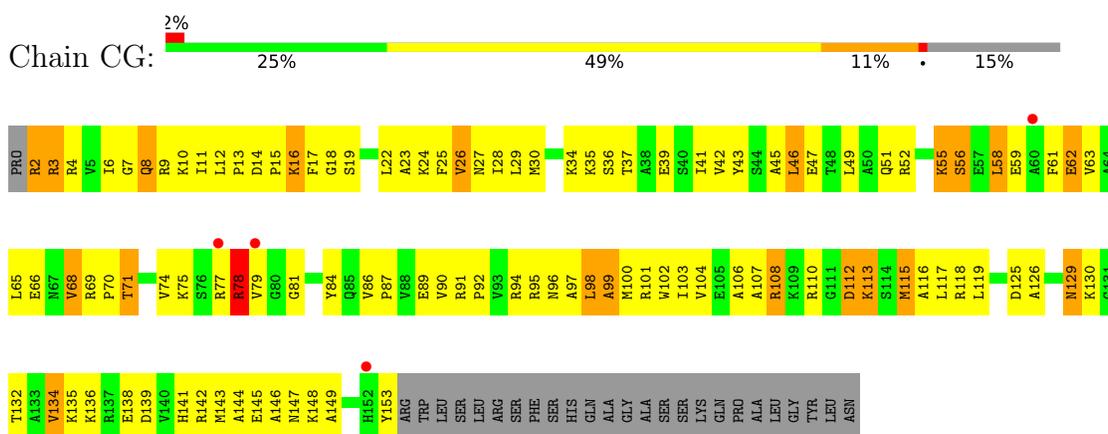
• Molecule 5: 30S ribosomal protein S6



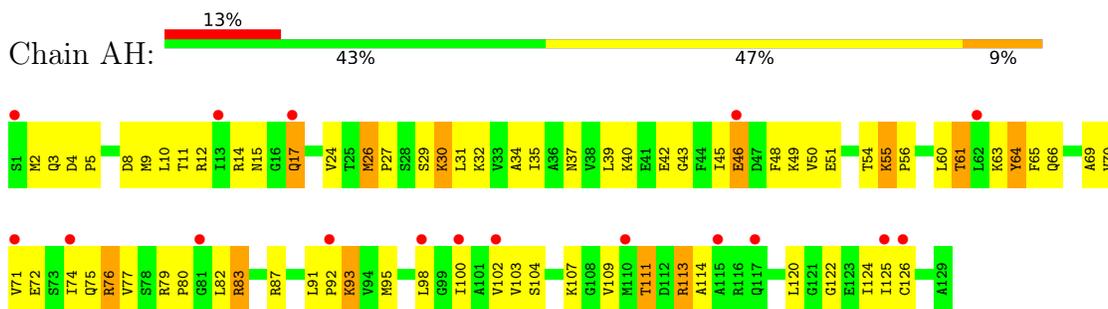
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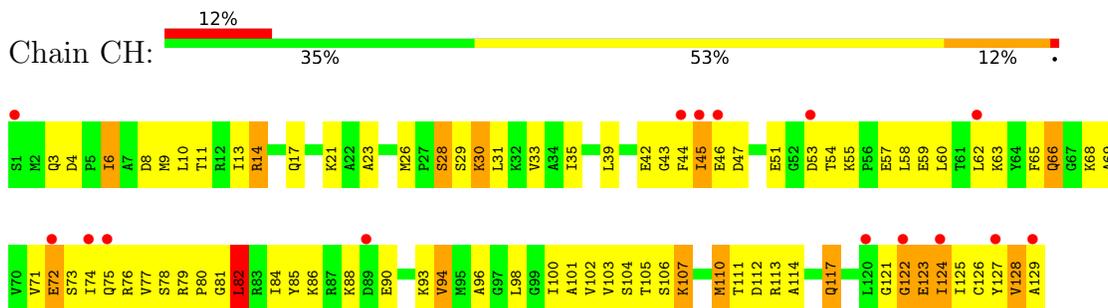
- Molecule 6: 30S ribosomal protein S7



- Molecule 7: 30S ribosomal protein S8

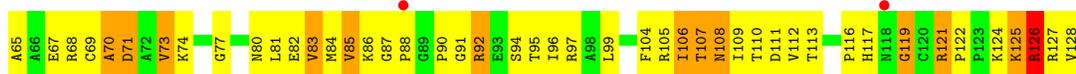


- Molecule 7: 30S ribosomal protein S8



- Molecule 8: 30S ribosomal protein S9





- Molecule 10: 30S ribosomal protein S11



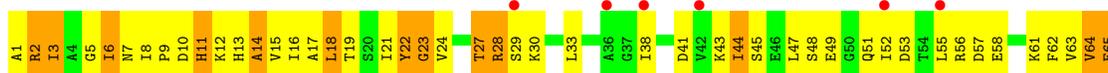
- Molecule 11: 30S ribosomal protein S12



- Molecule 11: 30S ribosomal protein S12



- Molecule 12: 30S ribosomal protein S13

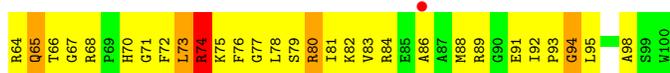
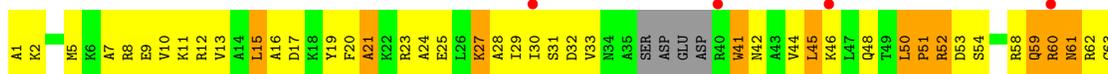


- Molecule 12: 30S ribosomal protein S13





• Molecule 13: 30S ribosomal protein S14



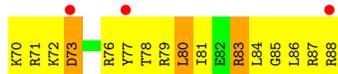
• Molecule 13: 30S ribosomal protein S14



• Molecule 14: 30S ribosomal protein S15



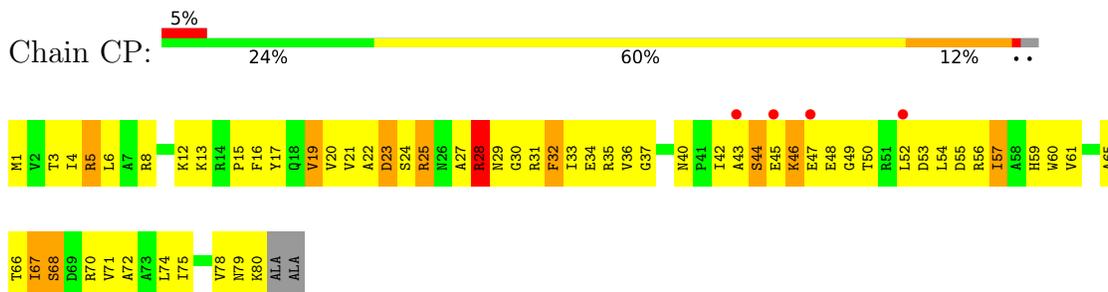
• Molecule 14: 30S ribosomal protein S15



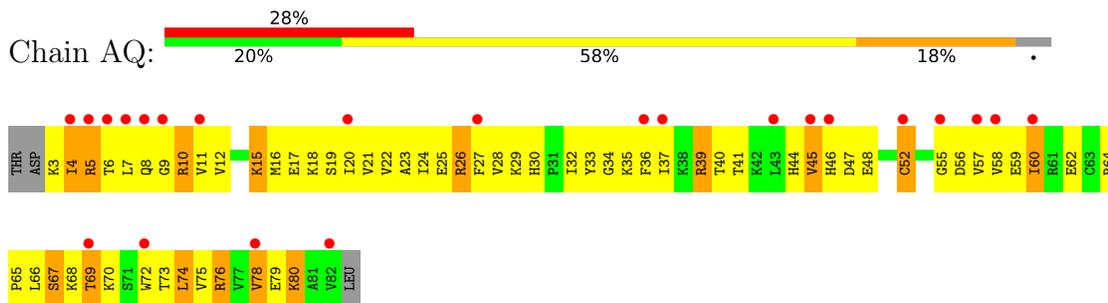
- Molecule 15: 30S ribosomal protein S16



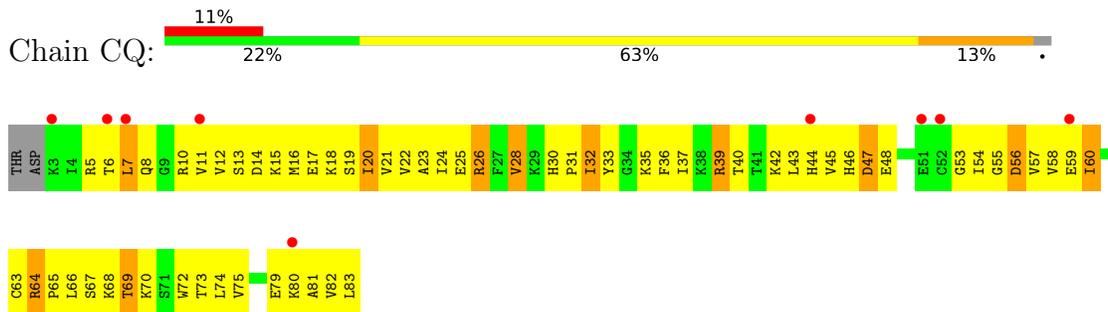
- Molecule 15: 30S ribosomal protein S16



- Molecule 16: 30S ribosomal protein S17

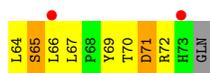


- Molecule 16: 30S ribosomal protein S17



- Molecule 17: 30S ribosomal protein S18





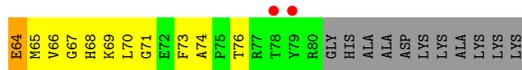
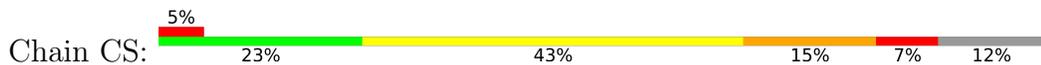
- Molecule 17: 30S ribosomal protein S18



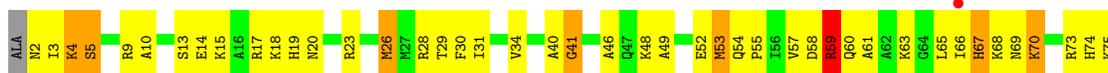
- Molecule 18: 30S ribosomal protein S19



- Molecule 18: 30S ribosomal protein S19



- Molecule 19: 30S ribosomal protein S20



- Molecule 19: 30S ribosomal protein S20

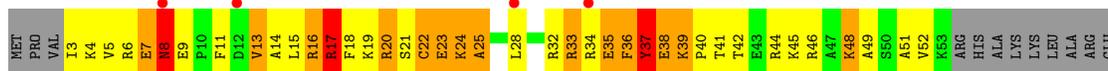






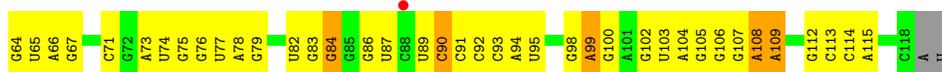
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ARG  
THR  
ARG  
LEU  
LEU  
TYR

• Molecule 21: 30S ribosomal protein S21

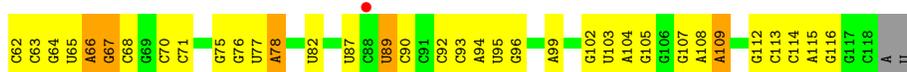
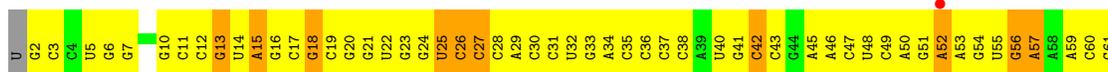


ASN  
ALA  
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ARG  
THR  
ARG  
LEU  
LEU  
TYR

• Molecule 22: 5S ribosomal RNA



• Molecule 22: 5S ribosomal RNA



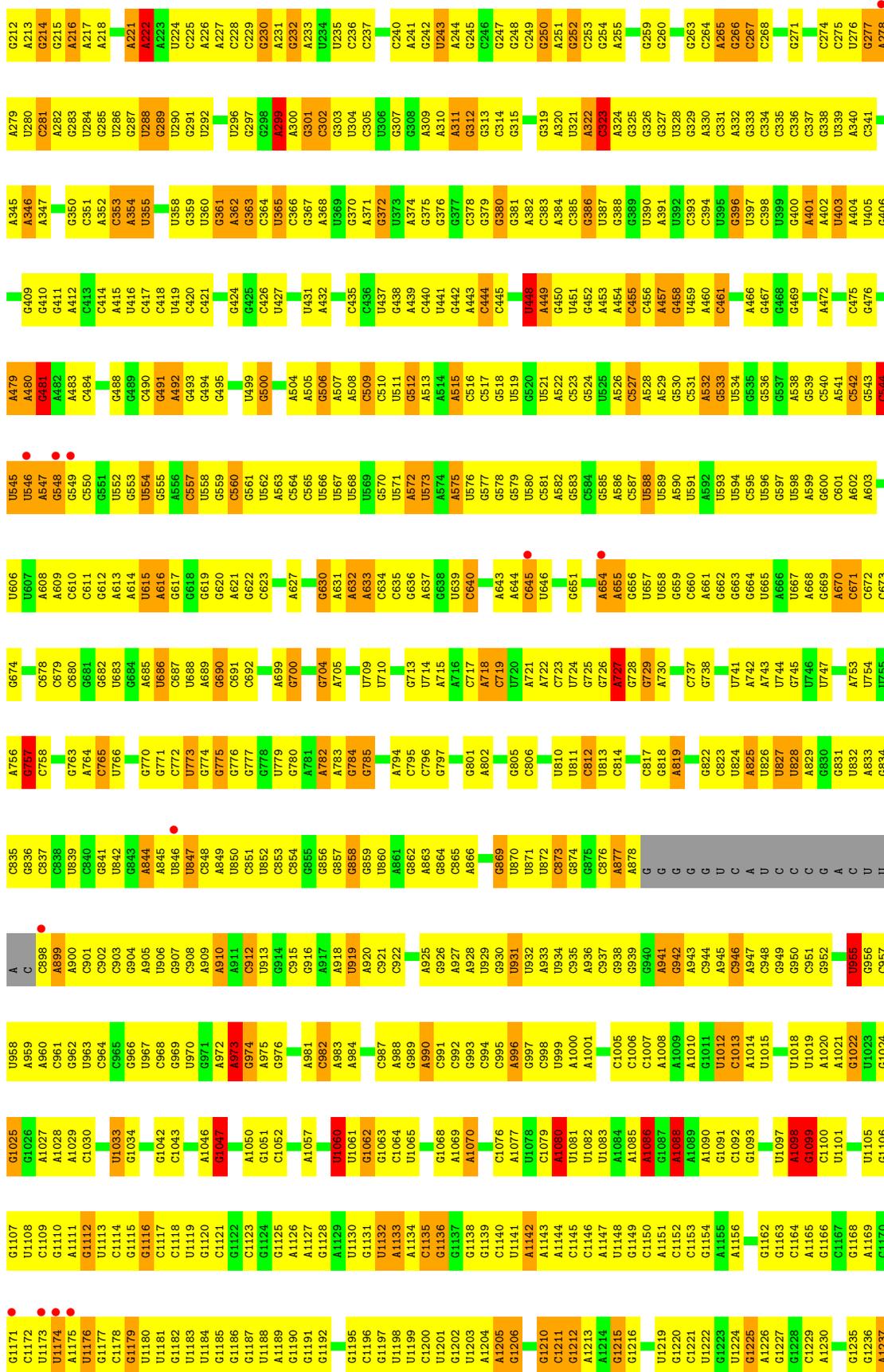
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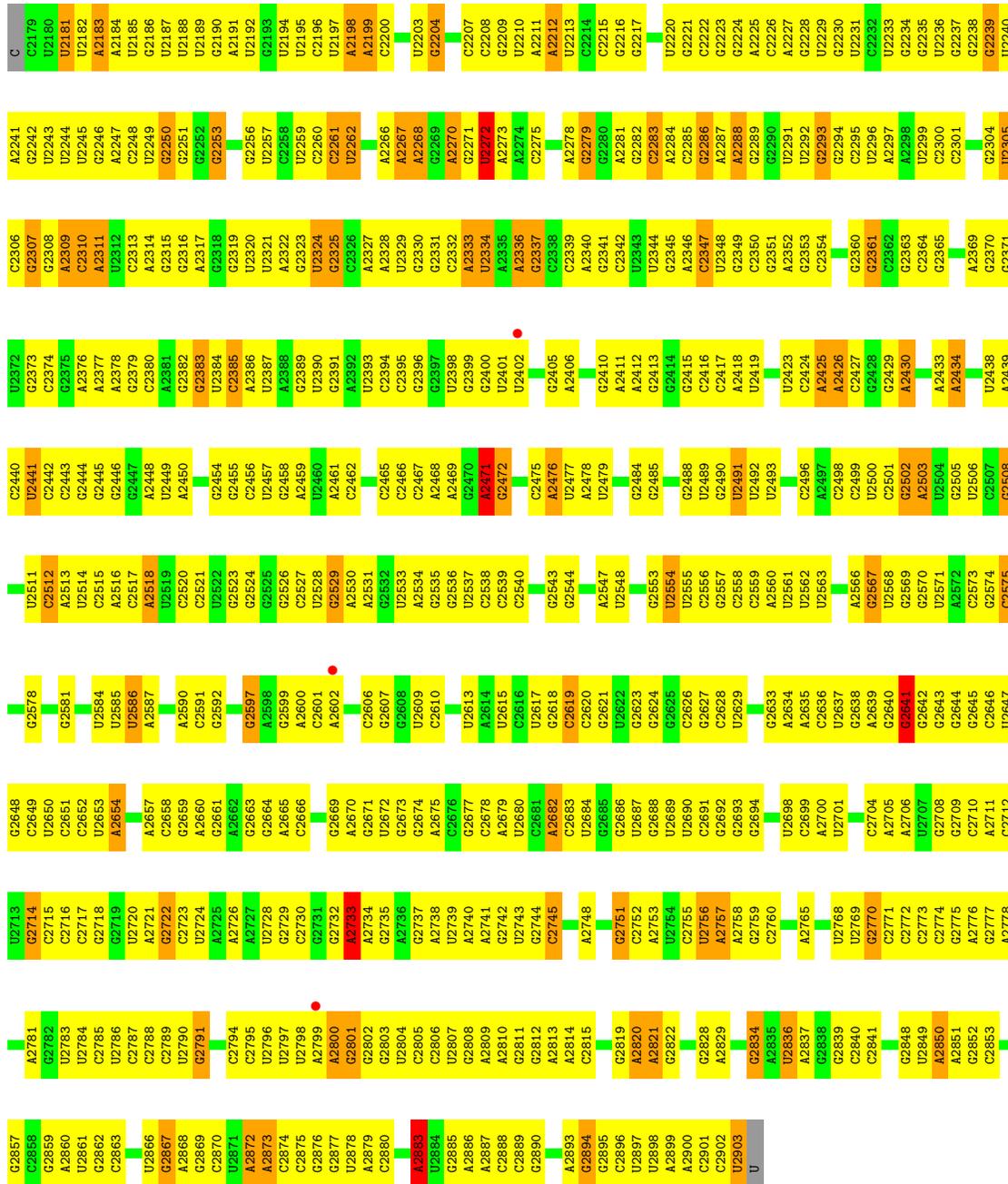
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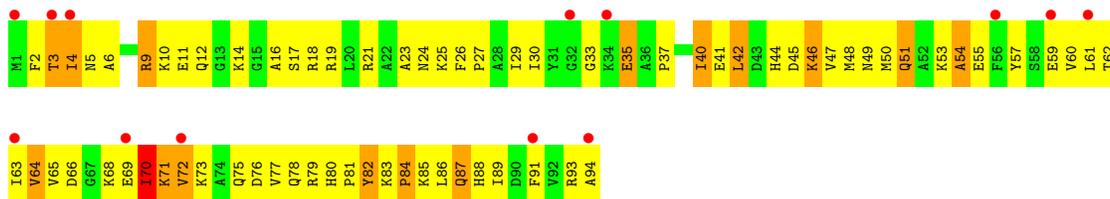




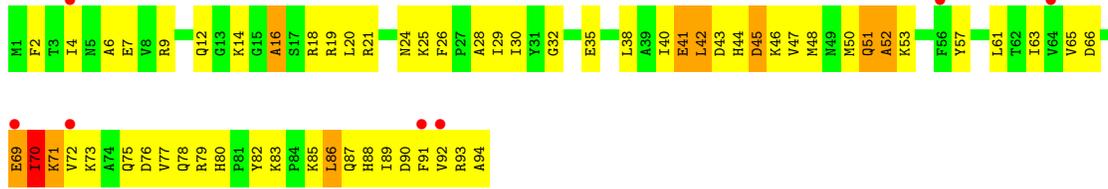
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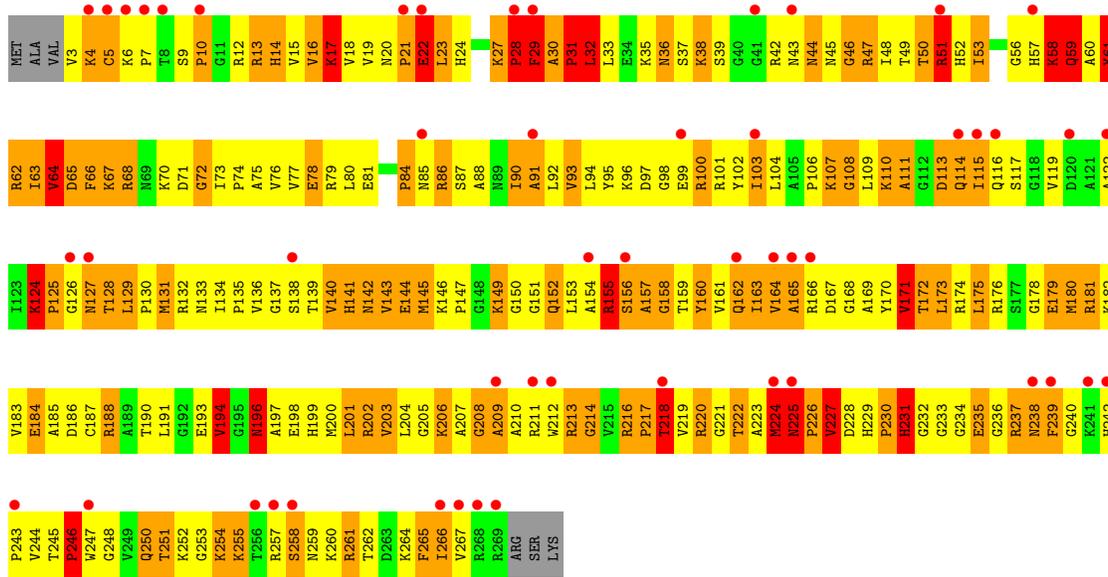
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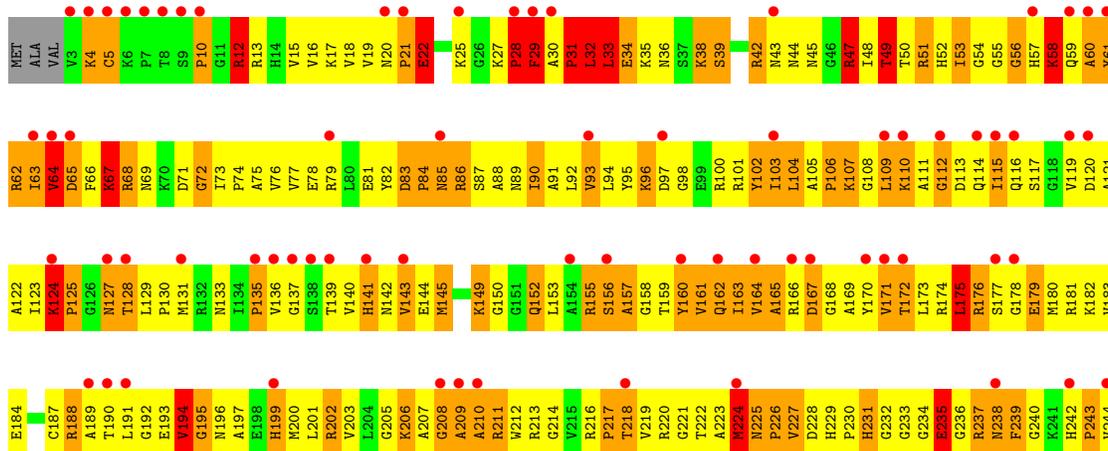
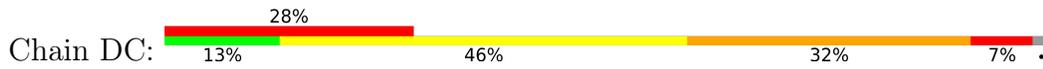
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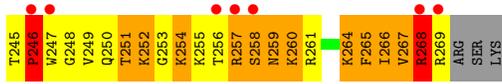
• Molecule 25: 50S ribosomal protein L2



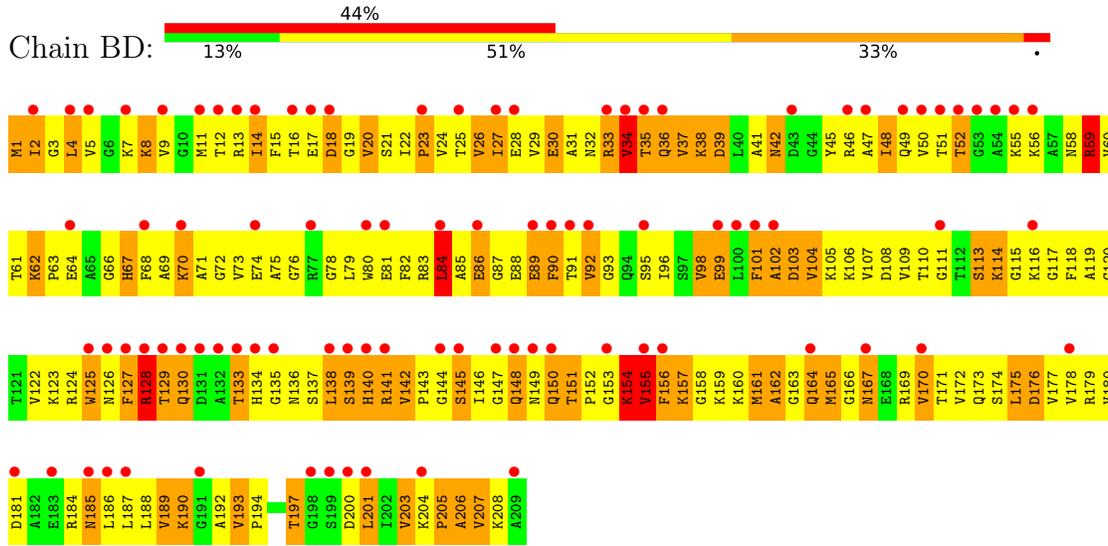
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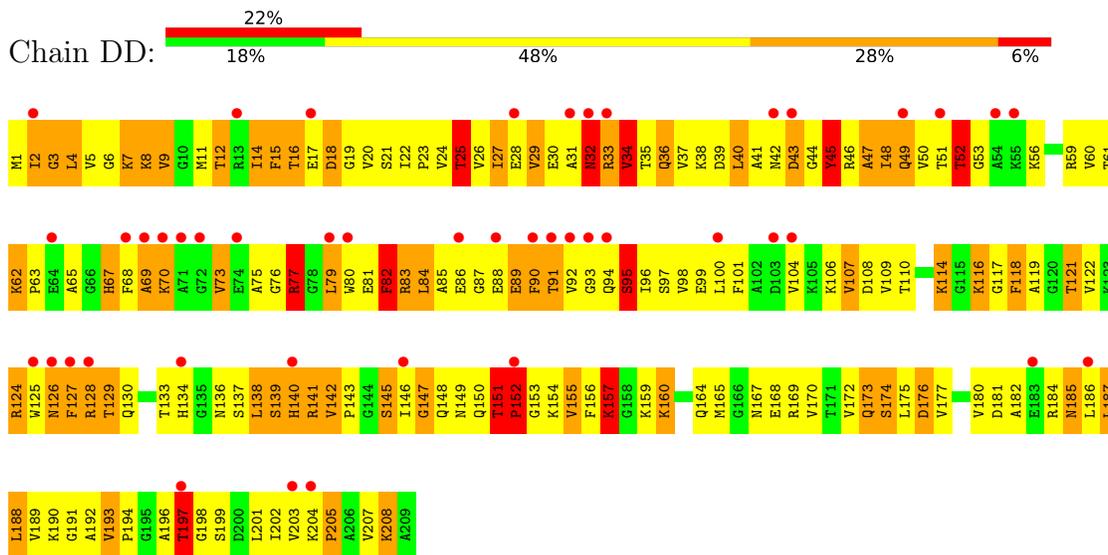




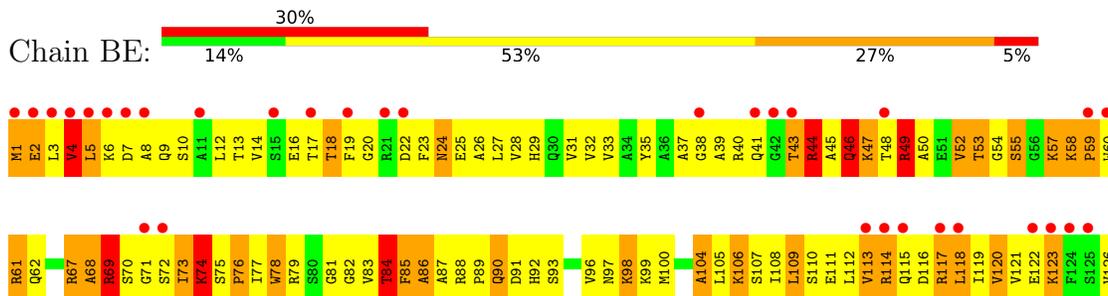
- Molecule 26: 50S ribosomal protein L3

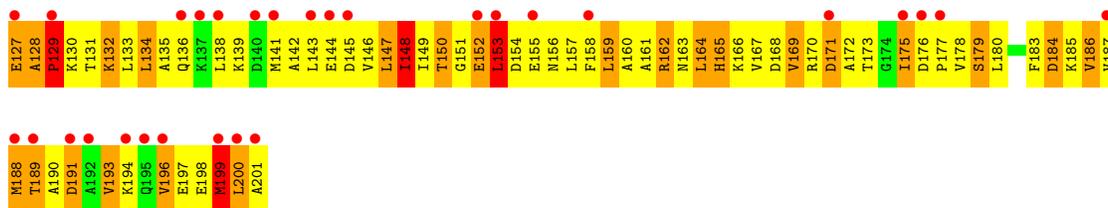


- Molecule 26: 50S ribosomal protein L3

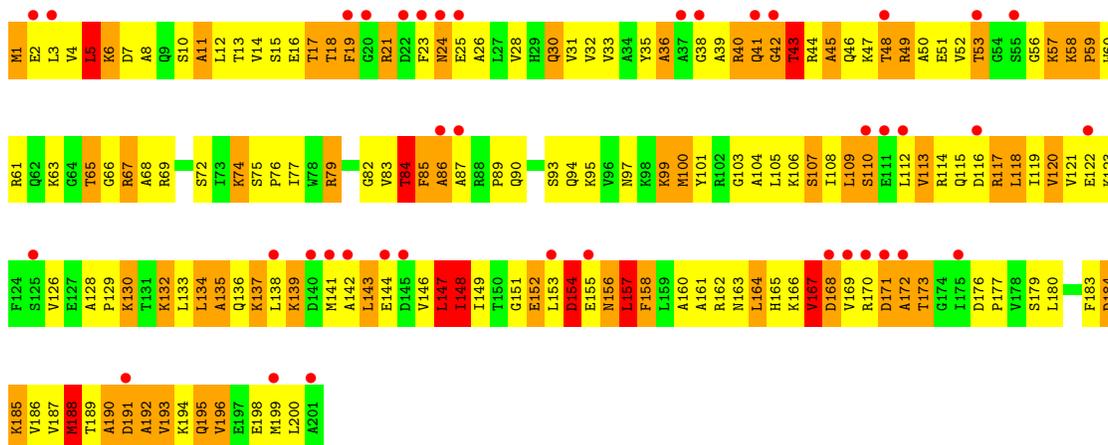
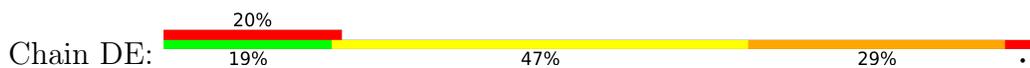


- Molecule 27: 50S ribosomal protein L4

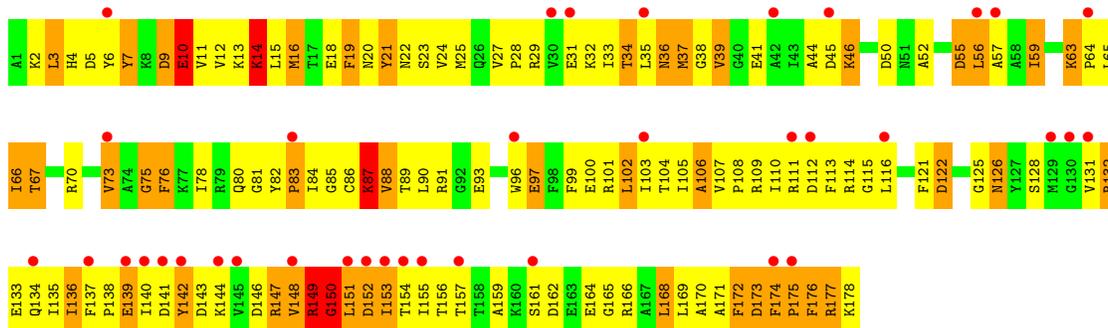




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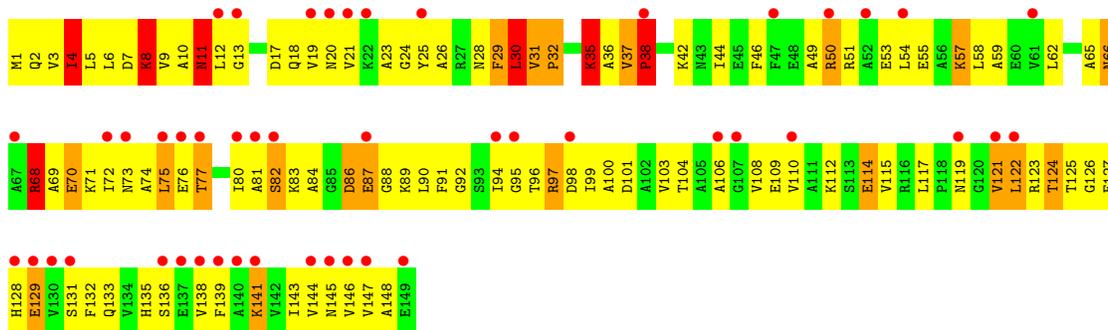
• Molecule 28: 50S ribosomal protein L5



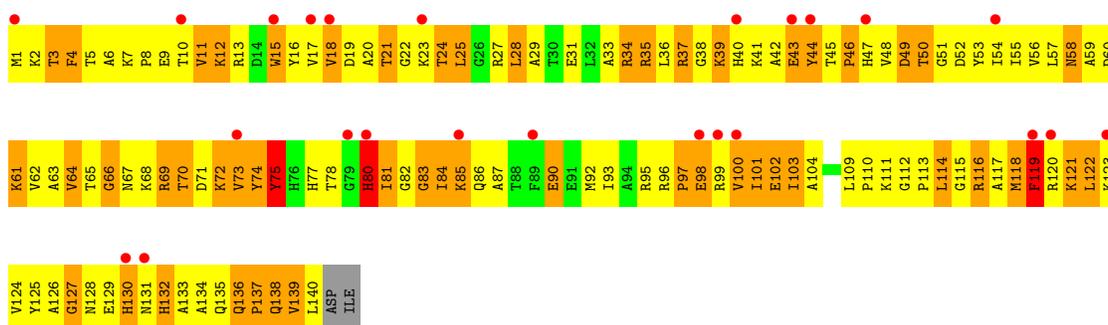
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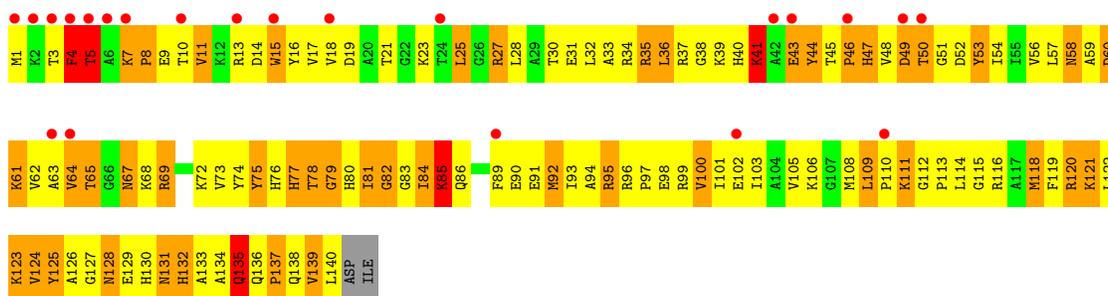
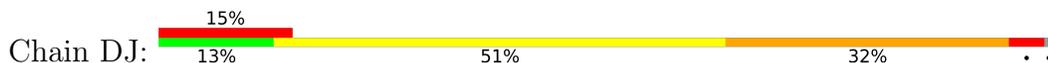




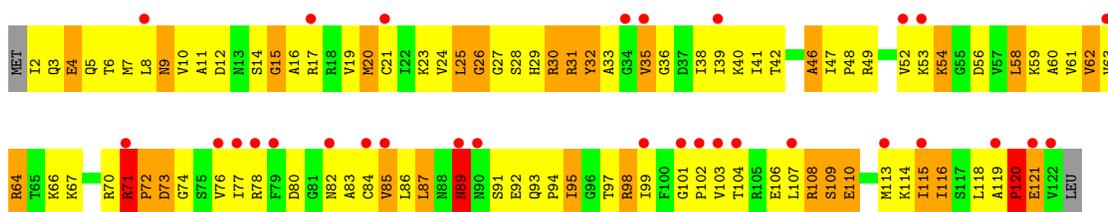
• Molecule 31: 50S ribosomal protein L13



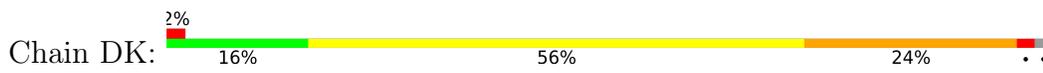
• Molecule 31: 50S ribosomal protein L13



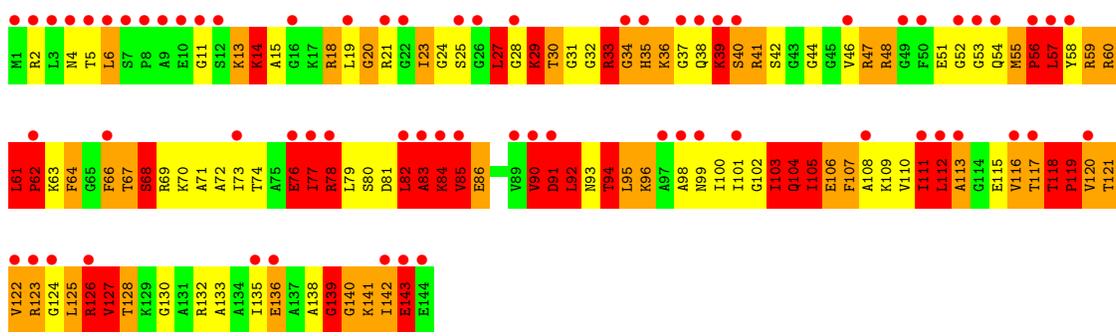
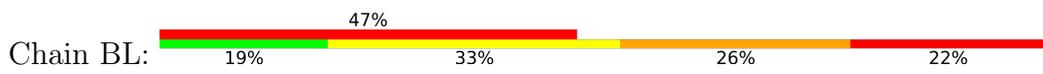
• Molecule 32: 50S ribosomal protein L14



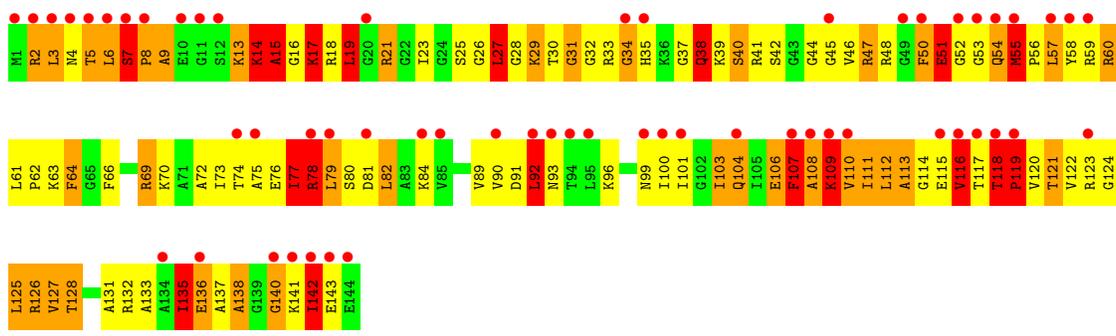
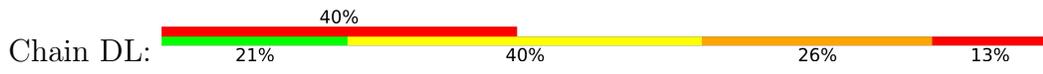
• Molecule 32: 50S ribosomal protein L14



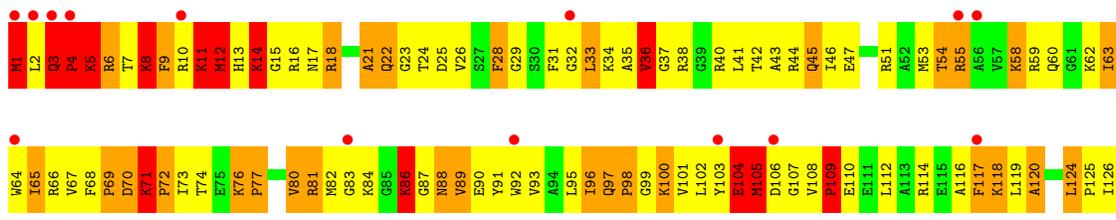
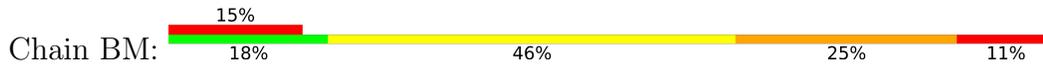
• Molecule 33: 50S ribosomal protein L15



• Molecule 33: 50S ribosomal protein L15

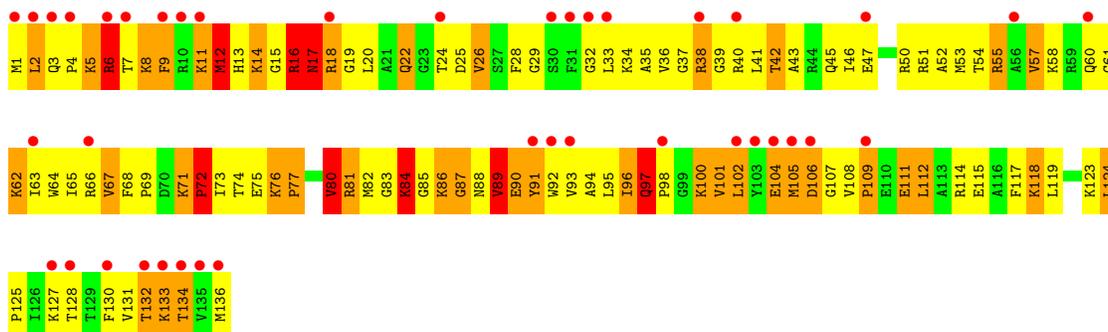
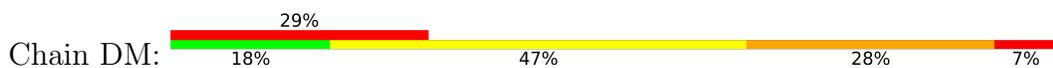


• Molecule 34: 50S ribosomal protein L16

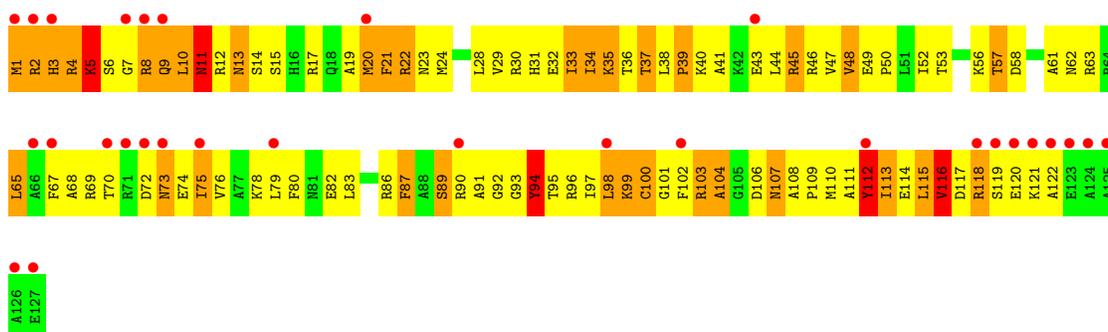
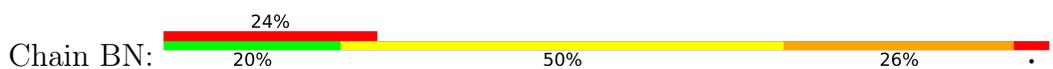




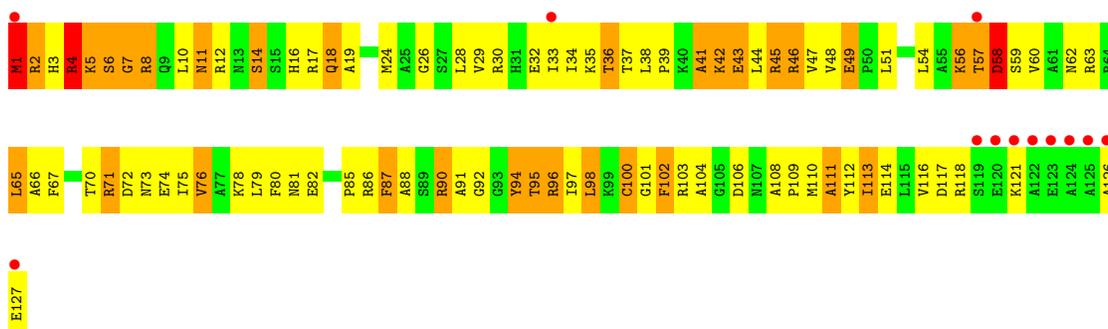
- Molecule 34: 50S ribosomal protein L16



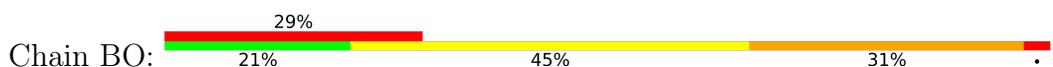
- Molecule 35: 50S ribosomal protein L17

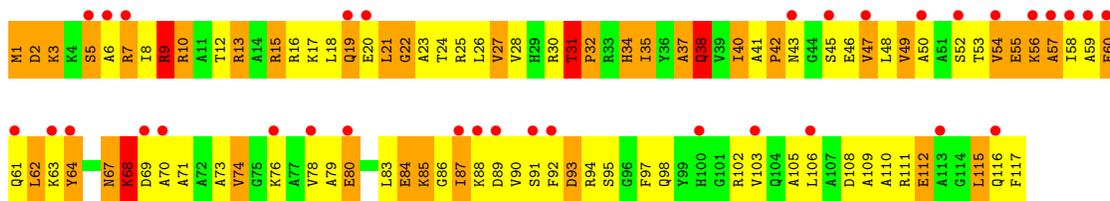


- Molecule 35: 50S ribosomal protein L17

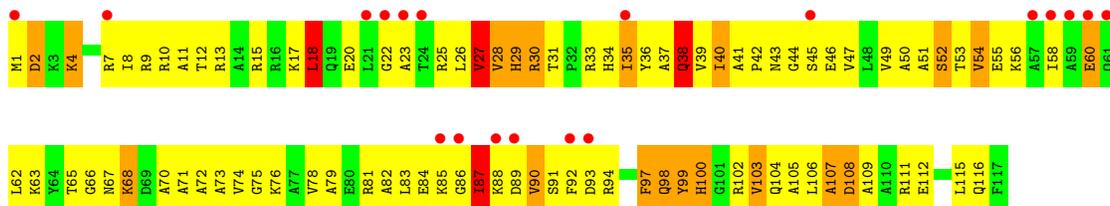


- Molecule 36: 50S ribosomal protein L18

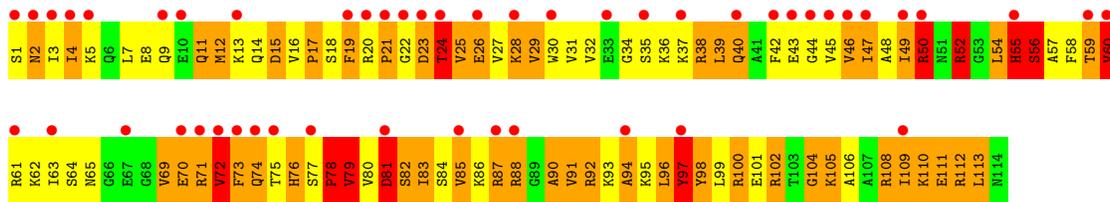




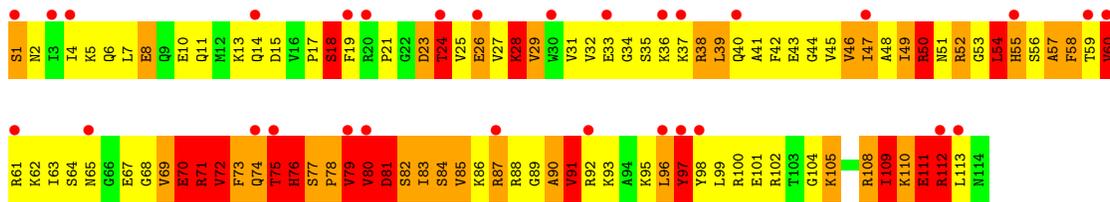
• Molecule 36: 50S ribosomal protein L18



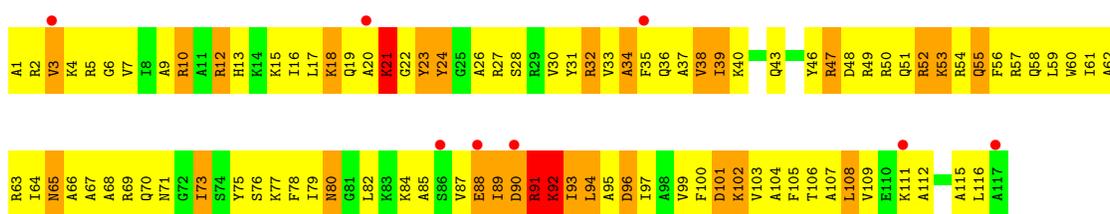
• Molecule 37: 50S ribosomal protein L19



• Molecule 37: 50S ribosomal protein L19



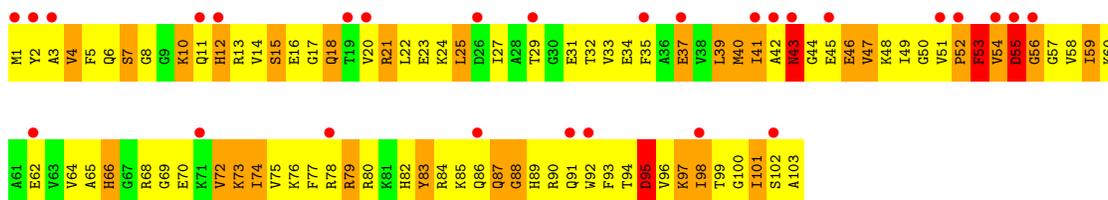
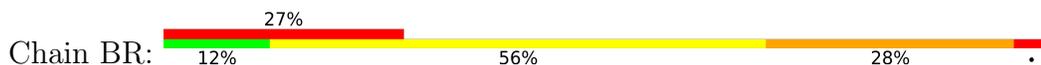
• Molecule 38: 50S ribosomal protein L20



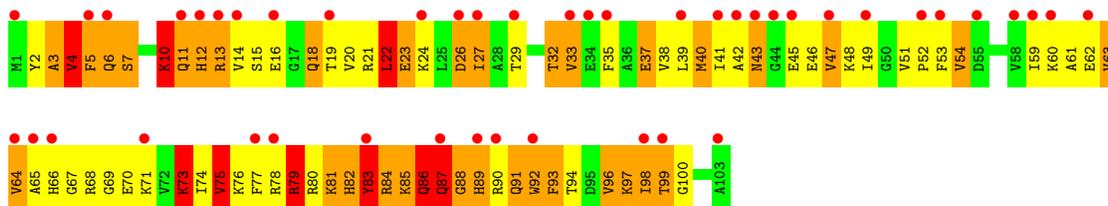
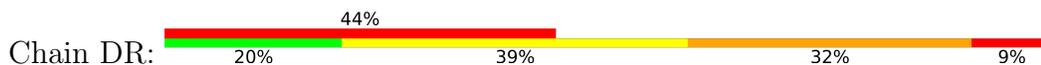
- Molecule 38: 50S ribosomal protein L20



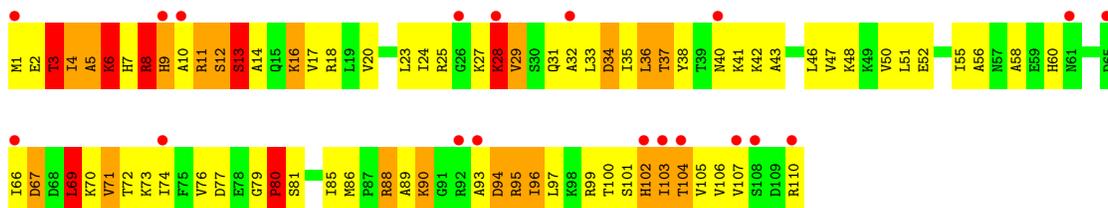
- Molecule 39: 50S ribosomal protein L21



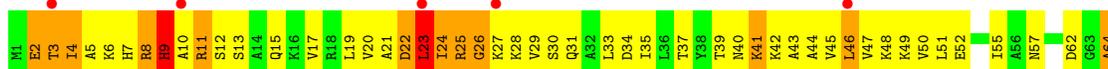
- Molecule 39: 50S ribosomal protein L21



- Molecule 40: 50S ribosomal protein L22



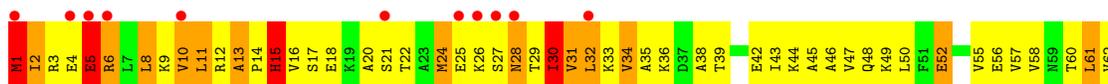
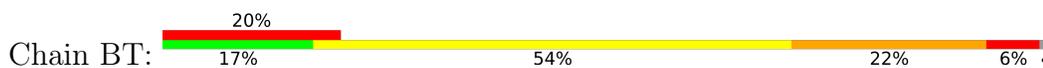
- Molecule 40: 50S ribosomal protein L22



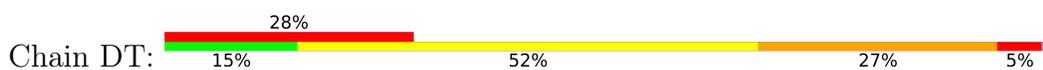




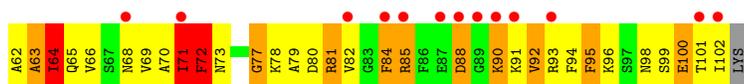
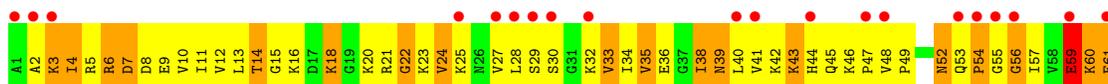
- Molecule 41: 50S ribosomal protein L23



- Molecule 41: 50S ribosomal protein L23



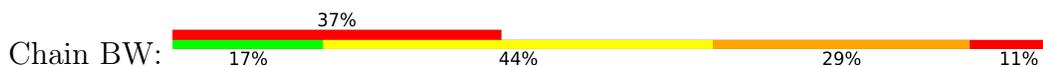
- Molecule 42: 50S ribosomal protein L24



- Molecule 42: 50S ribosomal protein L24

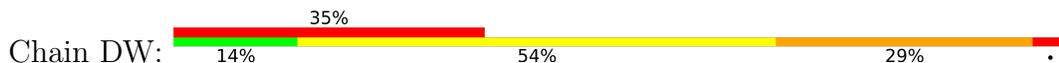


- Molecule 43: 50S ribosomal protein L27

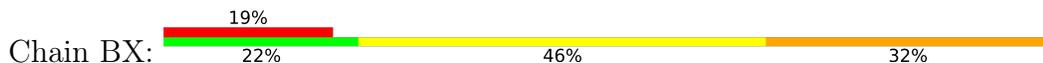




• Molecule 43: 50S ribosomal protein L27



• Molecule 44: 50S ribosomal protein L29



• Molecule 44: 50S ribosomal protein L29

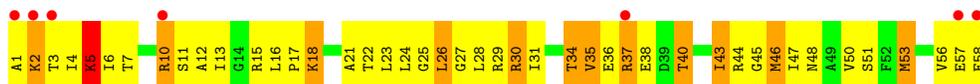


• Molecule 45: 50S ribosomal protein L30

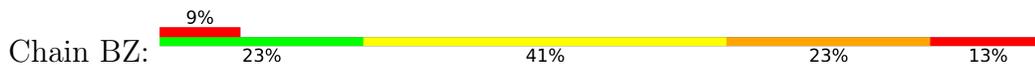


• Molecule 45: 50S ribosomal protein L30

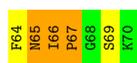




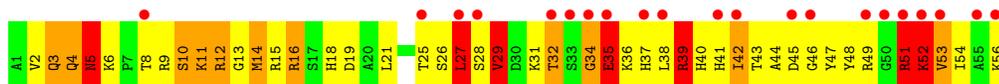
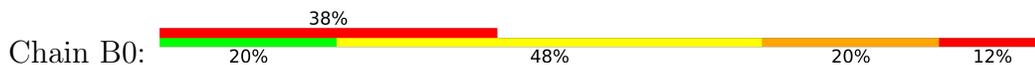
- Molecule 46: 50S ribosomal protein L31



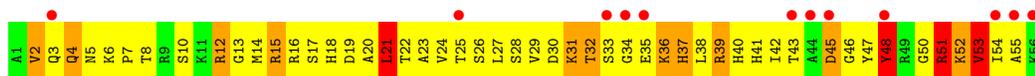
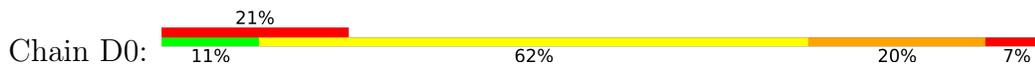
- Molecule 46: 50S ribosomal protein L31



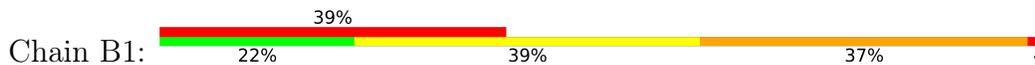
- Molecule 47: 50S ribosomal protein L32



- Molecule 47: 50S ribosomal protein L32



- Molecule 48: 50S ribosomal protein L33



- Molecule 48: 50S ribosomal protein L33

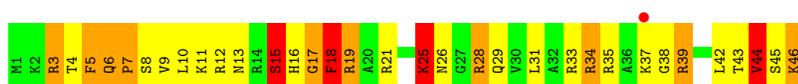




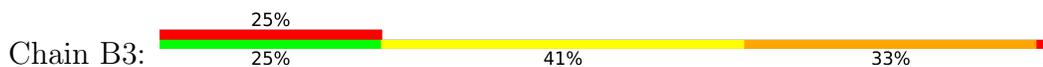
- Molecule 49: 50S ribosomal protein L34



- Molecule 49: 50S ribosomal protein L34



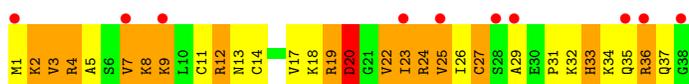
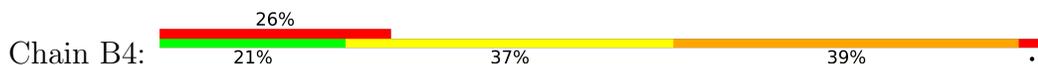
- Molecule 50: 50S ribosomal protein L35



- Molecule 50: 50S ribosomal protein L35

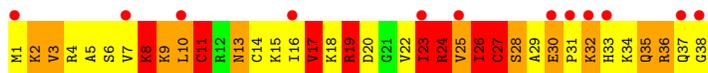


- Molecule 51: 50S ribosomal protein L36



- Molecule 51: 50S ribosomal protein L36

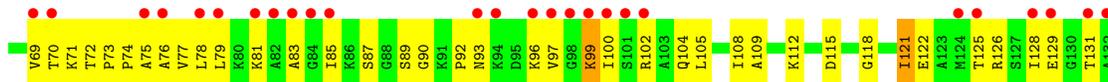




● Molecule 52: 50S ribosomal protein L11



● Molecule 52: 50S ribosomal protein L11



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	208.85Å 379.20Å 739.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	70.00 – 3.46 163.96 – 3.46	Depositor EDS
% Data completeness (in resolution range)	91.6 (70.00-3.46) 91.6 (163.96-3.46)	Depositor EDS
$R_{merge}$	0.14	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.19 (at 3.49Å)	Xtrriage
Refinement program	CNS	Depositor
R, $R_{free}$	0.279 , 0.331 0.260 , 0.306	Depositor DCC
$R_{free}$ test set	35586 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	77.0	Xtrriage
Anisotropy	0.184	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.24 , 65.0	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	284107	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	64.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.43% of the height of the origin peak. No significant pseudotranslation is detected.*

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

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 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: 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	0.26	1/36762 (0.0%)	0.75	7/57350 (0.0%)
1	CA	0.26	2/36762 (0.0%)	0.75	11/57350 (0.0%)
2	AC	0.23	0/1651	0.44	0/2225
2	CC	0.23	0/1651	0.47	0/2225
3	AD	0.23	0/1665	0.46	0/2227
3	CD	0.23	0/1665	0.45	0/2227
4	AE	0.23	0/1118	0.45	0/1504
4	CE	0.24	0/1118	0.45	0/1504
5	AF	0.25	0/835	0.47	0/1128
5	CF	0.24	0/835	0.49	0/1128
6	AG	0.23	0/1187	0.45	0/1591
6	CG	0.23	0/1211	0.45	0/1624
7	AH	0.23	0/989	0.45	0/1326
7	CH	0.23	0/989	0.46	0/1326
8	AI	0.24	0/1034	0.45	0/1375
8	CI	0.24	0/1034	0.46	0/1375
9	AJ	0.23	0/796	0.49	0/1077
9	CJ	0.22	0/796	0.49	0/1077
10	AK	0.24	0/893	0.46	0/1205
10	CK	0.24	0/893	0.47	0/1205
11	AL	0.22	0/969	0.47	0/1300
11	CL	0.22	0/969	0.48	0/1300
12	AM	0.21	0/892	0.48	0/1193
12	CM	0.21	0/884	0.46	0/1181
13	AN	0.24	0/785	0.46	0/1043
13	CN	0.24	0/785	0.45	0/1043
14	AO	0.23	0/724	0.45	0/966
14	CO	0.23	0/724	0.44	0/966
15	AP	0.26	0/659	0.44	0/884
15	CP	0.25	0/648	0.45	0/870
16	AQ	0.23	0/657	0.46	0/881
16	CQ	0.24	0/665	0.47	0/892

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AR	0.23	0/462	0.46	0/621
17	CR	0.23	0/462	0.45	0/621
18	AS	0.25	0/652	0.46	0/877
18	CS	0.25	0/660	0.47	0/888
19	AT	0.23	0/671	0.41	0/888
19	CT	0.24	0/671	0.42	0/888
20	AB	0.25	0/1735	0.47	0/2338
20	CB	0.25	0/1735	0.47	0/2338
21	AU	1.01	4/430 (0.9%)	0.74	2/570 (0.4%)
21	CU	0.98	3/430 (0.7%)	0.82	3/570 (0.5%)
22	BA	0.27	0/2803	0.74	0/4371
22	DA	0.28	0/2803	0.77	0/4371
23	BB	0.33	15/68314 (0.0%)	0.79	63/106569 (0.1%)
23	DB	0.34	18/68314 (0.0%)	0.79	75/106569 (0.1%)
24	BV	0.30	0/766	0.53	0/1025
24	DV	0.25	0/766	0.46	0/1025
25	BC	0.40	0/2092	0.88	7/2813 (0.2%)
25	DC	0.40	0/2092	0.90	8/2813 (0.3%)
26	BD	0.40	0/1586	0.80	2/2134 (0.1%)
26	DD	0.37	0/1586	0.82	4/2134 (0.2%)
27	BE	0.45	1/1571 (0.1%)	0.88	6/2113 (0.3%)
27	DE	0.70	4/1571 (0.3%)	0.83	5/2113 (0.2%)
28	BF	0.33	0/1444	0.87	5/1937 (0.3%)
28	DF	0.41	1/1444 (0.1%)	1.00	10/1937 (0.5%)
29	BG	0.31	0/1343	0.69	0/1816
29	DG	0.30	0/1343	0.67	1/1816 (0.1%)
30	BH	0.28	0/1122	0.60	0/1515
30	DH	0.34	0/1122	0.71	1/1515 (0.1%)
31	BJ	0.41	1/1135 (0.1%)	0.72	3/1529 (0.2%)
31	DJ	0.32	0/1135	0.76	3/1529 (0.2%)
32	BK	0.35	0/939	1.00	2/1258 (0.2%)
32	DK	0.35	0/939	0.99	4/1258 (0.3%)
33	BL	0.69	0/1062	1.60	31/1413 (2.2%)
33	DL	0.74	1/1062 (0.1%)	1.58	25/1413 (1.8%)
34	BM	0.48	0/1093	1.03	8/1460 (0.5%)
34	DM	0.39	0/1093	0.85	5/1460 (0.3%)
35	BN	0.37	0/1021	0.92	7/1364 (0.5%)
35	DN	0.37	0/1021	0.80	3/1364 (0.2%)
36	BO	0.30	0/910	0.67	0/1219
36	DO	0.31	0/910	0.64	0/1219
37	BP	0.55	0/929	1.40	16/1242 (1.3%)
37	DP	0.58	0/929	1.40	16/1242 (1.3%)
38	BQ	0.41	0/960	0.86	3/1278 (0.2%)



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
38	DQ	0.36	0/960	0.75	0/1278
39	BR	1.06	6/829 (0.7%)	1.42	13/1107 (1.2%)
39	DR	0.38	0/829	0.82	3/1107 (0.3%)
40	BS	0.27	0/864	0.68	1/1156 (0.1%)
40	DS	0.26	0/864	0.60	0/1156
41	BT	0.39	0/784	0.78	4/1048 (0.4%)
41	DT	0.45	1/784 (0.1%)	0.80	1/1048 (0.1%)
42	BU	0.33	0/787	0.74	0/1051
42	DU	0.37	0/787	0.94	7/1051 (0.7%)
43	BW	0.36	0/642	0.96	5/848 (0.6%)
43	DW	0.39	0/642	0.80	2/848 (0.2%)
44	BX	0.29	0/510	0.80	1/677 (0.1%)
44	DX	0.29	0/510	0.66	0/677
45	BY	0.31	0/453	0.64	0/605
45	DY	0.31	0/453	0.69	1/605 (0.2%)
46	BZ	0.48	0/559	1.04	5/745 (0.7%)
46	DZ	0.52	0/559	0.91	1/745 (0.1%)
47	B0	0.53	1/450 (0.2%)	1.15	7/599 (1.2%)
47	D0	0.41	0/450	0.97	3/599 (0.5%)
48	B1	0.36	0/448	0.71	0/594
48	D1	0.32	0/448	0.69	0/594
49	B2	0.33	0/380	0.64	0/498
49	D2	0.30	0/380	0.60	0/498
50	B3	0.47	0/513	0.95	1/676 (0.1%)
50	D3	0.39	0/513	0.80	1/676 (0.1%)
51	B4	0.40	0/303	0.73	0/397
51	D4	0.32	0/303	0.77	0/397
52	BI	0.26	0/1046	0.58	0/1410
52	DI	0.60	4/1046 (0.4%)	0.76	4/1410 (0.3%)
All	All	0.33	63/306469 (0.0%)	0.77	396/458101 (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
1	AA	0	16
1	CA	0	20
21	AU	0	1
22	DA	0	1
23	BB	0	60

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Mol	Chain	#Chirality outliers	#Planarity outliers
23	DB	1	65
25	BC	0	3
25	DC	0	2
31	BJ	0	2
33	BL	0	1
37	BP	0	1
37	DP	0	1
38	BQ	0	1
39	BR	0	1
39	DR	0	1
46	DZ	0	1
47	D0	0	1
All	All	1	178

All (63) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	DE	79	ARG	CD-NE	18.29	1.77	1.46
39	BR	53	PHE	CB-CG	17.86	1.81	1.51
23	DB	1086	A	C5-C6	-17.70	1.25	1.41
23	BB	1086	A	C5-C6	-17.70	1.25	1.41
21	CU	25	ALA	C-N	15.34	1.60	1.33
21	AU	15	LEU	C-N	-15.04	0.99	1.34
23	DB	448	U	O4'-C1'	12.68	1.58	1.41
39	BR	54	VAL	N-CA	-11.62	1.23	1.46
39	BR	54	VAL	CA-CB	11.15	1.78	1.54
27	DE	79	ARG	CG-CD	10.76	1.78	1.51
23	DB	1088	A	C6-N1	-10.45	1.28	1.35
23	BB	1088	A	C6-N1	-10.40	1.28	1.35
23	BB	2196	C	O3'-P	10.14	1.73	1.61
33	DL	77	ILE	CA-CB	-10.07	1.31	1.54
23	DB	448	U	C3'-C2'	9.55	1.63	1.52
52	DI	3	LYS	CD-CE	9.37	1.74	1.51
21	AU	25	ALA	C-N	-9.34	1.16	1.33
27	DE	79	ARG	NE-CZ	9.31	1.45	1.33
23	DB	448	U	C4'-O4'	9.24	1.57	1.45
52	DI	3	LYS	CG-CD	8.57	1.81	1.52
21	CU	17	ARG	C-N	8.48	1.53	1.34
23	DB	143	C	N1-C2	8.32	1.48	1.40
23	BB	2052	A	C4'-C3'	-8.29	1.44	1.53
27	BE	46	GLN	CB-CG	8.03	1.74	1.52
23	DB	1060	U	C2-N3	7.80	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	DB	448	U	C2'-C1'	7.79	1.61	1.53
23	BB	1060	U	C2-N3	7.78	1.43	1.37
39	BR	53	PHE	CA-CB	7.52	1.70	1.53
23	BB	2191	A	O3'-P	-7.42	1.52	1.61
23	DB	1086	A	N7-C5	-7.38	1.34	1.39
23	BB	1086	A	N7-C5	-7.36	1.34	1.39
39	BR	54	VAL	CA-C	7.21	1.71	1.52
23	BB	1248	G	C4'-C3'	7.13	1.60	1.53
23	DB	1099	G	C5'-C4'	6.82	1.59	1.51
52	DI	3	LYS	CA-C	6.67	1.70	1.52
1	AA	463	U	O3'-P	-6.67	1.53	1.61
41	DT	1	MET	CG-SD	6.62	1.98	1.81
21	AU	29	ALA	C-N	6.59	1.49	1.34
27	DE	79	ARG	CB-CG	6.35	1.69	1.52
23	DB	1098	A	C5-C4	6.23	1.43	1.38
23	DB	2091	C	O3'-P	6.17	1.68	1.61
1	CA	463	U	O3'-P	-6.06	1.53	1.61
23	BB	37	C	N1-C2	6.03	1.46	1.40
23	BB	442	G	C5-C6	6.00	1.48	1.42
23	DB	1559	U	O3'-P	5.96	1.68	1.61
21	CU	8	ASN	C-N	5.74	1.47	1.34
23	DB	1098	A	O3'-P	5.63	1.68	1.61
31	BJ	75	TYR	CD1-CE1	-5.53	1.31	1.39
23	DB	1098	A	C5'-C4'	5.51	1.57	1.51
39	BR	53	PHE	CG-CD2	5.50	1.47	1.38
52	DI	3	LYS	CB-CG	5.50	1.67	1.52
23	BB	38	A	C5'-C4'	5.42	1.57	1.51
21	AU	11	PHE	C-N	-5.39	1.21	1.34
28	DF	39	VAL	CA-CB	5.32	1.66	1.54
23	BB	1250	G	C4'-C3'	-5.24	1.47	1.52
23	BB	1426	G	O3'-P	5.15	1.67	1.61
23	BB	2267	A	C5-C6	-5.10	1.36	1.41
23	DB	1098	A	C3'-C2'	5.10	1.58	1.52
23	BB	442	G	C6-N1	-5.09	1.35	1.39
1	CA	495	A	N3-C4	-5.08	1.31	1.34
47	B0	52	LYS	N-CA	5.06	1.56	1.46
23	DB	2722	G	C4'-C3'	-5.06	1.47	1.52
23	DB	1099	G	N9-C4	5.04	1.42	1.38

All (396) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BB	2791	G	O5'-P-OP1	-28.71	76.25	110.70
23	DB	2791	G	O5'-P-OP2	-27.77	77.38	110.70
23	DB	2791	G	O5'-P-OP1	18.50	132.90	110.70
23	BB	2791	G	O5'-P-OP2	18.20	132.54	110.70
23	DB	448	U	N1-C1'-C2'	17.52	136.78	114.00
39	BR	53	PHE	CA-C-N	-17.34	79.05	117.20
39	BR	54	VAL	CB-CA-C	15.11	140.10	111.40
23	DB	2790	U	OP2-P-O3'	14.81	137.79	105.20
23	BB	2790	U	OP1-P-O3'	14.26	136.57	105.20
39	BR	54	VAL	CG1-CB-CG2	-14.14	88.27	110.90
35	BN	118	ARG	NE-CZ-NH1	13.69	127.14	120.30
39	BR	54	VAL	N-CA-C	-13.34	74.98	111.00
33	BL	118	THR	C-N-CD	-12.92	92.18	120.60
33	DL	77	ILE	CB-CA-C	-12.70	86.19	111.60
23	DB	1098	A	N9-C1'-C2'	12.58	130.35	114.00
23	BB	2052	A	C5'-C4'-C3'	-11.99	96.81	116.00
33	DL	77	ILE	CG1-CB-CG2	11.76	137.28	111.40
27	DE	79	ARG	CD-NE-CZ	11.67	139.94	123.60
34	BM	3	GLN	C-N-CD	-11.30	95.73	120.60
33	DL	140	GLY	N-CA-C	11.01	140.62	113.10
33	DL	118	THR	N-CA-C	10.94	140.53	111.00
23	BB	139	U	N1-C1'-C2'	-10.12	100.85	114.00
39	BR	54	VAL	N-CA-CB	-10.11	89.27	111.50
28	DF	39	VAL	CB-CA-C	-10.01	92.38	111.40
37	DP	72	VAL	N-CA-C	9.76	137.36	111.00
52	DI	3	LYS	CD-CE-NZ	9.73	134.08	111.70
37	BP	72	VAL	N-CA-C	9.72	137.25	111.00
35	DN	4	ARG	NE-CZ-NH1	9.71	125.16	120.30
28	DF	113	PHE	N-CA-C	-9.71	84.78	111.00
23	BB	2272	U	C5-C4-O4	-9.61	120.14	125.90
34	BM	5	LYS	N-CA-C	-9.26	86.01	111.00
23	DB	1098	A	C1'-O4'-C4'	9.18	117.24	109.90
28	DF	40	GLY	N-CA-C	-8.94	90.75	113.10
42	DU	28	LEU	CA-CB-CG	-8.88	94.86	115.30
33	DL	77	ILE	C-N-CA	8.86	143.85	121.70
38	BQ	3	VAL	CB-CA-C	-8.85	94.58	111.40
47	B0	52	LYS	CB-CA-C	-8.79	92.81	110.40
37	DP	79	VAL	N-CA-C	8.77	134.68	111.00
39	BR	53	PHE	N-CA-CB	8.77	126.38	110.60
23	DB	143	C	N1-C1'-C2'	8.73	125.35	114.00
33	DL	26	GLY	N-CA-C	-8.67	91.42	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BB	2641	G	N9-C1'-C2'	-8.65	102.49	112.00
33	BL	6	LEU	N-CA-C	8.63	134.30	111.00
33	DL	113	ALA	N-CA-C	-8.57	87.85	111.00
23	DB	2641	G	N9-C1'-C2'	-8.53	102.61	112.00
27	DE	79	ARG	NE-CZ-NH1	8.52	124.56	120.30
33	BL	105	ILE	N-CA-C	8.50	133.95	111.00
23	DB	2272	U	N3-C4-O4	-8.48	113.47	119.40
33	BL	85	VAL	N-CA-C	-8.43	88.24	111.00
29	DG	172	GLU	N-CA-C	-8.42	88.25	111.00
23	DB	1350	C	C5'-C4'-C3'	-8.36	102.63	116.00
33	DL	77	ILE	N-CA-C	8.32	133.45	111.00
23	DB	1098	A	C8-N9-C4	-8.30	102.48	105.80
1	AA	765	G	N9-C1'-C2'	-8.22	102.96	112.00
27	BE	84	THR	N-CA-C	8.21	133.15	111.00
1	CA	765	G	N9-C1'-C2'	-8.20	102.98	112.00
27	BE	44	ARG	NE-CZ-NH2	-8.19	116.20	120.30
37	DP	40	GLN	N-CA-C	-8.15	88.98	111.00
23	DB	1088	A	N1-C6-N6	-8.15	113.71	118.60
37	BP	71	ARG	N-CA-C	8.13	132.96	111.00
23	BB	1088	A	N1-C6-N6	-8.12	113.73	118.60
37	BP	40	GLN	N-CA-C	-8.11	89.10	111.00
37	DP	71	ARG	N-CA-C	8.05	132.74	111.00
23	DB	944	C	C5'-C4'-C3'	-8.04	103.14	116.00
23	DB	2076	U	C2'-C3'-O3'	8.03	127.16	109.50
23	BB	773	U	C5'-C4'-C3'	-7.92	103.32	116.00
23	DB	560	C	C5'-C4'-C3'	-7.92	103.32	116.00
23	BB	1350	C	C5'-C4'-C3'	-7.90	103.36	116.00
34	DM	8	LYS	N-CA-C	-7.87	89.75	111.00
47	B0	52	LYS	N-CA-CB	7.82	124.68	110.60
23	BB	37	C	C4'-C3'-O3'	7.81	128.62	113.00
33	BL	112	LEU	N-CA-C	-7.79	89.97	111.00
47	D0	48	TYR	CA-CB-CG	-7.78	98.62	113.40
25	DC	268	ARG	NE-CZ-NH1	-7.78	116.41	120.30
34	BM	132	THR	N-CA-C	7.72	131.85	111.00
37	BP	79	VAL	N-CA-C	7.72	131.84	111.00
23	DB	773	U	C5'-C4'-C3'	-7.69	103.70	116.00
27	BE	73	ILE	N-CA-C	7.65	131.65	111.00
34	BM	1	MET	CG-SD-CE	7.65	112.44	100.20
39	DR	87	GLN	N-CA-C	7.65	131.66	111.00
23	BB	2733	A	N9-C1'-C2'	-7.65	103.59	112.00
23	DB	2733	A	N9-C1'-C2'	-7.64	103.59	112.00
39	BR	53	PHE	CA-C-O	7.59	136.05	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	DL	77	ILE	CA-C-N	-7.56	100.57	117.20
23	DB	2760	C	C5'-C4'-C3'	-7.54	103.94	116.00
33	DL	112	LEU	CA-CB-CG	-7.51	98.02	115.30
33	DL	19	LEU	N-CA-C	-7.51	90.72	111.00
23	DB	380	G	C5'-C4'-C3'	-7.50	104.00	116.00
33	BL	68	SER	N-CA-C	7.49	131.22	111.00
27	BE	74	LYS	N-CA-C	-7.46	90.85	111.00
23	BB	1060	U	C5-C4-O4	-7.45	121.43	125.90
23	DB	1060	U	C5-C4-O4	-7.42	121.45	125.90
39	BR	46	GLU	N-CA-C	7.36	130.88	111.00
1	CA	232	G	C5'-C4'-C3'	-7.36	104.23	116.00
23	DB	1552	A	N9-C1'-C2'	-7.35	103.91	112.00
23	BB	1552	A	N9-C1'-C2'	-7.33	103.93	112.00
23	BB	825	A	C5'-C4'-C3'	-7.31	104.31	116.00
38	BQ	52	ARG	NE-CZ-NH2	-7.27	116.66	120.30
23	DB	143	C	N1-C2-O2	7.26	123.26	118.90
23	BB	38	A	C5'-C4'-C3'	-7.25	104.40	116.00
47	B0	27	LEU	CB-CG-CD1	-7.20	98.77	111.00
33	BL	77	ILE	N-CA-C	-7.15	91.69	111.00
23	DB	323	C	N1-C1'-C2'	7.14	123.28	114.00
37	DP	28	LYS	N-CA-C	-7.13	91.74	111.00
37	BP	28	LYS	N-CA-C	-7.12	91.77	111.00
28	BF	150	GLY	N-CA-C	7.11	130.87	113.10
32	BK	91	SER	N-CA-C	-7.09	91.85	111.00
23	DB	448	U	C2'-C3'-O3'	7.08	125.07	109.50
33	BL	126	ARG	N-CA-C	7.07	130.09	111.00
50	B3	44	ARG	NE-CZ-NH2	-7.06	116.77	120.30
39	BR	50	GLY	N-CA-C	-7.04	95.50	113.10
46	BZ	68	GLY	N-CA-C	-7.03	95.53	113.10
33	DL	17	LYS	N-CA-C	7.01	129.93	111.00
31	DJ	5	THR	N-CA-C	-7.00	92.10	111.00
26	DD	90	PHE	N-CA-C	-6.94	92.26	111.00
33	BL	76	GLU	N-CA-C	-6.93	92.28	111.00
33	DL	7	SER	N-CA-C	-6.92	92.31	111.00
33	BL	61	LEU	C-N-CD	-6.92	105.38	120.60
43	BW	11	ASN	N-CA-C	6.92	129.68	111.00
33	DL	79	LEU	CB-CG-CD1	-6.88	99.30	111.00
23	DB	2262	U	C5'-C4'-C3'	-6.88	105.00	116.00
23	DB	1086	A	C6-C5-N7	-6.86	127.50	132.30
21	CU	17	ARG	C-N-CA	-6.85	104.58	121.70
23	BB	1086	A	C6-C5-N7	-6.84	127.51	132.30
33	DL	117	THR	N-CA-C	-6.82	92.57	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BB	1086	A	C4-C5-C6	6.81	120.41	117.00
23	DB	1086	A	C4-C5-C6	6.80	120.40	117.00
23	BB	2052	A	O4'-C4'-C3'	6.79	111.53	106.10
47	B0	52	LYS	CA-CB-CG	6.79	128.33	113.40
47	D0	21	LEU	CA-CB-CG	-6.78	99.71	115.30
23	BB	2259	U	C5'-C4'-C3'	-6.78	105.16	116.00
26	DD	151	THR	N-CA-C	-6.77	92.72	111.00
33	BL	14	LYS	N-CA-C	-6.77	92.72	111.00
23	DB	825	A	C5'-C4'-C3'	-6.71	105.26	116.00
23	DB	1439	A	N9-C1'-C2'	-6.70	104.63	112.00
50	D3	11	LYS	CD-CE-NZ	-6.69	96.32	111.70
23	BB	1439	A	N9-C1'-C2'	-6.68	104.65	112.00
52	DI	4	VAL	CB-CA-C	-6.68	98.72	111.40
27	DE	147	LEU	N-CA-C	6.67	129.02	111.00
33	DL	27	LEU	CA-CB-CG	-6.66	99.97	115.30
37	DP	104	GLY	N-CA-C	6.66	129.75	113.10
37	DP	14	GLN	N-CA-C	-6.66	93.03	111.00
33	BL	78	ARG	N-CA-C	6.58	128.78	111.00
35	BN	118	ARG	CD-NE-CZ	6.57	132.79	123.60
23	DB	955	U	C5'-C4'-C3'	-6.54	105.54	116.00
33	BL	18	ARG	N-CA-C	6.53	128.63	111.00
34	DM	6	ARG	N-CA-C	-6.52	93.39	111.00
37	BP	14	GLN	N-CA-C	-6.49	93.49	111.00
44	BX	33	ALA	N-CA-C	6.48	128.50	111.00
33	DL	6	LEU	CA-CB-CG	6.46	130.15	115.30
42	DU	48	VAL	N-CA-C	6.46	128.44	111.00
25	BC	32	LEU	N-CA-C	6.45	128.42	111.00
23	DB	449	A	O5'-P-OP1	-6.45	99.89	105.70
47	B0	51	ARG	C-N-CA	6.44	137.80	121.70
37	DP	81	ASP	N-CA-C	-6.43	93.63	111.00
42	DU	49	PRO	N-CA-C	-6.43	95.39	112.10
23	BB	479	A	C4'-C3'-O3'	-6.42	95.92	109.40
37	DP	70	GLU	N-CA-C	6.41	128.32	111.00
43	BW	10	ARG	N-CA-C	6.41	128.31	111.00
32	DK	91	SER	N-CA-C	-6.41	93.69	111.00
23	DB	745	G	C5'-C4'-C3'	-6.41	105.75	116.00
25	DC	32	LEU	N-CA-C	6.41	128.30	111.00
42	DU	48	VAL	C-N-CD	6.39	141.83	128.40
37	DP	29	VAL	N-CA-C	-6.39	93.75	111.00
23	DB	690	G	C5'-C4'-C3'	-6.37	105.81	116.00
23	DB	1088	A	C5-C6-N6	6.37	128.79	123.70
1	CA	438	U	N1-C1'-C2'	-6.36	105.01	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DN	1	MET	N-CA-C	-6.34	93.87	111.00
37	BP	29	VAL	N-CA-C	-6.34	93.88	111.00
33	BL	92	LEU	N-CA-C	6.33	128.10	111.00
40	BS	41	LYS	N-CA-C	-6.33	93.90	111.00
1	AA	438	U	N1-C1'-C2'	-6.33	105.04	112.00
33	BL	125	LEU	N-CA-C	-6.33	93.92	111.00
35	BN	5	LYS	N-CA-C	6.32	128.06	111.00
37	BP	70	GLU	N-CA-C	6.32	128.06	111.00
33	BL	139	GLY	N-CA-C	6.31	128.88	113.10
1	CA	576	C	O5'-P-OP1	-6.31	100.02	105.70
35	BN	118	ARG	NH1-CZ-NH2	-6.31	112.46	119.40
33	DL	79	LEU	CA-CB-CG	6.30	129.80	115.30
33	BL	20	GLY	N-CA-C	6.30	128.84	113.10
33	BL	67	THR	N-CA-C	6.29	127.97	111.00
23	BB	1088	A	C5-C6-N6	6.28	128.72	123.70
23	BB	2318	G	N9-C1'-C2'	-6.26	105.11	112.00
26	BD	154	LYS	N-CA-C	-6.26	94.10	111.00
1	AA	232	G	C5'-C4'-C3'	-6.22	106.05	116.00
27	BE	46	GLN	CA-CB-CG	6.21	127.06	113.40
25	DC	238	ASN	N-CA-C	6.21	127.77	111.00
33	BL	103	ILE	N-CA-C	6.20	127.72	111.00
32	DK	89	ASN	N-CA-C	6.15	127.61	111.00
33	BL	86	GLU	N-CA-CB	-6.15	99.53	110.60
23	BB	745	G	C5'-C4'-C3'	-6.11	106.22	116.00
25	BC	238	ASN	N-CA-C	6.10	127.48	111.00
23	DB	973	A	C5'-C4'-C3'	-6.10	106.24	116.00
1	CA	1250	A	C5'-C4'-C3'	6.09	125.75	116.00
37	BP	78	PRO	N-CA-C	6.09	127.94	112.10
43	DW	74	LYS	N-CA-C	6.08	127.41	111.00
23	DB	2790	U	O3'-P-O5'	-6.07	92.46	104.00
47	B0	52	LYS	N-CA-C	-6.07	94.61	111.00
37	DP	82	SER	N-CA-C	6.07	127.39	111.00
33	BL	39	LYS	N-CA-C	-6.06	94.64	111.00
23	BB	2052	A	C1'-O4'-C4'	-6.05	105.06	109.90
27	BE	44	ARG	NE-CZ-NH1	6.04	123.32	120.30
23	BB	1250	G	C4'-C3'-C2'	6.04	108.64	102.60
33	BL	5	THR	C-N-CA	6.02	136.76	121.70
21	CU	17	ARG	O-C-N	6.02	132.33	122.70
23	BB	268	C	C5'-C4'-C3'	-5.99	106.41	116.00
1	AA	66	A	N9-C1'-C2'	-5.97	105.43	112.00
52	DI	3	LYS	C-N-CA	5.97	136.63	121.70
25	DC	28	PRO	CA-C-N	-5.97	104.06	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	DK	16	ALA	N-CA-C	5.97	127.12	111.00
37	DP	78	PRO	N-CA-C	5.97	127.62	112.10
23	BB	1397	U	C5'-C4'-C3'	-5.96	106.47	116.00
31	BJ	80	HIS	N-CA-C	5.96	127.08	111.00
23	DB	1397	U	C5'-C4'-C3'	-5.95	106.47	116.00
42	DU	60	LYS	N-CA-C	-5.95	94.92	111.00
46	DZ	54	GLY	N-CA-C	-5.95	98.21	113.10
37	BP	81	ASP	N-CA-C	-5.95	94.93	111.00
23	BB	2619	C	C5'-C4'-C3'	-5.95	106.49	116.00
25	BC	28	PRO	CA-C-N	-5.93	104.14	117.20
26	BD	145	SER	N-CA-CB	-5.92	101.62	110.50
23	BB	690	G	C5'-C4'-C3'	-5.91	106.54	116.00
35	BN	2	ARG	N-CA-C	-5.91	95.05	111.00
23	DB	1098	A	O4'-C4'-C3'	-5.90	98.10	104.00
46	BZ	42	PRO	N-CA-C	5.90	127.44	112.10
34	BM	6	ARG	N-CA-C	-5.90	95.08	111.00
1	CA	1432	G	N9-C1'-C2'	-5.88	105.53	112.00
39	BR	53	PHE	O-C-N	5.87	132.09	122.70
23	BB	1657	U	N1-C1'-C2'	-5.87	105.54	112.00
37	BP	82	SER	N-CA-C	5.86	126.82	111.00
23	BB	38	A	N9-C1'-C2'	5.84	121.59	114.00
23	DB	1098	A	O4'-C1'-C2'	-5.83	99.97	105.80
35	DN	126	ALA	N-CA-C	-5.83	95.26	111.00
41	BT	1	MET	N-CA-C	-5.81	95.31	111.00
46	BZ	43	PHE	N-CA-C	-5.80	95.34	111.00
23	DB	2619	C	C5'-C4'-C3'	-5.80	106.73	116.00
37	BP	109	ILE	N-CA-C	-5.79	95.35	111.00
28	DF	39	VAL	N-CA-CB	5.79	124.25	111.50
23	BB	2790	U	O3'-P-O5'	-5.79	93.01	104.00
34	BM	8	LYS	N-CA-C	-5.78	95.39	111.00
37	BP	54	LEU	N-CA-C	5.78	126.61	111.00
37	DP	109	ILE	N-CA-C	-5.77	95.42	111.00
23	BB	442	G	C5-C6-O6	5.77	132.06	128.60
23	DB	544	C	C4'-C3'-O3'	5.77	124.53	113.00
28	BF	14	LYS	N-CA-C	-5.76	95.45	111.00
33	BL	82	LEU	CA-CB-CG	-5.76	102.06	115.30
21	AU	15	LEU	C-N-CA	5.76	136.09	121.70
25	BC	28	PRO	N-CA-C	5.75	127.06	112.10
43	BW	11	ASN	N-CA-CB	-5.75	100.24	110.60
35	BN	100	CYS	N-CA-C	-5.73	95.53	111.00
35	BN	4	ARG	N-CA-C	5.73	126.46	111.00
31	BJ	115	GLY	N-CA-C	-5.72	98.80	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BB	2575	C	N1-C1'-C2'	-5.72	105.71	112.00
25	DC	28	PRO	N-CA-C	5.70	126.92	112.10
39	BR	88	GLY	N-CA-C	-5.70	98.85	113.10
23	BB	2267	A	C5-C6-N6	-5.70	119.14	123.70
1	CA	814	A	C5'-C4'-C3'	5.69	125.10	116.00
33	BL	111	ILE	N-CA-C	-5.68	95.65	111.00
34	DM	130	PHE	N-CA-C	-5.68	95.65	111.00
32	BK	89	ASN	N-CA-C	5.67	126.30	111.00
33	DL	92	LEU	CA-CB-CG	5.66	128.32	115.30
28	BF	106	ALA	N-CA-C	5.66	126.27	111.00
33	DL	15	ALA	N-CA-C	5.64	126.23	111.00
47	B0	5	ASN	N-CA-C	5.63	126.21	111.00
23	BB	2267	A	O4'-C1'-N9	-5.63	103.70	108.20
27	DE	79	ARG	NE-CZ-NH2	-5.63	117.48	120.30
31	BJ	4	PHE	N-CA-C	-5.62	95.82	111.00
28	DF	14	LYS	N-CA-C	-5.62	95.84	111.00
23	BB	2267	A	C4-N9-C1'	5.61	136.40	126.30
37	DP	71	ARG	C-N-CA	5.61	135.72	121.70
41	BT	2	ILE	CG1-CB-CG2	5.60	123.73	111.40
41	BT	2	ILE	N-CA-C	-5.59	95.91	111.00
23	DB	1657	U	N1-C1'-C2'	-5.58	105.86	112.00
23	DB	1807	G	C5'-C4'-C3'	5.58	124.92	116.00
34	DM	17	ASN	N-CA-C	-5.57	95.96	111.00
46	BZ	26	SER	N-CA-C	5.57	126.04	111.00
41	DT	3	ARG	NE-CZ-NH1	5.57	123.08	120.30
23	DB	1098	A	N7-C8-N9	5.57	116.58	113.80
45	DY	2	LYS	N-CA-C	-5.55	96.01	111.00
33	BL	83	ALA	N-CA-C	-5.55	96.02	111.00
23	DB	1060	U	N1-C2-O2	-5.55	118.92	122.80
23	BB	2272	U	N1-C1'-C2'	-5.55	105.90	112.00
23	DB	401	A	C5'-C4'-C3'	5.53	124.84	116.00
37	DP	50	ARG	N-CA-C	-5.53	96.08	111.00
37	BP	50	ARG	N-CA-C	-5.52	96.08	111.00
23	DB	143	C	C2-N1-C1'	5.52	124.87	118.80
23	DB	126	A	N9-C1'-C2'	5.51	121.17	114.00
23	DB	1363	C	C5'-C4'-C3'	-5.51	107.19	116.00
23	BB	2267	A	C8-N9-C1'	-5.51	117.79	127.70
23	BB	2272	U	N3-C4-O4	-5.50	115.55	119.40
23	DB	2076	U	C4'-C3'-O3'	5.50	123.99	113.00
43	BW	10	ARG	C-N-CA	5.49	135.43	121.70
28	BF	20	ASN	N-CA-C	5.48	125.81	111.00
42	DU	47	PRO	N-CA-C	-5.48	97.85	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BB	150	U	C5'-C4'-C3'	-5.48	107.23	116.00
23	DB	700	G	C5'-C4'-C3'	-5.48	107.23	116.00
42	DU	50	ALA	N-CA-C	-5.48	96.22	111.00
37	BP	104	GLY	N-CA-C	5.47	126.78	113.10
28	DF	133	GLU	N-CA-C	5.46	125.75	111.00
25	BC	202	ARG	NE-CZ-NH1	5.46	123.03	120.30
23	BB	1363	C	C5'-C4'-C3'	-5.46	107.27	116.00
1	AA	328	C	C2'-C3'-O3'	5.46	122.43	113.70
23	DB	2272	U	C5-C4-O4	-5.45	122.63	125.90
21	AU	11	PHE	CA-C-N	-5.45	105.21	117.20
43	DW	4	LYS	N-CA-C	5.45	125.70	111.00
23	BB	139	U	O4'-C1'-N1	5.44	112.55	108.20
1	CA	63	C	C5'-C4'-C3'	-5.43	107.31	116.00
23	BB	2052	A	C4'-C3'-C2'	-5.42	97.18	102.60
25	DC	202	ARG	NE-CZ-NH1	5.42	123.01	120.30
23	DB	403	U	C5'-C4'-C3'	-5.42	107.33	116.00
1	CA	328	C	C2'-C3'-O3'	5.42	122.36	113.70
23	BB	848	C	C5'-C4'-C3'	-5.41	107.34	116.00
28	DF	20	ASN	N-CA-C	5.41	125.61	111.00
26	DD	18	ASP	N-CA-C	-5.41	96.41	111.00
23	DB	1135	C	C5'-C4'-C3'	5.40	124.64	116.00
23	BB	1250	G	C5'-C4'-C3'	-5.39	107.37	116.00
23	BB	2191	A	P-O3'-C3'	5.39	126.16	119.70
37	BP	71	ARG	C-N-CA	5.38	135.16	121.70
25	DC	28	PRO	C-N-CA	5.38	135.16	121.70
25	BC	28	PRO	C-N-CA	5.38	135.15	121.70
27	DE	57	LYS	CD-CE-NZ	-5.38	99.33	111.70
23	BB	1060	U	N1-C2-O2	-5.37	119.04	122.80
28	DF	39	VAL	CA-CB-CG2	5.37	118.96	110.90
33	BL	62	PRO	CA-N-CD	-5.37	103.98	111.50
34	DM	133	LYS	N-CA-C	-5.36	96.53	111.00
23	BB	2052	A	N9-C1'-C2'	-5.36	106.11	112.00
32	DK	77	ILE	N-CA-C	-5.35	96.55	111.00
23	BB	2575	C	C5'-C4'-C3'	5.35	124.56	116.00
33	BL	94	THR	N-CA-C	5.35	125.44	111.00
26	DD	95	SER	N-CA-C	-5.35	96.56	111.00
52	DI	3	LYS	CB-CG-CD	5.35	125.50	111.60
23	DB	1080	A	N9-C1'-C2'	-5.34	106.12	112.00
33	BL	77	ILE	C-N-CA	-5.34	108.35	121.70
1	CA	1534	A	C2'-C3'-O3'	-5.34	97.76	109.50
23	BB	2192	U	C5'-C4'-C3'	-5.32	107.48	116.00
39	DR	79	ARG	N-CA-C	5.30	125.32	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BB	375	G	C5'-C4'-C3'	-5.30	107.53	116.00
23	DB	1060	U	N3-C2-O2	5.30	125.91	122.20
33	DL	92	LEU	N-CA-C	5.29	125.28	111.00
23	DB	1294	U	C5'-C4'-C3'	-5.28	107.55	116.00
47	D0	48	TYR	CB-CG-CD1	-5.28	117.83	121.00
33	BL	119	PRO	CA-N-CD	-5.27	104.12	111.50
23	DB	299	A	N9-C1'-C2'	5.27	120.85	114.00
23	DB	461	C	C5'-C4'-C3'	-5.27	107.57	116.00
23	DB	2253	G	C5'-C4'-C3'	-5.26	107.58	116.00
23	DB	375	G	C5'-C4'-C3'	-5.26	107.58	116.00
23	DB	2471	A	C5'-C4'-C3'	-5.26	107.59	116.00
1	AA	1118	U	C5'-C4'-C3'	-5.25	107.60	116.00
43	BW	16	GLU	N-CA-C	5.23	125.13	111.00
23	BB	1251	C	C5'-C4'-C3'	5.23	124.36	116.00
28	DF	150	GLY	N-CA-C	5.23	126.17	113.10
30	DH	8	LYS	N-CA-C	-5.22	96.89	111.00
39	BR	56	GLY	N-CA-C	-5.22	100.04	113.10
23	BB	2471	A	C5'-C4'-C3'	-5.22	107.65	116.00
41	BT	2	ILE	CB-CA-C	5.21	122.02	111.60
23	DB	126	A	C5'-C4'-C3'	5.21	124.34	116.00
23	DB	143	C	N3-C2-O2	-5.21	118.25	121.90
23	BB	1600	C	C5'-C4'-C3'	-5.20	107.69	116.00
23	DB	1098	A	C4-N9-C1'	5.20	135.65	126.30
23	BB	1060	U	N3-C2-O2	5.19	125.83	122.20
23	DB	2293	G	N9-C1'-C2'	-5.18	106.30	112.00
33	DL	112	LEU	N-CA-C	-5.18	97.02	111.00
23	BB	1664	A	C5'-C4'-C3'	-5.17	107.72	116.00
23	BB	560	C	C5'-C4'-C3'	-5.17	107.73	116.00
23	DB	982	C	C4'-C3'-C2'	5.16	107.76	102.60
23	DB	2575	C	N1-C1'-C2'	-5.16	106.33	112.00
39	DR	86	GLN	N-CA-C	-5.15	97.08	111.00
31	DJ	4	PHE	N-CA-C	5.15	124.91	111.00
31	DJ	82	GLY	N-CA-C	-5.15	100.22	113.10
23	DB	143	C	C5'-C4'-O4'	-5.15	102.92	109.10
33	DL	112	LEU	N-CA-CB	5.14	120.69	110.40
23	BB	1086	A	C2-N3-C4	-5.14	108.03	110.60
39	BR	43	ASN	N-CA-C	-5.13	97.14	111.00
23	DB	1600	C	C5'-C4'-C3'	-5.12	107.81	116.00
23	DB	2894	G	C5'-C4'-C3'	-5.12	107.81	116.00
25	DC	31	PRO	N-CA-C	5.12	125.40	112.10
37	DP	57	ALA	N-CA-C	-5.11	97.21	111.00
1	CA	1461	G	N1-C2-N2	-5.10	111.61	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	DB	1567	G	C5'-C4'-C3'	-5.09	107.86	116.00
21	CU	25	ALA	O-C-N	-5.08	114.57	123.20
46	BZ	20	ASN	N-CA-C	5.07	124.69	111.00
23	BB	1656	C	N1-C1'-C2'	-5.06	106.44	112.00
25	BC	31	PRO	N-CA-C	5.06	125.25	112.10
28	DF	73	VAL	N-CA-C	5.05	124.64	111.00
33	BL	127	VAL	N-CA-C	5.05	124.64	111.00
1	AA	576	C	C5'-C4'-O4'	5.04	115.15	109.10
23	DB	2745	C	C5'-C4'-C3'	-5.04	107.94	116.00
28	BF	73	VAL	N-CA-C	5.04	124.60	111.00
23	DB	1903	G	C5'-C4'-C3'	5.03	124.04	116.00
23	DB	2236	U	C5'-C4'-C3'	-5.03	107.96	116.00
34	BM	4	PRO	N-CA-C	-5.03	99.03	112.10
38	BQ	52	ARG	NE-CZ-NH1	5.02	122.81	120.30
23	BB	2576	G	O5'-P-OP1	-5.02	101.18	105.70
33	BL	123	ARG	N-CA-C	-5.01	97.46	111.00
33	DL	14	LYS	N-CA-C	5.01	124.54	111.00
34	BM	65	ILE	N-CA-C	-5.00	97.49	111.00
33	DL	79	LEU	N-CA-C	5.00	124.50	111.00

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
23	DB	2076	U	C3'

All (178) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1006	G	Sidechain
1	AA	1028	C	Sidechain
1	AA	1319	A	Sidechain
1	AA	1331	G	Sidechain
1	AA	1441	A	Sidechain
1	AA	187	G	Sidechain
1	AA	281	G	Sidechain
1	AA	437	U	Sidechain
1	AA	438	U	Sidechain
1	AA	454	G	Sidechain
1	AA	481	G	Sidechain
1	AA	496	A	Sidechain
1	AA	521	G	Sidechain
1	AA	575	G	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	AA	58	C	Sidechain
1	AA	703	G	Sidechain
21	AU	11	PHE	Mainchain
23	BB	1060	U	Sidechain
23	BB	1086	A	Sidechain
23	BB	1088	A	Sidechain
23	BB	1119	U	Sidechain
23	BB	1215	G	Sidechain
23	BB	1240	U	Sidechain
23	BB	1247	A	Sidechain
23	BB	1347	A	Sidechain
23	BB	136	G	Sidechain
23	BB	1377	G	Sidechain
23	BB	139	U	Sidechain
23	BB	1419	A	Sidechain
23	BB	142	A	Sidechain
23	BB	1426	G	Sidechain
23	BB	143	C	Sidechain
23	BB	1432	G	Sidechain
23	BB	1439	A	Sidechain
23	BB	1450	G	Sidechain
23	BB	1462	C	Sidechain
23	BB	1546	G	Sidechain
23	BB	1572	A	Sidechain
23	BB	1814	G	Sidechain
23	BB	1828	G	Sidechain
23	BB	1869	G	Sidechain
23	BB	1964	G	Sidechain
23	BB	2052	A	Sidechain
23	BB	2138	G	Sidechain
23	BB	221	A	Sidechain
23	BB	222	A	Sidechain
23	BB	2267	A	Sidechain
23	BB	2272	U	Sidechain
23	BB	2285	C	Sidechain
23	BB	2318	G	Sidechain
23	BB	232	G	Sidechain
23	BB	2471	A	Sidechain
23	BB	2508	G	Sidechain
23	BB	2575	C	Sidechain
23	BB	2638	G	Sidechain
23	BB	2641	G	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
23	BB	2733	A	Sidechain
23	BB	2770	G	Sidechain
23	BB	2834	G	Sidechain
23	BB	2848	G	Sidechain
23	BB	2857	G	Sidechain
23	BB	2883	A	Sidechain
23	BB	299	A	Sidechain
23	BB	361	G	Sidechain
23	BB	370	G	Sidechain
23	BB	396	G	Sidechain
23	BB	487	C	Sidechain
23	BB	500	G	Sidechain
23	BB	51	G	Sidechain
23	BB	526	A	Sidechain
23	BB	630	G	Sidechain
23	BB	633	A	Sidechain
23	BB	727	A	Sidechain
23	BB	729	G	Sidechain
23	BB	757	G	Sidechain
23	BB	942	G	Sidechain
23	BB	946	C	Sidechain
25	BC	160	TYR	Sidechain
25	BC	29	PHE	Sidechain
25	BC	61	TYR	Sidechain
31	BJ	75	TYR	Sidechain
31	BJ	80	HIS	Sidechain
33	BL	66	PHE	Sidechain
37	BP	97	TYR	Sidechain
38	BQ	46	TYR	Sidechain
39	BR	53	PHE	Mainchain
1	CA	1009	U	Sidechain
1	CA	1048	G	Sidechain
1	CA	1133	G	Sidechain
1	CA	1319	A	Sidechain
1	CA	1362	A	Sidechain
1	CA	1432	G	Sidechain
1	CA	1441	A	Sidechain
1	CA	187	G	Sidechain
1	CA	281	G	Sidechain
1	CA	437	U	Sidechain
1	CA	438	U	Sidechain
1	CA	454	G	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
1	CA	481	G	Sidechain
1	CA	496	A	Sidechain
1	CA	521	G	Sidechain
1	CA	575	G	Sidechain
1	CA	58	C	Sidechain
1	CA	703	G	Sidechain
1	CA	83	C	Sidechain
1	CA	86	G	Sidechain
47	D0	48	TYR	Sidechain
22	DA	78	A	Sidechain
23	DB	1047	G	Sidechain
23	DB	1060	U	Sidechain
23	DB	1080	A	Sidechain
23	DB	1086	A	Sidechain
23	DB	1088	A	Sidechain
23	DB	1098	A	Sidechain
23	DB	1132	U	Sidechain
23	DB	1142	A	Sidechain
23	DB	1215	G	Sidechain
23	DB	1247	A	Sidechain
23	DB	1347	A	Sidechain
23	DB	136	G	Sidechain
23	DB	1377	G	Sidechain
23	DB	1419	A	Sidechain
23	DB	1426	G	Sidechain
23	DB	1432	G	Sidechain
23	DB	1439	A	Sidechain
23	DB	1450	G	Sidechain
23	DB	1462	C	Sidechain
23	DB	1546	G	Sidechain
23	DB	1572	A	Sidechain
23	DB	1645	G	Sidechain
23	DB	1814	G	Sidechain
23	DB	1828	G	Sidechain
23	DB	1869	G	Sidechain
23	DB	1964	G	Sidechain
23	DB	2062	A	Sidechain
23	DB	2090	A	Sidechain
23	DB	2108	A	Sidechain
23	DB	214	G	Sidechain
23	DB	2156	G	Sidechain
23	DB	221	A	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
23	DB	222	A	Sidechain
23	DB	2261	C	Sidechain
23	DB	2267	A	Sidechain
23	DB	2272	U	Sidechain
23	DB	2279	G	Sidechain
23	DB	232	G	Sidechain
23	DB	2471	A	Sidechain
23	DB	2503	A	Sidechain
23	DB	2508	G	Sidechain
23	DB	2512	C	Sidechain
23	DB	2575	C	Sidechain
23	DB	2638	G	Sidechain
23	DB	2641	G	Sidechain
23	DB	2733	A	Sidechain
23	DB	2770	G	Sidechain
23	DB	28	A	Sidechain
23	DB	2834	G	Sidechain
23	DB	2848	G	Sidechain
23	DB	2857	G	Sidechain
23	DB	2883	A	Sidechain
23	DB	299	A	Sidechain
23	DB	370	G	Sidechain
23	DB	448	U	Sidechain
23	DB	481	G	Sidechain
23	DB	500	G	Sidechain
23	DB	557	C	Sidechain
23	DB	630	G	Sidechain
23	DB	633	A	Sidechain
23	DB	727	A	Sidechain
23	DB	729	G	Sidechain
23	DB	757	G	Sidechain
23	DB	858	G	Sidechain
23	DB	942	G	Sidechain
25	DC	160	TYR	Sidechain
25	DC	29	PHE	Sidechain
37	DP	97	TYR	Sidechain
39	DR	83	TYR	Sidechain
46	DZ	9	TYR	Sidechain

## 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	32831	0	16521	1157	0
1	CA	32831	0	16521	1198	0
2	AC	1624	0	1699	159	0
2	CC	1624	0	1699	148	0
3	AD	1643	0	1710	172	0
3	CD	1643	0	1710	167	0
4	AE	1105	0	1148	109	0
4	CE	1105	0	1148	143	0
5	AF	817	0	808	78	0
5	CF	817	0	808	93	0
6	AG	1174	0	1230	100	0
6	CG	1196	0	1246	98	0
7	AH	979	0	1034	78	0
7	CH	979	0	1034	86	0
8	AI	1022	0	1070	144	0
8	CI	1022	0	1070	127	0
9	AJ	786	0	828	92	0
9	CJ	786	0	828	106	0
10	AK	877	0	887	111	0
10	CK	877	0	887	108	0
11	AL	955	0	1019	103	0
11	CL	955	0	1019	101	0
12	AM	883	0	944	88	0
12	CM	876	0	937	95	0
13	AN	774	0	827	93	0
13	CN	774	0	827	114	0
14	AO	716	0	742	53	0
14	CO	716	0	742	50	0
15	AP	649	0	666	77	0
15	CP	638	0	656	71	0
16	AQ	648	0	691	80	0
16	CQ	656	0	702	85	0
17	AR	455	0	478	39	0
17	CR	455	0	478	41	0
18	AS	637	0	665	75	0
18	CS	644	0	675	87	0
19	AT	665	0	714	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	CT	665	0	714	64	0
20	AB	1704	0	1732	195	0
20	CB	1704	0	1732	152	0
21	AU	425	0	447	104	0
21	CU	425	0	449	84	0
22	BA	2507	0	1270	87	0
22	DA	2507	0	1270	97	0
23	BB	60995	0	30678	2393	0
23	DB	60995	0	30677	2365	0
24	BV	753	0	780	107	0
24	DV	753	0	780	69	0
25	BC	2053	0	2122	436	0
25	DC	2053	0	2122	433	0
26	BD	1565	0	1616	372	0
26	DD	1565	0	1616	316	0
27	BE	1552	0	1619	261	0
27	DE	1552	0	1619	266	0
28	BF	1420	0	1460	169	0
28	DF	1420	0	1460	181	0
29	BG	1323	0	1374	175	0
29	DG	1323	0	1374	162	0
30	BH	1111	0	1148	160	0
30	DH	1111	0	1148	145	0
31	BJ	1112	0	1147	219	0
31	DJ	1112	0	1147	231	0
32	BK	930	0	1000	121	0
32	DK	930	0	1000	126	0
33	BL	1053	0	1129	284	0
33	DL	1053	0	1129	227	0
34	BM	1074	0	1157	237	0
34	DM	1074	0	1157	189	0
35	BN	1008	0	1045	157	0
35	DN	1008	0	1045	133	0
36	BO	900	0	935	128	0
36	DO	900	0	935	128	0
37	BP	917	0	965	206	0
37	DP	917	0	965	209	0
38	BQ	947	0	1022	178	0
38	DQ	947	0	1022	161	0
39	BR	816	0	838	165	0
39	DR	816	0	839	180	0
40	BS	857	0	922	122	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	DS	857	0	922	111	0
41	BT	777	0	840	139	0
41	DT	777	0	840	129	0
42	BU	779	0	834	152	0
42	DU	779	0	834	134	0
43	BW	634	0	656	155	0
43	DW	634	0	656	156	0
44	BX	509	0	543	73	0
44	DX	509	0	543	90	0
45	BY	449	0	491	57	0
45	DY	449	0	491	64	0
46	BZ	549	0	552	114	0
46	DZ	549	0	552	101	0
47	B0	444	0	461	75	0
47	D0	444	0	461	80	0
48	B1	441	0	485	63	0
48	D1	441	0	485	69	0
49	B2	377	0	418	55	0
49	D2	377	0	418	66	0
50	B3	504	0	574	111	0
50	D3	504	0	574	113	0
51	B4	302	0	343	44	0
51	D4	302	0	343	80	0
52	BI	1032	0	1088	129	0
52	DI	1032	0	1088	214	0
53	AA	59	0	0	0	0
53	AP	1	0	0	0	0
53	BB	110	0	0	0	0
53	CA	62	0	0	0	0
53	DB	110	0	0	0	0
53	DN	1	0	0	0	0
54	AA	290	0	0	0	0
54	AE	3	0	0	0	0
54	AK	2	0	0	0	0
54	AN	4	0	0	0	0
54	AP	1	0	0	0	0
54	BB	497	0	0	12	0
54	BC	1	0	0	0	0
54	BE	5	0	0	0	0
54	BH	1	0	0	0	0
54	BL	2	0	0	0	0
54	BN	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	CA	295	0	0	1	0
54	CE	3	0	0	0	0
54	CK	1	0	0	0	0
54	CL	4	0	0	0	0
54	CN	2	0	0	0	0
54	CP	1	0	0	0	0
54	CT	2	0	0	0	0
54	D2	2	0	0	0	0
54	DB	499	0	0	7	0
54	DC	1	0	0	0	0
54	DD	1	0	0	0	0
54	DE	3	0	0	0	0
54	DJ	2	0	0	1	0
54	DL	1	0	0	0	0
54	DN	2	0	0	0	0
54	DQ	1	0	0	0	0
All	All	284107	0	190766	18478	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 39.

All (18478) 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)
52:DI:3:LYS:CD	52:DI:3:LYS:CE	1.74	1.64
39:BR:53:PHE:CB	39:BR:53:PHE:CG	1.81	1.61
39:BR:54:VAL:CB	39:BR:54:VAL:CA	1.78	1.57
27:DE:79:ARG:CG	27:DE:79:ARG:CD	1.78	1.57
52:DI:3:LYS:CD	52:DI:3:LYS:CG	1.81	1.56
27:DE:79:ARG:CD	27:DE:79:ARG:NE	1.77	1.47
21:AU:14:ALA:HA	21:AU:16:ARG:NH1	1.37	1.35
21:AU:14:ALA:O	21:AU:16:ARG:NE	1.57	1.33
21:AU:14:ALA:CA	21:AU:16:ARG:NH1	1.92	1.33
21:AU:14:ALA:N	21:AU:16:ARG:NH1	1.88	1.20
23:DB:1098:A:H3'	52:DI:3:LYS:CA	1.73	1.17
23:DB:1081:U:H5'	52:DI:126:ARG:HH12	1.01	1.17
40:DS:46:LEU:HA	40:DS:49:LYS:HB2	1.21	1.16
23:DB:1099:G:O5'	52:DI:3:LYS:HA	1.44	1.15
21:AU:14:ALA:CA	21:AU:16:ARG:CZ	2.24	1.15
32:BK:71:ARG:HB3	32:BK:72:PRO:HD2	1.22	1.14
27:BE:48:THR:HG22	27:BE:49:ARG:H	0.97	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:323:C:H1'	27:DE:164:LEU:HB3	1.23	1.11
51:D4:26:ILE:HG13	51:D4:35:GLN:H	1.11	1.11
23:BB:692:C:H5'	25:BC:42:ARG:HB2	1.32	1.11
23:DB:1099:G:P	52:DI:3:LYS:HA	1.90	1.10
25:BC:124:LYS:HB2	25:BC:125:PRO:HD3	1.10	1.10
34:BM:3:GLN:N	34:BM:4:PRO:HD2	1.41	1.10
23:BB:396:G:H4'	46:BZ:28:VAL:HG21	1.29	1.10
33:BL:55:MET:HG2	33:BL:56:PRO:HD3	1.32	1.09
39:BR:54:VAL:CB	39:BR:54:VAL:N	2.15	1.09
25:DC:124:LYS:HB2	25:DC:125:PRO:HD3	1.22	1.09
23:DB:587:C:H3'	33:DL:29:LYS:HD2	1.32	1.09
11:CL:43:LYS:HB3	11:CL:44:PRO:HD2	1.26	1.08
26:BD:154:LYS:HZ2	26:BD:156:PHE:HA	1.17	1.08
37:BP:52:ARG:HB3	37:BP:60:VAL:HG11	1.30	1.08
33:DL:7:SER:HB2	33:DL:8:PRO:HD3	1.34	1.08
23:BB:37:C:H2'	27:BE:46:GLN:HG2	1.36	1.07
23:BB:2578:G:H1'	26:BD:145:SER:HB3	1.29	1.07
33:BL:61:LEU:HB3	33:BL:62:PRO:HD2	1.12	1.07
25:BC:107:LYS:HB2	25:BC:194:VAL:HG11	1.36	1.07
23:DB:1099:G:O4'	52:DI:3:LYS:C	1.93	1.07
48:D1:46:VAL:HG13	48:D1:47:ILE:HG13	1.28	1.07
23:BB:2641:G:H5''	31:BJ:78:THR:HG21	1.30	1.07
38:DQ:97:ILE:HD12	39:DR:13:ARG:HE	1.20	1.07
20:AB:163:ILE:HG23	20:AB:164:ASP:H	1.17	1.06
39:BR:74:ILE:HA	39:BR:90:ARG:HE	1.15	1.06
9:AJ:35:GLN:HB3	9:AJ:77:VAL:HG23	1.34	1.06
25:BC:30:ALA:H	25:BC:31:PRO:HD3	1.12	1.06
45:BY:16:LEU:HB2	45:BY:17:PRO:HD3	1.38	1.06
23:DB:1098:A:H3'	52:DI:3:LYS:HA	1.35	1.06
23:DB:1099:G:O5'	52:DI:3:LYS:CA	2.03	1.06
2:AC:78:LYS:HG2	2:AC:81:GLU:HB2	1.36	1.05
23:DB:1099:G:H8	52:DI:3:LYS:CA	1.69	1.05
27:BE:153:LEU:HD13	27:BE:193:VAL:HG21	1.37	1.05
1:CA:974:A:H4'	1:CA:975:A:H5'	1.28	1.05
37:DP:25:VAL:HG13	37:DP:88:ARG:H	1.13	1.05
25:BC:20:ASN:HB3	25:BC:202:ARG:HB3	1.33	1.05
23:DB:1081:U:H5'	52:DI:126:ARG:NH1	1.70	1.05
33:DL:90:VAL:HG12	33:DL:122:VAL:HG21	1.32	1.05
26:BD:24:VAL:HG21	26:BD:193:VAL:HG11	1.38	1.05
34:DM:5:LYS:HB2	34:DM:69:PRO:HG2	1.37	1.05
43:BW:24:ARG:HB2	43:BW:59:PHE:HB2	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:68:LYS:HD2	31:DJ:72:LYS:HB3	1.37	1.04
30:DH:3:VAL:HG22	30:DH:21:VAL:HG11	1.36	1.04
35:DN:45:ARG:HH22	35:DN:113:ILE:HG23	1.19	1.03
48:D1:29:LYS:HB2	48:D1:30:PRO:HD3	1.38	1.03
50:D3:12:ARG:HG2	50:D3:24:LYS:H	1.17	1.03
32:BK:66:LYS:HG2	32:BK:80:ASP:HA	1.40	1.03
31:DJ:34:ARG:HD3	31:DJ:39:LYS:HD3	1.36	1.03
20:CB:46:VAL:HG13	20:CB:47:PRO:HD3	1.38	1.03
45:DY:4:ILE:HA	45:DY:36:GLU:HG2	1.39	1.02
36:DO:56:LYS:HE2	36:DO:81:ARG:HE	1.22	1.02
23:DB:1099:G:H5'	52:DI:4:VAL:HB	1.42	1.01
6:AG:125:ASP:HB3	6:AG:130:LYS:HB3	1.39	1.01
34:BM:3:GLN:C	34:BM:5:LYS:H	1.58	1.01
39:BR:78:ARG:HB3	39:BR:87:GLN:HA	1.42	1.01
37:BP:25:VAL:HG13	37:BP:88:ARG:H	1.25	1.01
25:DC:230:PRO:HG2	25:DC:245:THR:H	1.23	1.01
39:BR:53:PHE:HB3	39:BR:55:ASP:N	1.76	1.01
45:BY:10:ARG:HE	45:BY:31:ILE:HG13	1.22	1.01
23:DB:1098:A:H2'	52:DI:3:LYS:C	1.80	1.01
23:BB:37:C:H2'	27:BE:46:GLN:CG	1.91	1.00
34:BM:3:GLN:H	34:BM:4:PRO:CD	1.74	1.00
23:DB:1025:G:H1'	23:DB:1135:C:H5'	1.43	1.00
37:DP:47:ILE:HG22	37:DP:48:ALA:H	1.23	1.00
21:CU:4:LYS:HB3	21:CU:6:ARG:HH12	1.22	1.00
31:DJ:15:TRP:HB2	31:DJ:139:VAL:HA	1.41	1.00
5:CF:3:HIS:HB3	5:CF:92:THR:HA	1.42	1.00
26:DD:31:ALA:HA	26:DD:51:THR:HA	1.37	1.00
27:BE:128:ALA:HB3	27:BE:129:PRO:HD3	1.39	0.99
31:BJ:11:VAL:HG13	31:BJ:12:LYS:H	1.24	0.99
10:CK:113:THR:HG21	21:CU:28:LEU:HD11	1.44	0.99
23:DB:458:G:H5''	49:D2:39:ARG:HB2	1.43	0.99
32:BK:64:ARG:H	32:BK:83:ALA:HB3	1.26	0.99
21:AU:14:ALA:N	21:AU:16:ARG:CZ	2.23	0.99
30:DH:125:THR:HA	30:DH:146:VAL:HB	1.44	0.99
20:AB:46:VAL:HG13	20:AB:47:PRO:HD3	1.45	0.99
48:D1:47:ILE:HG22	48:D1:48:TYR:H	1.28	0.99
30:BH:3:VAL:HB	30:BH:37:VAL:HB	1.45	0.98
35:BN:44:LEU:HD23	35:BN:113:ILE:HD12	1.44	0.98
30:BH:82:SER:H	30:BH:146:VAL:HG13	1.25	0.98
39:DR:63:VAL:HG22	39:DR:64:VAL:H	1.28	0.98
23:BB:200:U:H5''	46:BZ:20:ASN:HB3	1.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DW:38:ARG:HH21	43:DW:40:ARG:HD3	1.25	0.98
26:BD:170:VAL:HG13	26:BD:171:THR:H	1.26	0.98
2:CC:59:PRO:HG2	2:CC:62:SER:HB2	1.46	0.98
25:DC:22:GLU:HB2	25:DC:202:ARG:HG3	1.41	0.98
25:DC:127:ASN:HD22	25:DC:128:THR:H	1.11	0.98
1:AA:376:G:H5''	15:AP:5:ARG:HB2	1.45	0.98
34:BM:3:GLN:H	34:BM:4:PRO:HD2	1.01	0.98
23:DB:947:A:HO2'	23:DB:984:A:H2	1.10	0.98
31:DJ:124:VAL:HG23	31:DJ:125:TYR:H	1.27	0.98
31:DJ:35:ARG:HH12	31:DJ:40:HIS:H	0.98	0.98
46:BZ:3:LYS:HB2	46:BZ:51:VAL:HG21	1.45	0.97
29:BG:15:ASP:HB3	29:BG:26:LYS:HB2	1.47	0.97
42:DU:42:LYS:H	42:DU:57:ILE:HD12	1.26	0.97
23:BB:2575:C:H5''	26:BD:149:ASN:CB	1.94	0.97
35:BN:10:LEU:H	35:BN:17:ARG:HH12	1.12	0.97
37:BP:28:LYS:HD3	37:BP:44:GLY:H	1.29	0.97
23:DB:1654:A:H4'	35:DN:1:MET:HG2	1.43	0.97
26:DD:109:VAL:HG11	26:DD:193:VAL:HG12	1.44	0.97
23:DB:64:A:H5'	41:DT:76:ARG:HH11	1.29	0.97
1:AA:1313:U:H5''	18:AS:5:LYS:HG2	1.47	0.97
34:BM:28:PHE:HB3	34:BM:102:LEU:HD21	1.43	0.97
13:AN:63:CYS:HB3	13:AN:67:GLY:H	1.30	0.97
23:DB:2405:G:H5'	33:DL:70:LYS:HG3	1.47	0.97
12:AM:106:ARG:HE	12:AM:112:ARG:HG2	1.29	0.96
23:BB:547:A:H3'	23:BB:548:G:H8	1.28	0.96
34:BM:3:GLN:N	34:BM:4:PRO:CD	2.28	0.96
23:DB:631:A:HO2'	33:DL:66:PHE:HD1	1.08	0.96
25:DC:10:PRO:HB2	25:DC:202:ARG:HH12	1.28	0.96
33:BL:77:ILE:HB	33:BL:110:VAL:HG22	1.46	0.96
23:DB:1099:G:C8	52:DI:3:LYS:N	2.33	0.96
23:BB:1021:A:H62	23:BB:1141:U:H3	1.01	0.96
2:AC:58:ARG:HG2	2:AC:63:ILE:HG22	1.48	0.96
27:DE:148:ILE:HA	27:DE:185:LYS:HB3	1.46	0.96
41:BT:12:ARG:HH21	44:BX:29:ARG:HH12	1.03	0.96
31:DJ:40:HIS:HB2	38:DQ:69:ARG:HH22	1.26	0.96
23:BB:2575:C:H5''	26:BD:149:ASN:HB2	1.46	0.96
38:BQ:73:ILE:HG23	38:BQ:77:LYS:HB2	1.47	0.96
23:BB:2615:U:H1'	47:B0:6:LYS:HE3	1.46	0.96
44:BX:28:LEU:HB3	44:BX:34:SER:HA	1.46	0.96
20:CB:116:LEU:HD22	20:CB:140:LEU:HD21	1.47	0.96
25:BC:42:ARG:HG2	25:BC:43:ASN:H	1.29	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:53:LYS:HD3	5:AF:54:LEU:H	1.30	0.95
10:AK:124:LYS:HA	21:AU:34:ARG:HB3	1.47	0.95
23:BB:2333:A:H4'	23:BB:2334:U:H5''	1.48	0.95
1:CA:973:G:H3'	1:CA:974:A:H5''	1.47	0.95
21:AU:29:ALA:HB1	21:AU:32:ARG:HH21	1.26	0.95
34:BM:3:GLN:C	34:BM:5:LYS:N	2.15	0.95
31:BJ:100:VAL:HG13	31:BJ:101:ILE:HG22	1.49	0.95
45:BY:9:THR:HB	45:BY:54:VAL:HA	1.45	0.95
20:CB:10:LYS:HD2	20:CB:211:LEU:HD21	1.48	0.95
25:DC:48:ILE:HG22	25:DC:49:THR:H	1.29	0.95
37:DP:76:HIS:CD2	37:DP:76:HIS:H	1.77	0.95
23:BB:38:A:O4'	27:BE:46:GLN:HG3	1.65	0.95
30:DH:114:GLU:HB3	30:DH:133:GLN:HE21	1.31	0.95
44:BX:36:GLN:HE22	44:BX:38:GLN:HE22	1.13	0.95
23:DB:45:G:H5''	23:DB:46:G:H5'	1.45	0.95
23:BB:1450:G:H21	23:BB:1452:G:H1	1.14	0.95
50:B3:34:LYS:HB3	50:B3:35:LYS:HE2	1.47	0.95
21:CU:24:LYS:HD2	21:CU:25:ALA:H	1.29	0.95
18:AS:49:ALA:HB1	18:AS:56:HIS:HB3	1.47	0.94
5:CF:29:ILE:HD13	5:CF:64:VAL:HG11	1.49	0.94
46:DZ:33:ASN:HB3	46:DZ:46:GLY:HA2	1.47	0.94
27:BE:48:THR:HG22	27:BE:49:ARG:N	1.80	0.94
23:DB:1098:A:H2'	52:DI:4:VAL:N	1.82	0.94
40:DS:29:VAL:HG22	40:DS:71:VAL:HG23	1.49	0.94
41:DT:14:PRO:HA	41:DT:32:LEU:HA	1.48	0.94
51:D4:30:GLU:HB3	51:D4:33:HIS:HB2	1.47	0.94
12:AM:11:HIS:H	12:AM:44:ILE:HD11	1.32	0.94
23:DB:1450:G:H21	23:DB:1452:G:H1	1.15	0.94
32:DK:78:ARG:HH22	37:DP:62:LYS:HZ2	1.10	0.94
33:DL:135:ILE:HG22	33:DL:138:ALA:HB3	1.50	0.94
37:DP:27:VAL:HA	37:DP:86:LYS:HE2	1.48	0.94
42:DU:9:GLU:HB2	42:DU:71:ILE:HB	1.49	0.94
23:DB:161:A:H3'	23:DB:162:U:H5''	1.49	0.94
23:DB:1081:U:C5'	52:DI:126:ARG:HH12	1.81	0.94
9:AJ:88:MET:HB2	9:AJ:89:ARG:HH12	1.32	0.94
23:BB:2575:C:H4'	26:BD:148:GLN:C	1.88	0.94
23:BB:923:G:H1'	43:BW:23:LYS:HD3	1.50	0.94
23:DB:2333:A:H4'	23:DB:2334:U:H5''	1.47	0.94
22:BA:75:G:H1'	24:BV:29:ILE:HD13	1.50	0.94
31:BJ:16:TYR:HB2	31:BJ:54:ILE:HG22	1.48	0.94
33:BL:61:LEU:CB	33:BL:62:PRO:HD2	1.94	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:64:PRO:HA	28:DF:88:VAL:HG22	1.47	0.94
31:DJ:73:VAL:HG22	31:DJ:74:TYR:H	1.33	0.94
31:BJ:73:VAL:HB	31:BJ:75:TYR:HE1	1.34	0.93
23:DB:1099:G:C8	52:DI:3:LYS:HB2	2.03	0.93
33:BL:78:ARG:HG2	33:BL:99:ASN:HB3	1.48	0.93
23:DB:2377:A:H61	36:DO:13:ARG:NH2	1.66	0.93
37:DP:50:ARG:HH12	37:DP:62:LYS:HB2	1.32	0.93
20:AB:67:LEU:HD11	20:AB:157:PRO:HB3	1.47	0.93
25:BC:124:LYS:HB2	25:BC:125:PRO:CD	1.96	0.93
26:BD:2:ILE:HG21	26:BD:204:LYS:HA	1.50	0.93
23:DB:1099:G:P	52:DI:4:VAL:H	1.91	0.93
28:DF:135:ILE:HD11	28:DF:138:PRO:HA	1.50	0.93
7:AH:103:VAL:HG12	7:AH:124:ILE:HA	1.46	0.93
21:AU:14:ALA:HA	21:AU:16:ARG:CZ	1.90	0.93
42:BU:23:LYS:HG3	42:BU:24:VAL:HG23	1.50	0.93
23:BB:2204:G:H5'	25:BC:149:LYS:HE3	1.50	0.93
28:DF:32:LYS:HB3	28:DF:91:ARG:HB3	1.49	0.93
50:D3:49:VAL:HG22	50:D3:50:SER:H	1.33	0.93
12:CM:52:ILE:HG13	12:CM:56:ARG:HH22	1.33	0.93
23:DB:1024:G:H3'	23:DB:1025:G:H5''	1.50	0.93
1:AA:1086:U:H3	1:AA:1099:G:H22	1.14	0.93
23:DB:1098:A:C2'	52:DI:3:LYS:C	2.37	0.93
39:DR:6:GLN:HB3	39:DR:41:ILE:HD13	1.48	0.93
25:DC:139:THR:HA	25:DC:193:GLU:CD	1.89	0.93
37:DP:47:ILE:HG23	37:DP:63:ILE:HG23	1.51	0.93
31:DJ:58:ASN:O	31:DJ:126:ALA:HA	1.69	0.93
27:BE:60:TRP:HE1	27:BE:73:ILE:HD11	1.32	0.92
30:BH:83:LYS:HB3	30:BH:91:PHE:HB2	1.50	0.92
25:DC:15:VAL:HG13	25:DC:16:VAL:HG23	1.50	0.92
38:DQ:73:ILE:HG13	38:DQ:74:SER:H	1.30	0.92
31:BJ:25:LEU:HG	31:BJ:64:VAL:H	1.32	0.92
42:BU:84:PHE:HB3	42:BU:92:VAL:HG22	1.49	0.92
26:BD:149:ASN:HB3	26:BD:150:GLN:HG2	1.49	0.92
1:CA:1250:A:H4'	8:CI:69:GLY:H	1.35	0.92
23:DB:1060:U:N3	23:DB:1088:A:N7	2.18	0.92
32:BK:103:VAL:HB	32:BK:107:LEU:HD23	1.52	0.92
23:DB:250:G:H5'	50:D3:7:ARG:HG2	1.51	0.92
24:DV:25:LYS:HE2	24:DV:41:GLU:HB2	1.50	0.92
23:BB:1060:U:N3	23:BB:1088:A:N7	2.17	0.92
2:CC:137:VAL:HA	2:CC:148:ILE:HD13	1.52	0.92
23:DB:1099:G:C5'	52:DI:4:VAL:N	2.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2304:G:H4'	28:DF:129:MET:HA	1.49	0.92
10:CK:20:ALA:HB3	10:CK:83:VAL:HA	1.50	0.91
26:DD:24:VAL:HG11	26:DD:193:VAL:HG11	1.51	0.91
37:DP:90:ALA:HB3	37:DP:112:ARG:H	1.32	0.91
3:CD:167:PRO:HG2	3:CD:170:LEU:HD11	1.50	0.91
11:CL:68:GLY:HA3	11:CL:106:VAL:HG21	1.50	0.91
23:DB:1099:G:H5'	52:DI:4:VAL:CB	1.99	0.91
28:DF:136:ILE:O	28:DF:138:PRO:HD3	1.69	0.91
44:BX:30:MET:HG3	44:BX:31:GLN:H	1.33	0.91
1:CA:1306:A:N6	1:CA:1331:G:H1'	1.86	0.91
39:DR:22:LEU:HD12	39:DR:24:LYS:H	1.35	0.91
33:BL:85:VAL:HG21	33:BL:98:ALA:H	1.34	0.91
40:BS:50:VAL:HG11	40:BS:103:ILE:HG21	1.51	0.91
28:DF:106:ALA:HB1	28:DF:136:ILE:HG23	1.51	0.91
5:CF:38:ARG:HH11	5:CF:98:GLU:H	1.15	0.91
31:DJ:64:VAL:HG12	31:DJ:65:THR:H	1.34	0.91
33:BL:79:LEU:HA	33:BL:113:ALA:HB3	1.50	0.91
49:B2:42:LEU:HD11	49:B2:44:VAL:HG13	1.53	0.91
19:CT:61:ALA:HA	19:CT:67:HIS:H	1.36	0.91
23:BB:663:G:H5''	33:BL:25:SER:HB2	1.51	0.91
26:BD:8:LYS:HB3	37:BP:5:LYS:NZ	1.85	0.91
26:BD:138:LEU:HD23	26:BD:138:LEU:H	1.34	0.91
25:BC:19:VAL:HG12	25:BC:20:ASN:H	1.35	0.91
37:DP:76:HIS:H	37:DP:76:HIS:HD2	1.17	0.91
39:BR:47:VAL:HG22	39:BR:48:LYS:H	1.34	0.91
43:BW:35:ILE:HG23	43:BW:36:ILE:H	1.34	0.91
7:CH:105:THR:HA	7:CH:122:GLY:HA3	1.53	0.91
31:DJ:40:HIS:HA	38:DQ:69:ARG:HH12	1.36	0.90
32:DK:64:ARG:H	32:DK:83:ALA:HB3	1.36	0.90
23:DB:1825:U:H5'	25:DC:244:VAL:CG2	2.01	0.90
31:BJ:73:VAL:HB	31:BJ:75:TYR:CE1	2.06	0.90
38:BQ:48:ASP:HA	38:BQ:51:GLN:HG2	1.50	0.90
42:BU:78:LYS:HE3	42:BU:96:LYS:HB2	1.51	0.90
41:DT:48:GLN:HA	41:DT:53:VAL:HG22	1.51	0.90
23:BB:1658:C:OP1	26:BD:136:ASN:HA	1.71	0.90
32:BK:26:GLY:HA3	32:BK:30:ARG:HE	1.35	0.90
25:BC:20:ASN:HB2	25:BC:203:VAL:HG13	1.51	0.90
26:BD:165:MET:HE3	26:BD:166:GLY:H	1.36	0.90
32:BK:8:LEU:HD23	32:BK:82:ASN:HB3	1.53	0.90
25:DC:243:PRO:HA	25:DC:249:VAL:HG23	1.53	0.90
30:BH:132:PHE:HB3	30:BH:140:ALA:HB3	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CK:19:VAL:HG22	10:CK:34:THR:HG22	1.51	0.90
46:DZ:3:LYS:HG2	46:DZ:48:GLN:HB2	1.54	0.90
19:AT:68:LYS:HG3	19:AT:69:ASN:H	1.36	0.90
29:BG:29:ASN:HB2	29:BG:78:VAL:HA	1.54	0.90
23:DB:1099:G:H8	52:DI:3:LYS:CB	1.83	0.90
23:DB:2377:A:H61	36:DO:13:ARG:HH21	1.14	0.90
25:DC:109:LEU:HD21	25:DC:115:ILE:HD11	1.50	0.90
13:AN:60:ARG:HD3	13:AN:60:ARG:H	1.37	0.90
45:BY:6:ILE:HG22	45:BY:56:VAL:HG23	1.54	0.89
9:CJ:51:VAL:HG23	13:CN:80:ARG:HB2	1.52	0.89
23:DB:1283:G:H22	23:DB:1286:A:H5'	1.36	0.89
24:DV:9:ARG:HG2	24:DV:41:GLU:HG2	1.50	0.89
34:BM:3:GLN:O	34:BM:6:ARG:N	2.04	0.89
27:DE:169:VAL:HG13	27:DE:170:ARG:H	1.36	0.89
10:CK:88:PRO:HD3	21:CU:28:LEU:HD13	1.52	0.89
25:DC:107:LYS:HB2	25:DC:194:VAL:HG21	1.55	0.89
27:DE:3:LEU:HD22	27:DE:119:ILE:HD11	1.52	0.89
37:DP:32:VAL:HA	37:DP:42:PHE:HB3	1.54	0.89
38:BQ:92:LYS:HA	38:BQ:95:ALA:HB2	1.54	0.89
18:AS:4:LEU:HD13	18:AS:9:PHE:H	1.37	0.89
23:BB:1112:G:H4'	29:BG:2:ARG:HG2	1.53	0.89
23:BB:1283:G:H22	23:BB:1286:A:H5'	1.37	0.89
48:B1:12:SER:HA	48:B1:50:GLU:HB3	1.52	0.89
35:DN:37:THR:HG22	35:DN:39:PRO:HD2	1.55	0.89
50:B3:12:ARG:HB3	50:B3:23:HIS:HA	1.55	0.89
8:CI:27:ILE:HG23	8:CI:34:LEU:HB2	1.54	0.89
28:DF:7:TYR:HA	28:DF:11:VAL:HB	1.55	0.89
18:AS:18:VAL:HG21	18:AS:43:MET:HG2	1.53	0.89
24:BV:4:ILE:HB	24:BV:63:ILE:HA	1.55	0.89
32:BK:71:ARG:HB3	32:BK:72:PRO:CD	2.02	0.89
37:BP:47:ILE:HG22	37:BP:48:ALA:H	1.33	0.89
28:DF:36:ASN:HA	28:DF:86:CYS:HB2	1.54	0.89
42:DU:33:VAL:HB	42:DU:65:GLN:HA	1.53	0.89
10:AK:22:ILE:HG21	10:AK:95:THR:HG21	1.53	0.89
12:AM:48:SER:H	12:AM:51:GLN:HB2	1.38	0.89
23:BB:85:G:H5'	42:BU:28:LEU:HA	1.52	0.89
26:BD:118:PHE:HA	26:BD:164:GLN:HA	1.53	0.89
28:DF:140:ILE:HG21	28:DF:145:VAL:HG22	1.55	0.89
52:DI:105:LEU:HD11	52:DI:139:VAL:HG21	1.54	0.89
31:BJ:7:LYS:HD2	31:BJ:49:ASP:HB2	1.54	0.89
33:DL:39:LYS:HZ2	33:DL:39:LYS:HA	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:18:LYS:HG2	16:AQ:48:GLU:HA	1.52	0.88
25:BC:124:LYS:CB	25:BC:125:PRO:HD3	2.00	0.88
26:BD:16:THR:HA	37:BP:79:VAL:HB	1.55	0.88
12:AM:78:ARG:HH21	12:AM:79:LEU:HG	1.37	0.88
33:DL:19:LEU:H	33:DL:19:LEU:HD22	1.36	0.88
36:DO:53:THR:O	36:DO:54:VAL:HB	1.70	0.88
37:DP:25:VAL:CG1	37:DP:88:ARG:H	1.87	0.88
49:D2:25:LYS:HD2	49:D2:25:LYS:H	1.38	0.88
13:AN:60:ARG:HH21	13:AN:62:ARG:HE	1.21	0.88
25:BC:30:ALA:N	25:BC:31:PRO:HD3	1.89	0.88
32:BK:70:ARG:HB3	32:BK:76:VAL:HG22	1.55	0.88
43:BW:42:THR:HB	43:BW:65:LYS:HA	1.56	0.88
52:BI:27:LEU:HD23	52:BI:27:LEU:H	1.37	0.88
27:DE:191:ASP:HA	27:DE:194:LYS:HE3	1.55	0.88
28:DF:128:SER:HB3	28:DF:154:THR:HG23	1.52	0.88
31:DJ:41:LYS:HD2	31:DJ:44:TYR:HB3	1.55	0.88
25:DC:124:LYS:HB2	25:DC:125:PRO:CD	2.02	0.88
20:AB:131:LYS:HA	20:AB:134:LEU:HD12	1.56	0.88
26:BD:8:LYS:HB3	37:BP:5:LYS:HZ1	1.37	0.88
38:BQ:30:VAL:HG12	38:BQ:32:ARG:H	1.37	0.88
45:BY:9:THR:HA	45:BY:55:LYS:HG3	1.55	0.88
11:CL:43:LYS:HB3	11:CL:44:PRO:CD	2.03	0.88
31:DJ:35:ARG:NH1	31:DJ:40:HIS:H	1.70	0.88
8:AI:34:LEU:HD11	8:AI:47:VAL:HG21	1.56	0.88
25:BC:53:ILE:HG12	25:BC:218:THR:HA	1.55	0.88
25:DC:32:LEU:HB3	25:DC:61:TYR:HE1	1.38	0.88
30:DH:31:VAL:HB	30:DH:32:PRO:HD3	1.55	0.88
31:DJ:102:GLU:HG3	31:DJ:124:VAL:HG12	1.53	0.88
52:DI:27:LEU:H	52:DI:27:LEU:HD23	1.38	0.88
25:BC:181:ARG:HH12	25:BC:260:LYS:HD2	1.38	0.88
36:BO:26:LEU:HB2	36:BO:93:ASP:HA	1.54	0.88
5:CF:47:LEU:HD12	5:CF:55:HIS:HA	1.56	0.88
39:DR:65:ALA:HB3	39:DR:100:GLY:H	1.35	0.88
50:D3:12:ARG:NE	50:D3:23:HIS:HB2	1.89	0.88
47:D0:12:ARG:HH21	47:D0:16:ARG:HG3	1.38	0.88
52:DI:11:GLN:HG2	52:DI:55:PRO:HB3	1.56	0.88
28:BF:33:ILE:HG22	28:BF:155:ILE:HG12	1.56	0.88
50:B3:7:ARG:HE	50:B3:11:LYS:HZ3	1.19	0.88
25:DC:28:PRO:HG2	25:DC:79:ARG:HH21	1.38	0.88
43:DW:60:ALA:HB3	43:DW:80:SER:HA	1.54	0.88
6:AG:112:ASP:HB2	6:AG:118:ARG:HG2	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:128:ALA:CB	27:BE:129:PRO:HD3	2.03	0.87
1:CA:451:A:H5'	15:CP:70:ARG:HH22	1.37	0.87
34:DM:33:LEU:HD11	34:DM:124:LEU:HD22	1.55	0.87
23:BB:997:G:H5'	38:BQ:91:ARG:HG3	1.56	0.87
36:BO:68:LYS:HD3	36:BO:68:LYS:H	1.40	0.87
1:CA:9:G:H5'	4:CE:107:GLY:HA3	1.55	0.87
23:DB:784:G:H5''	25:DC:225:ASN:HD21	1.38	0.87
31:DJ:84:ILE:HD12	31:DJ:85:LYS:H	1.36	0.87
39:DR:69:GLY:HA2	39:DR:97:LYS:H	1.39	0.87
23:BB:654:A:H2'	23:BB:655:A:H5''	1.55	0.87
29:BG:26:LYS:HA	29:BG:31:GLU:HG2	1.54	0.87
33:BL:111:ILE:HD13	33:BL:111:ILE:H	1.38	0.87
16:CQ:13:SER:HB3	16:CQ:21:VAL:HB	1.56	0.87
23:DB:1064:C:H4'	52:DI:90:GLY:HA2	1.56	0.87
23:DB:2527:C:H5''	51:D4:34:LYS:HG3	1.54	0.87
32:DK:43:ILE:HG12	32:DK:52:VAL:HG13	1.54	0.87
11:AL:8:ARG:HG3	11:AL:9:LYS:H	1.40	0.87
21:AU:13:VAL:HG13	21:AU:14:ALA:H	1.38	0.87
23:BB:997:G:OP1	38:BQ:92:LYS:HD2	1.74	0.87
46:BZ:36:VAL:HA	46:BZ:42:PRO:HD3	1.55	0.87
13:CN:26:LEU:HG	13:CN:44:VAL:HG22	1.57	0.87
37:DP:36:LYS:HG2	37:DP:37:LYS:H	1.38	0.87
48:D1:49:LYS:H	48:D1:49:LYS:HZ2	1.22	0.87
23:BB:1141:U:H4'	23:BB:1142:A:O4'	1.74	0.87
37:BP:24:THR:HG21	37:BP:111:GLU:HG2	1.55	0.87
1:CA:243:A:H4'	1:CA:244:U:H5'	1.57	0.87
14:CO:69:LEU:HD11	14:CO:76:ARG:HB3	1.56	0.87
21:CU:14:ALA:H	21:CU:16:ARG:NH2	1.71	0.87
34:DM:5:LYS:HZ1	34:DM:8:LYS:HB2	1.37	0.87
37:BP:108:ARG:HD2	37:BP:108:ARG:H	1.38	0.87
8:CI:51:LEU:HB3	8:CI:56:MET:HG2	1.54	0.87
23:DB:2305:U:H5''	28:DF:130:GLY:HA3	1.55	0.87
30:DH:31:VAL:HA	30:DH:36:ALA:HA	1.55	0.87
37:BP:26:GLU:HB3	37:BP:46:VAL:HG22	1.55	0.87
28:DF:56:LEU:HA	28:DF:59:ILE:HG22	1.57	0.87
3:AD:60:VAL:HA	3:AD:63:ILE:HD12	1.57	0.87
36:BO:8:ILE:HG22	36:BO:10:ARG:HG2	1.56	0.87
52:BI:105:LEU:HD11	52:BI:139:VAL:HG11	1.54	0.87
23:DB:972:A:H3'	23:DB:973:A:H5''	1.53	0.87
37:DP:31:VAL:HG13	37:DP:81:ASP:HB3	1.57	0.87
46:DZ:54:GLY:H	46:DZ:57:VAL:HG23	1.40	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:52:ARG:HH11	17:AR:52:ARG:HB3	1.40	0.86
23:DB:2502:G:H5'	23:DB:2503:A:H5''	1.57	0.86
46:BZ:41:HIS:HB2	46:BZ:42:PRO:HD2	1.58	0.86
31:DJ:35:ARG:HH12	31:DJ:40:HIS:N	1.72	0.86
46:DZ:59:ARG:HB3	46:DZ:63:ARG:HB2	1.56	0.86
52:DI:25:PRO:O	52:DI:29:GLN:HG3	1.75	0.86
15:AP:46:LYS:HD3	15:AP:46:LYS:H	1.39	0.86
29:BG:32:LEU:HD21	29:BG:74:MET:HB3	1.57	0.86
28:DF:39:VAL:HA	28:DF:84:ILE:HB	1.57	0.86
25:DC:220:ARG:CZ	25:DC:220:ARG:HA	2.05	0.86
33:DL:7:SER:CB	33:DL:8:PRO:HD3	2.03	0.86
26:BD:14:ILE:HA	26:BD:19:GLY:HA2	1.58	0.86
23:DB:654:A:H2'	23:DB:655:A:H5''	1.57	0.86
28:DF:116:LEU:HD22	28:DF:129:MET:HE3	1.58	0.86
21:AU:14:ALA:HA	21:AU:16:ARG:HH11	1.03	0.86
23:BB:2502:G:H5'	23:BB:2503:A:H5''	1.57	0.86
25:BC:143:VAL:HG12	25:BC:144:GLU:H	1.40	0.86
21:CU:3:ILE:HG12	21:CU:19:LYS:HB3	1.57	0.86
23:DB:1060:U:H5	52:DI:131:THR:HG22	1.38	0.86
43:DW:46:ALA:HB2	43:DW:77:LYS:HD3	1.58	0.86
23:BB:143:C:O2'	41:BT:5:GLU:HA	1.75	0.86
23:BB:161:A:H3'	23:BB:162:U:H5''	1.56	0.86
23:BB:855:G:N2	43:BW:23:LYS:HD2	1.91	0.86
27:BE:48:THR:CG2	27:BE:49:ARG:H	1.79	0.86
52:BI:25:PRO:O	52:BI:29:GLN:HG2	1.75	0.86
23:DB:27:G:H22	23:DB:512:G:H2'	1.39	0.86
42:DU:66:VAL:HG22	42:DU:67:SER:H	1.39	0.86
3:AD:160:LEU:H	3:AD:160:LEU:HD13	1.41	0.85
39:BR:1:MET:HA	39:BR:46:GLU:HB2	1.58	0.85
52:DI:27:LEU:HD12	52:DI:32:VAL:HG11	1.56	0.85
34:BM:69:PRO:HB3	34:BM:93:VAL:HG12	1.58	0.85
18:CS:63:ASP:HB3	28:DF:114:ARG:HH22	1.39	0.85
20:CB:163:ILE:HG23	20:CB:164:ASP:H	1.39	0.85
23:DB:1080:A:H2'	23:DB:1081:U:H6	1.40	0.85
43:DW:20:LEU:HD11	43:DW:31:LEU:HB2	1.56	0.85
20:AB:163:ILE:HG23	20:AB:164:ASP:N	1.92	0.85
30:BH:84:ALA:HA	30:BH:90:LEU:HG	1.59	0.85
46:BZ:63:ARG:CZ	46:BZ:63:ARG:HA	2.06	0.85
3:CD:63:ILE:HG23	3:CD:64:TYR:HD1	1.41	0.85
39:DR:4:VAL:HG12	39:DR:43:ASN:HB3	1.58	0.85
25:BC:196:ASN:HB2	25:BC:199:HIS:HD2	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:229:HIS:NE2	25:BC:244:VAL:HG22	1.91	0.85
1:AA:1422:G:H5'	32:BK:48:PRO:HB3	1.59	0.85
23:BB:704:G:H2'	23:BB:726:G:H22	1.41	0.85
23:BB:1639:C:H2'	23:BB:1640:A:H5''	1.58	0.85
23:BB:2578:G:C1'	26:BD:145:SER:HB3	2.06	0.85
23:DB:448:U:H3'	27:DE:79:ARG:HE	1.41	0.85
25:DC:12:ARG:HB2	25:DC:20:ASN:HA	1.55	0.85
47:DO:53:VAL:HG13	47:DO:54:ILE:HG13	1.57	0.85
21:AU:14:ALA:C	21:AU:16:ARG:NE	2.30	0.85
23:BB:528:A:N1	23:BB:2042:A:H2'	1.91	0.85
23:BB:1368:G:H5'	49:B2:25:LYS:HD3	1.59	0.85
23:DB:1064:C:C4'	52:DI:90:GLY:HA2	2.05	0.85
43:DW:42:THR:HB	43:DW:75:ASN:HB3	1.58	0.85
45:DY:6:ILE:HG13	45:DY:35:VAL:H	1.38	0.85
23:DB:858:G:N3	23:DB:2268:A:H2'	1.92	0.85
37:DP:25:VAL:HG11	37:DP:87:ARG:HA	1.56	0.85
40:DS:21:ALA:HB1	40:DS:74:ILE:HD12	1.57	0.85
43:DW:35:ILE:H	43:DW:35:ILE:HD12	1.42	0.85
29:DG:171:LYS:HD3	29:DG:174:LYS:HD3	1.56	0.85
35:DN:3:HIS:HB3	35:DN:4:ARG:CZ	2.06	0.85
51:D4:23:ILE:HD12	51:D4:24:ARG:H	1.41	0.85
28:BF:115:GLY:HA3	28:BF:177:ARG:HB2	1.58	0.85
10:CK:78:ILE:H	10:CK:78:ILE:HD13	1.41	0.85
20:CB:101:THR:HA	20:CB:178:LEU:HD21	1.58	0.85
26:DD:17:GLU:HG3	37:DP:80:VAL:HG12	1.58	0.85
26:DD:122:VAL:HA	26:DD:128:ARG:HG3	1.57	0.85
23:BB:1454:C:H5'	35:BN:63:ARG:HH21	1.41	0.85
24:DV:72:VAL:HG12	24:DV:93:ARG:HA	1.58	0.85
27:DE:149:ILE:HD11	27:DE:187:VAL:H	1.41	0.85
36:DO:38:GLN:HA	36:DO:50:ALA:HB3	1.57	0.85
36:DO:66:GLY:H	36:DO:70:ALA:HB2	1.40	0.85
7:AH:54:THR:HG23	7:AH:55:LYS:HG2	1.59	0.84
8:AI:29:ILE:HG22	8:AI:64:ILE:HB	1.57	0.84
11:AL:48:LEU:HD23	11:AL:48:LEU:H	1.42	0.84
15:AP:20:VAL:HG23	15:AP:35:ARG:HA	1.57	0.84
40:BS:18:ARG:HH12	40:BS:25:ARG:HH22	1.21	0.84
23:BB:2304:G:H22	23:BB:2312:U:H3	1.26	0.84
27:BE:141:MET:SD	27:BE:143:LEU:HB2	2.17	0.84
23:DB:1098:A:H3'	52:DI:3:LYS:C	1.96	0.84
36:DO:58:ILE:HG13	36:DO:60:GLU:H	1.40	0.84
1:AA:699:C:H2'	1:AA:700:G:H5''	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:38:LYS:HG2	26:BD:39:ASP:H	1.42	0.84
33:BL:82:LEU:HD13	33:BL:83:ALA:H	1.39	0.84
8:CI:118:ARG:HH21	8:CI:122:ARG:HE	1.21	0.84
9:CJ:6:ILE:HD11	9:CJ:79:PRO:HB3	1.60	0.84
25:DC:21:PRO:N	25:DC:202:ARG:HD2	1.92	0.84
21:AU:14:ALA:O	21:AU:16:ARG:CD	2.25	0.84
24:BV:77:VAL:HA	24:BV:89:ILE:HG22	1.58	0.84
26:BD:115:GLY:HA2	26:BD:165:MET:HG3	1.58	0.84
36:BO:19:GLN:HA	43:BW:76:ARG:HH22	1.42	0.84
23:DB:2597:G:H5''	25:DC:239:PHE:HB2	1.58	0.84
29:DG:8:VAL:HB	29:DG:49:LEU:HD12	1.57	0.84
31:DJ:81:ILE:HG13	31:DJ:82:GLY:N	1.91	0.84
47:D0:26:SER:HB2	47:D0:38:LEU:HD21	1.59	0.84
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.76	0.84
23:BB:1060:U:C2	23:BB:1088:A:N7	2.46	0.84
6:CG:87:PRO:HG3	6:CG:148:LYS:HA	1.57	0.84
37:BP:47:ILE:HG23	37:BP:63:ILE:HG23	1.59	0.84
23:DB:1198:U:H4'	38:DQ:8:ILE:HD11	1.60	0.84
23:DB:1639:C:H2'	23:DB:1640:A:H5''	1.56	0.84
23:DB:2484:G:H1'	34:DM:119:LEU:HD12	1.60	0.84
34:DM:29:GLY:H	34:DM:102:LEU:HD12	1.39	0.84
16:AQ:27:PHE:HB3	16:AQ:36:PHE:HB3	1.59	0.84
33:BL:29:LYS:HD2	33:BL:31:GLY:H	1.42	0.84
1:AA:664:G:H22	1:AA:741:G:H1	1.25	0.84
9:AJ:8:ILE:HD12	9:AJ:100:ILE:HG22	1.58	0.84
20:AB:33:ALA:HA	20:AB:38:HIS:HA	1.59	0.84
38:BQ:33:VAL:HG13	38:BQ:34:ALA:H	1.40	0.84
21:CU:34:ARG:HG2	21:CU:35:GLU:H	1.43	0.84
34:DM:33:LEU:HB3	34:DM:101:VAL:HG21	1.57	0.84
2:AC:146:LYS:HE3	2:AC:202:PHE:HE2	1.42	0.84
20:AB:202:ASN:HD22	20:AB:204:ASP:H	1.26	0.84
23:BB:662:G:H4'	33:BL:24:GLY:H	1.43	0.84
27:BE:153:LEU:H	27:BE:171:ASP:HB3	1.42	0.84
4:CE:36:THR:HG21	4:CE:63:MET:HG2	1.60	0.84
23:DB:1060:U:C2	23:DB:1088:A:N7	2.46	0.84
34:DM:11:LYS:O	34:DM:12:MET:HB2	1.77	0.84
43:DW:42:THR:HG23	43:DW:66:VAL:H	1.40	0.84
38:BQ:16:ILE:HD13	38:BQ:34:ALA:HB2	1.57	0.83
49:B2:13:ASN:HA	49:B2:18:PHE:HB2	1.60	0.83
23:DB:1098:A:C2'	52:DI:4:VAL:N	2.41	0.83
31:BJ:71:ASP:CG	31:BJ:72:LYS:H	1.80	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:135:GLN:HG2	31:BJ:137:PRO:HD2	1.60	0.83
34:BM:42:THR:HA	34:BM:92:TRP:CD1	2.12	0.83
26:DD:197:THR:HG23	26:DD:198:GLY:H	1.43	0.83
51:D4:26:ILE:HG13	51:D4:35:GLN:N	1.93	0.83
23:BB:2053:G:OP1	26:BD:150:GLN:HA	1.78	0.83
26:BD:34:VAL:HG22	26:BD:89:GLU:HG2	1.58	0.83
41:BT:64:LYS:HB3	41:BT:77:ARG:HD3	1.59	0.83
30:DH:86:ASP:HB2	30:DH:89:LYS:HD3	1.59	0.83
33:DL:27:LEU:HG	33:DL:28:GLY:N	1.92	0.83
34:DM:15:GLY:O	34:DM:16:ARG:HG3	1.79	0.83
1:AA:243:A:H4'	1:AA:244:U:H5'	1.59	0.83
21:AU:14:ALA:O	21:AU:16:ARG:CZ	2.25	0.83
23:BB:858:G:N3	23:BB:2268:A:H2'	1.93	0.83
28:BF:151:LEU:HD23	28:BF:153:ILE:HD11	1.60	0.83
29:BG:19:ASN:HB3	29:BG:22:VAL:HG13	1.59	0.83
23:DB:1309:G:H4'	49:D2:7:PRO:HB2	1.59	0.83
39:DR:47:VAL:HG12	39:DR:49:ILE:HG12	1.61	0.83
41:DT:66:LYS:H	41:DT:76:ARG:HH21	1.26	0.83
11:AL:56:LEU:HD11	11:AL:81:ILE:HD12	1.60	0.83
33:BL:63:LYS:HG3	50:B3:11:LYS:HA	1.59	0.83
21:CU:14:ALA:H	21:CU:16:ARG:HH22	1.26	0.83
23:DB:996:A:H5''	38:DQ:93:ILE:HG21	1.57	0.83
23:DB:1098:A:P	52:DI:3:LYS:HG2	2.18	0.83
25:DC:171:VAL:HB	25:DC:182:LYS:HB3	1.61	0.83
44:DX:18:LEU:HD22	44:DX:18:LEU:H	1.42	0.83
15:CP:4:ILE:HG12	15:CP:21:VAL:HG22	1.60	0.83
26:DD:29:VAL:HG22	26:DD:30:GLU:H	1.42	0.83
41:DT:76:ARG:HG2	41:DT:77:ARG:O	1.78	0.83
23:DB:2886:A:N7	47:D0:27:LEU:HG	1.92	0.83
51:D4:3:VAL:HG12	51:D4:4:ARG:H	1.42	0.83
10:AK:126:ARG:HB2	21:AU:33:ARG:HD2	1.61	0.83
26:BD:62:LYS:HG2	26:BD:63:PRO:HD3	1.60	0.83
34:BM:126:ILE:HG13	34:BM:127:LYS:H	1.43	0.83
1:CA:1306:A:H61	1:CA:1331:G:H1'	1.41	0.83
52:DI:72:THR:HG21	52:DI:112:LYS:HA	1.61	0.83
23:BB:27:G:H22	23:BB:512:G:H2'	1.42	0.83
23:BB:630:G:H1	33:BL:69:ARG:HH22	1.22	0.83
25:BC:23:LEU:HD12	25:BC:202:ARG:HH22	1.43	0.83
27:BE:18:THR:HG23	27:BE:20:GLY:H	1.41	0.83
41:BT:64:LYS:HE2	41:BT:79:ASP:HB2	1.59	0.83
23:DB:2867:G:H2'	23:DB:2867:G:N3	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:121:VAL:HG23	30:DH:122:LEU:HD23	1.59	0.83
23:BB:2618:G:H21	26:BD:155:VAL:HG21	1.44	0.82
25:BC:23:LEU:H	25:BC:202:ARG:NH2	1.77	0.82
41:BT:58:VAL:HG13	41:BT:85:VAL:HG12	1.61	0.82
39:BR:5:PHE:HA	39:BR:40:MET:HG2	1.61	0.82
10:CK:28:ASN:HD21	10:CK:47:GLY:H	1.24	0.82
44:BX:22:LEU:HB3	44:BX:26:PHE:HB2	1.61	0.82
1:CA:1320:C:H5''	18:CS:2:ARG:HD3	1.61	0.82
6:CG:12:LEU:HD22	6:CG:13:PRO:HD2	1.62	0.82
23:DB:2377:A:N6	36:DO:13:ARG:HH21	1.77	0.82
41:DT:66:LYS:N	41:DT:76:ARG:HH21	1.77	0.82
14:AO:25:GLU:HG3	14:AO:80:LEU:HD12	1.58	0.82
43:BW:40:ARG:HH12	43:BW:68:PHE:HA	1.44	0.82
46:BZ:32:LEU:HD11	46:BZ:47:LYS:HG3	1.58	0.82
50:B3:11:LYS:HG2	50:B3:12:ARG:HG3	1.61	0.82
9:CJ:66:GLU:HB2	13:CN:98:ALA:HB2	1.60	0.82
23:DB:2091:C:H3'	23:DB:2092:U:H5''	1.60	0.82
29:DG:171:LYS:HD2	29:DG:172:GLU:O	1.77	0.82
31:DJ:84:ILE:CD1	31:DJ:85:LYS:H	1.92	0.82
32:DK:19:VAL:HG12	32:DK:43:ILE:HA	1.60	0.82
52:DI:105:LEU:HD13	52:DI:129:GLU:HG2	1.61	0.82
4:AE:105:ILE:HB	4:AE:123:LEU:HA	1.61	0.82
23:BB:2393:U:H5''	33:BL:62:PRO:HA	1.62	0.82
25:BC:229:HIS:HE2	25:BC:244:VAL:HG22	1.43	0.82
26:BD:119:ALA:HA	26:BD:123:LYS:HE2	1.60	0.82
30:BH:5:LEU:HD22	30:BH:5:LEU:H	1.44	0.82
33:BL:117:THR:HG21	33:BL:120:VAL:HB	1.61	0.82
50:B3:12:ARG:NH1	50:B3:12:ARG:HB2	1.95	0.82
1:CA:699:C:H2'	1:CA:700:G:H5''	1.59	0.82
13:CN:63:CYS:HB3	13:CN:68:ARG:H	1.43	0.82
38:DQ:97:ILE:HD12	39:DR:13:ARG:NE	1.94	0.82
20:AB:67:LEU:HD12	20:AB:153:MET:HE2	1.60	0.82
23:DB:1083:U:H1'	23:DB:1086:A:H61	1.44	0.82
23:DB:2143:C:H2'	23:DB:2144:G:O4'	1.80	0.82
25:DC:68:ARG:NH2	25:DC:127:ASN:HA	1.93	0.82
46:DZ:24:ILE:HD13	46:DZ:24:ILE:H	1.43	0.82
14:AO:6:ALA:HA	14:AO:9:LYS:HE3	1.58	0.82
37:DP:47:ILE:HG22	37:DP:48:ALA:N	1.95	0.82
37:DP:50:ARG:HB2	37:DP:50:ARG:HH11	1.45	0.82
42:DU:27:VAL:HG12	42:DU:33:VAL:HG13	1.60	0.82
33:BL:118:THR:HG23	33:BL:119:PRO:HD3	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:40:ARG:NH1	43:BW:68:PHE:HA	1.95	0.82
21:AU:13:VAL:C	21:AU:16:ARG:HH12	1.81	0.82
36:BO:1:MET:HG2	36:BO:3:LYS:H	1.43	0.82
51:B4:3:VAL:HB	51:B4:35:GLN:HA	1.62	0.82
29:DG:41:GLU:HG3	29:DG:54:ARG:HH21	1.45	0.82
30:DH:2:GLN:HB2	30:DH:19:VAL:HA	1.59	0.82
6:AG:21:LEU:HD23	6:AG:21:LEU:H	1.45	0.82
23:BB:2575:C:H4'	26:BD:149:ASN:N	1.95	0.82
23:BB:2867:G:H2'	23:BB:2867:G:N3	1.93	0.82
28:BF:107:VAL:N	28:BF:108:PRO:HD2	1.95	0.82
33:BL:67:THR:HG23	33:BL:68:SER:H	1.45	0.82
36:BO:19:GLN:H	43:BW:76:ARG:HH12	1.28	0.82
20:CB:218:ALA:HA	20:CB:221:ARG:HD3	1.61	0.82
23:DB:1099:G:C8	52:DI:3:LYS:CB	2.60	0.82
5:AF:64:VAL:HG12	5:AF:65:GLU:H	1.45	0.81
34:BM:67:VAL:HB	34:BM:100:LYS:HG2	1.62	0.81
52:BI:55:PRO:HD3	52:BI:74:PRO:HD3	1.60	0.81
23:DB:589:U:H4'	27:DE:87:ALA:HB2	1.62	0.81
30:DH:94:ILE:HG22	30:DH:122:LEU:HG	1.62	0.81
33:DL:78:ARG:HH11	33:DL:78:ARG:HB3	1.43	0.81
5:AF:53:LYS:HZ3	5:AF:53:LYS:HA	1.45	0.81
26:BD:16:THR:HG23	26:BD:17:GLU:H	1.43	0.81
43:BW:27:GLY:HA2	43:BW:60:ALA:HA	1.61	0.81
4:CE:89:THR:HG22	4:CE:91:SER:H	1.44	0.81
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.15	0.81
20:AB:61:SER:HA	20:AB:224:ARG:HA	1.62	0.81
27:BE:89:PRO:O	27:BE:90:GLN:HG2	1.78	0.81
38:BQ:93:ILE:HG23	38:BQ:94:LEU:HD13	1.61	0.81
39:BR:37:GLU:HG2	39:BR:62:GLU:H	1.44	0.81
39:BR:65:ALA:HB3	39:BR:99:THR:H	1.45	0.81
47:B0:52:LYS:HZ3	47:B0:52:LYS:HA	1.44	0.81
1:CA:1311:A:H62	18:CS:1:PRO:HD3	1.45	0.81
1:CA:1367:C:H5''	8:CI:115:VAL:HG23	1.60	0.81
23:DB:1098:A:C3'	52:DI:3:LYS:C	2.48	0.81
27:DE:142:ALA:H	27:DE:185:LYS:HZ1	1.23	0.81
31:DJ:135:GLN:NE2	31:DJ:138:GLN:H	1.78	0.81
28:BF:7:TYR:HA	28:BF:11:VAL:HB	1.60	0.81
39:BR:8:GLY:HA3	39:BR:22:LEU:HD11	1.60	0.81
43:BW:43:LYS:HG2	43:BW:76:ARG:HH21	1.44	0.81
1:CA:664:G:H22	1:CA:741:G:H1	1.26	0.81
1:CA:719:C:H1'	17:CR:37:LYS:HB2	1.59	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:547:A:H2'	23:DB:547:A:N3	1.94	0.81
1:AA:33:A:H1'	11:AL:27:PRO:HG3	1.61	0.81
23:BB:423:A:H5'	23:BB:424:G:H5''	1.62	0.81
25:BC:155:ARG:HE	25:BC:157:ALA:HB3	1.44	0.81
34:BM:108:VAL:HG23	34:BM:112:LEU:HD11	1.63	0.81
11:CL:84:GLY:H	11:CL:94:TYR:HA	1.45	0.81
23:DB:28:A:H61	23:DB:512:G:H1'	1.44	0.81
23:DB:1099:G:C8	52:DI:3:LYS:CA	2.60	0.81
23:DB:1199:U:H2'	23:DB:1200:C:C6	2.15	0.81
23:DB:2574:G:H21	26:DD:147:GLY:CA	1.92	0.81
38:DQ:85:ALA:HB3	38:DQ:88:GLU:HG3	1.60	0.81
43:DW:43:LYS:O	43:DW:44:PHE:HB2	1.79	0.81
51:D4:34:LYS:HE2	51:D4:36:ARG:HH22	1.44	0.81
23:BB:28:A:H61	23:BB:512:G:H1'	1.46	0.81
23:BB:855:G:H21	43:BW:23:LYS:HD2	1.45	0.81
34:BM:32:GLY:H	34:BM:128:THR:HG22	1.44	0.81
38:BQ:16:ILE:HD12	38:BQ:17:LEU:N	1.95	0.81
43:BW:28:GLU:H	43:BW:61:LYS:HB2	1.44	0.81
44:BX:24:GLU:HA	44:BX:28:LEU:HB2	1.60	0.81
46:BZ:33:ASN:HB2	46:BZ:44:PHE:HB2	1.60	0.81
23:DB:1060:U:C5	52:DI:131:THR:HG22	2.16	0.81
27:DE:112:LEU:HD12	27:DE:115:GLN:HE21	1.45	0.81
32:DK:2:ILE:HD13	32:DK:6:THR:HG21	1.61	0.81
31:DJ:133:ALA:HA	31:DJ:136:GLN:HB2	1.61	0.81
39:DR:66:HIS:HA	39:DR:98:ILE:HA	1.63	0.81
23:BB:1131:G:H1'	23:BB:1133:A:H62	1.46	0.81
23:BB:2478:A:H5'	51:B4:32:LYS:HD2	1.60	0.81
23:BB:2572:A:N7	26:BD:150:GLN:HB2	1.96	0.81
9:CJ:83:THR:HG23	9:CJ:87:LEU:HD23	1.61	0.81
13:CN:40:ARG:HH12	18:CS:5:LYS:HB2	1.44	0.81
15:CP:4:ILE:HD13	15:CP:57:ILE:HG12	1.63	0.81
23:DB:365:U:H2'	23:DB:366:C:C6	2.16	0.81
23:DB:1199:U:H2'	23:DB:1200:C:H6	1.45	0.81
23:DB:2046:G:H5'	47:D0:15:ARG:HD2	1.61	0.81
31:DJ:81:ILE:HG23	31:DJ:82:GLY:H	1.46	0.81
33:DL:124:GLY:H	33:DL:142:ILE:HA	1.43	0.81
38:DQ:39:ILE:HG13	38:DQ:40:LYS:N	1.96	0.81
3:AD:36:ALA:HA	3:AD:41:GLY:HA3	1.61	0.81
23:BB:1178:C:H2'	23:BB:1179:G:C8	2.16	0.81
40:BS:27:LYS:HD2	40:BS:27:LYS:H	1.46	0.81
5:CF:47:LEU:HD13	5:CF:51:ILE:HG22	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:98:GLU:HB3	31:DJ:124:VAL:HB	1.62	0.81
2:AC:49:ALA:HB1	2:AC:75:VAL:HG22	1.63	0.80
30:BH:3:VAL:HB	30:BH:37:VAL:CB	2.10	0.80
52:BI:89:SER:HA	52:BI:97:VAL:HG21	1.62	0.80
28:DF:107:VAL:N	28:DF:108:PRO:CD	2.40	0.80
38:DQ:39:ILE:HG13	38:DQ:40:LYS:H	1.45	0.80
2:AC:155:ARG:H	2:AC:162:ALA:HA	1.45	0.80
26:BD:62:LYS:HG2	26:BD:63:PRO:CD	2.10	0.80
35:BN:119:SER:HB2	35:BN:121:LYS:HG2	1.63	0.80
48:B1:14:ALA:HA	48:B1:48:TYR:HA	1.61	0.80
13:CN:82:LYS:HE2	13:CN:85:GLU:HG3	1.61	0.80
23:DB:142:A:H2'	23:DB:143:C:C6	2.16	0.80
24:DV:63:ILE:H	24:DV:70:ILE:HD11	1.44	0.80
28:DF:53:ALA:HB1	28:DF:64:PRO:HG2	1.63	0.80
43:BW:31:LEU:HD11	43:BW:34:SER:HB2	1.61	0.80
52:BI:106:GLN:O	52:BI:110:GLN:HG3	1.81	0.80
4:CE:110:MET:SD	4:CE:126:ALA:HB2	2.22	0.80
23:DB:1098:A:C3'	52:DI:4:VAL:N	2.44	0.80
26:DD:15:PHE:HA	37:DP:79:VAL:HG11	1.64	0.80
26:DD:48:ILE:HA	26:DD:80:TRP:HB3	1.63	0.80
27:DE:149:ILE:HG12	27:DE:186:VAL:HA	1.62	0.80
1:AA:1409:C:N4	1:AA:1491:G:H1	1.79	0.80
12:AM:33:LEU:HD22	12:AM:38:ILE:HB	1.61	0.80
36:BO:50:ALA:HB2	36:BO:83:LEU:HD11	1.64	0.80
45:BY:7:THR:HA	45:BY:34:THR:HA	1.63	0.80
1:CA:1399:C:H4'	1:CA:1400:C:H5''	1.63	0.80
3:CD:58:GLN:HE21	3:CD:58:GLN:HA	1.45	0.80
9:CJ:40:ILE:HD11	9:CJ:73:LEU:HD12	1.62	0.80
22:DA:38:C:H4'	36:DO:100:HIS:NE2	1.96	0.80
23:DB:2880:C:H1'	35:DN:92:GLY:O	1.80	0.80
43:DW:56:HIS:HA	43:DW:77:LYS:HE2	1.60	0.80
52:DI:45:THR:HA	52:DI:48:ILE:HG22	1.61	0.80
19:AT:30:PHE:HB3	19:AT:53:MET:HB3	1.63	0.80
23:BB:38:A:H2'	23:BB:39:G:O4'	1.82	0.80
26:BD:22:ILE:N	26:BD:23:PRO:HD3	1.97	0.80
26:BD:120:GLY:H	26:BD:123:LYS:HG3	1.47	0.80
39:BR:1:MET:HA	39:BR:46:GLU:CB	2.11	0.80
9:CJ:9:ARG:HB2	9:CJ:99:GLN:H	1.47	0.80
25:DC:124:LYS:CB	25:DC:125:PRO:HD3	2.10	0.80
37:DP:50:ARG:HB2	37:DP:50:ARG:NH1	1.97	0.80
47:D0:41:HIS:CG	47:D0:42:ILE:H	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:35:GLN:HB2	9:AJ:78:GLU:HB2	1.64	0.80
14:AO:7:THR:HG22	14:AO:30:LEU:HD11	1.62	0.80
30:BH:37:VAL:H	30:BH:38:PRO:HD2	1.47	0.80
43:BW:28:GLU:HB3	43:BW:30:VAL:HG23	1.63	0.80
1:CA:1342:C:H5'	8:CI:127:SER:HB3	1.64	0.80
2:CC:69:THR:HG22	2:CC:71:ARG:H	1.47	0.80
26:DD:121:THR:HG21	26:DD:143:PRO:HD3	1.63	0.80
26:DD:130:GLN:HB3	26:DD:140:HIS:HA	1.64	0.80
34:DM:41:LEU:HB3	34:DM:93:VAL:HB	1.64	0.80
52:DI:72:THR:HG22	52:DI:115:ASP:OD2	1.81	0.80
23:BB:444:C:O2'	27:BE:47:LYS:HE2	1.81	0.80
26:BD:91:THR:HG23	26:BD:92:VAL:HG12	1.61	0.80
30:BH:73:ASN:N	30:BH:73:ASN:HD22	1.80	0.80
40:BS:89:ALA:HA	40:BS:90:LYS:NZ	1.97	0.80
52:BI:122:GLU:O	52:BI:126:ARG:HG3	1.82	0.80
25:DC:50:THR:HG22	25:DC:51:ARG:HG3	1.64	0.80
46:DZ:1:MET:HA	46:DZ:9:TYR:CE1	2.17	0.80
50:B3:31:ILE:HG22	50:B3:32:LEU:HG	1.64	0.80
23:DB:919:U:H2'	23:DB:920:A:C8	2.17	0.80
40:DS:64:ALA:H	40:DS:110:ARG:NH2	1.80	0.80
45:BY:15:ARG:HE	45:BY:15:ARG:N	1.79	0.80
27:DE:152:GLU:HB2	27:DE:158:PHE:HE1	1.45	0.80
1:AA:1211:U:H4'	1:AA:1213:A:H1'	1.64	0.79
3:AD:159:GLU:HG3	3:AD:160:LEU:N	1.94	0.79
23:BB:2795:C:H2'	23:BB:2796:U:O4'	1.82	0.79
36:BO:49:VAL:HG22	36:BO:50:ALA:H	1.47	0.79
33:DL:63:LYS:HB2	50:D3:26:ALA:HB2	1.64	0.79
47:D0:27:LEU:H	47:D0:27:LEU:HD22	1.46	0.79
13:CN:50:LEU:H	13:CN:51:PRO:HD2	1.45	0.79
37:DP:90:ALA:H	37:DP:112:ARG:NH2	1.81	0.79
39:DR:76:LYS:HD2	39:DR:90:ARG:HB3	1.64	0.79
16:AQ:10:ARG:NH1	16:AQ:56:ASP:H	1.79	0.79
16:AQ:10:ARG:CZ	16:AQ:11:VAL:H	1.95	0.79
25:BC:50:THR:HG22	25:BC:51:ARG:HG3	1.63	0.79
26:BD:2:ILE:HG13	26:BD:3:GLY:H	1.48	0.79
26:BD:5:VAL:HG11	26:BD:28:GLU:HA	1.64	0.79
51:B4:24:ARG:HH12	51:B4:36:ARG:HB2	1.48	0.79
25:DC:21:PRO:HD2	25:DC:202:ARG:NH1	1.98	0.79
43:DW:23:LYS:HD3	43:DW:24:ARG:HD2	1.64	0.79
7:AH:92:PRO:HA	7:AH:93:LYS:HZ2	1.48	0.79
23:BB:1174:U:H4'	23:BB:1176:U:H3	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:49:ASP:HA	31:BJ:114:LEU:HD11	1.64	0.79
33:BL:38:GLN:CD	33:BL:39:LYS:H	1.86	0.79
37:BP:9:GLN:HB3	37:BP:56:SER:HB2	1.62	0.79
23:DB:2346:A:H3'	23:DB:2347:C:H5''	1.64	0.79
38:DQ:47:ARG:HH12	38:DQ:50:ARG:HG3	1.46	0.79
25:BC:77:VAL:HG21	25:BC:109:LEU:HG	1.64	0.79
36:BO:64:TYR:HE1	36:BO:74:VAL:HG11	1.47	0.79
23:DB:929:U:H4'	45:DY:2:LYS:HE3	1.62	0.79
23:DB:2526:G:H21	51:D4:2:LYS:HD2	1.47	0.79
25:DC:75:ALA:HB1	25:DC:93:VAL:HG13	1.65	0.79
31:DJ:81:ILE:HG23	31:DJ:82:GLY:N	1.97	0.79
33:DL:6:LEU:HG	33:DL:8:PRO:O	1.82	0.79
1:AA:1005:A:H2'	1:AA:1006:G:O4'	1.82	0.79
4:AE:87:VAL:HG12	4:AE:92:ARG:HA	1.64	0.79
14:AO:2:LEU:HD22	14:AO:7:THR:HG23	1.65	0.79
20:AB:150:ILE:HG13	20:AB:153:MET:HE3	1.64	0.79
26:DD:204:LYS:HB3	26:DD:205:PRO:HD2	1.65	0.79
44:DX:43:LEU:HB3	44:DX:45:GLN:HE22	1.48	0.79
46:DZ:30:HIS:HB2	46:DZ:48:GLN:HG2	1.64	0.79
9:AJ:56:HIS:H	13:AN:80:ARG:HH22	1.30	0.79
21:AU:13:VAL:C	21:AU:16:ARG:NH1	2.35	0.79
23:BB:1024:G:H3'	23:BB:1025:G:H5''	1.63	0.79
27:BE:120:VAL:H	27:BE:189:THR:HG23	1.47	0.79
34:BM:69:PRO:HB2	34:BM:71:LYS:HZ1	1.46	0.79
37:BP:13:LYS:NZ	37:BP:17:PRO:HG3	1.98	0.79
43:BW:49:ASN:HB2	43:BW:53:GLY:HA3	1.64	0.79
51:B4:14:CYS:HA	51:B4:26:ILE:O	1.82	0.79
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.47	0.79
4:CE:109:ALA:HB1	4:CE:136:VAL:HG13	1.65	0.79
8:CI:113:LYS:HA	8:CI:120:ALA:HB2	1.65	0.79
9:CJ:52:LEU:HG	9:CJ:62:ARG:HE	1.48	0.79
11:CL:98:ARG:HG3	11:CL:105:GLY:HA2	1.65	0.79
23:DB:1099:G:H8	52:DI:3:LYS:N	1.73	0.79
21:AU:14:ALA:N	21:AU:16:ARG:HH12	1.81	0.79
23:BB:65:U:H4'	41:BT:70:HIS:HD1	1.48	0.79
36:BO:19:GLN:HA	43:BW:76:ARG:NH2	1.98	0.79
47:B0:52:LYS:HA	47:B0:52:LYS:NZ	1.98	0.79
1:CA:1296:C:H4'	1:CA:1302:C:N4	1.98	0.79
23:DB:2314:A:H1'	28:DF:154:THR:HG21	1.64	0.79
25:DC:229:HIS:ND1	25:DC:230:PRO:HD2	1.98	0.79
32:DK:108:ARG:HA	32:DK:116:ILE:HD13	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:112:ARG:O	20:AB:116:LEU:HB2	1.82	0.79
21:AU:36:PHE:HB3	21:AU:40:PRO:HD3	1.64	0.79
23:BB:287:G:H2'	23:BB:288:U:C6	2.18	0.79
25:BC:140:VAL:O	25:BC:193:GLU:HB2	1.83	0.79
28:BF:34:THR:HG23	28:BF:89:THR:HG22	1.63	0.79
29:BG:20:GLY:HA2	29:BG:41:GLU:HG2	1.62	0.79
40:BS:24:ILE:HD13	40:BS:36:LEU:HD21	1.65	0.79
1:CA:430:A:OP1	3:CD:8:LEU:HB2	1.83	0.79
1:CA:1003:G:H21	1:CA:1005:A:H5'	1.46	0.79
1:CA:1132:C:H2'	1:CA:1133:G:C8	2.18	0.79
23:DB:2795:C:H2'	23:DB:2796:U:O4'	1.83	0.79
26:DD:37:VAL:HG13	26:DD:42:ASN:HB3	1.63	0.79
27:BE:84:THR:HG23	27:BE:85:PHE:H	1.48	0.79
50:B3:24:LYS:HA	50:B3:45:PRO:HB3	1.61	0.79
4:CE:19:ARG:HG2	4:CE:20:VAL:H	1.46	0.79
8:CI:17:ARG:HB3	8:CI:65:THR:HB	1.65	0.79
26:DD:37:VAL:HB	26:DD:46:ARG:HB2	1.64	0.79
31:DJ:81:ILE:HG13	31:DJ:82:GLY:H	1.48	0.79
37:DP:25:VAL:HG12	37:DP:27:VAL:H	1.47	0.79
44:DX:28:LEU:HD13	44:DX:42:LEU:HD21	1.63	0.79
49:D2:35:ARG:NH2	49:D2:43:THR:H	1.81	0.79
4:AE:83:PRO:HB3	4:AE:96:GLN:HG3	1.65	0.78
21:AU:3:ILE:HA	21:AU:19:LYS:HG2	1.64	0.78
23:BB:543:G:H2'	23:BB:544:C:H5''	1.64	0.78
33:BL:27:LEU:H	33:BL:27:LEU:HD12	1.46	0.78
39:BR:47:VAL:HG13	39:BR:49:ILE:H	1.46	0.78
23:DB:2722:G:O2'	35:DN:4:ARG:HD2	1.83	0.78
25:DC:68:ARG:HH21	25:DC:190:THR:HG23	1.47	0.78
33:DL:55:MET:HB3	33:DL:56:PRO:HD3	1.65	0.78
34:DM:133:LYS:HD2	34:DM:134:THR:H	1.46	0.78
8:AI:23:GLY:H	8:AI:60:LEU:HA	1.48	0.78
23:BB:997:G:H4'	38:BQ:91:ARG:HE	1.47	0.78
29:BG:71:LEU:HA	29:BG:74:MET:SD	2.23	0.78
30:BH:128:HIS:HB3	30:BH:144:VAL:HB	1.64	0.78
33:BL:38:GLN:H	33:BL:41:ARG:HH11	1.29	0.78
39:BR:53:PHE:CB	39:BR:55:ASP:H	1.96	0.78
41:BT:11:LEU:HB2	41:BT:32:LEU:HD23	1.65	0.78
1:CA:1056:U:H5'	2:CC:162:ALA:HB2	1.66	0.78
41:DT:55:VAL:HG22	41:DT:56:GLU:H	1.48	0.78
1:AA:65:A:H2'	1:AA:65:A:N3	1.99	0.78
34:BM:71:LYS:HD3	34:BM:92:TRP:N	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:59:THR:HG23	37:BP:76:HIS:CD2	2.19	0.78
41:BT:96:VAL:HG22	41:BT:97:GLY:H	1.48	0.78
1:CA:1078:U:H4'	4:CE:137:ARG:NH1	1.98	0.78
23:DB:1818:U:H2'	25:DC:152:GLN:O	1.84	0.78
26:DD:73:VAL:HB	26:DD:91:THR:HB	1.63	0.78
36:DO:100:HIS:O	36:DO:104:GLN:HB3	1.83	0.78
6:AG:87:PRO:HG2	6:AG:151:ALA:HB2	1.66	0.78
25:BC:153:LEU:HD23	25:BC:153:LEU:H	1.48	0.78
47:B0:45:ASP:HB2	47:B0:47:TYR:CD1	2.19	0.78
6:CG:112:ASP:HB2	6:CG:118:ARG:HG2	1.65	0.78
15:CP:28:ARG:HD3	15:CP:29:ASN:H	1.48	0.78
35:DN:2:ARG:NH2	35:DN:4:ARG:HD3	1.98	0.78
37:DP:52:ARG:HH11	37:DP:52:ARG:HG3	1.48	0.78
1:CA:437:U:H2'	1:CA:438:U:O4'	1.84	0.78
3:CD:94:GLU:HG2	3:CD:185:PRO:HG3	1.66	0.78
28:DF:13:LYS:HA	28:DF:16:MET:HB2	1.64	0.78
36:DO:29:HIS:HB2	36:DO:36:TYR:HB2	1.65	0.78
40:DS:6:LYS:HA	40:DS:104:THR:HA	1.64	0.78
52:DI:5:GLN:HB3	52:DI:30:GLN:OE1	1.82	0.78
41:BT:61:LEU:HD12	41:BT:62:VAL:H	1.47	0.78
48:B1:31:GLU:HG3	48:B1:32:LYS:H	1.49	0.78
51:B4:24:ARG:HG2	51:B4:26:ILE:HG12	1.65	0.78
4:CE:44:ARG:HA	4:CE:71:ILE:O	1.82	0.78
23:DB:11:C:H2'	23:DB:12:U:H5'	1.66	0.78
23:DB:1080:A:H2'	23:DB:1081:U:C6	2.17	0.78
31:DJ:60:ASP:HB3	31:DJ:126:ALA:HB1	1.66	0.78
49:D2:16:HIS:NE2	49:D2:44:VAL:HA	1.99	0.78
12:AM:19:THR:HA	12:AM:24:VAL:HG23	1.64	0.78
23:BB:1243:C:O2'	33:BL:15:ALA:HB3	1.83	0.78
23:BB:1275:A:H3'	23:BB:1275:A:N3	1.99	0.78
28:BF:36:ASN:HB2	28:BF:87:LYS:HA	1.66	0.78
33:BL:14:LYS:HZ3	33:BL:14:LYS:HA	1.49	0.78
40:BS:71:VAL:HA	40:BS:106:VAL:O	1.82	0.78
18:CS:15:LEU:HA	18:CS:18:VAL:HG12	1.63	0.78
29:DG:41:GLU:HB2	29:DG:52:GLY:HA3	1.65	0.78
16:AQ:16:MET:HB2	16:AQ:19:SER:HB2	1.64	0.78
25:BC:30:ALA:H	25:BC:31:PRO:CD	1.93	0.78
25:BC:216:ARG:HH11	25:BC:216:ARG:HB3	1.49	0.78
52:BI:27:LEU:HD12	52:BI:32:VAL:HG11	1.65	0.78
23:DB:534:U:H5'	38:DQ:41:ALA:HA	1.65	0.78
32:DK:66:LYS:HG3	32:DK:80:ASP:HA	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:102:PHE:HD1	40:DS:40:ASN:HD21	1.31	0.78
45:DY:6:ILE:HA	45:DY:56:VAL:HG12	1.65	0.78
38:BQ:93:ILE:HG23	38:BQ:94:LEU:H	1.49	0.78
43:BW:16:GLU:HG2	43:BW:37:VAL:HG22	1.64	0.78
52:BI:109:ALA:HB1	52:BI:124:MET:HG3	1.66	0.78
5:CF:11:HIS:ND1	5:CF:12:PRO:HD2	1.99	0.78
23:DB:2081:U:H4'	46:DZ:23:LYS:HD3	1.66	0.78
25:DC:251:THR:O	25:DC:252:LYS:HB2	1.83	0.78
37:DP:25:VAL:HG13	37:DP:88:ARG:N	1.97	0.78
28:BF:12:VAL:HG13	28:BF:27:VAL:HG21	1.66	0.78
29:BG:157:LYS:HB2	29:BG:159:LYS:HG2	1.64	0.78
30:BH:21:VAL:HG22	30:BH:22:LYS:H	1.48	0.78
34:BM:3:GLN:O	34:BM:5:LYS:N	2.17	0.78
23:DB:85:G:H5'	42:DU:28:LEU:HB3	1.65	0.78
25:DC:175:LEU:HD11	25:DC:181:ARG:HG2	1.65	0.78
28:DF:28:PRO:HB2	28:DF:168:LEU:HD12	1.66	0.78
30:DH:11:ASN:HD22	30:DH:20:ASN:HD22	1.29	0.78
41:DT:34:VAL:HG21	41:DT:43:ILE:HD11	1.65	0.78
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.50	0.77
23:BB:2420:C:OP1	50:B3:34:LYS:HB2	1.85	0.77
36:BO:48:LEU:HD23	36:BO:49:VAL:H	1.49	0.77
39:BR:53:PHE:CB	39:BR:55:ASP:N	2.47	0.77
39:BR:74:ILE:HA	39:BR:90:ARG:NE	1.97	0.77
41:BT:88:LYS:HG2	41:BT:89:GLU:H	1.49	0.77
5:CF:4:TYR:HA	5:CF:91:ARG:HA	1.66	0.77
17:CR:51:GLN:HA	17:CR:54:LEU:HD13	1.66	0.77
20:CB:15:PHE:HB3	20:CB:42:LEU:HD11	1.65	0.77
5:AF:38:ARG:HB3	5:AF:63:ASN:HB2	1.65	0.77
8:AI:12:LYS:H	8:AI:109:GLN:HE22	1.30	0.77
23:BB:483:A:H5'	42:BU:43:LYS:HE2	1.65	0.77
32:BK:71:ARG:CB	32:BK:72:PRO:HD2	2.10	0.77
35:BN:19:ALA:HA	35:BN:22:ARG:HG2	1.65	0.77
38:BQ:88:GLU:HA	39:BR:53:PHE:CD1	2.18	0.77
23:DB:578:G:N2	38:DQ:32:ARG:HH21	1.81	0.77
50:D3:12:ARG:HG2	50:D3:24:LYS:N	1.96	0.77
50:D3:49:VAL:HG13	50:D3:51:LYS:H	1.49	0.77
8:AI:110:VAL:HG12	8:AI:111:GLU:H	1.47	0.77
37:BP:52:ARG:O	37:BP:60:VAL:HG21	1.85	0.77
41:BT:12:ARG:HH21	44:BX:29:ARG:NH1	1.82	0.77
23:DB:536:G:C5'	38:DQ:52:ARG:HH22	1.97	0.77
48:D1:32:LYS:HG2	48:D1:52:LYS:HE2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:30:ILE:HG22	10:AK:45:THR:HA	1.67	0.77
12:AM:23:GLY:HA3	12:AM:64:VAL:HG13	1.67	0.77
23:BB:2723:C:H5''	35:BN:3:HIS:HB2	1.65	0.77
33:BL:56:PRO:HA	33:BL:60:ARG:NH2	1.99	0.77
33:BL:80:SER:HB2	33:BL:113:ALA:H	1.49	0.77
43:BW:17:ALA:HA	43:BW:35:ILE:O	1.83	0.77
46:BZ:5:ILE:HB	46:BZ:51:VAL:CG1	2.15	0.77
13:CN:12:ARG:HA	13:CN:15:LEU:HD12	1.65	0.77
18:CS:30:LEU:HD12	18:CS:48:ILE:HG12	1.67	0.77
7:AH:113:ARG:HH21	7:AH:114:ALA:HA	1.49	0.77
11:AL:35:ARG:NH2	11:AL:75:GLU:HB3	2.00	0.77
13:AN:12:ARG:HA	13:AN:15:LEU:HD11	1.66	0.77
31:BJ:81:ILE:HG23	31:BJ:82:GLY:N	1.99	0.77
34:BM:100:LYS:HE3	34:BM:100:LYS:H	1.49	0.77
39:BR:90:ARG:HH11	39:BR:91:GLN:H	1.33	0.77
18:CS:27:LYS:HZ3	18:CS:27:LYS:HB3	1.49	0.77
19:CT:68:LYS:HB2	19:CT:70:LYS:HD3	1.66	0.77
23:DB:1275:A:H3'	23:DB:1275:A:N3	1.99	0.77
25:DC:72:GLY:O	25:DC:73:ILE:HG13	1.83	0.77
27:DE:48:THR:C	27:DE:49:ARG:HG2	2.04	0.77
42:DU:29:SER:O	42:DU:30:SER:HB3	1.85	0.77
46:DZ:28:VAL:HG23	46:DZ:29:GLY:H	1.48	0.77
51:D4:16:ILE:HG23	51:D4:18:LYS:H	1.49	0.77
18:AS:35:ARG:HG2	18:AS:50:VAL:HG13	1.66	0.77
23:BB:972:A:H3'	23:BB:973:A:H5''	1.65	0.77
31:BJ:7:LYS:HD3	31:BJ:48:VAL:HB	1.66	0.77
1:CA:1060:U:H4'	9:CJ:54:SER:HB2	1.67	0.77
23:DB:635:C:H3'	33:DL:126:ARG:HH21	1.49	0.77
25:DC:66:PHE:O	25:DC:68:ARG:N	2.16	0.77
37:DP:29:VAL:HG21	37:DP:61:ARG:HH22	1.46	0.77
26:BD:107:VAL:HA	26:BD:205:PRO:O	1.85	0.77
34:BM:23:GLY:N	34:BM:96:ILE:HD12	2.00	0.77
34:BM:65:ILE:HG22	34:BM:101:VAL:HA	1.66	0.77
42:BU:7:ASP:CA	42:BU:24:VAL:HA	2.15	0.77
1:CA:781:A:H2'	1:CA:782:A:H5'	1.67	0.77
18:CS:51:HIS:HA	18:CS:56:HIS:HA	1.67	0.77
42:DU:12:VAL:HG11	42:DU:17:ASP:HB3	1.67	0.77
1:AA:78:A:H2'	1:AA:79:G:C8	2.20	0.77
23:BB:483:A:H4'	42:BU:45:GLN:HA	1.65	0.77
23:BB:2287:A:O2'	23:BB:2288:A:H2'	1.83	0.77
24:BV:80:HIS:HD2	24:BV:82:TYR:H	1.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:114:GLU:HG2	35:BN:115:LEU:H	1.48	0.77
1:CA:60:A:H2'	19:CT:4:LYS:HE3	1.67	0.77
4:CE:82:HIS:HB2	4:CE:83:PRO:HD2	1.67	0.77
26:DD:96:ILE:HG22	26:DD:98:VAL:H	1.48	0.77
39:DR:47:VAL:HG22	39:DR:48:LYS:H	1.48	0.77
2:AC:8:GLY:HA2	2:AC:11:LEU:HG	1.67	0.77
3:AD:187:ARG:HA	3:AD:190:LEU:HD22	1.65	0.77
25:BC:179:GLU:HG3	25:BC:266:ILE:HG22	1.67	0.77
50:B3:41:ARG:HD3	50:B3:43:LEU:H	1.49	0.77
51:B4:25:VAL:HB	51:B4:33:HIS:O	1.84	0.77
1:CA:264:C:H4'	16:CQ:64:ARG:HD2	1.65	0.77
8:CI:74:GLN:HE21	8:CI:74:GLN:HA	1.50	0.77
21:CU:19:LYS:HG3	21:CU:20:ARG:HE	1.47	0.77
23:DB:7:G:H5'	31:DJ:134:ALA:O	1.85	0.77
23:DB:360:U:H2'	23:DB:361:G:O4'	1.83	0.77
23:DB:1098:A:H2'	52:DI:3:LYS:O	1.82	0.77
26:DD:125:TRP:HB2	26:DD:160:LYS:HG2	1.67	0.77
29:DG:171:LYS:HZ3	29:DG:174:LYS:H	1.33	0.77
37:DP:64:SER:HB2	37:DP:71:ARG:HD2	1.66	0.77
20:AB:9:LEU:HD22	20:AB:11:ALA:H	1.48	0.77
23:BB:370:G:O2'	23:BB:423:A:H3'	1.86	0.77
26:BD:128:ARG:HD2	26:BD:144:GLY:HA3	1.66	0.77
32:BK:35:VAL:HG23	32:BK:36:GLY:H	1.49	0.77
52:BI:63:ASP:O	52:BI:64:ARG:HG3	1.84	0.77
23:DB:856:G:H4'	43:DW:23:LYS:HD2	1.67	0.77
23:DB:1149:G:H2'	23:DB:1150:C:C6	2.20	0.77
23:DB:2331:G:H4'	43:DW:69:GLU:HB2	1.67	0.77
33:DL:108:ALA:HB3	33:DL:125:LEU:HB2	1.67	0.77
1:AA:840:C:H2'	1:AA:842:U:H5''	1.67	0.76
21:AU:14:ALA:HA	21:AU:16:ARG:CD	2.16	0.76
23:BB:751:A:H5'	40:BS:90:LYS:HE2	1.67	0.76
23:BB:2576:G:N2	26:BD:149:ASN:HD21	1.82	0.76
31:BJ:75:TYR:HA	31:BJ:86:GLN:O	1.84	0.76
40:BS:18:ARG:HH12	40:BS:25:ARG:NH2	1.83	0.76
48:B1:53:ILE:HD13	48:B1:54:LYS:N	1.99	0.76
50:B3:7:ARG:HH21	50:B3:11:LYS:HZ1	1.33	0.76
4:CE:44:ARG:NH1	4:CE:72:ASN:HD21	1.83	0.76
30:DH:26:ALA:C	30:DH:28:ASN:H	1.88	0.76
38:DQ:53:LYS:HE2	38:DQ:53:LYS:H	1.50	0.76
15:AP:42:ILE:HB	15:AP:46:LYS:HD2	1.67	0.76
16:AQ:11:VAL:HA	16:AQ:22:VAL:HG22	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:742:A:H2'	23:BB:743:A:H8	1.50	0.76
23:BB:2469:A:H4'	34:BM:55:ARG:HG3	1.68	0.76
10:CK:16:SER:HA	10:CK:78:ILE:HA	1.66	0.76
23:DB:928:A:H1'	45:DY:1:ALA:HA	1.66	0.76
23:DB:2755:C:H2'	51:D4:19:ARG:HH21	1.49	0.76
23:DB:2821:A:OP2	35:DN:2:ARG:HD2	1.84	0.76
24:DV:7:GLU:HA	24:DV:65:VAL:HG23	1.65	0.76
41:DT:24:MET:HE2	41:DT:30:ILE:HA	1.66	0.76
41:DT:55:VAL:HG21	41:DT:85:VAL:HB	1.67	0.76
23:BB:954:G:OP1	34:BM:17:ASN:HB2	1.86	0.76
52:BI:20:SER:HB3	52:BI:21:PRO:HD3	1.67	0.76
1:CA:840:C:H2'	1:CA:842:U:H5''	1.67	0.76
4:CE:104:ILE:HD12	4:CE:111:ARG:HD3	1.66	0.76
23:DB:635:C:H3'	33:DL:126:ARG:NH2	2.00	0.76
23:DB:899:A:H3'	23:DB:900:A:H8	1.49	0.76
23:DB:2756:U:H1'	23:DB:2757:A:H5''	1.67	0.76
45:DY:18:LYS:H	45:DY:18:LYS:HD2	1.49	0.76
46:DZ:62:LYS:C	46:DZ:65:ASN:HD21	1.87	0.76
49:D2:18:PHE:HA	49:D2:21:ARG:HB2	1.66	0.76
25:BC:224:MET:HA	25:BC:232:GLY:HA2	1.68	0.76
27:BE:73:ILE:C	27:BE:75:SER:H	1.88	0.76
51:B4:4:ARG:HG2	51:B4:4:ARG:O	1.84	0.76
27:DE:4:VAL:HG13	27:DE:5:LEU:H	1.50	0.76
39:DR:65:ALA:HB3	39:DR:99:THR:HG23	1.68	0.76
14:AO:81:ILE:HA	14:AO:86:LEU:HD12	1.67	0.76
20:AB:162:VAL:HG13	20:AB:184:ALA:HB2	1.67	0.76
25:BC:257:ARG:O	25:BC:261:ARG:HG3	1.85	0.76
49:B2:44:VAL:HG23	49:B2:45:SER:H	1.49	0.76
1:CA:764:C:H3'	1:CA:765:G:H21	1.50	0.76
12:CM:15:VAL:HG22	12:CM:40:GLU:HB2	1.68	0.76
23:BB:479:A:O2'	23:BB:481:G:H5'	1.86	0.76
25:BC:128:THR:HA	25:BC:190:THR:HA	1.67	0.76
28:BF:101:ARG:HD2	28:BF:105:ILE:HD12	1.68	0.76
22:DA:26:C:H2'	22:DA:27:C:C6	2.19	0.76
23:DB:137:U:H2'	23:DB:138:U:O4'	1.85	0.76
26:DD:170:VAL:HB	26:DD:194:PRO:HG2	1.67	0.76
12:AM:11:HIS:N	12:AM:44:ILE:HD11	1.99	0.76
12:AM:21:ILE:HG22	12:AM:64:VAL:HG11	1.67	0.76
23:BB:480:A:H4'	42:BU:42:LYS:HG2	1.67	0.76
26:BD:138:LEU:HD23	26:BD:138:LEU:N	1.99	0.76
31:BJ:57:LEU:HB3	31:BJ:128:ASN:HA	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:101:ILE:HG23	31:BJ:102:GLU:H	1.51	0.76
35:BN:29:VAL:HG21	35:BN:75:ILE:HD11	1.66	0.76
43:BW:39:GLN:HA	43:BW:68:PHE:HA	1.68	0.76
30:DH:37:VAL:H	30:DH:38:PRO:HD2	1.51	0.76
39:DR:76:LYS:HA	39:DR:91:GLN:H	1.50	0.76
41:DT:67:VAL:HG12	41:DT:68:LYS:H	1.50	0.76
45:DY:4:ILE:HG12	45:DY:5:LYS:HG3	1.68	0.76
23:BB:703:U:H2'	23:BB:704:G:O4'	1.86	0.76
23:BB:1177:G:H2'	23:BB:1178:C:C6	2.20	0.76
23:BB:2839:G:H21	35:BN:92:GLY:HA3	1.48	0.76
25:BC:87:SER:O	25:BC:157:ALA:HB2	1.84	0.76
28:BF:64:PRO:HA	28:BF:88:VAL:HG22	1.68	0.76
37:BP:26:GLU:HA	37:BP:47:ILE:H	1.49	0.76
48:B1:42:VAL:HG12	48:B1:43:ARG:NE	2.00	0.76
1:CA:619:U:H3	3:CD:130:ASN:ND2	1.84	0.76
12:CM:38:ILE:HG13	12:CM:55:LEU:HD21	1.67	0.76
26:DD:125:TRP:HD1	26:DD:127:PHE:HB2	1.49	0.76
37:DP:55:HIS:C	37:DP:57:ALA:H	1.88	0.76
42:DU:59:GLU:HG3	42:DU:62:ALA:HB2	1.66	0.76
52:DI:21:PRO:HB2	52:DI:22:PRO:HD3	1.66	0.76
20:AB:120:SER:HA	20:AB:125:PHE:HB3	1.67	0.76
23:BB:2346:A:H3'	23:BB:2347:C:H5''	1.67	0.76
26:BD:18:ASP:HB3	26:BD:20:VAL:HG22	1.68	0.76
31:BJ:7:LYS:HZ2	31:BJ:48:VAL:HB	1.50	0.76
34:BM:77:PRO:HD3	34:BM:86:LYS:HD3	1.65	0.76
34:BM:107:GLY:C	34:BM:109:PRO:HD2	2.06	0.76
37:BP:49:ILE:C	37:BP:50:ARG:HG3	2.06	0.76
41:BT:24:MET:HG3	41:BT:28:ASN:HA	1.65	0.76
28:DF:140:ILE:H	28:DF:140:ILE:HD12	1.49	0.76
33:DL:78:ARG:HB3	33:DL:78:ARG:NH1	2.01	0.76
6:AG:67:ASN:HD22	6:AG:127:ALA:HA	1.51	0.76
13:AN:30:ILE:HG21	13:AN:41:TRP:HB2	1.65	0.76
23:BB:1255:U:H2'	27:BE:67:ARG:HB3	1.68	0.76
27:DE:48:THR:HG23	27:DE:85:PHE:N	2.00	0.76
30:DH:10:ALA:O	30:DH:11:ASN:HB3	1.86	0.76
31:DJ:73:VAL:HG22	31:DJ:74:TYR:N	2.00	0.76
39:DR:6:GLN:NE2	39:DR:41:ILE:HB	2.00	0.76
45:DY:2:LYS:HB2	45:DY:37:ARG:HB2	1.67	0.76
23:BB:2239:G:H5'	25:BC:246:PRO:CD	2.16	0.75
26:BD:17:GLU:HB2	37:BP:80:VAL:HG21	1.67	0.75
33:BL:103:ILE:HD13	33:BL:105:ILE:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:67:ASN:HA	36:BO:71:ALA:HB3	1.66	0.75
8:CI:94:ARG:HD3	8:CI:97:LEU:HD12	1.68	0.75
23:DB:1799:G:N7	25:DC:178:GLY:HA3	2.01	0.75
29:DG:120:ILE:HG12	29:DG:134:GLY:HA3	1.66	0.75
29:DG:175:LYS:HG2	29:DG:176:LYS:H	1.50	0.75
31:DJ:81:ILE:O	31:DJ:84:ILE:HG13	1.86	0.75
41:DT:31:VAL:HG13	41:DT:32:LEU:H	1.50	0.75
43:DW:66:VAL:HG13	43:DW:67:LYS:H	1.50	0.75
1:AA:1219:A:H2'	1:AA:1220:G:C8	2.21	0.75
23:BB:162:U:H4'	23:BB:163:C:OP1	1.86	0.75
23:BB:443:A:H5''	27:BE:44:ARG:HH12	1.50	0.75
23:BB:919:U:H2'	23:BB:920:A:C8	2.21	0.75
23:BB:2563:U:H5''	32:BK:27:GLY:HA2	1.68	0.75
24:BV:79:ARG:HA	24:BV:86:LEU:HA	1.69	0.75
39:BR:4:VAL:HA	39:BR:12:HIS:HB3	1.69	0.75
1:CA:814:A:H5'	1:CA:1511:G:H4'	1.68	0.75
1:CA:1097:C:H2'	1:CA:1098:C:C6	2.20	0.75
23:BB:2674:G:H4'	32:BK:30:ARG:HG2	1.67	0.75
35:BN:28:LEU:HD11	35:BN:44:LEU:HD21	1.68	0.75
5:CF:47:LEU:HD21	5:CF:57:ALA:HB2	1.68	0.75
8:CI:118:ARG:HH21	8:CI:122:ARG:NE	1.83	0.75
23:DB:162:U:H4'	23:DB:163:C:OP1	1.87	0.75
25:DC:128:THR:HG22	25:DC:188:ARG:HB2	1.68	0.75
52:DI:42:ASN:HA	52:DI:45:THR:OG1	1.87	0.75
23:BB:2086:U:H2'	23:BB:2087:G:C8	2.21	0.75
33:BL:61:LEU:HB3	33:BL:62:PRO:CD	2.06	0.75
34:BM:69:PRO:HB2	34:BM:71:LYS:NZ	2.02	0.75
39:BR:69:GLY:HA2	39:BR:96:VAL:HA	1.69	0.75
40:BS:10:ALA:O	40:BS:11:ARG:HB3	1.85	0.75
48:B1:9:LYS:HG2	50:B3:34:LYS:NZ	2.00	0.75
38:DQ:69:ARG:HH11	38:DQ:69:ARG:HB3	1.51	0.75
1:AA:437:U:H2'	1:AA:438:U:O4'	1.85	0.75
27:BE:98:LYS:HG3	27:BE:99:LYS:N	2.02	0.75
31:BJ:71:ASP:CG	31:BJ:72:LYS:N	2.39	0.75
22:DA:30:C:H2'	22:DA:31:C:H5'	1.68	0.75
32:DK:71:ARG:HB3	32:DK:72:PRO:CD	2.16	0.75
52:DI:20:SER:HB3	52:DI:21:PRO:HD3	1.67	0.75
10:AK:86:LYS:HB2	10:AK:112:VAL:HG23	1.68	0.75
20:AB:41:ASN:HD22	20:AB:44:LYS:HE2	1.51	0.75
26:BD:154:LYS:HZ1	31:BJ:81:ILE:HD13	1.51	0.75
33:BL:82:LEU:HD21	33:BL:92:LEU:HD12	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:110:VAL:HB	33:BL:126:ARG:NH2	2.01	0.75
34:BM:70:ASP:N	34:BM:71:LYS:HZ2	1.84	0.75
41:BT:30:ILE:HG23	41:BT:31:VAL:N	2.01	0.75
1:CA:946:A:H2'	1:CA:947:G:C8	2.22	0.75
2:CC:150:VAL:HG22	2:CC:199:VAL:HG12	1.69	0.75
23:DB:1021:A:H61	23:DB:1142:A:N6	1.85	0.75
35:DN:8:ARG:HD2	35:DN:46:ARG:NE	2.01	0.75
40:DS:2:GLU:HB2	40:DS:108:SER:HA	1.69	0.75
12:AM:44:ILE:HD12	12:AM:45:SER:H	1.52	0.75
23:BB:28:A:N6	23:BB:512:G:H1'	2.02	0.75
37:BP:25:VAL:HG11	37:BP:87:ARG:HA	1.68	0.75
44:BX:36:GLN:HE22	44:BX:38:GLN:NE2	1.84	0.75
52:BI:7:TYR:HB2	52:BI:58:ILE:O	1.87	0.75
2:CC:179:ALA:HA	2:CC:205:GLU:HA	1.69	0.75
3:CD:2:ARG:NH1	3:CD:114:ARG:HD3	2.00	0.75
11:CL:49:ARG:HG2	11:CL:89:LEU:HD21	1.69	0.75
23:DB:458:G:H5''	49:D2:39:ARG:CB	2.17	0.75
23:DB:1064:C:H4'	52:DI:90:GLY:CA	2.17	0.75
27:DE:116:ASP:HB3	27:DE:185:LYS:HA	1.68	0.75
35:DN:38:LEU:HB3	35:DN:39:PRO:HD3	1.67	0.75
1:AA:764:C:H3'	1:AA:765:G:H21	1.51	0.75
33:BL:117:THR:HG21	33:BL:120:VAL:CB	2.16	0.75
34:BM:11:LYS:HG2	34:BM:12:MET:H	1.51	0.75
35:BN:70:THR:HG21	35:BN:75:ILE:HG22	1.68	0.75
46:BZ:3:LYS:HG2	46:BZ:8:LYS:HA	1.68	0.75
1:CA:974:A:C4'	1:CA:975:A:H5'	2.15	0.75
23:DB:1063:G:H1'	52:DI:92:PRO:HG2	1.69	0.75
23:DB:1098:A:H3'	52:DI:3:LYS:CB	2.16	0.75
37:DP:50:ARG:NH1	37:DP:62:LYS:HB2	2.01	0.75
9:AJ:19:ASP:O	9:AJ:22:THR:HG22	1.87	0.75
10:AK:110:THR:HG21	21:AU:4:LYS:HD2	1.69	0.75
50:B3:7:ARG:NH2	50:B3:11:LYS:HZ1	1.84	0.75
3:CD:55:ARG:HH11	3:CD:55:ARG:HG3	1.51	0.75
28:DF:69:ALA:HB3	28:DF:81:GLY:H	1.52	0.75
32:DK:78:ARG:HH22	37:DP:62:LYS:NZ	1.85	0.75
32:DK:108:ARG:NH2	37:DP:36:LYS:H	1.84	0.75
33:DL:74:THR:HB	33:DL:109:LYS:HE3	1.68	0.75
26:BD:110:THR:HG22	26:BD:171:THR:HA	1.68	0.74
26:BD:154:LYS:NZ	26:BD:156:PHE:HA	2.00	0.74
27:BE:59:PRO:HD2	27:BE:60:TRP:NE1	2.01	0.74
30:BH:41:LYS:HD2	30:BH:41:LYS:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:101:GLY:O	32:BK:119:ALA:HB1	1.87	0.74
35:BN:100:CYS:HB3	35:BN:110:MET:HB2	1.69	0.74
46:BZ:55:GLY:HA2	46:BZ:63:ARG:HG3	1.69	0.74
37:DP:86:LYS:HE3	37:DP:88:ARG:HB2	1.68	0.74
48:D1:9:LYS:HA	48:D1:24:LYS:HG2	1.69	0.74
23:BB:37:C:C2'	27:BE:46:GLN:HG2	2.16	0.74
23:BB:2354:C:H4'	43:BW:30:VAL:HG13	1.69	0.74
29:BG:153:PRO:HG2	29:BG:162:ARG:HB3	1.68	0.74
43:BW:66:VAL:HG22	43:BW:67:LYS:N	2.03	0.74
44:BX:38:GLN:NE2	44:BX:38:GLN:H	1.84	0.74
1:CA:108:G:O6	19:CT:9:ARG:HG2	1.87	0.74
15:CP:67:ILE:HG13	15:CP:71:VAL:HG13	1.67	0.74
23:DB:458:G:N2	23:DB:469:G:H2'	2.02	0.74
33:DL:19:LEU:N	33:DL:19:LEU:HD13	2.02	0.74
33:DL:62:PRO:HB3	50:D3:12:ARG:HD3	1.69	0.74
37:DP:32:VAL:HB	37:DP:80:VAL:O	1.88	0.74
48:D1:31:GLU:HG2	48:D1:32:LYS:HG3	1.67	0.74
2:AC:5:HIS:HD2	2:AC:8:GLY:H	1.34	0.74
12:AM:18:LEU:HB3	12:AM:29:SER:HB2	1.67	0.74
23:BB:140:C:H4'	23:BB:141:G:H21	1.51	0.74
23:BB:692:C:C5'	25:BC:42:ARG:HB2	2.15	0.74
23:BB:812:C:H5'	33:BL:32:GLY:HA2	1.67	0.74
23:BB:1469:A:H2'	23:BB:1470:A:C8	2.22	0.74
37:BP:47:ILE:HG22	37:BP:48:ALA:N	2.01	0.74
52:BI:89:SER:HB2	52:BI:136:GLY:HA3	1.68	0.74
1:CA:1086:U:H3	1:CA:1099:G:H22	1.34	0.74
2:CC:18:ASN:HA	2:CC:55:VAL:HG12	1.67	0.74
12:CM:89:ARG:NH1	12:CM:101:THR:HG21	2.02	0.74
23:DB:1283:G:N2	23:DB:1286:A:H5'	2.01	0.74
25:DC:212:TRP:HZ3	25:DC:217:PRO:HD3	1.50	0.74
31:DJ:19:ASP:HB3	31:DJ:21:THR:HG23	1.67	0.74
1:AA:135:C:O2	15:AP:1:MET:HB2	1.88	0.74
2:AC:184:ASN:HD22	2:AC:185:THR:H	1.32	0.74
20:AB:163:ILE:HD11	20:AB:209:VAL:HG12	1.70	0.74
23:BB:858:G:H21	23:BB:2268:A:H3'	1.51	0.74
5:CF:62:MET:HG3	5:CF:64:VAL:HG23	1.67	0.74
20:CB:100:LEU:HB3	20:CB:178:LEU:HD11	1.68	0.74
20:CB:206:ILE:HG22	20:CB:207:ARG:HH21	1.52	0.74
36:DO:28:VAL:HG22	36:DO:106:LEU:HD13	1.66	0.74
1:AA:781:A:H2'	1:AA:782:A:H5'	1.69	0.74
15:AP:52:LEU:HG	15:AP:75:ILE:HG12	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:82:SER:N	30:BH:146:VAL:HG13	2.00	0.74
33:BL:63:LYS:N	50:B3:24:LYS:HZ2	1.86	0.74
12:CM:52:ILE:HA	12:CM:55:LEU:HD12	1.69	0.74
22:DA:48:U:H2'	22:DA:49:C:C6	2.23	0.74
23:BB:2216:G:H2'	23:BB:2217:G:H8	1.52	0.74
27:BE:133:LEU:HD12	27:BE:136:GLN:HG3	1.68	0.74
29:BG:120:ILE:HG12	29:BG:140:ILE:HG22	1.68	0.74
33:BL:30:THR:HA	33:BL:36:LYS:NZ	2.03	0.74
34:BM:96:ILE:HG23	34:BM:97:GLN:H	1.52	0.74
52:BI:89:SER:HA	52:BI:97:VAL:CG2	2.17	0.74
4:CE:33:THR:HG22	4:CE:51:LYS:HG2	1.68	0.74
25:DC:22:GLU:CB	25:DC:202:ARG:HG3	2.18	0.74
28:DF:133:GLU:HG3	28:DF:147:ARG:HG2	1.70	0.74
30:DH:37:VAL:O	30:DH:38:PRO:C	2.23	0.74
23:BB:125:A:H3'	23:BB:126:A:C5'	2.17	0.74
39:BR:54:VAL:N	39:BR:54:VAL:HB	2.01	0.74
23:DB:136:G:H2'	23:DB:137:U:C6	2.22	0.74
23:DB:1099:G:H5'	52:DI:4:VAL:N	2.01	0.74
25:DC:131:MET:HG3	25:DC:187:CYS:SG	2.27	0.74
25:DC:243:PRO:HB3	25:DC:248:GLY:HA2	1.69	0.74
26:DD:8:LYS:HG3	37:DP:5:LYS:NZ	2.02	0.74
46:DZ:59:ARG:HA	46:DZ:62:LYS:HB2	1.70	0.74
51:D4:26:ILE:HG23	51:D4:27:CYS:H	1.52	0.74
30:BH:4:ILE:H	30:BH:37:VAL:HB	1.53	0.74
31:BJ:112:GLY:O	31:BJ:116:ARG:HB2	1.88	0.74
47:B0:36:LYS:HG3	47:B0:40:HIS:O	1.88	0.74
48:B1:12:SER:HB2	48:B1:21:THR:O	1.87	0.74
2:CC:156:LEU:HB2	2:CC:163:ARG:HD3	1.69	0.74
25:DC:141:HIS:HB3	25:DC:190:THR:HB	1.70	0.74
27:DE:83:VAL:O	27:DE:84:THR:HG22	1.88	0.74
12:AM:15:VAL:HG23	12:AM:33:LEU:HD12	1.70	0.74
23:BB:150:U:H2'	23:BB:151:C:C6	2.23	0.74
23:BB:163:C:H2'	23:BB:164:C:O4'	1.87	0.74
23:BB:1283:G:N2	23:BB:1286:A:H5'	2.02	0.74
24:BV:35:GLU:HG3	24:BV:93:ARG:HD3	1.69	0.74
24:BV:80:HIS:CD2	24:BV:83:LYS:H	2.05	0.74
27:BE:105:LEU:HD22	27:BE:177:PRO:HG2	1.70	0.74
34:BM:9:PHE:HA	34:BM:10:ARG:HH21	1.53	0.74
45:BY:16:LEU:HB2	45:BY:17:PRO:CD	2.13	0.74
16:CQ:11:VAL:HG22	16:CQ:22:VAL:HG22	1.70	0.74
20:CB:16:GLY:HA2	20:CB:40:ILE:H	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:16:ARG:O	21:CU:20:ARG:HD2	1.86	0.74
22:DA:104:A:H2'	22:DA:105:G:O4'	1.88	0.74
24:DV:63:ILE:N	24:DV:70:ILE:HD11	2.03	0.74
25:DC:144:GLU:HG2	25:DC:150:GLY:HA2	1.70	0.74
28:DF:31:GLU:HG3	28:DF:158:THR:HG22	1.69	0.74
35:DN:85:PRO:HA	35:DN:88:ALA:HB2	1.69	0.74
40:DS:23:LEU:HD13	40:DS:25:ARG:HH22	1.52	0.74
1:AA:1125:U:H2'	1:AA:1126:U:H5''	1.70	0.74
27:BE:113:VAL:HG23	27:BE:117:ARG:CZ	2.18	0.74
47:B0:29:VAL:HG23	47:B0:36:LYS:NZ	2.02	0.74
1:CA:262:A:OP2	19:CT:70:LYS:HE2	1.88	0.74
15:CP:3:THR:HG22	15:CP:66:THR:HB	1.68	0.74
23:DB:125:A:H4'	49:D2:13:ASN:ND2	2.03	0.74
23:DB:2088:A:H2'	23:DB:2089:C:C6	2.23	0.74
34:DM:5:LYS:HZ1	34:DM:8:LYS:CB	2.01	0.74
49:D2:35:ARG:HH21	49:D2:42:LEU:HD12	1.50	0.74
1:AA:278:G:H21	1:AA:279:A:H62	1.36	0.73
1:AA:1103:C:H5''	20:AB:96:LEU:HD12	1.68	0.73
20:AB:67:LEU:HD22	20:AB:67:LEU:H	1.52	0.73
21:AU:20:ARG:HA	21:AU:24:LYS:HG3	1.70	0.73
23:BB:1112:G:H5'	29:BG:2:ARG:HH21	1.53	0.73
23:BB:2147:A:H5'	23:BB:2148:G:H5'	1.71	0.73
23:DB:1099:G:O5'	52:DI:4:VAL:N	2.20	0.73
23:DB:2751:G:H5'	29:DG:3:VAL:HG21	1.70	0.73
43:DW:42:THR:HB	43:DW:75:ASN:CB	2.16	0.73
23:BB:856:G:H21	43:BW:22:VAL:HG11	1.53	0.73
28:BF:116:LEU:HG	28:BF:176:PHE:HA	1.68	0.73
36:BO:17:LYS:HE3	36:BO:43:ASN:HB2	1.70	0.73
36:BO:68:LYS:HD3	36:BO:68:LYS:N	2.02	0.73
8:CI:4:GLN:HG2	8:CI:21:LYS:HD3	1.70	0.73
23:DB:918:A:H2'	23:DB:919:U:H5'	1.68	0.73
27:DE:1:MET:HG3	27:DE:18:THR:OG1	1.88	0.73
44:DX:44:LYS:HG3	44:DX:47:ARG:HB2	1.69	0.73
45:DY:15:ARG:NE	45:DY:15:ARG:HA	2.03	0.73
1:AA:812:G:N3	1:AA:812:G:H2'	2.02	0.73
19:AT:60:GLN:HE21	19:AT:61:ALA:H	1.36	0.73
23:BB:1324:G:H1'	23:BB:1616:A:N6	2.03	0.73
23:BB:2527:C:H1'	51:B4:1:MET:HB3	1.71	0.73
44:BX:49:ASP:HB3	44:BX:52:ARG:HH21	1.52	0.73
10:CK:70:ALA:HA	10:CK:73:VAL:HG22	1.71	0.73
16:CQ:10:ARG:NH1	16:CQ:55:GLY:H	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1006:C:H5''	31:DJ:34:ARG:NE	2.02	0.73
23:DB:2498:C:O2'	23:DB:2499:C:H5'	1.87	0.73
30:DH:3:VAL:HB	30:DH:37:VAL:HG11	1.68	0.73
4:AE:131:ASN:HD21	4:AE:133:ILE:HB	1.54	0.73
23:BB:85:G:C5'	42:BU:28:LEU:HA	2.18	0.73
23:BB:135:U:H2'	23:BB:136:G:C8	2.23	0.73
23:BB:508:A:H2'	23:BB:509:C:H5'	1.69	0.73
34:BM:73:ILE:O	34:BM:74:THR:HB	1.88	0.73
52:BI:14:ALA:HA	52:BI:45:THR:HG21	1.68	0.73
19:CT:69:ASN:ND2	19:CT:69:ASN:H	1.85	0.73
23:DB:1820:U:H3	25:DC:197:ALA:HB1	1.52	0.73
23:DB:2674:G:H4'	32:DK:30:ARG:HD3	1.70	0.73
23:DB:2895:G:H2'	23:DB:2896:C:C6	2.24	0.73
43:DW:42:THR:HG23	43:DW:66:VAL:N	2.03	0.73
1:AA:1461:G:H2'	1:AA:1462:C:C6	2.23	0.73
23:BB:742:A:H2'	23:BB:743:A:C8	2.21	0.73
23:BB:1203:U:H3'	23:BB:1204:A:H5''	1.70	0.73
31:BJ:25:LEU:HD12	31:BJ:62:VAL:HA	1.70	0.73
31:BJ:39:LYS:HZ1	38:BQ:69:ARG:HD2	1.53	0.73
35:BN:76:VAL:HA	35:BN:79:LEU:HD12	1.71	0.73
3:CD:18:LEU:HD12	3:CD:63:ILE:HB	1.70	0.73
7:CH:75:GLN:NE2	7:CH:76:ARG:H	1.86	0.73
10:CK:82:GLU:HB3	10:CK:108:ASN:HD22	1.53	0.73
16:CQ:10:ARG:CZ	16:CQ:55:GLY:H	2.01	0.73
25:DC:48:ILE:HG22	25:DC:49:THR:N	2.03	0.73
25:DC:161:VAL:HG12	25:DC:173:LEU:HD22	1.70	0.73
39:DR:18:GLN:HB3	39:DR:99:THR:HA	1.71	0.73
39:DR:73:LYS:HD2	39:DR:73:LYS:H	1.51	0.73
42:DU:71:ILE:HG21	42:DU:102:ILE:HD12	1.69	0.73
44:DX:30:MET:HE2	44:DX:30:MET:H	1.54	0.73
48:D1:49:LYS:HZ2	48:D1:49:LYS:N	1.86	0.73
51:D4:24:ARG:HE	51:D4:37:GLN:CA	2.01	0.73
52:DI:73:PRO:HG2	52:DI:78:LEU:HD21	1.68	0.73
52:DI:108:ILE:HG22	52:DI:128:ILE:HD13	1.71	0.73
1:AA:927:G:H4'	1:AA:1503:A:N7	2.03	0.73
23:BB:138:U:H2'	23:BB:140:C:H1'	1.71	0.73
33:BL:85:VAL:HG11	33:BL:98:ALA:HB3	1.71	0.73
2:CC:176:THR:OG1	2:CC:179:ALA:HB2	1.88	0.73
6:CG:23:ALA:O	6:CG:26:VAL:HG22	1.89	0.73
13:CN:96:LYS:HG2	13:CN:97:LYS:H	1.53	0.73
22:DA:17:C:H2'	22:DA:18:G:O4'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:30:ARG:NH1	35:DN:74:GLU:HG2	2.01	0.73
37:DP:111:GLU:HB2	37:DP:112:ARG:HE	1.54	0.73
44:DX:4:LYS:HG3	44:DX:7:ARG:HE	1.51	0.73
46:DZ:21:VAL:HG22	46:DZ:23:LYS:H	1.54	0.73
1:AA:429:U:H3'	3:AD:8:LEU:HD23	1.70	0.73
15:AP:71:VAL:HA	15:AP:74:LEU:HG	1.69	0.73
21:AU:14:ALA:C	21:AU:16:ARG:CZ	2.56	0.73
23:BB:45:G:H5'	23:BB:46:G:H5'	1.71	0.73
23:BB:1392:A:H62	41:BT:18:GLU:HG2	1.53	0.73
34:BM:109:PRO:HA	34:BM:112:LEU:HB2	1.69	0.73
38:BQ:33:VAL:HG23	38:BQ:37:ALA:HB3	1.71	0.73
1:CA:1132:C:H2'	1:CA:1133:G:H8	1.50	0.73
27:DE:31:VAL:HG21	27:DE:104:ALA:HB2	1.71	0.73
40:DS:74:ILE:HG22	40:DS:105:VAL:HG23	1.70	0.73
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.24	0.73
21:AU:14:ALA:C	21:AU:16:ARG:HD2	2.09	0.73
23:BB:1021:A:N6	23:BB:1141:U:H3	1.82	0.73
24:BV:24:ASN:O	24:BV:44:HIS:HB2	1.89	0.73
33:BL:120:VAL:HG22	33:BL:122:VAL:HG22	1.71	0.73
1:CA:278:G:H21	1:CA:279:A:H62	1.36	0.73
4:CE:98:ALA:HB2	4:CE:123:LEU:HG	1.69	0.73
23:DB:1469:A:H2'	23:DB:1470:A:C8	2.23	0.73
47:D0:32:THR:HG21	47:D0:41:HIS:NE2	2.03	0.73
3:AD:84:ASN:ND2	3:AD:87:GLU:H	1.87	0.73
9:AJ:39:PRO:HA	9:AJ:74:VAL:HG22	1.70	0.73
10:AK:42:GLY:HA3	10:AK:73:VAL:HG22	1.71	0.73
11:AL:66:ILE:HD13	11:AL:73:LEU:HD12	1.69	0.73
21:AU:40:PRO:HG2	21:AU:41:THR:H	1.54	0.73
23:BB:1453:A:N6	35:BN:74:GLU:HG2	2.04	0.73
26:BD:157:LYS:HZ3	26:BD:158:GLY:HA3	1.53	0.73
28:BF:126:ASN:HD22	28:BF:126:ASN:N	1.87	0.73
3:CD:84:ASN:HD21	3:CD:87:GLU:H	1.37	0.73
27:DE:126:VAL:HG11	27:DE:132:LYS:NZ	2.04	0.73
29:DG:11:PRO:HD2	29:DG:14:VAL:HG21	1.70	0.73
35:DN:32:GLU:HG3	35:DN:33:ILE:H	1.54	0.73
15:AP:67:ILE:HG13	15:AP:71:VAL:HG13	1.71	0.73
23:BB:2328:A:H2'	23:BB:2329:U:C6	2.24	0.73
25:BC:245:THR:O	25:BC:247:TRP:N	2.22	0.73
47:B0:45:ASP:HB2	47:B0:47:TYR:HD1	1.53	0.73
1:CA:812:G:H2'	1:CA:812:G:N3	2.02	0.73
22:DA:47:C:OP1	36:DO:1:MET:HA	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:116:LEU:HD11	20:AB:139:GLU:HB3	1.71	0.72
23:BB:442:G:H1'	27:BE:44:ARG:HD2	1.70	0.72
23:BB:1178:C:H2'	23:BB:1179:G:H8	1.53	0.72
26:BD:33:ARG:HG3	26:BD:93:GLY:HA2	1.70	0.72
37:BP:59:THR:HG23	37:BP:76:HIS:NE2	2.04	0.72
41:BT:8:LEU:HB3	44:BX:19:LEU:HD11	1.71	0.72
47:B0:39:ARG:HH11	47:B0:39:ARG:HB3	1.52	0.72
19:CT:66:ILE:HG13	19:CT:70:LYS:HG3	1.71	0.72
23:DB:1324:G:H1'	23:DB:1616:A:N6	2.04	0.72
35:DN:45:ARG:NH2	35:DN:113:ILE:HD12	2.03	0.72
40:DS:85:ILE:HD11	40:DS:93:ALA:HB1	1.70	0.72
46:DZ:5:ILE:HG13	46:DZ:51:VAL:HG13	1.69	0.72
12:AM:77:LYS:HA	12:AM:80:MET:HB3	1.71	0.72
23:BB:2498:C:O2'	23:BB:2499:C:H5'	1.89	0.72
25:BC:141:HIS:CD2	25:BC:193:GLU:H	2.07	0.72
37:BP:28:LYS:HD3	37:BP:44:GLY:N	2.03	0.72
41:BT:93:LEU:HD22	41:BT:93:LEU:H	1.53	0.72
42:BU:69:VAL:HG13	42:BU:77:GLY:H	1.54	0.72
46:BZ:25:ARG:HG3	46:BZ:26:SER:N	2.04	0.72
1:CA:1078:U:H4'	4:CE:137:ARG:HH12	1.54	0.72
3:CD:138:PRO:HA	3:CD:181:PHE:HD2	1.54	0.72
25:DC:224:MET:HA	25:DC:233:GLY:H	1.54	0.72
31:DJ:15:TRP:CB	31:DJ:139:VAL:HA	2.19	0.72
36:DO:50:ALA:HB1	36:DO:78:VAL:HG13	1.69	0.72
38:DQ:91:ARG:HA	38:DQ:94:LEU:HD21	1.71	0.72
48:D1:46:VAL:HG22	48:D1:47:ILE:H	1.53	0.72
28:BF:107:VAL:HG21	28:BF:175:PRO:HG3	1.71	0.72
2:CC:120:THR:HG23	2:CC:188:ALA:HB2	1.71	0.72
13:CN:42:ASN:HB3	13:CN:46:LYS:HE2	1.71	0.72
23:DB:2511:U:H5''	26:DD:129:THR:HG23	1.71	0.72
26:DD:42:ASN:O	26:DD:43:ASP:HB2	1.89	0.72
28:DF:102:LEU:HG	28:DF:107:VAL:HG23	1.69	0.72
31:DJ:112:GLY:O	31:DJ:116:ARG:HB2	1.88	0.72
33:DL:115:GLU:O	33:DL:116:VAL:HG22	1.89	0.72
38:DQ:70:GLN:HG2	38:DQ:71:ASN:N	2.05	0.72
1:AA:946:A:H2'	1:AA:947:G:C8	2.24	0.72
1:AA:1250:A:H4'	8:AI:69:GLY:H	1.54	0.72
3:AD:10:LEU:HD21	3:AD:62:ARG:HD3	1.71	0.72
8:AI:71:ILE:H	8:AI:71:ILE:HD12	1.55	0.72
25:BC:88:ALA:HB1	25:BC:156:SER:HB3	1.71	0.72
26:BD:8:LYS:HA	26:BD:197:THR:HG23	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:154:LYS:O	26:BD:155:VAL:HG12	1.88	0.72
27:BE:60:TRP:NE1	27:BE:73:ILE:HD11	2.03	0.72
36:BO:8:ILE:HG22	36:BO:10:ARG:H	1.52	0.72
43:BW:24:ARG:HB3	43:BW:57:THR:O	1.90	0.72
2:CC:182:ASP:HB3	2:CC:201:ILE:HB	1.70	0.72
9:CJ:25:ILE:HG23	9:CJ:87:LEU:HD12	1.70	0.72
13:CN:30:ILE:HG21	13:CN:43:ALA:HB3	1.70	0.72
23:DB:179:C:H5''	49:D2:28:ARG:NH1	2.05	0.72
23:DB:2257:U:H5'	43:DW:5:ALA:HB2	1.69	0.72
26:DD:30:GLU:HG2	26:DD:94:GLN:NE2	2.05	0.72
23:BB:1813:G:H21	25:BC:51:ARG:HG2	1.55	0.72
33:BL:30:THR:HB	33:BL:36:LYS:HB2	1.70	0.72
49:B2:13:ASN:HB2	49:B2:18:PHE:HD2	1.53	0.72
5:CF:6:ILE:HG23	5:CF:62:MET:HB3	1.71	0.72
12:CM:79:LEU:HA	12:CM:82:LEU:HG	1.72	0.72
12:CM:85:TYR:HA	12:CM:88:LEU:HD12	1.70	0.72
21:CU:17:ARG:HD2	21:CU:17:ARG:H	1.54	0.72
23:DB:28:A:N6	23:DB:512:G:H1'	2.04	0.72
26:DD:156:PHE:HB3	31:DJ:81:ILE:HG21	1.70	0.72
31:DJ:37:ARG:HH21	31:DJ:46:PRO:HB3	1.53	0.72
32:DK:104:THR:HG22	32:DK:105:ARG:HD3	1.71	0.72
2:AC:153:SER:HB2	2:AC:196:GLY:H	1.54	0.72
6:AG:13:PRO:HB2	6:AG:18:GLY:HA2	1.72	0.72
23:BB:442:G:H22	27:BE:46:GLN:NE2	1.87	0.72
23:BB:1913:A:H1'	23:BB:1914:C:OP1	1.90	0.72
26:BD:154:LYS:NZ	26:BD:157:LYS:H	1.86	0.72
11:CL:82:ARG:HH11	11:CL:82:ARG:HG2	1.54	0.72
22:DA:32:U:H1'	22:DA:52:A:N7	2.04	0.72
23:DB:179:C:H5''	49:D2:28:ARG:HH12	1.54	0.72
23:DB:1857:G:H2'	23:DB:1884:G:H22	1.55	0.72
25:DC:42:ARG:HE	25:DC:43:ASN:H	1.36	0.72
1:AA:501:C:H2'	1:AA:502:A:H8	1.53	0.72
3:AD:94:GLU:HG3	3:AD:103:ARG:HH12	1.55	0.72
9:AJ:92:LEU:H	9:AJ:92:LEU:HD22	1.55	0.72
20:AB:46:VAL:HA	20:AB:49:PHE:HD2	1.55	0.72
39:BR:42:ALA:HA	39:BR:54:VAL:HA	1.71	0.72
45:BY:10:ARG:NE	45:BY:31:ILE:HG13	2.02	0.72
1:CA:501:C:H2'	1:CA:502:A:H8	1.53	0.72
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.24	0.72
23:DB:1099:G:C5'	52:DI:4:VAL:H	2.03	0.72
23:DB:1639:C:C2'	23:DB:1640:A:H5''	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DV:21:ARG:HE	24:DV:87:GLN:HA	1.54	0.72
26:DD:36:GLN:HG2	26:DD:88:GLU:HA	1.70	0.72
35:DN:86:ARG:HH22	35:DN:116:VAL:HG12	1.54	0.72
12:AM:38:ILE:HG13	12:AM:55:LEU:HD21	1.72	0.72
23:BB:146:A:H2'	23:BB:147:C:C6	2.25	0.72
23:BB:2471:A:O2'	23:BB:2472:G:H8	1.73	0.72
26:BD:92:VAL:HG13	26:BD:93:GLY:H	1.53	0.72
38:BQ:88:GLU:HA	39:BR:53:PHE:CE1	2.25	0.72
44:BX:14:LEU:O	44:BX:17:GLU:HB2	1.87	0.72
3:CD:55:ARG:HG3	3:CD:55:ARG:NH1	2.05	0.72
13:CN:60:ARG:O	13:CN:61:ASN:HB2	1.90	0.72
1:AA:430:A:OP1	3:AD:8:LEU:HB2	1.89	0.72
1:AA:1218:C:H2'	1:AA:1219:A:C8	2.25	0.72
2:AC:179:ALA:HB1	2:AC:202:PHE:HE1	1.52	0.72
27:BE:131:THR:O	27:BE:134:LEU:HB2	1.90	0.72
33:BL:27:LEU:C	33:BL:29:LYS:H	1.93	0.72
33:BL:94:THR:HG23	33:BL:95:LEU:HD12	1.72	0.72
52:BI:21:PRO:HB2	52:BI:22:PRO:HD3	1.70	0.72
1:CA:1060:U:H5''	9:CJ:53:ILE:HG12	1.72	0.72
1:CA:1289:A:H3'	1:CA:1290:G:H8	1.53	0.72
8:CI:98:ARG:HG2	8:CI:103:VAL:HG11	1.72	0.72
20:CB:139:GLU:O	20:CB:143:LEU:HB2	1.90	0.72
23:DB:630:G:H1	33:DL:69:ARG:HH12	1.37	0.72
23:DB:2405:G:C5'	33:DL:70:LYS:HG3	2.19	0.72
26:DD:31:ALA:HB3	26:DD:95:SER:HB3	1.72	0.72
27:DE:106:LYS:HG3	27:DE:107:SER:N	2.05	0.72
30:DH:2:GLN:HA	30:DH:21:VAL:HG13	1.72	0.72
48:D1:7:LYS:HG2	48:D1:26:LYS:HB3	1.71	0.72
10:AK:56:LYS:O	10:AK:58:THR:HG22	1.90	0.72
11:AL:98:ARG:HE	11:AL:98:ARG:HA	1.55	0.72
23:BB:1797:G:O3'	25:BC:253:GLY:HA2	1.89	0.72
26:BD:129:THR:O	26:BD:130:GLN:HB2	1.90	0.72
26:BD:187:LEU:HD23	26:BD:188:LEU:N	2.05	0.72
32:BK:2:ILE:HG22	32:BK:67:LYS:NZ	2.04	0.72
37:BP:23:ASP:H	37:BP:93:LYS:HE2	1.54	0.72
40:BS:47:VAL:HG12	40:BS:103:ILE:HD13	1.70	0.72
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.53	0.72
21:CU:24:LYS:CD	21:CU:25:ALA:H	2.03	0.72
23:DB:2633:G:H1'	26:DD:62:LYS:HG3	1.71	0.72
29:DG:8:VAL:HG23	29:DG:49:LEU:H	1.52	0.72
43:DW:81:ILE:HG23	43:DW:83:ALA:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D4:15:LYS:NZ	51:D4:22:VAL:HG12	2.05	0.72
11:AL:35:ARG:HG3	11:AL:36:VAL:H	1.55	0.71
13:AN:63:CYS:HB3	13:AN:67:GLY:N	2.04	0.71
23:BB:1437:C:H2'	23:BB:1438:U:C6	2.25	0.71
27:BE:146:VAL:O	27:BE:147:LEU:HB2	1.88	0.71
37:BP:13:LYS:HZ2	37:BP:17:PRO:HG3	1.54	0.71
46:BZ:59:ARG:HH21	46:BZ:62:LYS:NZ	1.88	0.71
2:CC:11:LEU:HD22	2:CC:17:TRP:HE1	1.55	0.71
5:CF:29:ILE:HG21	5:CF:64:VAL:HG11	1.72	0.71
11:CL:78:VAL:HG12	11:CL:101:LEU:HD13	1.70	0.71
23:DB:1252:G:H21	38:DQ:32:ARG:NE	1.88	0.71
23:DB:1309:G:C4'	49:D2:7:PRO:HB2	2.19	0.71
23:DB:2393:U:H4'	33:DL:62:PRO:O	1.90	0.71
24:DV:30:ILE:HG12	24:DV:91:PHE:HB2	1.70	0.71
36:DO:74:VAL:O	36:DO:78:VAL:HG23	1.89	0.71
40:DS:3:THR:HG21	40:DS:107:VAL:HG22	1.69	0.71
43:DW:38:ARG:NH2	43:DW:40:ARG:HD3	2.02	0.71
1:AA:1471:U:O2'	1:AA:1472:U:H5'	1.90	0.71
12:AM:78:ARG:NH2	12:AM:79:LEU:HG	2.05	0.71
14:AO:70:LYS:HZ1	14:AO:74:VAL:HG13	1.54	0.71
21:AU:14:ALA:C	21:AU:16:ARG:CD	2.58	0.71
23:BB:78:U:H2'	23:BB:79:C:C6	2.25	0.71
23:BB:265:A:O2'	23:BB:266:G:H4'	1.90	0.71
34:BM:41:LEU:HB2	34:BM:93:VAL:HG22	1.70	0.71
45:BY:54:VAL:HG22	45:BY:55:LYS:H	1.55	0.71
1:CA:1296:C:H4'	1:CA:1302:C:C4	2.24	0.71
6:CG:14:ASP:HB3	6:CG:18:GLY:N	2.05	0.71
19:CT:19:HIS:O	19:CT:23:ARG:HG2	1.91	0.71
23:DB:1437:C:H2'	23:DB:1438:U:C6	2.25	0.71
23:DB:1903:G:H5''	25:DC:239:PHE:CE2	2.25	0.71
1:AA:239:U:OP1	1:AA:239:U:H4'	1.90	0.71
1:AA:878:A:H5''	7:AH:80:PRO:HG2	1.73	0.71
6:AG:100:MET:HA	6:AG:103:ILE:HD12	1.71	0.71
23:BB:85:G:H5'	42:BU:28:LEU:CA	2.21	0.71
23:BB:1993:U:H4'	26:BD:134:HIS:HE1	1.55	0.71
25:BC:127:ASN:HD22	25:BC:128:THR:H	1.35	0.71
26:BD:142:VAL:C	26:BD:144:GLY:N	2.39	0.71
26:BD:154:LYS:HZ3	26:BD:157:LYS:H	1.37	0.71
31:BJ:11:VAL:HG13	31:BJ:12:LYS:N	2.02	0.71
38:BQ:96:ASP:O	38:BQ:99:VAL:HG22	1.90	0.71
2:CC:149:LYS:HB2	2:CC:168:ARG:HG3	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:63:ILE:HG23	3:CD:64:TYR:CD1	2.25	0.71
23:DB:2088:A:H2'	23:DB:2089:C:H6	1.55	0.71
27:DE:115:GLN:CD	27:DE:184:ASP:HB2	2.10	0.71
31:DJ:89:PHE:HD1	31:DJ:92:MET:HG3	1.53	0.71
34:DM:77:PRO:HD3	34:DM:86:LYS:HD3	1.71	0.71
38:DQ:98:ALA:HA	38:DQ:105:PHE:CD1	2.24	0.71
39:DR:63:VAL:HG22	39:DR:64:VAL:N	2.03	0.71
1:AA:1179:A:H4'	8:AI:104:THR:HA	1.73	0.71
8:AI:40:ARG:H	8:AI:44:ARG:HE	1.39	0.71
23:BB:743:A:O2'	23:BB:744:U:H5'	1.91	0.71
23:BB:1486:U:H2'	23:BB:1487:U:C6	2.25	0.71
23:BB:2895:G:H2'	23:BB:2896:C:C6	2.25	0.71
28:BF:135:ILE:HD13	28:BF:138:PRO:HA	1.72	0.71
33:BL:62:PRO:O	50:B3:24:LYS:HD3	1.90	0.71
5:CF:29:ILE:HG22	5:CF:34:GLY:HA3	1.71	0.71
23:DB:414:C:H2'	23:DB:415:A:C8	2.25	0.71
23:DB:1060:U:C4	23:DB:1088:A:N6	2.58	0.71
28:DF:137:PHE:O	28:DF:139:GLU:HG2	1.90	0.71
34:DM:26:VAL:HG21	34:DM:66:ARG:HG3	1.72	0.71
38:DQ:47:ARG:O	38:DQ:51:GLN:HG3	1.90	0.71
52:DI:41:PHE:O	52:DI:45:THR:HG23	1.91	0.71
1:AA:1057:G:H5''	2:AC:153:SER:HB3	1.72	0.71
3:AD:156:ALA:O	3:AD:159:GLU:HG2	1.89	0.71
23:BB:1803:A:O3'	25:BC:254:LYS:HD2	1.90	0.71
33:BL:118:THR:CG2	33:BL:119:PRO:HD3	2.19	0.71
42:BU:40:LEU:HD13	42:BU:41:VAL:N	2.06	0.71
51:B4:24:ARG:HA	51:B4:34:LYS:O	1.90	0.71
20:CB:16:GLY:HA3	20:CB:39:ILE:HA	1.70	0.71
23:DB:1099:G:O4'	52:DI:3:LYS:O	2.07	0.71
25:DC:103:ILE:HG22	25:DC:104:LEU:H	1.53	0.71
28:DF:107:VAL:N	28:DF:108:PRO:HD2	2.05	0.71
38:DQ:48:ASP:HA	38:DQ:51:GLN:NE2	2.05	0.71
20:AB:96:LEU:HB2	20:AB:99:MET:HE3	1.72	0.71
23:BB:445:C:OP1	38:BQ:1:ALA:HB3	1.89	0.71
25:BC:50:THR:O	25:BC:51:ARG:HG3	1.89	0.71
33:BL:29:LYS:HD2	33:BL:30:THR:H	1.55	0.71
34:BM:100:LYS:O	34:BM:100:LYS:HD2	1.90	0.71
1:CA:1238:A:H5'	1:CA:1336:C:H41	1.56	0.71
8:CI:118:ARG:NH2	8:CI:122:ARG:HE	1.87	0.71
24:DV:70:ILE:HD12	24:DV:71:LYS:H	1.55	0.71
39:DR:64:VAL:HG22	39:DR:65:ALA:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:21:SER:H	41:DT:24:MET:HE3	1.53	0.71
23:BB:1060:U:C4	23:BB:1088:A:N6	2.58	0.71
38:BQ:30:VAL:O	38:BQ:33:VAL:HG12	1.91	0.71
40:BS:7:HIS:HB3	40:BS:102:HIS:HA	1.71	0.71
41:BT:8:LEU:HD23	41:BT:8:LEU:H	1.56	0.71
43:BW:47:GLY:HA3	43:BW:55:ASP:HB3	1.72	0.71
52:BI:135:MET:HG3	52:BI:137:LEU:HG	1.73	0.71
1:CA:1218:C:H2'	1:CA:1219:A:H8	1.55	0.71
8:CI:94:ARG:HB3	8:CI:98:ARG:NE	2.06	0.71
23:DB:365:U:H2'	23:DB:366:C:H6	1.55	0.71
29:DG:153:PRO:HA	29:DG:159:LYS:O	1.91	0.71
40:DS:84:ARG:HH21	40:DS:98:LYS:NZ	1.87	0.71
41:DT:47:VAL:HG22	41:DT:53:VAL:HG21	1.72	0.71
48:D1:8:ILE:HB	48:D1:27:ARG:NH1	2.05	0.71
23:BB:662:G:H4'	33:BL:24:GLY:N	2.05	0.71
23:BB:1083:U:H1'	23:BB:1086:A:H61	1.55	0.71
27:BE:4:VAL:HB	27:BE:117:ARG:HH21	1.56	0.71
46:BZ:69:SER:O	46:BZ:70:LYS:HB2	1.90	0.71
49:B2:34:ARG:HE	49:B2:42:LEU:HD13	1.55	0.71
1:CA:922:G:H2'	1:CA:923:A:C8	2.26	0.71
29:DG:3:VAL:HG22	29:DG:4:ALA:N	2.06	0.71
34:DM:71:LYS:O	34:DM:73:ILE:HG12	1.90	0.71
38:DQ:87:VAL:HB	39:DR:54:VAL:HG11	1.71	0.71
44:DX:26:PHE:HA	44:DX:29:ARG:HD2	1.73	0.71
12:AM:44:ILE:HA	12:AM:47:LEU:HD13	1.71	0.71
16:AQ:29:LYS:HD3	16:AQ:35:LYS:N	2.05	0.71
23:BB:25:U:H5''	40:BS:80:PRO:HD3	1.73	0.71
28:BF:133:GLU:HG2	28:BF:147:ARG:HG2	1.71	0.71
42:BU:11:ILE:HB	42:BU:69:VAL:HB	1.72	0.71
1:CA:1320:C:H41	18:CS:36:ARG:HG3	1.55	0.71
3:CD:21:LYS:HD3	3:CD:21:LYS:O	1.91	0.71
13:CN:51:PRO:HG2	13:CN:52:ARG:H	1.54	0.71
23:DB:1080:A:H4'	52:DI:126:ARG:HD3	1.71	0.71
23:DB:1440:U:H2'	23:DB:1441:G:H8	1.55	0.71
27:DE:138:LEU:O	27:DE:143:LEU:HD21	1.91	0.71
37:DP:13:LYS:HD2	37:DP:77:SER:HB2	1.73	0.71
23:BB:2052:A:H4'	26:BD:148:GLN:HG2	1.73	0.71
35:BN:101:GLY:HA2	35:BN:109:PRO:HA	1.73	0.71
35:BN:115:LEU:O	35:BN:116:VAL:HG12	1.91	0.71
39:BR:53:PHE:HB3	39:BR:55:ASP:H	1.47	0.71
1:CA:1386:G:H2'	1:CA:1387:G:H8	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:98:ARG:HA	8:CI:103:VAL:HG22	1.70	0.71
23:DB:718:A:H2'	23:DB:719:C:H5'	1.72	0.71
23:DB:1082:U:N3	23:DB:1086:A:C6	2.59	0.71
27:DE:164:LEU:HD13	27:DE:165:HIS:N	2.05	0.71
35:DN:45:ARG:HH21	35:DN:97:ILE:HG12	1.56	0.71
52:DI:5:GLN:O	52:DI:6:ALA:HB3	1.90	0.71
1:AA:1330:U:H2'	1:AA:1331:G:H5'	1.72	0.70
5:AF:86:ARG:HH11	17:AR:63:TYR:HB3	1.55	0.70
7:AH:49:LYS:HG3	7:AH:50:VAL:H	1.56	0.70
22:BA:49:C:H2'	22:BA:50:A:H8	1.56	0.70
25:BC:106:PRO:HD2	25:BC:109:LEU:HD22	1.72	0.70
26:BD:151:THR:O	26:BD:152:PRO:C	2.26	0.70
30:BH:134:VAL:HG13	30:BH:135:HIS:H	1.56	0.70
35:BN:44:LEU:O	35:BN:47:VAL:HG22	1.90	0.70
52:BI:32:VAL:HG22	52:BI:60:VAL:HG21	1.73	0.70
1:CA:239:U:H4'	1:CA:239:U:OP1	1.91	0.70
14:CO:72:LYS:O	14:CO:73:ASP:HB2	1.91	0.70
23:DB:743:A:O2'	23:DB:744:U:H5'	1.91	0.70
31:DJ:41:LYS:HZ2	38:DQ:63:ARG:HD2	1.54	0.70
47:D0:15:ARG:CZ	47:D0:15:ARG:HB3	2.21	0.70
49:D2:43:THR:O	49:D2:44:VAL:HG13	1.90	0.70
1:AA:412:A:H1'	1:AA:413:G:H8	1.54	0.70
10:AK:92:ARG:HH11	10:AK:92:ARG:HB3	1.55	0.70
10:AK:113:THR:HG21	21:AU:28:LEU:HD11	1.72	0.70
13:AN:30:ILE:H	13:AN:30:ILE:HD12	1.56	0.70
21:AU:29:ALA:CB	21:AU:32:ARG:HH21	2.02	0.70
23:BB:1082:U:N3	23:BB:1086:A:C6	2.60	0.70
27:BE:73:ILE:HG22	27:BE:73:ILE:O	1.91	0.70
1:CA:412:A:H1'	1:CA:413:G:H8	1.55	0.70
22:DA:61:G:H2'	22:DA:62:C:H6	1.55	0.70
23:DB:1099:G:O5'	52:DI:3:LYS:N	2.23	0.70
23:DB:2012:G:OP1	40:DS:98:LYS:HD3	1.91	0.70
23:DB:2291:U:H2'	23:DB:2292:U:C6	2.26	0.70
35:DN:8:ARG:HD2	35:DN:46:ARG:HE	1.54	0.70
36:DO:10:ARG:HD2	36:DO:94:ARG:HD2	1.72	0.70
2:AC:72:PRO:O	2:AC:76:ILE:HG12	1.90	0.70
11:AL:20:VAL:HG13	11:AL:94:TYR:HH	1.55	0.70
19:AT:81:GLN:O	19:AT:85:LEU:HB3	1.90	0.70
23:BB:1676:A:O2'	26:BD:133:THR:HG23	1.92	0.70
26:BD:3:GLY:HA2	26:BD:49:GLN:OE1	1.91	0.70
30:BH:57:LYS:HG3	30:BH:61:VAL:HG21	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:77:HIS:HD2	31:BJ:85:LYS:H	1.39	0.70
33:BL:82:LEU:HD13	33:BL:83:ALA:N	2.05	0.70
1:CA:1342:C:H2'	1:CA:1343:G:H8	1.57	0.70
1:CA:1526:G:P	21:CU:38:GLU:HB2	2.31	0.70
23:DB:532:A:N1	23:DB:2020:A:H1'	2.06	0.70
23:DB:1098:A:OP2	52:DI:3:LYS:HG2	1.91	0.70
23:DB:1486:U:H2'	23:DB:1487:U:C6	2.27	0.70
28:DF:35:LEU:HB3	28:DF:151:LEU:HD11	1.72	0.70
33:DL:79:LEU:HD11	33:DL:112:LEU:HD23	1.73	0.70
36:DO:73:ALA:HA	36:DO:76:LYS:HZ2	1.56	0.70
40:DS:28:LYS:HB3	40:DS:31:GLN:HB2	1.74	0.70
3:AD:194:ILE:HD13	3:AD:195:ASN:N	2.06	0.70
23:BB:590:A:H2'	23:BB:591:U:C6	2.27	0.70
23:BB:811:U:H2'	33:BL:31:GLY:HA3	1.71	0.70
25:BC:3:VAL:HG12	25:BC:4:LYS:H	1.56	0.70
26:BD:154:LYS:C	26:BD:156:PHE:H	1.91	0.70
30:BH:3:VAL:HG22	30:BH:21:VAL:HG11	1.72	0.70
31:BJ:24:THR:C	31:BJ:25:LEU:HD22	2.12	0.70
50:B3:41:ARG:HB3	50:B3:43:LEU:HD22	1.73	0.70
18:CS:30:LEU:H	18:CS:48:ILE:HA	1.57	0.70
21:CU:36:PHE:HB2	21:CU:39:LYS:HB2	1.73	0.70
23:DB:2311:A:N3	28:DF:39:VAL:HG23	2.07	0.70
23:DB:2684:U:H4'	32:DK:76:VAL:HG21	1.73	0.70
26:DD:34:VAL:HG12	26:DD:91:THR:HG23	1.73	0.70
31:DJ:96:ARG:HD2	31:DJ:99:ARG:HH21	1.56	0.70
35:DN:4:ARG:H	35:DN:4:ARG:NE	1.89	0.70
41:DT:66:LYS:HA	41:DT:76:ARG:O	1.90	0.70
1:AA:1458:G:H5'	19:AT:26:MET:HB2	1.73	0.70
9:AJ:56:HIS:O	9:AJ:57:VAL:HG12	1.92	0.70
15:AP:7:ALA:HB1	15:AP:29:ASN:HB3	1.74	0.70
25:BC:180:MET:HB2	25:BC:265:PHE:HB3	1.73	0.70
39:BR:90:ARG:NH1	39:BR:91:GLN:H	1.90	0.70
43:BW:6:GLY:C	43:BW:8:SER:H	1.94	0.70
43:BW:66:VAL:HG13	43:BW:67:LYS:H	1.56	0.70
23:DB:775:G:H4'	23:DB:776:G:H5'	1.73	0.70
23:DB:2144:G:O2'	23:DB:2145:C:H5'	1.90	0.70
23:DB:2196:C:O2'	23:DB:2197:U:H5'	1.91	0.70
23:DB:2305:U:H3	28:DF:149:ARG:HB3	1.56	0.70
31:DJ:18:VAL:O	31:DJ:56:VAL:HA	1.91	0.70
33:DL:34:GLY:HA3	39:DR:85:LYS:HD3	1.73	0.70
39:DR:68:ARG:HB2	39:DR:97:LYS:HG3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:4:LYS:O	44:DX:7:ARG:HG2	1.91	0.70
10:AK:19:VAL:HG12	10:AK:82:GLU:HB2	1.74	0.70
26:BD:148:GLN:HG3	26:BD:151:THR:OG1	1.91	0.70
38:BQ:10:ARG:CZ	38:BQ:10:ARG:HA	2.22	0.70
39:BR:6:GLN:HA	39:BR:10:LYS:HA	1.74	0.70
3:CD:141:VAL:HA	3:CD:180:THR:H	1.56	0.70
23:DB:876:C:C2	23:DB:877:A:H1'	2.27	0.70
25:DC:143:VAL:HG11	25:DC:173:LEU:HD11	1.74	0.70
26:DD:116:LYS:HB2	26:DD:165:MET:HG3	1.73	0.70
27:DE:147:LEU:HB3	27:DE:167:VAL:HG13	1.71	0.70
31:DJ:50:THR:H	31:DJ:118:MET:HE1	1.56	0.70
33:DL:124:GLY:N	33:DL:142:ILE:HA	2.05	0.70
36:DO:25:ARG:HH21	36:DO:94:ARG:NH1	1.90	0.70
52:DI:32:VAL:HG22	52:DI:60:VAL:HG21	1.73	0.70
6:AG:38:ALA:O	6:AG:41:ILE:HG22	1.92	0.70
11:AL:79:ILE:HD13	11:AL:96:THR:HG22	1.74	0.70
20:AB:204:ASP:CG	20:AB:205:ALA:H	1.95	0.70
20:AB:212:TYR:O	20:AB:216:VAL:HG23	1.92	0.70
23:BB:2064:C:H2'	23:BB:2065:C:C6	2.27	0.70
23:BB:2512:C:H4'	26:BD:146:ILE:HG12	1.72	0.70
23:BB:2575:C:C5'	26:BD:149:ASN:HB2	2.21	0.70
28:BF:63:LYS:HE2	28:BF:64:PRO:HD2	1.73	0.70
40:BS:8:ARG:CZ	40:BS:102:HIS:NE2	2.55	0.70
44:BX:21:LEU:HD23	44:BX:47:ARG:HG3	1.74	0.70
46:BZ:59:ARG:HE	46:BZ:62:LYS:HD2	1.56	0.70
4:CE:36:THR:HG22	4:CE:37:VAL:H	1.56	0.70
12:CM:18:LEU:HD22	12:CM:29:SER:HA	1.74	0.70
21:CU:37:TYR:O	21:CU:40:PRO:HD2	1.90	0.70
26:DD:33:ARG:HB2	26:DD:33:ARG:HH11	1.56	0.70
29:DG:40:VAL:HG22	29:DG:51:PHE:CE2	2.27	0.70
36:DO:40:ILE:HD13	36:DO:40:ILE:H	1.55	0.70
38:DQ:73:ILE:HG23	38:DQ:74:SER:N	2.05	0.70
42:DU:26:ASN:O	42:DU:28:LEU:HD23	1.90	0.70
49:D2:45:SER:HB3	49:D2:46:LYS:HE3	1.72	0.70
51:D4:3:VAL:HG12	51:D4:4:ARG:N	2.06	0.70
1:AA:1182:G:H4'	1:AA:1183:U:C5'	2.21	0.70
23:BB:851:C:O2'	45:BY:45:GLY:HA3	1.92	0.70
25:BC:107:LYS:H	25:BC:194:VAL:HG21	1.55	0.70
25:BC:117:SER:HB3	25:BC:127:ASN:CG	2.12	0.70
27:BE:31:VAL:HG22	27:BE:96:VAL:HG21	1.72	0.70
37:BP:92:ARG:CZ	37:BP:110:LYS:HB3	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CR:70:THR:HB	17:CR:72:ARG:NH1	2.06	0.70
21:CU:34:ARG:HG2	21:CU:35:GLU:N	2.06	0.70
22:DA:57:A:H4'	28:DF:26:GLN:NE2	2.07	0.70
23:DB:2574:G:H21	26:DD:147:GLY:HA2	1.56	0.70
27:DE:148:ILE:O	27:DE:148:ILE:HG13	1.92	0.70
29:DG:156:TYR:HA	29:DG:171:LYS:HG2	1.73	0.70
33:DL:90:VAL:H	33:DL:122:VAL:HG22	1.57	0.70
42:DU:11:ILE:HG22	42:DU:12:VAL:H	1.55	0.70
44:DX:1:MET:HB2	44:DX:6:LEU:HA	1.73	0.70
1:AA:186:C:H4'	19:AT:75:LYS:HB2	1.74	0.70
23:BB:101:A:OP1	42:BU:90:LYS:HB3	1.92	0.70
36:BO:17:LYS:HE2	43:BW:77:LYS:HD2	1.73	0.70
1:CA:473:U:H2'	1:CA:474:G:H8	1.57	0.70
10:CK:16:SER:CA	10:CK:78:ILE:HA	2.22	0.70
13:CN:31:SER:HA	13:CN:40:ARG:HA	1.74	0.70
1:AA:390:U:H2'	1:AA:391:G:C8	2.27	0.70
15:AP:42:ILE:HG22	15:AP:43:ALA:H	1.55	0.70
23:BB:775:G:H4'	23:BB:776:G:H5'	1.72	0.70
27:BE:119:ILE:HA	27:BE:189:THR:HA	1.74	0.70
27:BE:135:ALA:HA	27:BE:138:LEU:HB2	1.74	0.70
33:BL:63:LYS:HD3	50:B3:7:ARG:CZ	2.22	0.70
34:BM:100:LYS:HE3	34:BM:100:LYS:N	2.07	0.70
34:BM:108:VAL:N	34:BM:109:PRO:HD2	2.06	0.70
40:BS:66:ILE:H	40:BS:66:ILE:HD12	1.54	0.70
6:CG:11:ILE:HG21	6:CG:27:ASN:HD21	1.57	0.70
8:CI:79:ARG:HA	8:CI:82:ILE:HD12	1.74	0.70
23:DB:1141:U:H4'	23:DB:1142:A:O4'	1.91	0.70
27:DE:137:LYS:HA	27:DE:137:LYS:NZ	2.07	0.70
37:DP:47:ILE:CG2	37:DP:48:ALA:H	2.02	0.70
52:DI:1:ALA:H3	52:DI:3:LYS:HE2	1.56	0.70
23:BB:2484:G:H1'	34:BM:119:LEU:HD12	1.73	0.69
25:BC:42:ARG:HG2	25:BC:43:ASN:N	2.06	0.69
26:BD:11:MET:HG2	26:BD:12:THR:H	1.55	0.69
33:BL:25:SER:HB3	33:BL:27:LEU:HG	1.72	0.69
1:CA:1316:G:H2'	1:CA:1318:A:OP2	1.92	0.69
2:CC:39:ARG:NH2	13:CN:91:GLU:HB3	2.07	0.69
35:DN:8:ARG:NH1	35:DN:46:ARG:HG3	2.07	0.69
49:D2:25:LYS:HD2	49:D2:25:LYS:N	2.05	0.69
2:AC:57:GLU:HB2	2:AC:64:ARG:HB2	1.73	0.69
23:BB:2621:G:O2'	26:BD:164:GLN:HB2	1.93	0.69
26:BD:106:LYS:NZ	26:BD:208:LYS:HD3	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:81:ALA:HA	30:BH:146:VAL:HA	1.74	0.69
42:BU:7:ASP:HA	42:BU:24:VAL:HA	1.72	0.69
42:BU:79:ALA:O	42:BU:96:LYS:HA	1.92	0.69
4:CE:152:VAL:HG21	7:CH:98:LEU:HB3	1.74	0.69
23:DB:742:A:H2'	23:DB:743:A:H8	1.56	0.69
23:DB:2471:A:O2'	23:DB:2472:G:H8	1.74	0.69
39:DR:42:ALA:HB1	39:DR:53:PHE:CD1	2.27	0.69
1:AA:814:A:H5'	1:AA:1511:G:H4'	1.73	0.69
1:AA:922:G:H2'	1:AA:923:A:C8	2.27	0.69
23:BB:118:A:H5'	23:BB:119:A:H8	1.56	0.69
23:BB:630:G:H1	33:BL:69:ARG:NH2	1.90	0.69
23:BB:1440:U:H2'	23:BB:1441:G:H8	1.57	0.69
25:BC:127:ASN:HD22	25:BC:128:THR:N	1.90	0.69
26:BD:62:LYS:CD	26:BD:62:LYS:H	2.04	0.69
27:BE:146:VAL:O	27:BE:184:ASP:HB2	1.92	0.69
30:BH:125:THR:HA	30:BH:146:VAL:HB	1.73	0.69
31:BJ:17:VAL:HG13	31:BJ:57:LEU:HD21	1.73	0.69
32:BK:2:ILE:HD11	32:BK:8:LEU:HD11	1.75	0.69
33:BL:142:ILE:HG13	33:BL:143:GLU:H	1.56	0.69
34:BM:108:VAL:O	34:BM:110:GLU:N	2.25	0.69
11:CL:98:ARG:HB3	11:CL:116:TYR:HA	1.73	0.69
14:CO:88:ARG:HH22	23:DB:714:U:H3'	1.57	0.69
23:DB:1799:G:H4'	23:DB:1800:C:O5'	1.92	0.69
23:DB:1825:U:H5'	25:DC:244:VAL:HG22	1.73	0.69
26:DD:122:VAL:HA	26:DD:128:ARG:CG	2.21	0.69
32:DK:71:ARG:CB	32:DK:72:PRO:HD2	2.22	0.69
42:DU:71:ILE:HD12	42:DU:102:ILE:HD12	1.74	0.69
1:AA:1409:C:H42	1:AA:1491:G:H1	1.39	0.69
23:BB:2786:U:H4'	26:BD:66:GLY:HA2	1.74	0.69
25:BC:61:TYR:CD2	25:BC:84:PRO:HD2	2.28	0.69
25:BC:136:VAL:HG12	25:BC:165:ALA:HA	1.75	0.69
25:BC:181:ARG:NH1	25:BC:260:LYS:HD2	2.08	0.69
27:BE:128:ALA:HB3	27:BE:129:PRO:CD	2.20	0.69
50:B3:24:LYS:HZ3	50:B3:29:ARG:HH22	1.38	0.69
1:CA:1071:C:H2'	1:CA:1072:G:C8	2.27	0.69
4:CE:35:LEU:HD21	4:CE:136:VAL:HG21	1.72	0.69
11:CL:43:LYS:CB	11:CL:44:PRO:HD2	2.16	0.69
12:CM:10:ASP:HA	12:CM:44:ILE:HD11	1.72	0.69
14:CO:38:LEU:HD23	14:CO:55:LEU:HD13	1.73	0.69
23:DB:704:G:H1'	23:DB:727:A:N6	2.07	0.69
23:DB:1105:U:H2'	23:DB:1106:G:H8	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:210:ALA:HA	25:DC:213:ARG:HD2	1.74	0.69
26:DD:189:VAL:HG12	26:DD:190:LYS:H	1.57	0.69
27:DE:14:VAL:HG11	27:DE:16:GLU:OE1	1.91	0.69
29:DG:53:PRO:HG2	29:DG:61:TRP:CZ3	2.27	0.69
33:DL:79:LEU:HD23	33:DL:110:VAL:HB	1.75	0.69
42:DU:11:ILE:HB	42:DU:69:VAL:HG23	1.74	0.69
1:AA:541:G:O2'	3:AD:39:GLN:HB2	1.92	0.69
10:AK:88:PRO:HD3	21:AU:28:LEU:HD13	1.73	0.69
23:BB:1639:C:C2'	23:BB:1640:A:H5''	2.21	0.69
24:BV:76:ASP:HB2	34:BM:136:MET:SD	2.33	0.69
25:BC:22:GLU:HA	25:BC:202:ARG:CZ	2.21	0.69
26:BD:114:LYS:HB3	35:BN:3:HIS:NE2	2.08	0.69
27:BE:193:VAL:HG12	27:BE:194:LYS:HD2	1.73	0.69
33:BL:120:VAL:HG12	33:BL:138:ALA:HB3	1.73	0.69
1:CA:1009:U:H1'	1:CA:1021:A:N1	2.07	0.69
9:CJ:37:ARG:HB2	9:CJ:76:ILE:HA	1.72	0.69
23:DB:1225:G:OP1	39:DR:90:ARG:HD2	1.91	0.69
23:DB:1262:A:H2	47:D0:6:LYS:HD2	1.57	0.69
31:DJ:135:GLN:HE22	31:DJ:137:PRO:HB2	1.57	0.69
38:DQ:89:ILE:H	38:DQ:89:ILE:HD12	1.56	0.69
52:DI:55:PRO:HD3	52:DI:74:PRO:HD3	1.75	0.69
1:AA:71:A:H61	1:AA:99:C:H1'	1.56	0.69
23:BB:1485:U:H2'	23:BB:1486:U:C6	2.28	0.69
23:BB:1902:C:H4'	25:BC:240:GLY:O	1.92	0.69
25:BC:119:VAL:HG22	25:BC:133:ASN:HD21	1.57	0.69
33:BL:38:GLN:O	33:BL:39:LYS:HG3	1.92	0.69
38:BQ:52:ARG:NH2	38:BQ:55:GLN:HG2	2.07	0.69
42:BU:3:LYS:HE3	42:BU:81:ARG:NH2	2.07	0.69
47:B0:31:LYS:HD3	47:B0:47:TYR:HE2	1.57	0.69
7:CH:31:LEU:HG	7:CH:35:ILE:HD11	1.73	0.69
23:DB:922:C:H1'	43:DW:22:VAL:HG21	1.74	0.69
23:DB:936:A:H2'	23:DB:937:C:C6	2.28	0.69
29:DG:171:LYS:HZ2	29:DG:173:ALA:HA	1.57	0.69
33:DL:78:ARG:O	33:DL:81:ASP:HB2	1.92	0.69
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.28	0.69
1:AA:1320:C:H41	18:AS:36:ARG:HG2	1.57	0.69
1:AA:1326:U:H2'	1:AA:1327:C:C6	2.28	0.69
6:AG:149:ALA:HB1	10:AK:58:THR:HG21	1.75	0.69
15:AP:26:ASN:CG	15:AP:31:ARG:HB3	2.13	0.69
23:BB:150:U:H2'	23:BB:151:C:H6	1.58	0.69
26:BD:15:PHE:HD2	26:BD:18:ASP:HB2	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:62:GLU:HG3	39:BR:103:ALA:HA	1.75	0.69
39:BR:78:ARG:CB	39:BR:87:GLN:HA	2.20	0.69
41:BT:13:ALA:O	41:BT:32:LEU:HA	1.93	0.69
1:CA:390:U:H2'	1:CA:391:G:C8	2.27	0.69
1:CA:918:A:H2'	1:CA:919:A:C8	2.28	0.69
1:CA:1218:C:H2'	1:CA:1219:A:C8	2.28	0.69
2:CC:95:GLY:O	2:CC:96:VAL:HG13	1.91	0.69
3:CD:87:GLU:HG2	3:CD:187:ARG:HD3	1.75	0.69
4:CE:157:GLY:H	7:CH:43:GLY:HA3	1.57	0.69
9:CJ:57:VAL:HG22	9:CJ:58:ASN:H	1.56	0.69
18:CS:14:LEU:HD12	18:CS:15:LEU:N	2.07	0.69
23:DB:2185:U:H2'	23:DB:2186:G:O4'	1.93	0.69
25:DC:174:ARG:HG3	25:DC:180:MET:HG3	1.74	0.69
26:DD:89:GLU:HB3	26:DD:92:VAL:O	1.93	0.69
26:DD:140:HIS:O	26:DD:141:ARG:HG2	1.92	0.69
27:DE:4:VAL:HA	27:DE:14:VAL:HG22	1.74	0.69
32:DK:110:GLU:HA	32:DK:113:MET:HG2	1.73	0.69
33:DL:109:LYS:HB2	33:DL:109:LYS:NZ	2.08	0.69
52:DI:9:LYS:HG2	52:DI:57:VAL:HG22	1.74	0.69
1:AA:473:U:H2'	1:AA:474:G:H8	1.58	0.69
1:AA:673:A:H2'	1:AA:674:G:C8	2.27	0.69
21:AU:14:ALA:CA	21:AU:16:ARG:HD2	2.22	0.69
23:BB:450:G:H4'	27:BE:47:LYS:HZ2	1.57	0.69
23:BB:990:A:H1'	23:BB:1156:A:C2	2.27	0.69
23:BB:2512:C:H1'	26:BD:146:ILE:HG23	1.75	0.69
25:BC:50:THR:C	25:BC:51:ARG:HG3	2.12	0.69
25:BC:110:LYS:HD2	25:BC:111:ALA:N	2.07	0.69
25:BC:110:LYS:HD2	25:BC:111:ALA:H	1.55	0.69
27:BE:118:LEU:HD12	27:BE:187:VAL:HG12	1.73	0.69
28:BF:33:ILE:HG13	28:BF:34:THR:H	1.58	0.69
29:BG:9:VAL:HG23	29:BG:47:ASN:HB2	1.74	0.69
33:BL:78:ARG:HH21	33:BL:82:LEU:HD23	1.58	0.69
33:BL:106:GLU:HG2	33:BL:107:PHE:H	1.57	0.69
37:BP:22:GLY:HA3	37:BP:91:VAL:HG13	1.75	0.69
42:BU:43:LYS:HA	42:BU:57:ILE:HA	1.74	0.69
43:BW:43:LYS:HG2	43:BW:76:ARG:NH2	2.07	0.69
46:BZ:3:LYS:HE3	46:BZ:8:LYS:HA	1.75	0.69
46:BZ:63:ARG:HA	46:BZ:63:ARG:NE	2.07	0.69
1:CA:17:U:H2'	1:CA:18:C:C6	2.27	0.69
1:CA:279:A:H5''	1:CA:280:C:H3'	1.75	0.69
3:CD:160:LEU:HD13	3:CD:161:ALA:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CP:40:ASN:HD21	15:CP:42:ILE:HG12	1.57	0.69
19:CT:38:ILE:HD11	19:CT:82:ILE:HG22	1.74	0.69
21:CU:48:LYS:HA	21:CU:51:ALA:HB3	1.73	0.69
23:DB:1028:A:H2'	23:DB:1029:A:C8	2.28	0.69
23:DB:1174:U:H1'	23:DB:1176:U:C4	2.28	0.69
23:DB:2511:U:H5''	26:DD:129:THR:CG2	2.22	0.69
23:DB:2620:C:OP1	26:DD:157:LYS:HB2	1.92	0.69
23:DB:2898:U:O2'	31:DJ:137:PRO:HB3	1.91	0.69
27:DE:190:ALA:HB3	27:DE:193:VAL:HG22	1.73	0.69
28:DF:56:LEU:HD13	28:DF:88:VAL:HG21	1.75	0.69
31:DJ:41:LYS:HG2	38:DQ:63:ARG:NH1	2.08	0.69
38:DQ:29:ARG:HH11	38:DQ:29:ARG:HA	1.56	0.69
40:DS:25:ARG:HD2	40:DS:26:GLY:N	2.08	0.69
41:DT:15:HIS:O	41:DT:16:VAL:HB	1.93	0.69
42:DU:95:PHE:HD2	42:DU:99:SER:HB3	1.56	0.69
43:DW:42:THR:H	43:DW:65:LYS:HA	1.57	0.69
18:AS:48:ILE:HB	18:AS:59:VAL:HB	1.73	0.69
20:AB:102:ASN:O	20:AB:106:VAL:HG23	1.93	0.69
23:BB:1565:C:OP1	25:BC:23:LEU:HD23	1.93	0.69
32:BK:85:VAL:HG11	32:BK:115:ILE:HD12	1.73	0.69
33:BL:56:PRO:HA	33:BL:60:ARG:CZ	2.23	0.69
39:BR:66:HIS:H	39:BR:98:ILE:HD13	1.57	0.69
1:CA:439:U:H4'	3:CD:120:LYS:HD2	1.74	0.69
4:CE:87:VAL:HG13	4:CE:88:HIS:N	2.07	0.69
9:CJ:32:THR:HG23	9:CJ:33:GLY:H	1.58	0.69
23:DB:65:U:H2'	23:DB:66:C:H6	1.58	0.69
23:DB:1118:C:H2'	23:DB:1119:U:H6	1.58	0.69
23:DB:1368:G:H5''	49:D2:25:LYS:HE3	1.75	0.69
29:DG:39:ALA:HB1	29:DG:54:ARG:HB2	1.74	0.69
30:DH:8:LYS:HE2	30:DH:9:VAL:H	1.57	0.69
34:DM:53:MET:O	34:DM:112:LEU:HD21	1.93	0.69
43:DW:44:PHE:HB3	43:DW:77:LYS:CB	2.23	0.69
4:AE:101:GLY:H	4:AE:121:ASN:HD21	1.41	0.69
13:AN:50:LEU:HD23	13:AN:51:PRO:HD3	1.73	0.69
25:BC:27:LYS:N	25:BC:28:PRO:CD	2.56	0.69
30:BH:6:LEU:HA	30:BH:15:LEU:C	2.14	0.69
31:BJ:10:THR:HB	31:BJ:13:ARG:HH12	1.58	0.69
33:BL:56:PRO:C	33:BL:60:ARG:HB2	2.13	0.69
36:BO:55:GLU:HG3	36:BO:56:LYS:H	1.58	0.69
11:CL:77:SER:O	11:CL:79:ILE:HG23	1.92	0.69
20:CB:65:LYS:HB2	20:CB:157:PRO:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:125:A:H4'	49:D2:13:ASN:HD21	1.54	0.69
23:DB:946:C:H2'	23:DB:947:A:H8	1.58	0.69
23:DB:2025:C:H2'	23:DB:2026:U:C6	2.28	0.69
25:DC:156:SER:O	25:DC:195:GLY:HA3	1.93	0.69
39:DR:22:LEU:HD12	39:DR:23:GLU:H	1.58	0.69
43:DW:66:VAL:HG22	43:DW:67:LYS:N	2.08	0.69
47:D0:36:LYS:HB2	47:D0:41:HIS:HA	1.74	0.69
1:AA:780:A:O2'	1:AA:781:A:H5''	1.91	0.68
1:AA:1208:C:H2'	1:AA:1209:C:O4'	1.93	0.68
9:AJ:6:ILE:HG12	9:AJ:102:LEU:HD11	1.74	0.68
9:AJ:52:LEU:HB2	13:AN:80:ARG:HD2	1.74	0.68
11:AL:80:LEU:HD23	11:AL:97:VAL:HG21	1.74	0.68
23:BB:1594:U:H2'	23:BB:1595:C:C6	2.27	0.68
28:BF:174:PHE:N	28:BF:175:PRO:CD	2.57	0.68
37:BP:5:LYS:C	37:BP:7:LEU:H	1.96	0.68
39:BR:54:VAL:CA	39:BR:54:VAL:CG1	2.69	0.68
1:CA:268:U:H2'	1:CA:269:C:C6	2.28	0.68
12:CM:14:ALA:HB3	12:CM:40:GLU:HA	1.75	0.68
23:DB:1201:U:H2'	23:DB:1202:G:H8	1.58	0.68
25:DC:193:GLU:O	25:DC:194:VAL:HG13	1.93	0.68
26:DD:22:ILE:O	26:DD:22:ILE:HG13	1.93	0.68
26:DD:62:LYS:HG2	26:DD:63:PRO:HD3	1.75	0.68
30:DH:129:GLU:HA	30:DH:143:ILE:HA	1.75	0.68
34:DM:20:LEU:HD13	34:DM:38:ARG:HG3	1.75	0.68
43:DW:39:GLN:HG2	43:DW:66:VAL:O	1.93	0.68
43:DW:44:PHE:HB3	43:DW:77:LYS:HB3	1.75	0.68
43:DW:67:LYS:HG2	43:DW:71:LYS:HB2	1.74	0.68
1:AA:518:C:H2'	1:AA:530:G:C8	2.28	0.68
2:AC:154:GLY:HA3	2:AC:162:ALA:HB1	1.76	0.68
23:BB:2052:A:H5'	26:BD:148:GLN:C	2.12	0.68
25:BC:155:ARG:HB3	25:BC:159:THR:HG21	1.74	0.68
30:BH:73:ASN:ND2	30:BH:74:ALA:H	1.91	0.68
41:BT:30:ILE:HG22	41:BT:85:VAL:HG22	1.74	0.68
41:BT:66:LYS:H	41:BT:77:ARG:HA	1.56	0.68
1:CA:559:A:H4'	1:CA:560:A:H3'	1.75	0.68
1:CA:1030:U:H5''	1:CA:1031:C:H5	1.57	0.68
7:CH:11:THR:HG22	7:CH:14:ARG:HH12	1.56	0.68
10:CK:83:VAL:HG21	10:CK:96:ILE:HG23	1.74	0.68
23:DB:570:G:H2'	23:DB:2030:A:N7	2.08	0.68
23:DB:2615:U:H1'	47:D0:3:GLN:HG3	1.74	0.68
23:DB:2680:U:H5'	26:DD:194:PRO:HA	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:95:ALA:HB1	29:DG:130:ILE:HD11	1.75	0.68
31:DJ:97:PRO:O	31:DJ:100:VAL:HG12	1.93	0.68
38:DQ:102:LYS:O	38:DQ:106:THR:HG22	1.92	0.68
45:DY:26:LEU:HD12	45:DY:28:LEU:HD22	1.74	0.68
52:DI:1:ALA:N	52:DI:3:LYS:HE2	2.08	0.68
1:AA:1021:A:H2'	1:AA:1022:A:O4'	1.93	0.68
5:AF:37:HIS:CE1	5:AF:65:GLU:HB2	2.29	0.68
8:AI:112:ARG:NH1	8:AI:112:ARG:HB2	2.07	0.68
11:AL:24:GLU:HB3	11:AL:26:CYS:SG	2.34	0.68
20:AB:141:GLU:O	20:AB:145:ASN:HB2	1.93	0.68
23:BB:1857:G:H2'	23:BB:1884:G:H22	1.57	0.68
23:BB:2155:U:H2'	23:BB:2156:G:O4'	1.91	0.68
23:BB:2301:C:H2'	23:BB:2302:U:C6	2.28	0.68
25:BC:140:VAL:O	25:BC:141:HIS:HB2	1.93	0.68
26:BD:37:VAL:HG22	26:BD:46:ARG:HE	1.57	0.68
26:BD:170:VAL:HG13	26:BD:171:THR:N	2.06	0.68
31:BJ:43:GLU:HG3	31:BJ:44:TYR:H	1.58	0.68
34:BM:108:VAL:N	34:BM:109:PRO:CD	2.56	0.68
35:BN:73:ASN:N	35:BN:73:ASN:HD22	1.92	0.68
42:BU:38:ILE:HB	42:BU:62:ALA:HB3	1.75	0.68
50:B3:7:ARG:NE	50:B3:11:LYS:HZ3	1.90	0.68
10:CK:69:CYS:O	10:CK:73:VAL:HG13	1.92	0.68
23:DB:1285:A:H2'	23:DB:1286:A:H5''	1.73	0.68
23:DB:1485:U:H2'	23:DB:1486:U:C6	2.28	0.68
23:DB:1797:G:O3'	25:DC:253:GLY:HA2	1.91	0.68
25:DC:179:GLU:OE2	25:DC:266:ILE:HA	1.93	0.68
37:DP:80:VAL:O	37:DP:80:VAL:HG13	1.92	0.68
1:AA:1060:U:H5''	9:AJ:53:ILE:HG22	1.75	0.68
1:AA:1218:C:H2'	1:AA:1219:A:H8	1.55	0.68
9:AJ:40:ILE:HG13	9:AJ:73:LEU:HB3	1.75	0.68
1:CA:429:U:P	3:CD:12:ARG:HH21	2.16	0.68
1:CA:1031:C:H4'	1:CA:1032:G:C5'	2.24	0.68
1:CA:1080:A:H4'	4:CE:20:VAL:HG21	1.75	0.68
21:CU:4:LYS:HB3	21:CU:6:ARG:NH1	2.04	0.68
23:DB:135:U:H2'	23:DB:136:G:C8	2.27	0.68
23:DB:2395:C:H2'	23:DB:2396:G:O4'	1.93	0.68
33:DL:62:PRO:HB3	50:D3:12:ARG:CD	2.24	0.68
35:DN:86:ARG:NE	35:DN:117:ASP:HA	2.08	0.68
36:DO:15:ARG:NH1	43:DW:76:ARG:HD2	2.07	0.68
39:DR:47:VAL:CG1	39:DR:49:ILE:HG12	2.22	0.68
42:DU:27:VAL:HA	42:DU:33:VAL:HG22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:D1:24:LYS:HZ3	48:D1:24:LYS:HB2	1.58	0.68
1:AA:268:U:H2'	1:AA:269:C:C6	2.28	0.68
9:AJ:71:LEU:H	9:AJ:71:LEU:HD12	1.58	0.68
23:BB:1182:G:H2'	23:BB:1183:U:O4'	1.93	0.68
25:BC:74:PRO:HB2	25:BC:96:LYS:HE3	1.74	0.68
25:BC:155:ARG:HG2	25:BC:155:ARG:HH21	1.59	0.68
25:BC:220:ARG:HA	25:BC:220:ARG:NE	2.09	0.68
33:BL:85:VAL:CG2	33:BL:98:ALA:H	2.06	0.68
42:BU:3:LYS:HE3	42:BU:81:ARG:HH22	1.59	0.68
2:CC:116:ALA:HB1	2:CC:186:SER:OG	1.94	0.68
16:CQ:59:GLU:O	16:CQ:75:VAL:HG22	1.93	0.68
23:DB:2755:C:H2'	51:D4:19:ARG:NH2	2.09	0.68
25:DC:216:ARG:HB3	25:DC:217:PRO:CD	2.23	0.68
27:DE:103:GLY:O	27:DE:106:LYS:HG2	1.92	0.68
33:DL:78:ARG:NE	33:DL:113:ALA:HB1	2.08	0.68
39:DR:78:ARG:HD3	39:DR:88:GLY:O	1.94	0.68
40:DS:3:THR:OG1	40:DS:57:ASN:HB2	1.94	0.68
45:DY:2:LYS:HB3	45:DY:6:ILE:HD13	1.75	0.68
45:DY:4:ILE:HG23	45:DY:5:LYS:HD3	1.74	0.68
49:D2:13:ASN:HA	49:D2:16:HIS:O	1.92	0.68
51:D4:26:ILE:CG1	51:D4:35:GLN:H	2.00	0.68
1:AA:1000:A:H2'	1:AA:1001:C:C6	2.29	0.68
11:AL:28:GLN:HG3	11:AL:80:LEU:HD21	1.74	0.68
18:AS:49:ALA:HA	18:AS:57:VAL:O	1.93	0.68
21:AU:7:GLU:OE2	21:AU:15:LEU:HD22	1.93	0.68
21:AU:14:ALA:HA	21:AU:16:ARG:HD2	1.76	0.68
23:BB:1799:G:H4'	23:BB:1800:C:O5'	1.92	0.68
25:BC:68:ARG:HH21	25:BC:190:THR:HG23	1.59	0.68
31:BJ:37:ARG:HH21	31:BJ:110:PRO:HG3	1.58	0.68
34:BM:70:ASP:H	34:BM:71:LYS:HZ2	1.41	0.68
48:B1:46:VAL:HG22	48:B1:47:ILE:H	1.59	0.68
49:B2:33:ARG:O	49:B2:37:LYS:HB2	1.93	0.68
20:CB:185:ILE:HA	20:CB:199:ILE:HG13	1.74	0.68
23:DB:536:G:H5''	38:DQ:52:ARG:HH22	1.58	0.68
23:DB:1368:G:H5'	49:D2:25:LYS:HG2	1.74	0.68
23:DB:1406:U:H2'	23:DB:1407:G:H8	1.58	0.68
30:DH:122:LEU:HD13	30:DH:146:VAL:HG22	1.74	0.68
31:DJ:135:GLN:HE21	31:DJ:138:GLN:H	1.41	0.68
33:DL:58:TYR:HE1	50:D3:51:LYS:HG2	1.58	0.68
37:DP:90:ALA:H	37:DP:112:ARG:HH21	1.41	0.68
44:DX:25:GLN:O	44:DX:29:ARG:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:64:VAL:HA	12:AM:68:LEU:HD12	1.76	0.68
23:BB:1113:U:H5''	29:BG:2:ARG:N	2.09	0.68
26:BD:117:GLY:O	26:BD:165:MET:HB2	1.94	0.68
33:BL:95:LEU:HD12	33:BL:95:LEU:H	1.58	0.68
37:BP:77:SER:HB2	37:BP:78:PRO:HD3	1.76	0.68
39:BR:18:GLN:HB3	39:BR:99:THR:HA	1.75	0.68
23:DB:304:U:H2'	23:DB:305:C:C6	2.29	0.68
23:DB:864:G:O2'	23:DB:865:C:H5'	1.94	0.68
27:DE:136:GLN:O	27:DE:139:LYS:HG2	1.94	0.68
35:DN:86:ARG:NH2	35:DN:116:VAL:HG12	2.09	0.68
40:DS:46:LEU:CA	40:DS:49:LYS:HB2	2.13	0.68
49:D2:12:ARG:HG2	49:D2:46:LYS:HA	1.75	0.68
16:AQ:20:ILE:HG13	16:AQ:45:VAL:HB	1.73	0.68
17:AR:46:THR:HG23	17:AR:51:GLN:HB2	1.75	0.68
23:BB:191:A:H2'	23:BB:192:C:C6	2.29	0.68
23:BB:320:A:H4'	23:BB:322:A:N7	2.09	0.68
23:BB:1060:U:O2	23:BB:1088:A:N7	2.27	0.68
23:BB:1354:A:H2'	23:BB:1355:G:O4'	1.94	0.68
23:BB:2307:G:H4'	23:BB:2311:A:H61	1.58	0.68
23:BB:2723:C:OP1	35:BN:3:HIS:HB3	1.94	0.68
27:BE:164:LEU:O	27:BE:165:HIS:HB2	1.93	0.68
31:BJ:67:ASN:O	31:BJ:70:THR:HG22	1.94	0.68
34:BM:8:LYS:HD2	34:BM:70:ASP:HA	1.76	0.68
35:BN:10:LEU:H	35:BN:17:ARG:NH1	1.88	0.68
36:BO:15:ARG:HH22	36:BO:17:LYS:HD2	1.59	0.68
38:BQ:92:LYS:HG2	38:BQ:93:ILE:H	1.59	0.68
41:BT:65:GLY:O	41:BT:66:LYS:HB3	1.93	0.68
1:CA:673:A:H2'	1:CA:674:G:C8	2.28	0.68
1:CA:1436:U:H2'	1:CA:1437:A:H8	1.58	0.68
21:CU:15:LEU:HA	21:CU:17:ARG:HH11	1.59	0.68
23:DB:160:A:N6	23:DB:167:A:H1'	2.09	0.68
33:DL:39:LYS:HZ2	33:DL:39:LYS:CA	2.06	0.68
1:AA:967:C:H3'	1:AA:968:A:H5'	1.75	0.68
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.29	0.68
12:AM:109:LYS:HG3	12:AM:110:GLY:H	1.59	0.68
14:AO:68:TYR:CZ	14:AO:72:LYS:HG3	2.29	0.68
23:BB:956:G:N2	23:BB:959:A:H3'	2.09	0.68
23:BB:1112:G:H5'	29:BG:2:ARG:HE	1.58	0.68
23:BB:1454:C:C5'	35:BN:63:ARG:HH21	2.07	0.68
23:BB:2769:U:H2'	23:BB:2770:G:H8	1.58	0.68
25:BC:22:GLU:HA	25:BC:202:ARG:NH2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:40:VAL:HG13	29:BG:52:GLY:O	1.92	0.68
31:BJ:58:ASN:ND2	31:BJ:128:ASN:HB2	2.08	0.68
34:BM:101:VAL:O	34:BM:102:LEU:HD12	1.94	0.68
42:BU:95:PHE:HD1	42:BU:96:LYS:HG2	1.59	0.68
46:BZ:5:ILE:HB	46:BZ:51:VAL:HG12	1.74	0.68
1:CA:518:C:H2'	1:CA:530:G:C8	2.29	0.68
1:CA:1342:C:H2'	1:CA:1343:G:C8	2.28	0.68
2:CC:166:TRP:HE1	2:CC:168:ARG:HB2	1.58	0.68
4:CE:87:VAL:HG22	4:CE:88:HIS:H	1.58	0.68
19:CT:27:MET:HG2	19:CT:31:ILE:HD11	1.75	0.68
29:DG:71:LEU:HA	29:DG:74:MET:SD	2.34	0.68
30:DH:115:VAL:HG22	30:DH:117:LEU:H	1.59	0.68
33:DL:3:LEU:HD23	33:DL:4:ASN:H	1.59	0.68
13:AN:66:THR:HG23	13:AN:67:GLY:H	1.59	0.68
22:BA:98:G:H1	24:BV:14:LYS:HB2	1.58	0.68
23:BB:1568:G:OP1	25:BC:61:TYR:HB2	1.94	0.68
23:BB:1818:U:H5''	25:BC:155:ARG:CG	2.24	0.68
23:BB:2840:C:H5''	35:BN:53:THR:HG21	1.75	0.68
1:CA:1225:A:H5'	12:CM:101:THR:OG1	1.93	0.68
4:CE:95:MET:HA	4:CE:124:ALA:HB2	1.74	0.68
5:CF:3:HIS:HB3	5:CF:92:THR:CA	2.22	0.68
6:CG:59:GLU:HA	6:CG:62:GLU:OE2	1.93	0.68
9:CJ:39:PRO:HA	9:CJ:74:VAL:HG22	1.76	0.68
13:CN:62:ARG:H	13:CN:72:PHE:HZ	1.41	0.68
23:DB:992:C:H4'	38:DQ:46:TYR:OH	1.94	0.68
23:DB:1856:U:H2'	23:DB:1857:G:O4'	1.94	0.68
25:DC:224:MET:O	25:DC:225:ASN:HB2	1.92	0.68
29:DG:17:LYS:NZ	29:DG:19:ASN:HB2	2.09	0.68
39:DR:73:LYS:HD2	39:DR:73:LYS:N	2.08	0.68
41:DT:62:VAL:HG23	41:DT:63:VAL:H	1.59	0.68
45:DY:26:LEU:HB2	45:DY:28:LEU:HD13	1.74	0.68
47:D0:41:HIS:CD2	47:D0:46:GLY:HA2	2.29	0.68
50:D3:33:THR:C	50:D3:34:LYS:HD2	2.15	0.68
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.76	0.67
1:AA:1241:G:H2'	1:AA:1242:G:H8	1.59	0.67
12:AM:9:PRO:O	12:AM:44:ILE:HG12	1.94	0.67
23:BB:479:A:N3	23:BB:481:G:H5''	2.09	0.67
24:BV:57:TYR:HB3	34:BM:133:LYS:HG3	1.76	0.67
25:BC:28:PRO:HB2	25:BC:79:ARG:HH21	1.59	0.67
29:BG:175:LYS:HD3	29:BG:176:LYS:N	2.09	0.67
31:BJ:11:VAL:HG11	31:BJ:44:TYR:CE1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:98:LEU:O	35:BN:111:ALA:HA	1.94	0.67
37:BP:70:GLU:HG2	37:BP:71:ARG:HG2	1.75	0.67
42:BU:60:LYS:HG3	42:BU:61:GLU:H	1.58	0.67
52:BI:11:GLN:HA	52:BI:55:PRO:HA	1.74	0.67
20:CB:94:ARG:HE	20:CB:94:ARG:N	1.93	0.67
23:DB:483:A:H2'	23:DB:484:C:H5'	1.76	0.67
23:DB:1098:A:C4'	52:DI:3:LYS:HB3	2.22	0.67
23:DB:1508:A:H5''	23:DB:1509:A:N7	2.09	0.67
23:DB:2769:U:H2'	23:DB:2770:G:H8	1.58	0.67
29:DG:15:ASP:HB2	29:DG:26:LYS:HE3	1.76	0.67
34:DM:38:ARG:HD2	34:DM:39:GLY:N	2.09	0.67
37:DP:90:ALA:HB3	37:DP:112:ARG:N	2.08	0.67
45:DY:2:LYS:CB	45:DY:37:ARG:HB2	2.24	0.67
20:AB:67:LEU:HD21	20:AB:157:PRO:HG3	1.76	0.67
23:BB:91:A:H2'	23:BB:92:U:C6	2.29	0.67
25:BC:19:VAL:HG12	25:BC:20:ASN:N	2.08	0.67
25:BC:22:GLU:HA	25:BC:202:ARG:NE	2.09	0.67
28:BF:107:VAL:N	28:BF:108:PRO:CD	2.55	0.67
29:BG:29:ASN:N	29:BG:29:ASN:HD22	1.92	0.67
30:BH:82:SER:HB2	30:BH:94:ILE:HD11	1.74	0.67
38:BQ:57:ARG:HD2	38:BQ:92:LYS:HZ2	1.59	0.67
13:CN:26:LEU:HA	13:CN:29:ILE:HD12	1.75	0.67
23:DB:448:U:H6	27:DE:79:ARG:HG3	1.58	0.67
23:DB:1178:C:H2'	23:DB:1179:G:C8	2.29	0.67
23:DB:1387:A:H2'	23:DB:1388:G:H8	1.58	0.67
27:DE:164:LEU:HD22	27:DE:164:LEU:O	1.94	0.67
7:AH:111:THR:H	7:AH:114:ALA:HB3	1.60	0.67
7:AH:111:THR:HG23	7:AH:114:ALA:HB2	1.76	0.67
23:BB:2039:U:H2'	23:BB:2040:G:H8	1.59	0.67
33:BL:118:THR:N	33:BL:119:PRO:CD	2.56	0.67
23:DB:165:A:H2'	23:DB:166:U:H6	1.59	0.67
23:DB:590:A:H2'	23:DB:591:U:C6	2.28	0.67
23:DB:742:A:H2'	23:DB:743:A:C8	2.28	0.67
23:DB:1060:U:O2	23:DB:1088:A:N7	2.27	0.67
23:DB:1197:G:H2'	23:DB:1198:U:H6	1.59	0.67
23:DB:2157:G:N3	23:DB:2157:G:H2'	2.09	0.67
23:DB:2393:U:H5'	33:DL:61:LEU:O	1.95	0.67
27:DE:143:LEU:N	27:DE:143:LEU:HD22	2.08	0.67
1:AA:279:A:H5''	1:AA:280:C:H3'	1.74	0.67
2:AC:33:ASP:HB2	13:AN:64:ARG:HD3	1.75	0.67
3:AD:12:ARG:HD2	3:AD:37:PRO:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2270:A:H4'	43:BW:18:LYS:CG	2.25	0.67
30:BH:26:ALA:HB1	30:BH:31:VAL:HG23	1.76	0.67
31:BJ:77:HIS:CD2	31:BJ:84:ILE:HB	2.29	0.67
34:BM:40:ARG:HH11	34:BM:92:TRP:HE3	1.40	0.67
36:BO:10:ARG:HH11	36:BO:10:ARG:HG3	1.59	0.67
46:BZ:26:SER:O	46:BZ:28:VAL:HG13	1.93	0.67
23:DB:1820:U:H3	25:DC:197:ALA:CB	2.07	0.67
24:DV:9:ARG:HH12	24:DV:12:GLN:HA	1.58	0.67
26:DD:70:LYS:H	26:DD:92:VAL:HG11	1.59	0.67
26:DD:77:ARG:NH1	26:DD:77:ARG:HB2	2.08	0.67
31:DJ:35:ARG:HB3	31:DJ:54:ILE:HD11	1.77	0.67
42:DU:38:ILE:HD13	42:DU:64:ILE:HG13	1.75	0.67
52:DI:27:LEU:HB2	52:DI:32:VAL:HG21	1.74	0.67
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.60	0.67
20:AB:198:VAL:HG22	20:AB:200:PRO:HD3	1.76	0.67
23:BB:594:U:H2'	23:BB:595:C:C6	2.29	0.67
23:BB:2572:A:C5	26:BD:150:GLN:HB2	2.30	0.67
28:BF:56:LEU:O	28:BF:59:ILE:HG22	1.93	0.67
35:BN:37:THR:HA	35:BN:109:PRO:O	1.95	0.67
1:CA:89:U:H2'	1:CA:90:C:C6	2.30	0.67
8:CI:70:GLY:O	8:CI:74:GLN:HG2	1.94	0.67
19:CT:47:GLN:HG2	19:CT:82:ILE:HD12	1.77	0.67
20:CB:27:LYS:HB3	20:CB:28:PRO:HD3	1.76	0.67
23:DB:1099:G:OP1	52:DI:4:VAL:HG12	1.94	0.67
29:DG:29:ASN:HB2	29:DG:78:VAL:O	1.95	0.67
40:DS:46:LEU:HD23	40:DS:49:LYS:HD2	1.75	0.67
44:DX:4:LYS:HD2	44:DX:7:ARG:HH21	1.60	0.67
1:AA:1029:U:H5''	1:AA:1030:U:H5	1.59	0.67
1:AA:1422:G:OP1	32:BK:48:PRO:HA	1.94	0.67
17:AR:58:ILE:O	17:AR:62:ARG:HG3	1.94	0.67
23:BB:95:A:H4'	44:BX:40:SER:HB3	1.77	0.67
23:BB:324:A:H2'	23:BB:325:G:O4'	1.95	0.67
23:BB:869:G:H2'	23:BB:870:U:H6	1.58	0.67
25:BC:144:GLU:HB2	25:BC:146:LYS:O	1.94	0.67
27:BE:149:ILE:HG13	27:BE:186:VAL:HG13	1.77	0.67
39:BR:53:PHE:CD1	39:BR:54:VAL:HB	2.30	0.67
43:BW:23:LYS:HB2	43:BW:23:LYS:HZ2	1.60	0.67
1:CA:1256:A:N1	1:CA:1278:G:H1'	2.10	0.67
23:DB:1190:G:OP1	33:DL:39:LYS:N	2.28	0.67
23:DB:1801:A:N6	25:DC:259:ASN:HD21	1.93	0.67
29:DG:36:LEU:HD12	29:DG:36:LEU:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:192:C:H2'	23:BB:193:U:H5'	1.77	0.67
23:BB:2784:U:H5''	26:BD:41:ALA:HB1	1.75	0.67
26:BD:34:VAL:HG22	26:BD:89:GLU:CG	2.25	0.67
27:BE:48:THR:HG23	27:BE:86:ALA:HB1	1.76	0.67
29:BG:23:ILE:O	29:BG:33:THR:HA	1.95	0.67
39:BR:18:GLN:HE21	39:BR:99:THR:HB	1.57	0.67
47:B0:29:VAL:HG23	47:B0:36:LYS:HZ2	1.58	0.67
1:CA:131:A:H2'	1:CA:132:C:C6	2.30	0.67
1:CA:975:A:O2'	1:CA:1358:U:H1'	1.95	0.67
2:CC:166:TRP:CG	2:CC:167:TYR:N	2.63	0.67
4:CE:87:VAL:HG13	4:CE:88:HIS:H	1.58	0.67
18:CS:32:THR:HG22	18:CS:33:TRP:H	1.60	0.67
19:CT:79:THR:HA	19:CT:82:ILE:HG12	1.76	0.67
27:DE:47:LYS:HA	27:DE:49:ARG:HE	1.58	0.67
28:DF:98:PHE:HA	28:DF:101:ARG:HG2	1.75	0.67
35:DN:11:ASN:HB3	35:DN:12:ARG:HD2	1.77	0.67
36:DO:25:ARG:HH21	36:DO:94:ARG:HH12	1.43	0.67
43:DW:13:ARG:NE	43:DW:13:ARG:H	1.93	0.67
45:DY:2:LYS:H	45:DY:37:ARG:HB3	1.60	0.67
5:AF:86:ARG:NH1	17:AR:63:TYR:HB3	2.09	0.67
7:AH:92:PRO:HA	7:AH:93:LYS:NZ	2.09	0.67
19:AT:28:ARG:HA	19:AT:31:ILE:HD12	1.77	0.67
23:BB:1015:U:H2'	23:BB:1016:G:H8	1.60	0.67
23:BB:2037:A:H2'	23:BB:2038:G:C8	2.30	0.67
23:BB:2239:G:H5'	25:BC:246:PRO:HD2	1.77	0.67
30:BH:8:LYS:HB3	30:BH:14:SER:HA	1.75	0.67
30:BH:130:VAL:HB	30:BH:142:VAL:HB	1.76	0.67
45:BY:20:LYS:HA	45:BY:24:LEU:HB2	1.77	0.67
9:CJ:9:ARG:HH11	9:CJ:73:LEU:HD23	1.58	0.67
13:CN:73:LEU:HD12	13:CN:83:VAL:HG21	1.76	0.67
14:CO:31:LEU:O	14:CO:35:ILE:HG12	1.95	0.67
16:CQ:10:ARG:NH2	16:CQ:11:VAL:HB	2.10	0.67
23:DB:974:G:H1'	23:DB:975:A:C8	2.30	0.67
24:DV:48:MET:HE1	24:DV:85:LYS:HA	1.77	0.67
25:DC:58:LYS:HG3	25:DC:58:LYS:O	1.95	0.67
34:DM:16:ARG:HH22	34:DM:72:PRO:HG2	1.59	0.67
40:DS:17:VAL:O	40:DS:20:VAL:HG12	1.95	0.67
47:D0:27:LEU:HD22	47:D0:27:LEU:N	2.09	0.67
49:D2:46:LYS:HE3	49:D2:46:LYS:H	1.57	0.67
52:DI:41:PHE:CE2	52:DI:45:THR:HG21	2.30	0.67
1:AA:901:A:H5'	1:AA:902:G:OP2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:109:ALA:HB3	4:AE:135:VAL:HG23	1.76	0.67
15:AP:51:ARG:HB3	15:AP:51:ARG:NH1	2.10	0.67
23:BB:1818:U:H2'	25:BC:152:GLN:O	1.94	0.67
23:BB:1843:C:H5''	25:BC:252:LYS:NZ	2.10	0.67
23:BB:2645:G:H3'	23:BB:2646:C:H5'	1.76	0.67
25:BC:163:ILE:HG22	25:BC:164:VAL:H	1.59	0.67
26:BD:101:PHE:O	26:BD:102:ALA:HB3	1.95	0.67
26:BD:128:ARG:HD2	26:BD:144:GLY:CA	2.25	0.67
31:BJ:7:LYS:NZ	31:BJ:48:VAL:HB	2.09	0.67
31:BJ:100:VAL:HG22	31:BJ:101:ILE:H	1.59	0.67
32:BK:98:ARG:HA	32:BK:118:LEU:HD22	1.77	0.67
38:BQ:33:VAL:HG13	38:BQ:34:ALA:N	2.08	0.67
38:BQ:39:ILE:O	38:BQ:43:GLN:HG3	1.95	0.67
38:BQ:77:LYS:HB3	38:BQ:116:LEU:HD11	1.75	0.67
44:BX:30:MET:HG3	44:BX:31:GLN:N	2.08	0.67
3:CD:187:ARG:HH12	3:CD:191:SER:HA	1.60	0.67
8:CI:114:LYS:HB2	8:CI:117:LEU:HD12	1.75	0.67
12:CM:78:ARG:NH1	12:CM:79:LEU:HD23	2.10	0.67
23:DB:1241:A:H2'	23:DB:1242:U:H5'	1.77	0.67
23:DB:1813:G:N3	25:DC:50:THR:HG21	2.10	0.67
23:DB:2039:U:H2'	23:DB:2040:G:H8	1.60	0.67
26:DD:32:ASN:HB3	26:DD:91:THR:HA	1.77	0.67
27:DE:120:VAL:HG12	27:DE:121:VAL:H	1.60	0.67
32:DK:24:VAL:HG13	32:DK:33:ALA:HB2	1.75	0.67
36:DO:15:ARG:HD2	36:DO:18:LEU:HD12	1.77	0.67
39:DR:42:ALA:HB1	39:DR:53:PHE:CG	2.30	0.67
2:AC:77:GLY:HA3	2:AC:82:ASP:H	1.59	0.67
7:AH:64:TYR:HB3	7:AH:69:ALA:HA	1.77	0.67
9:AJ:65:TYR:HB3	13:AN:95:LEU:HD11	1.77	0.67
23:BB:215:G:H4'	23:BB:216:A:H4'	1.76	0.67
23:BB:1022:G:N7	31:BJ:68:LYS:HE3	2.10	0.67
23:BB:2393:U:H5'	33:BL:62:PRO:HD3	1.77	0.67
31:BJ:58:ASN:HA	31:BJ:126:ALA:HA	1.76	0.67
31:BJ:99:ARG:HA	31:BJ:103:ILE:HG13	1.75	0.67
37:BP:52:ARG:HB3	37:BP:60:VAL:CG1	2.18	0.67
39:BR:78:ARG:HD3	39:BR:88:GLY:N	2.10	0.67
43:BW:66:VAL:HG22	43:BW:67:LYS:H	1.60	0.67
44:BX:55:THR:HG22	44:BX:59:GLU:OE1	1.95	0.67
50:B3:16:THR:HG21	50:B3:22:LYS:HZ1	1.60	0.67
1:CA:1170:A:H2'	1:CA:1171:A:O4'	1.96	0.67
6:CG:70:PRO:HA	6:CG:141:HIS:HE1	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:630:G:H1	33:DL:69:ARG:NH1	1.92	0.67
23:DB:1098:A:C4	52:DI:3:LYS:O	2.48	0.67
23:DB:2008:C:H2'	23:DB:2009:A:H8	1.60	0.67
26:DD:175:LEU:HD21	26:DD:192:ALA:HB3	1.77	0.67
32:DK:15:GLY:HA3	32:DK:52:VAL:HG12	1.77	0.67
39:DR:4:VAL:O	39:DR:41:ILE:HG12	1.95	0.67
42:DU:42:LYS:N	42:DU:57:ILE:HD12	2.04	0.67
48:D1:40:PRO:HD2	48:D1:44:GLN:O	1.95	0.67
51:D4:2:LYS:HG2	51:D4:38:GLY:HA3	1.76	0.67
51:D4:22:VAL:HG13	51:D4:37:GLN:HB3	1.77	0.67
1:AA:1060:U:H2'	1:AA:1061:G:H8	1.58	0.66
5:AF:10:VAL:HA	5:AF:84:VAL:HA	1.77	0.66
20:AB:202:ASN:ND2	20:AB:204:ASP:H	1.92	0.66
22:BA:114:C:O2'	36:BO:49:VAL:HG21	1.95	0.66
23:BB:86:G:OP1	42:BU:29:SER:HB2	1.95	0.66
26:BD:21:SER:C	26:BD:23:PRO:HD3	2.15	0.66
27:BE:116:ASP:HB2	27:BE:185:LYS:HA	1.78	0.66
29:BG:5:LYS:HB3	29:BG:68:ARG:NH2	2.10	0.66
34:BM:4:PRO:O	34:BM:5:LYS:O	2.12	0.66
1:CA:529:G:O6	11:CL:45:ASN:HA	1.95	0.66
3:CD:84:ASN:ND2	3:CD:87:GLU:H	1.92	0.66
20:CB:18:GLN:O	20:CB:37:VAL:HG23	1.94	0.66
23:DB:64:A:H2'	23:DB:65:U:C6	2.30	0.66
23:DB:1203:U:H3'	23:DB:1204:A:H5''	1.76	0.66
23:DB:1459:G:O2'	23:DB:1460:U:H5'	1.95	0.66
23:DB:2238:G:H2'	23:DB:2238:G:N3	2.10	0.66
33:DL:62:PRO:HB3	50:D3:12:ARG:NE	2.10	0.66
33:DL:90:VAL:H	33:DL:122:VAL:CG2	2.08	0.66
35:DN:34:ILE:HG22	35:DN:35:LYS:H	1.59	0.66
1:AA:17:U:H2'	1:AA:18:C:C6	2.30	0.66
1:AA:501:C:H2'	1:AA:502:A:C8	2.30	0.66
3:AD:19:PHE:HB2	3:AD:110:ARG:HH12	1.61	0.66
5:AF:40:GLU:HG3	5:AF:42:TRP:HE1	1.60	0.66
23:BB:1387:A:H2'	23:BB:1388:G:H8	1.61	0.66
26:BD:109:VAL:HG11	26:BD:193:VAL:HG23	1.76	0.66
29:BG:86:LEU:HB2	29:BG:130:ILE:HB	1.76	0.66
1:CA:501:C:H2'	1:CA:502:A:C8	2.30	0.66
1:CA:1034:G:H2'	1:CA:1035:A:C8	2.29	0.66
1:CA:1124:G:H5'	9:CJ:37:ARG:NH2	2.10	0.66
4:CE:96:GLN:HG3	4:CE:97:PRO:HD2	1.77	0.66
16:CQ:10:ARG:NH2	16:CQ:55:GLY:N	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:615:U:O4	27:DE:36:ALA:HB2	1.96	0.66
23:DB:1083:U:H1'	23:DB:1086:A:N6	2.10	0.66
25:DC:76:VAL:HG13	25:DC:112:GLY:HA2	1.77	0.66
33:DL:82:LEU:HD21	33:DL:110:VAL:HG12	1.77	0.66
33:DL:109:LYS:CG	33:DL:126:ARG:HD3	2.25	0.66
33:DL:118:THR:CG2	33:DL:137:ALA:HB3	2.25	0.66
40:DS:84:ARG:HH21	40:DS:98:LYS:HZ3	1.43	0.66
44:DX:28:LEU:HD22	44:DX:42:LEU:HG	1.76	0.66
46:DZ:25:ARG:HG3	46:DZ:26:SER:H	1.60	0.66
47:D0:32:THR:HG21	47:D0:41:HIS:CE1	2.30	0.66
1:AA:619:U:N3	3:AD:131:ILE:HD12	2.09	0.66
2:AC:46:LEU:HD11	2:AC:86:LEU:HD21	1.76	0.66
7:AH:102:VAL:HG12	7:AH:125:ILE:HD12	1.76	0.66
20:AB:119:GLN:HE22	20:AB:127:LYS:HD3	1.60	0.66
23:BB:287:G:H2'	23:BB:288:U:H6	1.58	0.66
23:BB:528:A:C2	23:BB:2043:C:H4'	2.30	0.66
23:BB:2198:A:H4'	23:BB:2199:A:OP1	1.95	0.66
26:BD:170:VAL:HG21	26:BD:194:PRO:HG2	1.77	0.66
33:BL:30:THR:HG22	33:BL:36:LYS:HZ2	1.61	0.66
33:BL:62:PRO:HB3	50:B3:29:ARG:NH2	2.10	0.66
34:BM:38:ARG:HG2	34:BM:96:ILE:HG12	1.76	0.66
36:BO:9:ARG:HA	36:BO:12:THR:HG23	1.76	0.66
36:BO:38:GLN:HA	36:BO:50:ALA:HB3	1.77	0.66
36:BO:40:ILE:HA	36:BO:48:LEU:HB3	1.77	0.66
40:BS:17:VAL:HA	40:BS:43:ALA:HB1	1.77	0.66
46:BZ:5:ILE:HD12	46:BZ:5:ILE:H	1.58	0.66
1:CA:1241:G:H2'	1:CA:1242:G:H8	1.60	0.66
4:CE:52:ALA:HB2	4:CE:61:LYS:HE2	1.77	0.66
20:CB:70:GLY:O	20:CB:92:ASN:HA	1.95	0.66
23:DB:950:G:H2'	23:DB:951:C:C6	2.30	0.66
23:DB:1531:C:H2'	23:DB:1532:A:C8	2.31	0.66
26:DD:125:TRP:CB	26:DD:160:LYS:HG2	2.24	0.66
32:DK:21:CYS:HA	32:DK:41:ILE:HD12	1.77	0.66
34:DM:5:LYS:HG3	34:DM:68:PHE:CE1	2.30	0.66
35:DN:2:ARG:HH21	35:DN:4:ARG:HD3	1.59	0.66
35:DN:41:ALA:HB1	35:DN:113:ILE:HD11	1.77	0.66
39:DR:40:MET:HG2	39:DR:40:MET:O	1.95	0.66
39:DR:41:ILE:HG23	39:DR:43:ASN:HB2	1.77	0.66
42:DU:13:LEU:H	42:DU:13:LEU:HD12	1.59	0.66
43:DW:47:GLY:HA2	43:DW:71:LYS:O	1.94	0.66
48:D1:16:THR:HG22	48:D1:47:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:D1:47:ILE:HG22	48:D1:48:TYR:N	2.07	0.66
1:AA:922:G:H4'	4:AE:24:VAL:HA	1.77	0.66
1:AA:1123:U:O2'	1:AA:1124:G:H5'	1.96	0.66
2:AC:13:ILE:O	2:AC:14:VAL:HG22	1.96	0.66
13:AN:60:ARG:HE	13:AN:62:ARG:NE	1.93	0.66
23:BB:27:G:N2	23:BB:512:G:H2'	2.09	0.66
23:BB:38:A:C8	27:BE:46:GLN:CD	2.69	0.66
23:BB:784:G:H5''	25:BC:225:ASN:HD21	1.60	0.66
23:BB:1459:G:O2'	23:BB:1460:U:H5'	1.95	0.66
23:BB:2308:G:H5'	23:BB:2309:A:H5''	1.77	0.66
23:BB:2339:C:H2'	23:BB:2340:A:C8	2.30	0.66
25:BC:155:ARG:HG2	25:BC:155:ARG:NH2	2.10	0.66
37:BP:45:VAL:HG13	37:BP:65:ASN:HD22	1.59	0.66
15:CP:61:VAL:HA	15:CP:65:ALA:HB3	1.78	0.66
21:CU:39:LYS:H	21:CU:40:PRO:HD2	1.60	0.66
23:DB:1447:C:H2'	23:DB:1448:G:H8	1.61	0.66
32:DK:51:LYS:O	32:DK:52:VAL:HG23	1.95	0.66
33:DL:78:ARG:HH22	33:DL:80:SER:HB2	1.61	0.66
1:AA:559:A:H4'	1:AA:560:A:H3'	1.77	0.66
21:AU:3:ILE:HG12	21:AU:19:LYS:HG2	1.77	0.66
23:BB:279:A:N6	23:BB:361:G:H1'	2.10	0.66
23:BB:934:U:H2'	23:BB:935:C:C6	2.31	0.66
23:BB:1440:U:H2'	23:BB:1441:G:C8	2.31	0.66
25:BC:92:LEU:O	25:BC:93:VAL:HB	1.95	0.66
26:BD:98:VAL:HA	26:BD:101:PHE:CE1	2.30	0.66
33:BL:69:ARG:O	33:BL:69:ARG:HG3	1.95	0.66
39:BR:42:ALA:HA	39:BR:54:VAL:HG22	1.77	0.66
40:BS:52:GLU:HA	40:BS:55:ILE:HG22	1.77	0.66
52:BI:27:LEU:H	52:BI:27:LEU:CD2	2.08	0.66
1:CA:960:U:O2'	1:CA:1223:C:H5'	1.96	0.66
1:CA:1244:G:H2'	1:CA:1245:C:C6	2.30	0.66
13:CN:30:ILE:CG2	13:CN:41:TRP:HB3	2.25	0.66
23:DB:594:U:H2'	23:DB:595:C:C6	2.30	0.66
23:DB:643:A:N6	23:DB:2370:G:H1'	2.11	0.66
23:DB:1354:A:H2'	23:DB:1355:G:O4'	1.96	0.66
23:DB:1373:A:H2'	23:DB:1374:G:O4'	1.95	0.66
23:DB:1594:U:H2'	23:DB:1595:C:C6	2.30	0.66
23:DB:2859:G:H2'	23:DB:2860:A:C8	2.30	0.66
23:DB:2873:A:H1'	35:DN:5:LYS:O	1.96	0.66
25:DC:63:ILE:HD12	25:DC:83:ASP:OD1	1.95	0.66
25:DC:225:ASN:O	25:DC:227:VAL:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:122:LEU:HA	30:DH:146:VAL:HG21	1.76	0.66
50:D3:21:PHE:HB2	50:D3:48:MET:HG2	1.77	0.66
1:AA:238:A:H2'	1:AA:239:U:H5''	1.77	0.66
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.61	0.66
8:AI:33:SER:HB3	8:AI:36:GLN:HB2	1.76	0.66
14:AO:31:LEU:HD12	14:AO:58:MET:HB2	1.78	0.66
23:BB:322:A:OP1	27:BE:162:ARG:HG2	1.95	0.66
23:BB:1285:A:H2'	23:BB:1286:A:H5''	1.75	0.66
23:BB:1844:C:OP1	25:BC:252:LYS:HA	1.95	0.66
27:BE:59:PRO:HD2	27:BE:60:TRP:CE2	2.31	0.66
31:BJ:119:PHE:CG	31:BJ:120:ARG:N	2.63	0.66
40:BS:6:LYS:HB3	40:BS:104:THR:HG22	1.78	0.66
47:B0:11:LYS:HG3	47:B0:12:ARG:N	2.10	0.66
47:B0:41:HIS:CG	47:B0:48:TYR:HA	2.31	0.66
51:B4:14:CYS:SG	51:B4:25:VAL:HG12	2.36	0.66
1:CA:188:C:H2'	1:CA:189:A:O4'	1.95	0.66
1:CA:408:A:OP1	3:CD:111:ALA:HB3	1.95	0.66
1:CA:780:A:O2'	1:CA:781:A:H5''	1.94	0.66
5:CF:42:TRP:HB2	5:CF:59:TYR:HB2	1.78	0.66
5:CF:66:ALA:HB1	5:CF:67:PRO:HD2	1.77	0.66
23:DB:526:A:N6	23:DB:2626:C:H4'	2.10	0.66
23:DB:1794:A:H2'	23:DB:1795:C:C6	2.30	0.66
23:DB:2064:C:H2'	23:DB:2065:C:C6	2.30	0.66
26:DD:129:THR:HA	26:DD:140:HIS:CE1	2.31	0.66
42:DU:28:LEU:C	42:DU:28:LEU:HD12	2.16	0.66
2:AC:178:ARG:HG2	2:AC:178:ARG:O	1.96	0.66
22:BA:60:C:H2'	22:BA:61:G:C8	2.31	0.66
23:BB:2216:G:H2'	23:BB:2217:G:C8	2.30	0.66
28:BF:35:LEU:HA	28:BF:153:ILE:HA	1.78	0.66
33:BL:100:ILE:HG12	33:BL:102:GLY:H	1.59	0.66
43:BW:44:PHE:O	43:BW:76:ARG:HA	1.96	0.66
47:B0:8:THR:HG23	47:B0:9:ARG:H	1.61	0.66
52:BI:20:SER:O	52:BI:25:PRO:HD2	1.96	0.66
1:CA:538:G:OP2	11:CL:111:GLN:HB2	1.95	0.66
1:CA:909:A:H2'	1:CA:910:C:O4'	1.95	0.66
4:CE:12:GLU:HG2	4:CE:38:VAL:HG22	1.77	0.66
20:CB:14:HIS:CG	20:CB:15:PHE:H	2.13	0.66
25:DC:179:GLU:CD	25:DC:266:ILE:HA	2.15	0.66
31:DJ:81:ILE:CG1	31:DJ:82:GLY:H	2.08	0.66
31:DJ:98:GLU:HG3	31:DJ:126:ALA:HB2	1.77	0.66
34:DM:3:GLN:HG3	34:DM:6:ARG:NH1	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:40:MET:HG3	39:DR:54:VAL:HG13	1.75	0.66
2:AC:141:MET:HE1	2:AC:147:GLY:H	1.61	0.66
23:BB:155:A:H2'	23:BB:156:A:C8	2.30	0.66
23:BB:855:G:H21	43:BW:23:LYS:CD	2.09	0.66
23:BB:1856:U:H2'	23:BB:1857:G:O4'	1.95	0.66
27:BE:44:ARG:HD3	27:BE:44:ARG:H	1.60	0.66
1:CA:505:G:H5'	1:CA:534:U:H2'	1.78	0.66
2:CC:115:VAL:O	2:CC:119:ILE:HG22	1.96	0.66
12:CM:102:LYS:HZ1	12:CM:103:THR:HG23	1.60	0.66
20:CB:26:MET:HE1	20:CB:186:VAL:HB	1.78	0.66
20:CB:153:MET:SD	20:CB:157:PRO:HD3	2.36	0.66
23:DB:536:G:H5'	38:DQ:52:ARG:HH22	1.61	0.66
23:DB:794:A:H2'	23:DB:795:C:C6	2.31	0.66
23:DB:1098:A:O2'	52:DI:4:VAL:C	2.34	0.66
32:DK:8:LEU:HB3	32:DK:83:ALA:O	1.95	0.66
50:D3:2:LYS:HB2	50:D3:2:LYS:NZ	2.11	0.66
4:AE:104:ILE:HD13	4:AE:115:GLU:HG3	1.78	0.66
23:BB:442:G:N2	27:BE:46:GLN:NE2	2.44	0.66
23:BB:1654:A:OP1	35:BN:1:MET:HB2	1.95	0.66
23:BB:2395:C:H2'	23:BB:2396:G:O4'	1.96	0.66
28:BF:33:ILE:HA	28:BF:155:ILE:HA	1.77	0.66
35:BN:34:ILE:N	35:BN:34:ILE:HD13	2.11	0.66
35:BN:72:ASP:HB3	35:BN:74:GLU:HG3	1.76	0.66
51:B4:20:ASP:OD2	51:B4:22:VAL:HG13	1.96	0.66
2:CC:53:ARG:HA	2:CC:113:LYS:NZ	2.11	0.66
19:CT:73:ARG:HG3	19:CT:74:HIS:N	2.10	0.66
23:DB:143:C:H6	23:DB:143:C:O5'	1.78	0.66
23:DB:350:G:H2'	23:DB:351:C:O4'	1.96	0.66
23:DB:522:A:H2'	23:DB:523:C:C6	2.31	0.66
23:DB:1098:A:H2'	52:DI:4:VAL:CA	2.26	0.66
23:DB:1727:C:H2'	23:DB:1728:C:C6	2.30	0.66
25:DC:137:GLY:C	25:DC:139:THR:H	1.96	0.66
27:DE:147:LEU:HB3	27:DE:167:VAL:HG22	1.78	0.66
34:DM:33:LEU:HB3	34:DM:101:VAL:CG2	2.26	0.66
37:DP:18:SER:HB2	37:DP:87:ARG:CZ	2.26	0.66
37:DP:46:VAL:C	37:DP:47:ILE:HG12	2.15	0.66
40:DS:64:ALA:H	40:DS:110:ARG:HH21	1.41	0.66
45:DY:2:LYS:HD2	45:DY:35:VAL:HB	1.77	0.66
52:DI:27:LEU:H	52:DI:27:LEU:CD2	2.09	0.66
1:AA:1017:U:H2'	1:AA:1018:G:C8	2.31	0.66
9:AJ:11:LYS:HG2	9:AJ:97:ASP:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:48:LYS:O	19:AT:52:GLU:HB2	1.96	0.66
23:BB:21:A:O2'	23:BB:22:C:H5'	1.97	0.66
23:BB:65:U:H4'	41:BT:70:HIS:ND1	2.10	0.66
23:BB:394:C:H2'	23:BB:395:U:O4'	1.96	0.66
23:BB:1309:G:H4'	49:B2:7:PRO:HG2	1.78	0.66
23:BB:2324:U:H5'	23:BB:2325:G:H5''	1.77	0.66
36:BO:56:LYS:HE3	36:BO:57:ALA:N	2.11	0.66
1:CA:278:G:N2	1:CA:279:A:H62	1.93	0.66
1:CA:763:G:H2'	1:CA:764:C:H6	1.61	0.66
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.31	0.66
6:CG:144:ALA:C	6:CG:146:ALA:H	1.99	0.66
23:DB:784:G:O2'	23:DB:785:G:H5''	1.95	0.66
23:DB:1440:U:H2'	23:DB:1441:G:C8	2.30	0.66
52:DI:45:THR:CA	52:DI:48:ILE:HG22	2.26	0.66
1:AA:562:U:H1'	11:AL:11:ARG:HB3	1.78	0.65
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.32	0.65
20:AB:53:LEU:HD21	20:AB:212:TYR:HE2	1.60	0.65
23:BB:222:A:H61	23:BB:232:G:H1'	1.61	0.65
23:BB:340:A:H2'	23:BB:341:C:O4'	1.95	0.65
23:BB:1373:A:H2'	23:BB:1374:G:O4'	1.96	0.65
23:BB:1797:G:H5'	25:BC:251:THR:HA	1.78	0.65
26:BD:23:PRO:HB3	26:BD:189:VAL:N	2.11	0.65
30:BH:3:VAL:HG22	30:BH:21:VAL:HG21	1.78	0.65
52:BI:91:LYS:HB2	52:BI:94:LYS:HD2	1.78	0.65
1:CA:859:G:H2'	1:CA:860:A:C8	2.30	0.65
1:CA:1191:A:OP1	2:CC:3:LYS:HG3	1.96	0.65
7:CH:54:THR:HG23	7:CH:55:LYS:HE2	1.77	0.65
9:CJ:9:ARG:HB3	9:CJ:99:GLN:HE21	1.61	0.65
9:CJ:9:ARG:HG3	9:CJ:99:GLN:HB2	1.77	0.65
12:CM:9:PRO:HB2	12:CM:17:ALA:HB1	1.78	0.65
23:DB:2328:A:H2'	23:DB:2329:U:C6	2.30	0.65
23:DB:2784:U:H2'	23:DB:2785:C:C6	2.31	0.65
25:DC:28:PRO:HG2	25:DC:79:ARG:NH2	2.11	0.65
25:DC:32:LEU:HB3	25:DC:61:TYR:CE1	2.27	0.65
27:DE:142:ALA:H	27:DE:185:LYS:NZ	1.93	0.65
33:DL:103:ILE:HB	33:DL:104:GLN:NE2	2.11	0.65
35:DN:98:LEU:HD11	35:DN:114:GLU:HG2	1.76	0.65
37:DP:63:ILE:O	37:DP:72:VAL:HA	1.96	0.65
42:DU:69:VAL:HG11	42:DU:77:GLY:HA2	1.79	0.65
1:AA:278:G:N2	1:AA:279:A:H62	1.93	0.65
1:AA:1225:A:H3'	1:AA:1226:C:H6	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:52:ALA:O	20:AB:56:LEU:HD22	1.96	0.65
21:AU:36:PHE:HB3	21:AU:40:PRO:CD	2.25	0.65
23:BB:64:A:H2'	23:BB:65:U:C6	2.31	0.65
23:BB:1447:C:H2'	23:BB:1448:G:H8	1.60	0.65
23:BB:1652:A:H62	35:BN:11:ASN:ND2	1.94	0.65
23:BB:1727:C:H2'	23:BB:1728:C:C6	2.31	0.65
23:BB:1794:A:H2'	23:BB:1795:C:C6	2.31	0.65
23:BB:2339:C:H2'	23:BB:2340:A:H8	1.61	0.65
28:BF:132:ARG:HD3	28:BF:133:GLU:HB2	1.78	0.65
29:BG:157:LYS:HG3	29:BG:159:LYS:HZ2	1.61	0.65
31:BJ:3:THR:HG21	38:BQ:93:ILE:HG13	1.78	0.65
33:BL:29:LYS:HD2	33:BL:31:GLY:N	2.12	0.65
33:BL:38:GLN:H	33:BL:41:ARG:NH1	1.94	0.65
46:BZ:25:ARG:HH11	46:BZ:25:ARG:HB2	1.60	0.65
1:CA:882:C:O2'	1:CA:883:C:H5'	1.95	0.65
9:CJ:56:HIS:O	9:CJ:57:VAL:HG12	1.97	0.65
23:DB:1866:A:H2'	23:DB:1867:G:O4'	1.95	0.65
30:DH:115:VAL:HB	30:DH:132:PHE:HD1	1.61	0.65
31:DJ:40:HIS:HA	38:DQ:69:ARG:NH1	2.09	0.65
35:DN:97:ILE:HA	35:DN:113:ILE:HD13	1.78	0.65
37:DP:89:GLY:HA2	37:DP:112:ARG:HH22	1.60	0.65
38:DQ:69:ARG:HB3	38:DQ:69:ARG:NH1	2.10	0.65
38:DQ:111:LYS:NZ	39:DR:52:PRO:HA	2.10	0.65
48:D1:19:PHE:HD1	48:D1:20:TYR:H	1.44	0.65
52:DI:85:ILE:HD13	52:DI:137:LEU:HD21	1.78	0.65
2:AC:9:ILE:HG23	2:AC:10:ARG:HG3	1.76	0.65
12:AM:106:ARG:HA	12:AM:106:ARG:HH11	1.61	0.65
23:BB:441:U:H2'	23:BB:442:G:H8	1.61	0.65
23:BB:691:C:O2'	25:BC:42:ARG:HD2	1.96	0.65
23:BB:1484:U:H2'	23:BB:1485:U:C6	2.31	0.65
23:BB:1508:A:H5''	23:BB:1509:A:N7	2.12	0.65
23:BB:1531:C:H2'	23:BB:1532:A:C8	2.31	0.65
23:BB:2512:C:H5''	26:BD:125:TRP:HZ3	1.61	0.65
23:BB:2859:G:H2'	23:BB:2860:A:C8	2.31	0.65
36:BO:40:ILE:H	36:BO:40:ILE:HD13	1.62	0.65
1:CA:1054:C:O2'	1:CA:1055:A:H5''	1.95	0.65
11:CL:14:LYS:HE2	11:CL:16:ALA:HB2	1.78	0.65
23:DB:235:U:H2'	23:DB:236:C:C6	2.31	0.65
23:DB:320:A:H4'	23:DB:322:A:N7	2.11	0.65
25:DC:205:GLY:C	25:DC:206:LYS:HG2	2.15	0.65
26:DD:33:ARG:HB3	26:DD:89:GLU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:56:LYS:HD3	26:DD:59:ARG:HB2	1.79	0.65
26:DD:89:GLU:HG2	26:DD:93:GLY:O	1.96	0.65
31:DJ:96:ARG:HG3	31:DJ:98:GLU:OE1	1.95	0.65
33:DL:78:ARG:CZ	33:DL:113:ALA:HB1	2.26	0.65
41:DT:17:SER:H	41:DT:20:ALA:CB	2.09	0.65
1:AA:270:A:H2'	1:AA:271:C:C6	2.32	0.65
1:AA:1026:G:H2'	1:AA:1027:C:C6	2.31	0.65
1:AA:1302:C:O4'	12:AM:16:ILE:HD11	1.96	0.65
9:AJ:53:ILE:HG12	9:AJ:63:ASP:HB2	1.78	0.65
12:AM:3:ILE:HG23	12:AM:56:ARG:HG2	1.78	0.65
23:BB:85:G:OP1	42:BU:5:ARG:HA	1.96	0.65
23:BB:2025:C:H2'	23:BB:2026:U:C6	2.31	0.65
23:BB:2619:C:H4'	26:BD:157:LYS:HA	1.78	0.65
24:BV:70:ILE:HG12	24:BV:71:LYS:H	1.61	0.65
25:BC:171:VAL:HB	25:BC:182:LYS:HB3	1.77	0.65
33:BL:30:THR:HA	33:BL:36:LYS:HZ1	1.60	0.65
39:BR:6:GLN:HB3	39:BR:10:LYS:HE3	1.76	0.65
39:BR:43:ASN:C	39:BR:45:GLU:H	1.98	0.65
43:BW:32:ALA:O	43:BW:66:VAL:HG11	1.96	0.65
19:CT:52:GLU:O	19:CT:56:ILE:HD13	1.97	0.65
23:DB:616:A:H3'	23:DB:617:G:H8	1.62	0.65
23:DB:773:U:H5'	23:DB:774:G:OP2	1.95	0.65
23:DB:1118:C:H2'	23:DB:1119:U:C6	2.32	0.65
23:DB:1381:G:C2'	23:DB:1382:G:H5'	2.27	0.65
25:DC:20:ASN:HB2	25:DC:202:ARG:HD3	1.78	0.65
26:DD:5:VAL:HB	26:DD:27:ILE:O	1.95	0.65
26:DD:37:VAL:HG13	26:DD:42:ASN:CB	2.25	0.65
1:AA:87:C:H2'	1:AA:88:U:H4'	1.79	0.65
1:AA:188:C:H2'	1:AA:189:A:O4'	1.97	0.65
7:AH:30:LYS:HA	7:AH:30:LYS:NZ	2.12	0.65
23:BB:441:U:O2'	23:BB:442:G:H5'	1.97	0.65
23:BB:633:A:H8	23:BB:633:A:O5'	1.79	0.65
23:BB:1224:U:H4'	39:BR:90:ARG:HB3	1.79	0.65
23:BB:2880:C:H1'	35:BN:92:GLY:O	1.97	0.65
25:BC:76:VAL:O	25:BC:93:VAL:HA	1.96	0.65
30:BH:3:VAL:HG13	30:BH:21:VAL:HG11	1.79	0.65
31:BJ:39:LYS:NZ	38:BQ:69:ARG:HD2	2.11	0.65
35:BN:12:ARG:HD3	35:BN:20:MET:HG3	1.78	0.65
44:BX:19:LEU:O	44:BX:22:LEU:HB2	1.96	0.65
8:CI:93:LEU:O	8:CI:97:LEU:HG	1.97	0.65
19:CT:11:ILE:HG13	19:CT:12:GLN:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:117:G:H5'	23:DB:126:A:H8	1.60	0.65
23:DB:448:U:C5'	27:DE:79:ARG:HH21	2.09	0.65
23:DB:1794:A:H2'	23:DB:1795:C:H6	1.62	0.65
23:DB:1838:C:N4	23:DB:1898:U:H2'	2.11	0.65
23:DB:2642:G:OP1	31:DJ:84:ILE:HG12	1.97	0.65
27:DE:153:LEU:HD13	27:DE:154:ASP:N	2.11	0.65
29:DG:41:GLU:CG	29:DG:54:ARG:HH21	2.09	0.65
46:DZ:48:GLN:NE2	46:DZ:49:ARG:H	1.94	0.65
47:D0:41:HIS:HB3	47:D0:46:GLY:CA	2.26	0.65
1:AA:131:A:H2'	1:AA:132:C:C6	2.32	0.65
1:AA:1513:A:H2'	1:AA:1514:G:C8	2.32	0.65
3:AD:159:GLU:HG3	3:AD:160:LEU:H	1.59	0.65
23:BB:329:G:H1	42:BU:16:LYS:HD3	1.61	0.65
23:BB:811:U:C5	33:BL:29:LYS:HD3	2.31	0.65
23:BB:1406:U:H2'	23:BB:1407:G:H8	1.60	0.65
23:BB:2336:A:H1'	23:BB:2337:G:OP1	1.95	0.65
24:BV:77:VAL:HG21	24:BV:79:ARG:HH21	1.61	0.65
25:BC:138:SER:HA	25:BC:162:GLN:HG2	1.79	0.65
42:BU:39:ASN:ND2	42:BU:42:LYS:HE2	2.12	0.65
43:BW:66:VAL:HG13	43:BW:67:LYS:HG3	1.79	0.65
1:CA:269:C:H2'	1:CA:270:A:C8	2.31	0.65
1:CA:1096:C:H2'	1:CA:1097:C:C6	2.32	0.65
1:CA:1186:G:H21	13:CN:100:TRP:C	1.99	0.65
3:CD:141:VAL:HG12	3:CD:180:THR:HA	1.79	0.65
5:CF:38:ARG:HD3	5:CF:97:THR:HA	1.78	0.65
5:CF:53:LYS:HE2	5:CF:54:LEU:HD23	1.79	0.65
7:CH:11:THR:HA	7:CH:14:ARG:NH1	2.12	0.65
9:CJ:53:ILE:HG13	13:CN:84:ARG:CZ	2.26	0.65
24:DV:63:ILE:H	24:DV:70:ILE:CD1	2.09	0.65
26:DD:4:LEU:HD23	26:DD:77:ARG:HD3	1.78	0.65
35:DN:70:THR:OG1	35:DN:75:ILE:HD11	1.96	0.65
38:DQ:24:TYR:O	38:DQ:27:ARG:HB2	1.97	0.65
5:AF:3:HIS:HA	5:AF:65:GLU:HA	1.77	0.65
23:BB:139:U:N3	41:BT:1:MET:HB2	2.11	0.65
23:BB:329:G:H1	42:BU:16:LYS:HZ3	1.43	0.65
23:BB:559:G:H1'	38:BQ:55:GLN:NE2	2.12	0.65
23:BB:911:A:N6	34:BM:13:HIS:HB3	2.12	0.65
23:BB:2758:A:H2'	23:BB:2759:G:O4'	1.97	0.65
23:BB:2759:G:H4'	29:BG:34:ARG:HH12	1.62	0.65
25:BC:127:ASN:ND2	25:BC:128:THR:H	1.95	0.65
34:BM:33:LEU:N	34:BM:101:VAL:HG22	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:73:ILE:HD11	34:BM:92:TRP:HB2	1.79	0.65
43:BW:23:LYS:HE3	43:BW:24:ARG:O	1.96	0.65
1:CA:620:C:C2	3:CD:131:ILE:HD13	2.31	0.65
4:CE:14:LEU:HD22	4:CE:15:ILE:N	2.12	0.65
20:CB:212:TYR:O	20:CB:216:VAL:HG22	1.97	0.65
22:DA:76:G:H2'	22:DA:77:U:H6	1.60	0.65
23:DB:1386:C:H2'	23:DB:1387:A:C8	2.31	0.65
23:DB:2243:U:H2'	23:DB:2244:U:C6	2.31	0.65
27:DE:48:THR:HG23	27:DE:85:PHE:H	1.60	0.65
30:DH:4:ILE:HD13	30:DH:4:ILE:H	1.62	0.65
31:DJ:73:VAL:HG11	31:DJ:75:TYR:CZ	2.31	0.65
33:DL:58:TYR:HA	33:DL:62:PRO:HG2	1.77	0.65
51:D4:26:ILE:O	51:D4:27:CYS:HB2	1.96	0.65
1:AA:269:C:H2'	1:AA:270:A:C8	2.32	0.65
1:AA:1326:U:H2'	1:AA:1327:C:H6	1.61	0.65
23:BB:138:U:H2'	23:BB:140:C:C1'	2.25	0.65
26:BD:128:ARG:HH11	26:BD:144:GLY:CA	2.10	0.65
29:BG:157:LYS:HG3	29:BG:159:LYS:NZ	2.11	0.65
33:BL:91:ASP:HB2	33:BL:123:ARG:HH11	1.62	0.65
52:BI:100:ILE:O	52:BI:139:VAL:HA	1.97	0.65
1:CA:312:C:H2'	1:CA:313:A:C8	2.32	0.65
1:CA:546:A:P	3:CD:68:GLU:HB3	2.36	0.65
1:CA:1008:U:H5''	13:CN:23:ARG:HH21	1.62	0.65
1:CA:1281:C:H5'	1:CA:1282:C:H5	1.61	0.65
2:CC:8:GLY:HA3	13:CN:88:MET:SD	2.37	0.65
3:CD:78:ALA:HB1	3:CD:85:THR:HA	1.78	0.65
13:CN:32:ASP:HB2	13:CN:34:ASN:ND2	2.12	0.65
13:CN:86:ALA:HB1	13:CN:91:GLU:HB2	1.79	0.65
15:CP:4:ILE:O	15:CP:71:VAL:HG11	1.97	0.65
16:CQ:16:MET:CB	16:CQ:19:SER:HB2	2.26	0.65
16:CQ:66:LEU:H	16:CQ:66:LEU:HD12	1.62	0.65
20:CB:95:TRP:HZ3	20:CB:98:GLY:H	1.44	0.65
23:DB:455:C:N3	23:DB:472:A:H2'	2.12	0.65
23:DB:1006:C:H5''	31:DJ:34:ARG:HE	1.61	0.65
23:DB:1224:U:O3'	39:DR:90:ARG:HB2	1.97	0.65
23:DB:1484:U:H2'	23:DB:1485:U:C6	2.32	0.65
23:DB:2784:U:H2'	23:DB:2785:C:H6	1.60	0.65
25:DC:19:VAL:HB	25:DC:205:GLY:HA2	1.78	0.65
33:DL:33:ARG:HB3	39:DR:85:LYS:NZ	2.11	0.65
33:DL:77:ILE:HD13	33:DL:110:VAL:C	2.17	0.65
34:DM:114:ARG:O	34:DM:117:PHE:HD1	1.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:53:VAL:HG12	41:DT:93:LEU:HD21	1.79	0.65
51:D4:30:GLU:CB	51:D4:33:HIS:HB2	2.23	0.65
1:AA:859:G:H2'	1:AA:860:A:C8	2.32	0.65
4:AE:23:THR:HG23	4:AE:28:ARG:HD3	1.78	0.65
4:AE:104:ILE:HD11	4:AE:114:LEU:HB2	1.79	0.65
13:AN:12:ARG:HH11	13:AN:60:ARG:NH1	1.95	0.65
23:BB:2331:G:H5'	43:BW:70:VAL:HG13	1.79	0.65
25:BC:53:ILE:HG21	25:BC:218:THR:HG23	1.78	0.65
25:BC:68:ARG:HD3	25:BC:103:ILE:CD1	2.27	0.65
29:BG:86:LEU:HD13	29:BG:163:TYR:HA	1.78	0.65
30:BH:6:LEU:HD12	30:BH:15:LEU:HA	1.77	0.65
31:BJ:10:THR:HB	31:BJ:13:ARG:NH1	2.11	0.65
39:BR:5:PHE:HA	39:BR:40:MET:CG	2.27	0.65
1:CA:652:U:H4'	7:CH:55:LYS:HE3	1.78	0.65
10:CK:92:ARG:HH11	10:CK:92:ARG:HG2	1.62	0.65
23:DB:283:G:H2'	23:DB:284:U:C6	2.32	0.65
23:DB:993:G:H21	39:DR:93:PHE:HZ	1.45	0.65
23:DB:2102:G:H2'	23:DB:2103:C:O4'	1.97	0.65
25:DC:259:ASN:O	25:DC:261:ARG:HG3	1.97	0.65
2:AC:146:LYS:HE3	2:AC:202:PHE:CE2	2.30	0.65
2:AC:185:THR:HG22	2:AC:186:SER:H	1.62	0.65
9:AJ:37:ARG:NE	9:AJ:77:VAL:HG11	2.11	0.65
12:AM:103:THR:HG22	12:AM:104:ASN:H	1.62	0.65
13:AN:30:ILE:HB	13:AN:44:VAL:HG11	1.77	0.65
23:BB:854:C:H2'	23:BB:855:G:H8	1.61	0.65
24:BV:14:LYS:NZ	24:BV:18:ARG:HD2	2.11	0.65
33:BL:94:THR:HB	33:BL:103:ILE:HG13	1.78	0.65
35:BN:96:ARG:HH21	35:BN:118:ARG:HB3	1.62	0.65
38:BQ:57:ARG:HA	38:BQ:60:TRP:HE3	1.62	0.65
39:BR:53:PHE:O	39:BR:54:VAL:O	2.15	0.65
5:CF:86:ARG:NH1	17:CR:63:TYR:HB3	2.12	0.65
9:CJ:37:ARG:HH11	9:CJ:37:ARG:HG2	1.62	0.65
10:CK:85:VAL:HG21	10:CK:92:ARG:HH12	1.62	0.65
11:CL:80:LEU:O	11:CL:97:VAL:HG22	1.97	0.65
23:DB:1022:G:H8	31:DJ:68:LYS:HE3	1.62	0.65
27:DE:109:LEU:HB2	27:DE:117:ARG:HE	1.62	0.65
29:DG:102:ILE:HD11	29:DG:130:ILE:HD12	1.79	0.65
33:DL:109:LYS:HB2	33:DL:109:LYS:HZ3	1.62	0.65
33:DL:109:LYS:HG2	33:DL:126:ARG:HH11	1.61	0.65
38:DQ:97:ILE:HG23	39:DR:13:ARG:NH2	2.11	0.65
41:DT:45:ALA:HA	41:DT:48:GLN:HG2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:77:ARG:HG2	41:DT:78:SER:H	1.60	0.65
47:D0:31:LYS:HB2	47:D0:31:LYS:NZ	2.11	0.65
50:D3:7:ARG:HA	50:D3:7:ARG:HH11	1.61	0.65
1:AA:36:C:H5''	11:AL:119:LYS:HB3	1.79	0.64
3:AD:88:ASN:O	3:AD:92:LEU:HD23	1.97	0.64
7:AH:5:PRO:HB2	7:AH:32:LYS:NZ	2.11	0.64
9:AJ:15:HIS:HA	9:AJ:18:ILE:HG22	1.79	0.64
10:AK:105:ARG:NH2	21:AU:10:PRO:HG3	2.12	0.64
23:BB:1113:U:H5''	29:BG:1:SER:HA	1.78	0.64
23:BB:1386:C:H2'	23:BB:1387:A:C8	2.32	0.64
24:BV:80:HIS:N	24:BV:87:GLN:HE22	1.94	0.64
26:BD:83:ARG:HG2	26:BD:84:LEU:N	2.11	0.64
27:BE:113:VAL:HG23	27:BE:117:ARG:NH2	2.11	0.64
29:BG:148:ARG:HH21	29:BG:153:PRO:HD2	1.62	0.64
32:BK:108:ARG:HA	32:BK:116:ILE:HG21	1.79	0.64
33:BL:63:LYS:HG3	50:B3:11:LYS:CA	2.26	0.64
36:BO:37:ALA:O	36:BO:38:GLN:HG2	1.97	0.64
37:BP:38:ARG:HG3	37:BP:39:LEU:H	1.62	0.64
1:CA:1508:A:H2'	1:CA:1509:C:C6	2.33	0.64
23:DB:279:A:H2'	23:DB:280:U:O4'	1.96	0.64
23:DB:352:A:H3'	23:DB:353:C:H6	1.62	0.64
23:DB:907:G:O2'	23:DB:908:C:H5'	1.96	0.64
23:DB:1826:G:OP2	25:DC:221:GLY:HA2	1.97	0.64
23:DB:2537:U:H2'	23:DB:2538:C:C6	2.32	0.64
25:DC:49:THR:O	25:DC:50:THR:HB	1.96	0.64
27:DE:108:ILE:HG13	27:DE:109:LEU:H	1.62	0.64
33:DL:109:LYS:HG3	33:DL:126:ARG:HB3	1.78	0.64
39:DR:39:LEU:H	39:DR:61:ALA:HB1	1.62	0.64
51:D4:26:ILE:HD13	51:D4:27:CYS:C	2.18	0.64
1:AA:539:A:H2'	1:AA:540:G:C8	2.32	0.64
1:AA:620:C:H1'	3:AD:131:ILE:HG21	1.79	0.64
23:BB:418:C:H2'	23:BB:419:U:C6	2.32	0.64
23:BB:1838:C:N4	23:BB:1898:U:H2'	2.11	0.64
24:BV:69:GLU:HG2	24:BV:70:ILE:N	2.12	0.64
25:BC:143:VAL:O	25:BC:152:GLN:HB2	1.97	0.64
26:BD:83:ARG:HG2	26:BD:84:LEU:H	1.63	0.64
32:BK:99:ILE:HG12	32:BK:115:ILE:HG13	1.80	0.64
33:BL:54:GLN:HB3	33:BL:56:PRO:HD2	1.78	0.64
34:BM:67:VAL:HG21	34:BM:95:LEU:HD21	1.78	0.64
38:BQ:85:ALA:CB	38:BQ:88:GLU:HB2	2.27	0.64
43:BW:23:LYS:HB2	43:BW:23:LYS:NZ	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:205:A:H2'	1:CA:206:C:H6	1.62	0.64
1:CA:678:U:H2'	1:CA:679:C:C6	2.32	0.64
1:CA:865:A:H5'	1:CA:1078:U:O4	1.97	0.64
1:CA:878:A:O4'	7:CH:3:GLN:HG3	1.97	0.64
1:CA:952:U:H2'	1:CA:953:G:H8	1.62	0.64
1:CA:1238:A:H5'	1:CA:1336:C:N4	2.13	0.64
11:CL:34:THR:HB	11:CL:53:ARG:HE	1.62	0.64
20:CB:69:VAL:HB	20:CB:162:VAL:HB	1.78	0.64
22:DA:61:G:H2'	22:DA:62:C:C6	2.31	0.64
23:DB:608:A:H2'	23:DB:609:A:C8	2.32	0.64
27:DE:149:ILE:HD11	27:DE:188:MET:N	2.11	0.64
42:DU:98:ASN:O	42:DU:99:SER:HB2	1.95	0.64
50:D3:12:ARG:HE	50:D3:23:HIS:HB2	1.60	0.64
7:AH:63:LYS:HG2	7:AH:70:VAL:HG21	1.80	0.64
23:BB:143:C:H2'	23:BB:144:A:C1'	2.27	0.64
23:BB:1410:G:H2'	23:BB:1411:U:C6	2.31	0.64
23:BB:1866:A:H2'	23:BB:1867:G:O4'	1.96	0.64
23:BB:2039:U:H2'	23:BB:2040:G:C8	2.31	0.64
23:BB:2557:G:H2'	23:BB:2558:C:C6	2.32	0.64
23:BB:2800:A:H2'	23:BB:2801:G:O4'	1.98	0.64
25:BC:23:LEU:H	25:BC:202:ARG:HH21	1.45	0.64
31:BJ:18:VAL:HG22	31:BJ:56:VAL:HA	1.78	0.64
31:BJ:37:ARG:NH2	31:BJ:110:PRO:HG3	2.13	0.64
34:BM:12:MET:O	34:BM:12:MET:HG2	1.96	0.64
37:BP:1:SER:HA	37:BP:4:ILE:HD12	1.79	0.64
37:BP:38:ARG:CG	37:BP:39:LEU:H	2.10	0.64
41:BT:28:ASN:N	41:BT:28:ASN:HD22	1.95	0.64
12:CM:68:LEU:HD22	12:CM:69:ARG:NH1	2.13	0.64
20:CB:81:ASP:HA	20:CB:84:LEU:HD22	1.78	0.64
23:DB:242:G:N2	23:DB:254:G:H2'	2.12	0.64
23:DB:813:U:H2'	23:DB:814:C:C6	2.32	0.64
34:DM:2:LEU:HD13	34:DM:47:GLU:HB3	1.80	0.64
46:DZ:47:LYS:HB2	46:DZ:51:VAL:CG1	2.27	0.64
52:DI:11:GLN:HA	52:DI:55:PRO:HA	1.79	0.64
25:BC:68:ARG:NH2	25:BC:127:ASN:HA	2.13	0.64
26:BD:128:ARG:NH1	26:BD:130:GLN:NE2	2.46	0.64
33:BL:132:ARG:O	33:BL:136:GLU:HB3	1.98	0.64
34:BM:33:LEU:HB2	34:BM:101:VAL:CG2	2.27	0.64
34:BM:36:VAL:HA	34:BM:97:GLN:HG2	1.78	0.64
1:CA:238:A:H2'	1:CA:239:U:H5''	1.78	0.64
1:CA:807:A:H1'	25:DC:4:LYS:NZ	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:27:ILE:HD13	8:CI:34:LEU:HD13	1.79	0.64
14:CO:24:THR:HG21	14:CO:69:LEU:HD23	1.80	0.64
14:CO:88:ARG:NH2	23:DB:714:U:H3'	2.12	0.64
23:DB:1695:G:O2'	25:DC:15:VAL:HG23	1.98	0.64
44:DX:31:GLN:O	44:DX:32:ALA:HB3	1.97	0.64
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.32	0.64
2:AC:113:LYS:HE2	2:AC:117:ASP:OD2	1.97	0.64
4:AE:45:VAL:O	4:AE:71:ILE:HG22	1.98	0.64
5:AF:53:LYS:HA	5:AF:53:LYS:NZ	2.12	0.64
14:AO:29:ALA:HA	14:AO:84:LEU:HD21	1.80	0.64
15:AP:68:SER:HB3	15:AP:71:VAL:HG12	1.80	0.64
23:BB:215:G:C4'	23:BB:216:A:H4'	2.27	0.64
23:BB:1412:U:H2'	23:BB:1413:A:C8	2.33	0.64
23:BB:2228:G:H2'	23:BB:2229:U:C6	2.33	0.64
24:BV:26:PHE:HE2	24:BV:44:HIS:HA	1.61	0.64
25:BC:66:PHE:O	25:BC:68:ARG:N	2.30	0.64
27:BE:115:GLN:HA	27:BE:185:LYS:HE3	1.79	0.64
34:BM:70:ASP:H	34:BM:71:LYS:NZ	1.95	0.64
42:BU:78:LYS:HG3	42:BU:96:LYS:HE3	1.79	0.64
1:CA:947:G:H2'	1:CA:948:C:C6	2.32	0.64
1:CA:1520:C:H2'	1:CA:1521:C:C6	2.32	0.64
11:CL:65:TYR:HB2	11:CL:92:VAL:HG11	1.78	0.64
13:CN:50:LEU:H	13:CN:51:PRO:CD	2.08	0.64
20:CB:46:VAL:CG1	20:CB:47:PRO:HD3	2.23	0.64
20:CB:130:LYS:HB3	20:CB:134:LEU:HB2	1.79	0.64
23:DB:2039:U:H2'	23:DB:2040:G:C8	2.32	0.64
27:DE:109:LEU:HG	27:DE:117:ARG:HG3	1.78	0.64
28:DF:132:ARG:NH1	28:DF:147:ARG:HD3	2.12	0.64
32:DK:108:ARG:HH22	37:DP:36:LYS:H	1.45	0.64
34:DM:15:GLY:C	34:DM:16:ARG:HG3	2.18	0.64
41:DT:17:SER:H	41:DT:20:ALA:HB3	1.61	0.64
42:DU:4:ILE:HG21	42:DU:25:LYS:HB3	1.79	0.64
2:AC:146:LYS:HD3	2:AC:204:GLY:HA2	1.79	0.64
3:AD:123:MET:HA	3:AD:128:VAL:HA	1.78	0.64
12:AM:52:ILE:HD12	12:AM:55:LEU:HD12	1.78	0.64
13:AN:60:ARG:NH2	13:AN:62:ARG:HE	1.92	0.64
22:BA:20:G:H2'	22:BA:21:G:H8	1.63	0.64
23:BB:172:A:H2'	23:BB:173:A:C8	2.32	0.64
23:BB:784:G:O2'	23:BB:785:G:H5''	1.97	0.64
23:BB:2336:A:N6	43:BW:69:GLU:HG3	2.12	0.64
23:BB:2467:C:O4'	34:BM:118:LYS:HG2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:149:ASN:CB	26:BD:150:GLN:HG2	2.25	0.64
30:BH:140:ALA:C	30:BH:141:LYS:HD3	2.18	0.64
32:BK:71:ARG:O	32:BK:72:PRO:C	2.34	0.64
34:BM:35:ALA:O	34:BM:36:VAL:HG22	1.98	0.64
40:BS:71:VAL:HG22	40:BS:107:VAL:HG12	1.80	0.64
1:CA:441:A:H61	1:CA:493:A:H62	1.45	0.64
8:CI:45:MET:O	8:CI:49:GLN:HG3	1.98	0.64
9:CJ:53:ILE:HG22	9:CJ:61:ALA:HB1	1.80	0.64
11:CL:64:SER:OG	11:CL:96:THR:HG23	1.97	0.64
20:CB:195:VAL:HG12	20:CB:197:PHE:H	1.62	0.64
23:DB:374:A:N6	23:DB:400:G:H1'	2.12	0.64
23:DB:589:U:H2'	23:DB:590:A:C8	2.31	0.64
23:DB:704:G:H1'	23:DB:727:A:H61	1.62	0.64
23:DB:704:G:O2'	23:DB:726:G:N2	2.28	0.64
23:DB:796:C:H2'	23:DB:797:G:H8	1.62	0.64
23:DB:2037:A:H2'	23:DB:2038:G:C8	2.32	0.64
25:DC:27:LYS:N	25:DC:28:PRO:CD	2.60	0.64
25:DC:61:TYR:CE1	25:DC:63:ILE:HD11	2.33	0.64
28:DF:107:VAL:HG12	28:DF:108:PRO:HD3	1.79	0.64
30:DH:68:ARG:HD3	30:DH:71:LYS:HE2	1.80	0.64
32:DK:71:ARG:HB3	32:DK:72:PRO:HD2	1.78	0.64
33:DL:110:VAL:HG22	33:DL:127:VAL:HA	1.78	0.64
33:DL:132:ARG:HH22	33:DL:140:GLY:HA3	1.63	0.64
1:AA:522:C:H41	11:AL:49:ARG:HH22	1.45	0.64
2:AC:176:THR:HB	2:AC:179:ALA:HB2	1.77	0.64
16:AQ:10:ARG:HA	16:AQ:10:ARG:HE	1.62	0.64
18:AS:39:ILE:HG21	18:AS:65:MET:HB3	1.79	0.64
23:BB:170:U:H2'	23:BB:171:U:C6	2.33	0.64
23:BB:450:G:H4'	27:BE:47:LYS:HG2	1.80	0.64
23:BB:547:A:H3'	23:BB:548:G:C8	2.21	0.64
23:BB:632:A:H2'	23:BB:633:A:C8	2.33	0.64
23:BB:720:U:H2'	23:BB:721:A:C8	2.32	0.64
23:BB:813:U:H2'	23:BB:814:C:C6	2.33	0.64
23:BB:2053:G:OP1	26:BD:149:ASN:O	2.16	0.64
23:BB:2901:C:H2'	23:BB:2902:C:H5'	1.80	0.64
29:BG:25:ILE:O	29:BG:31:GLU:HA	1.97	0.64
31:BJ:15:TRP:HA	31:BJ:53:TYR:O	1.98	0.64
31:BJ:45:THR:HG22	38:BQ:63:ARG:NH2	2.13	0.64
40:BS:28:LYS:HD3	40:BS:71:VAL:HG21	1.80	0.64
1:CA:524:G:H2'	1:CA:525:C:C6	2.33	0.64
1:CA:598:U:H4'	7:CH:85:TYR:CD2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.33	0.64
1:CA:1422:G:O2'	1:CA:1423:G:H5'	1.97	0.64
2:CC:11:LEU:HD22	2:CC:17:TRP:NE1	2.11	0.64
18:CS:39:ILE:HB	18:CS:66:VAL:HA	1.79	0.64
21:CU:14:ALA:HB3	21:CU:16:ARG:NH1	2.13	0.64
23:DB:321:U:OP2	27:DE:130:LYS:HG3	1.98	0.64
23:DB:396:G:H5'	46:DZ:11:GLU:HG3	1.80	0.64
23:DB:1151:A:H2'	23:DB:1152:C:C6	2.32	0.64
23:DB:1590:A:H2'	23:DB:1591:A:C8	2.33	0.64
28:DF:132:ARG:HD3	28:DF:133:GLU:N	2.12	0.64
29:DG:9:VAL:HG23	29:DG:11:PRO:HD3	1.79	0.64
32:DK:8:LEU:HD12	32:DK:8:LEU:N	2.12	0.64
33:DL:90:VAL:HG22	33:DL:92:LEU:HD22	1.79	0.64
44:DX:51:ALA:O	44:DX:53:VAL:N	2.31	0.64
48:D1:45:HIS:O	48:D1:46:VAL:HG12	1.96	0.64
1:AA:269:C:H2'	1:AA:270:A:H8	1.63	0.64
1:AA:1101:A:H61	20:AB:173:LYS:HD2	1.63	0.64
3:AD:84:ASN:HD22	3:AD:87:GLU:H	1.43	0.64
10:AK:88:PRO:HA	10:AK:92:ARG:HE	1.63	0.64
16:AQ:59:GLU:H	16:AQ:74:LEU:HD23	1.62	0.64
20:AB:118:THR:O	20:AB:121:GLN:HB3	1.98	0.64
23:BB:62:U:H3'	23:BB:63:A:H8	1.62	0.64
23:BB:263:G:H2'	23:BB:264:C:O4'	1.97	0.64
23:BB:282:A:H2'	23:BB:283:G:C8	2.32	0.64
27:BE:43:THR:HG23	27:BE:44:ARG:NE	2.12	0.64
33:BL:122:VAL:HG23	33:BL:139:GLY:O	1.98	0.64
34:BM:9:PHE:CG	34:BM:10:ARG:N	2.64	0.64
39:BR:53:PHE:HB3	39:BR:55:ASP:HB2	1.79	0.64
39:BR:66:HIS:N	39:BR:98:ILE:HD13	2.12	0.64
1:CA:270:A:H2'	1:CA:271:C:C6	2.33	0.64
1:CA:1031:C:H4'	1:CA:1032:G:H5''	1.80	0.64
1:CA:1129:C:H1'	1:CA:1146:A:H61	1.63	0.64
1:CA:1286:U:O2'	1:CA:1287:A:H5''	1.97	0.64
1:CA:1292:G:H2'	1:CA:1293:C:C6	2.32	0.64
3:CD:97:LEU:HB2	3:CD:134:TYR:HB3	1.79	0.64
11:CL:71:HIS:HD2	11:CL:73:LEU:HD12	1.62	0.64
12:CM:18:LEU:HG	12:CM:21:ILE:HD12	1.79	0.64
23:DB:2526:G:N2	51:D4:2:LYS:HD2	2.13	0.64
23:DB:2645:G:H3'	23:DB:2646:C:H5'	1.79	0.64
25:DC:170:TYR:O	25:DC:171:VAL:HG13	1.98	0.64
46:DZ:55:GLY:HA2	46:DZ:59:ARG:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:205:A:H2'	1:AA:206:C:H6	1.61	0.64
1:AA:1221:G:H5''	18:AS:35:ARG:HH11	1.62	0.64
23:BB:7:G:H1'	31:BJ:135:GLN:HE21	1.63	0.64
23:BB:467:G:OP1	49:B2:33:ARG:HD3	1.96	0.64
23:BB:773:U:H5'	23:BB:774:G:OP2	1.97	0.64
23:BB:877:A:H2'	23:BB:899:A:N1	2.13	0.64
23:BB:1041:G:H2'	23:BB:1042:G:C8	2.33	0.64
23:BB:1132:U:H5''	31:BJ:85:LYS:HZ2	1.61	0.64
26:BD:5:VAL:HG11	26:BD:29:VAL:H	1.63	0.64
35:BN:62:ASN:ND2	35:BN:80:PHE:HB3	2.12	0.64
39:BR:2:TYR:H	39:BR:46:GLU:HB2	1.63	0.64
50:B3:41:ARG:NH1	50:B3:42:HIS:HB3	2.13	0.64
1:CA:1270:G:H2'	1:CA:1271:A:H8	1.63	0.64
4:CE:87:VAL:HG22	4:CE:88:HIS:N	2.12	0.64
13:CN:30:ILE:HG22	13:CN:41:TRP:HB3	1.79	0.64
13:CN:40:ARG:HG3	18:CS:6:LYS:O	1.97	0.64
15:CP:54:LEU:HD13	15:CP:80:LYS:HZ2	1.63	0.64
23:DB:163:C:H2'	23:DB:164:C:O4'	1.98	0.64
23:DB:1219:U:OP2	38:DQ:18:LYS:HE2	1.98	0.64
23:DB:1819:A:OP1	25:DC:153:LEU:HB2	1.98	0.64
23:DB:2339:C:H2'	23:DB:2340:A:C8	2.32	0.64
23:DB:2339:C:H2'	23:DB:2340:A:H8	1.62	0.64
25:DC:124:LYS:CB	25:DC:125:PRO:CD	2.75	0.64
26:DD:60:VAL:O	26:DD:63:PRO:HD2	1.97	0.64
37:DP:52:ARG:O	37:DP:60:VAL:HG21	1.96	0.64
41:DT:38:ALA:HB1	41:DT:43:ILE:HD11	1.79	0.64
41:DT:68:LYS:NZ	41:DT:68:LYS:HB2	2.11	0.64
1:AA:524:G:H2'	1:AA:525:C:C6	2.33	0.64
1:AA:875:U:O2'	7:AH:14:ARG:HD2	1.97	0.64
1:AA:1447:A:H5'	1:AA:1448:C:H5	1.63	0.64
2:AC:61:LYS:O	2:AC:96:VAL:HB	1.98	0.64
3:AD:2:ARG:HG3	3:AD:114:ARG:CZ	2.28	0.64
19:AT:15:LYS:HD3	19:AT:18:LYS:HE3	1.79	0.64
23:BB:2575:C:H5''	26:BD:149:ASN:HB3	1.80	0.64
23:BB:2749:A:OP2	29:BG:3:VAL:HG11	1.97	0.64
25:BC:29:PHE:HB2	25:BC:31:PRO:CD	2.28	0.64
26:BD:2:ILE:HB	26:BD:205:PRO:HD3	1.80	0.64
26:BD:167:ASN:ND2	26:BD:167:ASN:H	1.96	0.64
29:BG:6:ALA:HB3	29:BG:7:PRO:HD3	1.80	0.64
31:BJ:35:ARG:HH21	31:BJ:40:HIS:N	1.95	0.64
31:BJ:41:LYS:O	38:BQ:66:ALA:HB1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:31:LEU:HD11	43:BW:34:SER:CB	2.27	0.64
46:BZ:8:LYS:HD2	46:BZ:9:TYR:H	1.63	0.64
50:B3:24:LYS:NZ	50:B3:29:ARG:HH22	1.96	0.64
1:CA:1277:C:O2'	1:CA:1279:G:H1'	1.98	0.64
5:CF:68:GLN:O	5:CF:71:ILE:HG22	1.98	0.64
9:CJ:36:VAL:HG13	9:CJ:76:ILE:HD11	1.80	0.64
17:CR:72:ARG:HH21	21:CU:23:GLU:HG3	1.61	0.64
20:CB:83:ALA:O	20:CB:88:GLN:HB2	1.98	0.64
23:DB:2199:A:O3'	46:DZ:34:LEU:HD22	1.97	0.64
25:DC:127:ASN:HD22	25:DC:128:THR:N	1.89	0.64
26:DD:107:VAL:HA	26:DD:205:PRO:O	1.98	0.64
28:DF:29:ARG:HD2	28:DF:158:THR:HG21	1.80	0.64
33:DL:75:ALA:HB3	33:DL:108:ALA:HA	1.80	0.64
40:DS:9:HIS:O	40:DS:10:ALA:HB3	1.98	0.64
45:DY:2:LYS:H	45:DY:37:ARG:CB	2.10	0.64
46:DZ:49:ARG:C	46:DZ:51:VAL:H	2.01	0.64
46:DZ:53:THR:HA	46:DZ:56:ARG:HG2	1.78	0.64
1:AA:1468:A:H2'	1:AA:1469:C:O4'	1.98	0.63
18:AS:31:ARG:HG3	18:AS:56:HIS:NE2	2.13	0.63
20:AB:41:ASN:ND2	20:AB:44:LYS:HB2	2.13	0.63
20:AB:202:ASN:HD22	20:AB:204:ASP:N	1.95	0.63
21:AU:40:PRO:O	21:AU:44:ARG:HB2	1.98	0.63
23:BB:275:C:H2'	23:BB:276:U:O4'	1.98	0.63
23:BB:423:A:H5'	23:BB:424:G:C5'	2.28	0.63
23:BB:589:U:H2'	23:BB:590:A:C8	2.33	0.63
23:BB:2789:C:H2'	23:BB:2893:A:N7	2.13	0.63
25:BC:170:TYR:O	25:BC:171:VAL:HG13	1.97	0.63
33:BL:91:ASP:HA	33:BL:123:ARG:HB2	1.80	0.63
40:BS:89:ALA:HA	40:BS:90:LYS:HZ2	1.63	0.63
41:BT:63:VAL:HG13	41:BT:80:TRP:HB2	1.79	0.63
44:BX:12:GLU:HB2	44:BX:14:LEU:CD1	2.28	0.63
23:DB:181:A:H1'	23:DB:435:C:H5'	1.80	0.63
23:DB:345:A:H1'	23:DB:346:A:C2	2.33	0.63
23:DB:632:A:H2'	23:DB:633:A:C8	2.33	0.63
23:DB:990:A:N6	23:DB:1186:G:H1'	2.13	0.63
23:DB:1179:G:H2'	23:DB:1180:U:C6	2.33	0.63
23:DB:1229:C:H2'	23:DB:1230:A:C8	2.33	0.63
30:DH:72:ILE:HG12	30:DH:108:VAL:HG21	1.81	0.63
36:DO:39:VAL:HG12	36:DO:50:ALA:HB2	1.79	0.63
36:DO:109:ALA:O	36:DO:112:GLU:HB2	1.98	0.63
40:DS:82:MET:HG3	40:DS:83:LYS:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:531:U:H5'	1:AA:531:U:H6	1.63	0.63
1:AA:817:C:H1'	1:AA:819:A:H5'	1.80	0.63
11:AL:85:ARG:HA	11:AL:93:ARG:HA	1.80	0.63
20:AB:75:ALA:O	20:AB:79:VAL:HB	1.98	0.63
23:BB:346:A:H2'	23:BB:347:A:O4'	1.99	0.63
23:BB:596:U:H2'	23:BB:597:G:C8	2.34	0.63
23:BB:1470:A:H3'	23:BB:1471:G:H8	1.62	0.63
25:BC:68:ARG:NH2	25:BC:190:THR:HG23	2.13	0.63
25:BC:164:VAL:HB	25:BC:167:ASP:OD1	1.98	0.63
26:BD:130:GLN:NE2	26:BD:138:LEU:HD12	2.12	0.63
27:BE:127:GLU:HB2	27:BE:130:LYS:HB2	1.80	0.63
27:BE:147:LEU:O	27:BE:148:ILE:HG13	1.98	0.63
36:BO:87:ILE:HG22	36:BO:115:LEU:H	1.63	0.63
37:BP:84:SER:O	37:BP:86:LYS:N	2.31	0.63
38:BQ:97:ILE:HA	38:BQ:100:PHE:CZ	2.33	0.63
39:BR:39:LEU:HD12	39:BR:60:LYS:HB2	1.80	0.63
1:CA:1354:U:H2'	1:CA:1355:G:H8	1.63	0.63
1:CA:1436:U:H2'	1:CA:1437:A:C8	2.33	0.63
3:CD:151:GLN:NE2	3:CD:153:ARG:HD2	2.13	0.63
5:CF:47:LEU:HD21	5:CF:57:ALA:CB	2.28	0.63
10:CK:110:THR:HG22	21:CU:5:VAL:H	1.62	0.63
11:CL:86:VAL:HG11	11:CL:89:LEU:HD23	1.79	0.63
23:DB:2415:G:H4'	33:DL:66:PHE:HB2	1.81	0.63
26:DD:8:LYS:HZ3	37:DP:5:LYS:HG3	1.64	0.63
32:DK:94:PRO:HG3	32:DK:114:LYS:HB3	1.80	0.63
33:DL:63:LYS:HB2	50:D3:26:ALA:CB	2.29	0.63
37:DP:52:ARG:HG3	37:DP:52:ARG:NH1	2.09	0.63
39:DR:74:ILE:O	39:DR:75:VAL:HG13	1.98	0.63
1:AA:1011:C:H2'	1:AA:1012:A:H8	1.64	0.63
1:AA:1300:G:H1'	1:AA:1301:U:H5	1.61	0.63
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.33	0.63
5:AF:92:THR:HG23	5:AF:93:LYS:H	1.64	0.63
7:AH:30:LYS:HA	7:AH:30:LYS:HZ2	1.62	0.63
8:AI:113:LYS:HA	8:AI:120:ALA:HB2	1.81	0.63
9:AJ:67:ILE:HD11	13:AN:95:LEU:HD22	1.81	0.63
16:AQ:10:ARG:HH11	16:AQ:55:GLY:H	1.43	0.63
23:BB:607:U:OP2	27:BE:98:LYS:HG2	1.97	0.63
23:BB:616:A:H3'	23:BB:617:G:H8	1.62	0.63
23:BB:968:C:H2'	23:BB:969:G:H8	1.61	0.63
23:BB:2820:A:C4	35:BN:4:ARG:HD3	2.34	0.63
25:BC:53:ILE:HD13	25:BC:218:THR:HG23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:181:ARG:HH22	25:BC:260:LYS:HZ2	1.46	0.63
33:BL:142:ILE:HG13	33:BL:143:GLU:N	2.13	0.63
35:BN:116:VAL:HG22	35:BN:117:ASP:H	1.63	0.63
39:BR:37:GLU:OE1	39:BR:62:GLU:HB2	1.97	0.63
2:CC:54:ILE:HB	2:CC:67:ILE:HD12	1.81	0.63
23:DB:479:A:N3	23:DB:481:G:H5''	2.13	0.63
23:DB:1410:G:H2'	23:DB:1411:U:C6	2.32	0.63
23:DB:1654:A:H4'	35:DN:1:MET:N	2.12	0.63
23:DB:2783:U:H2'	23:DB:2784:U:C6	2.33	0.63
24:DV:4:ILE:O	24:DV:63:ILE:HA	1.98	0.63
25:DC:136:VAL:HA	25:DC:165:ALA:HA	1.80	0.63
27:DE:47:LYS:HD2	27:DE:52:VAL:HG23	1.80	0.63
36:DO:73:ALA:HA	36:DO:76:LYS:NZ	2.12	0.63
45:DY:3:THR:HA	45:DY:37:ARG:O	1.99	0.63
8:AI:20:ILE:HG23	8:AI:60:LEU:HD13	1.79	0.63
8:AI:40:ARG:N	8:AI:44:ARG:HE	1.96	0.63
13:AN:71:GLY:O	13:AN:79:SER:HA	1.98	0.63
20:AB:163:ILE:O	20:AB:185:ILE:HG13	1.99	0.63
21:AU:36:PHE:HB3	21:AU:40:PRO:CG	2.29	0.63
23:BB:469:G:OP2	27:BE:55:SER:HB3	1.99	0.63
26:BD:154:LYS:C	26:BD:156:PHE:N	2.51	0.63
33:BL:118:THR:CB	33:BL:119:PRO:HD3	2.28	0.63
48:B1:13:SER:N	48:B1:50:GLU:HA	2.14	0.63
1:CA:63:C:H5'	1:CA:64:G:OP2	1.99	0.63
1:CA:476:U:H2'	1:CA:477:C:C6	2.34	0.63
1:CA:1213:A:O2'	1:CA:1214:C:H5''	1.98	0.63
19:CT:61:ALA:HA	19:CT:67:HIS:N	2.10	0.63
20:CB:137:THR:HA	20:CB:140:LEU:HD12	1.81	0.63
23:DB:453:A:H4'	23:DB:472:A:N6	2.14	0.63
23:DB:966:G:H5'	23:DB:2272:U:O2	1.98	0.63
23:DB:1450:G:N2	23:DB:1452:G:H1	1.93	0.63
23:DB:1495:A:H2'	23:DB:1496:A:C8	2.33	0.63
27:DE:134:LEU:HD22	27:DE:134:LEU:H	1.63	0.63
38:DQ:48:ASP:HA	38:DQ:51:GLN:HE21	1.60	0.63
45:DY:43:ILE:HA	45:DY:46:MET:HB2	1.80	0.63
1:AA:312:C:H2'	1:AA:313:A:C8	2.33	0.63
11:AL:20:VAL:HG13	11:AL:94:TYR:OH	1.99	0.63
23:BB:1097:U:H2'	23:BB:1098:A:H5'	1.80	0.63
23:BB:1189:A:O3'	33:BL:41:ARG:HG2	1.98	0.63
23:BB:1484:U:H2'	23:BB:1485:U:H6	1.64	0.63
23:BB:1590:A:H2'	23:BB:1591:A:C8	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:20:ASN:HD22	25:BC:202:ARG:HA	1.63	0.63
25:BC:141:HIS:CB	25:BC:190:THR:HB	2.28	0.63
27:BE:72:SER:O	27:BE:75:SER:HB2	1.99	0.63
30:BH:35:LYS:O	30:BH:37:VAL:HG13	1.98	0.63
31:BJ:90:GLU:O	31:BJ:93:ILE:HG22	1.98	0.63
34:BM:82:MET:HB2	34:BM:84:LYS:NZ	2.13	0.63
36:BO:10:ARG:HG3	36:BO:10:ARG:NH1	2.13	0.63
1:CA:531:U:H5'	1:CA:531:U:H6	1.62	0.63
2:CC:39:ARG:HH22	13:CN:91:GLU:HB3	1.63	0.63
5:CF:1:MET:SD	5:CF:67:PRO:HD3	2.38	0.63
12:CM:92:ARG:CZ	12:CM:92:ARG:HA	2.29	0.63
13:CN:44:VAL:HA	13:CN:47:LEU:HB3	1.81	0.63
20:CB:202:ASN:ND2	20:CB:203:ASP:H	1.95	0.63
23:DB:289:G:H2'	23:DB:290:U:C6	2.33	0.63
23:DB:587:C:C3'	33:DL:29:LYS:HD2	2.20	0.63
23:DB:717:C:H3'	23:DB:718:A:H5''	1.80	0.63
23:DB:1098:A:H3'	52:DI:3:LYS:HB3	1.79	0.63
23:DB:1098:A:O5'	52:DI:3:LYS:HG2	1.98	0.63
23:DB:2054:A:H2'	47:D0:4:GLN:HE22	1.63	0.63
27:DE:149:ILE:HD11	27:DE:188:MET:H	1.63	0.63
30:DH:62:LEU:O	30:DH:66:ASN:HB2	1.98	0.63
35:DN:87:PHE:HB2	35:DN:94:TYR:CE2	2.33	0.63
39:DR:49:ILE:HG13	39:DR:51:VAL:HG23	1.80	0.63
43:DW:36:ILE:HD12	43:DW:37:VAL:H	1.64	0.63
44:DX:25:GLN:HG2	44:DX:26:PHE:N	2.12	0.63
6:AG:44:SER:O	6:AG:48:THR:HG23	1.99	0.63
8:AI:51:LEU:HB3	8:AI:56:MET:HG2	1.81	0.63
9:AJ:87:LEU:HD22	9:AJ:90:LEU:HD12	1.79	0.63
13:AN:51:PRO:HB2	13:AN:54:SER:HB3	1.79	0.63
23:BB:794:A:H2'	23:BB:795:C:C6	2.33	0.63
23:BB:946:C:H2'	23:BB:947:A:C8	2.33	0.63
23:BB:1060:U:O4	23:BB:1088:A:N6	2.31	0.63
23:BB:1460:U:H5''	23:BB:1461:C:C6	2.34	0.63
23:BB:1854:A:H62	23:BB:1888:G:H8	1.47	0.63
25:BC:117:SER:HB3	25:BC:127:ASN:ND2	2.14	0.63
35:BN:49:GLU:HB2	35:BN:50:PRO:HD3	1.78	0.63
40:BS:34:ASP:H	40:BS:37:THR:HG22	1.62	0.63
52:BI:77:VAL:HA	52:BI:80:LYS:CE	2.29	0.63
1:CA:194:C:O2'	1:CA:195:A:H5'	1.98	0.63
8:CI:22:PRO:HA	8:CI:60:LEU:HA	1.79	0.63
23:DB:1178:C:H2'	23:DB:1179:G:H8	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1406:U:H2'	23:DB:1407:G:C8	2.33	0.63
23:DB:1590:A:H2'	23:DB:1591:A:H8	1.64	0.63
23:DB:2360:G:H1'	33:DL:61:LEU:HD11	1.80	0.63
23:DB:2471:A:HO2'	23:DB:2472:G:H8	1.42	0.63
23:DB:2574:G:H21	26:DD:147:GLY:HA3	1.62	0.63
26:DD:186:LEU:HD11	37:DP:5:LYS:HD3	1.80	0.63
29:DG:171:LYS:NZ	29:DG:173:ALA:HA	2.14	0.63
31:DJ:64:VAL:HG12	31:DJ:65:THR:N	2.12	0.63
34:DM:16:ARG:HE	34:DM:18:ARG:HH12	1.44	0.63
36:DO:66:GLY:N	36:DO:70:ALA:HB2	2.13	0.63
51:D4:24:ARG:HB2	51:D4:36:ARG:HA	1.80	0.63
52:DI:54:ILE:HD11	52:DI:71:LYS:O	1.98	0.63
52:DI:105:LEU:HD11	52:DI:139:VAL:CG2	2.28	0.63
52:DI:105:LEU:CD1	52:DI:129:GLU:HG2	2.28	0.63
1:AA:105:G:H2'	1:AA:106:C:C6	2.33	0.63
23:BB:1251:C:H6	38:BQ:5:ARG:HH21	1.46	0.63
23:BB:2354:C:H4'	43:BW:30:VAL:HG22	1.79	0.63
38:BQ:60:TRP:CE2	38:BQ:93:ILE:HA	2.34	0.63
47:B0:51:ARG:HD2	47:B0:56:LYS:OXT	1.97	0.63
6:CG:125:ASP:HB3	6:CG:129:ASN:HA	1.81	0.63
14:CO:62:ARG:CZ	14:CO:86:LEU:HD21	2.29	0.63
19:CT:57:VAL:HG12	19:CT:71:ALA:HB1	1.81	0.63
23:DB:138:U:H2'	23:DB:140:C:O4'	1.97	0.63
23:DB:401:A:H2'	23:DB:402:A:C8	2.34	0.63
23:DB:856:G:C4'	43:DW:23:LYS:HD2	2.28	0.63
23:DB:2376:A:H1'	36:DO:111:ARG:HH22	1.63	0.63
25:DC:225:ASN:H	25:DC:226:PRO:HD3	1.64	0.63
36:DO:15:ARG:HH12	43:DW:74:LYS:HG2	1.62	0.63
39:DR:18:GLN:CD	39:DR:18:GLN:H	2.02	0.63
48:D1:4:ILE:HA	48:D1:27:ARG:NH1	2.13	0.63
50:D3:12:ARG:O	50:D3:13:PHE:HB2	1.98	0.63
1:AA:10:A:OP2	4:AE:130:THR:HB	1.99	0.63
2:AC:151:GLU:O	2:AC:197:VAL:HA	1.99	0.63
3:AD:56:GLU:HG2	3:AD:195:ASN:HD22	1.63	0.63
5:AF:9:MET:HA	5:AF:58:HIS:O	1.99	0.63
12:AM:106:ARG:NE	12:AM:112:ARG:HG2	2.08	0.63
15:AP:67:ILE:HD11	15:AP:72:ALA:HA	1.81	0.63
19:AT:59:ARG:HH11	19:AT:59:ARG:HB2	1.62	0.63
23:BB:142:A:H1'	41:BT:2:ILE:HG21	1.80	0.63
23:BB:395:U:H2'	23:BB:396:G:N7	2.14	0.63
23:BB:903:C:H2'	23:BB:904:G:H8	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1176:U:H2'	23:BB:1177:G:O4'	1.98	0.63
23:BB:1219:U:H2'	23:BB:1220:G:C8	2.33	0.63
33:BL:78:ARG:N	33:BL:110:VAL:HG13	2.13	0.63
46:BZ:3:LYS:HB2	46:BZ:51:VAL:CG2	2.25	0.63
1:CA:817:C:H1'	1:CA:819:A:H5'	1.80	0.63
7:CH:76:ARG:HA	7:CH:126:CYS:HB3	1.81	0.63
11:CL:6:LEU:HD11	11:CL:11:ARG:HE	1.63	0.63
19:CT:78:LEU:O	19:CT:82:ILE:HG23	1.99	0.63
20:CB:11:ALA:HB1	20:CB:42:LEU:HD13	1.81	0.63
20:CB:156:LEU:HD11	20:CB:178:LEU:HD13	1.80	0.63
23:DB:2405:G:H1'	23:DB:2412:A:N6	2.14	0.63
23:DB:2500:U:H5'	23:DB:2501:C:OP2	1.99	0.63
23:DB:2887:A:N9	47:D0:27:LEU:HD21	2.13	0.63
26:DD:60:VAL:HG23	26:DD:63:PRO:HD2	1.80	0.63
29:DG:40:VAL:HG22	29:DG:51:PHE:HE2	1.64	0.63
30:DH:76:GLU:O	30:DH:77:THR:HG23	1.98	0.63
39:DR:46:GLU:HG3	39:DR:51:VAL:HG21	1.81	0.63
40:DS:40:ASN:O	40:DS:41:LYS:HB3	1.99	0.63
46:DZ:59:ARG:O	46:DZ:60:PHE:HB3	1.98	0.63
23:BB:704:G:H1'	23:BB:727:A:N6	2.14	0.63
23:BB:2420:C:OP1	50:B3:34:LYS:HE3	1.99	0.63
23:BB:2813:A:H2'	23:BB:2814:A:C8	2.33	0.63
23:BB:2834:G:H1'	23:BB:2883:A:N6	2.14	0.63
28:BF:107:VAL:H	28:BF:108:PRO:HD2	1.64	0.63
1:CA:1320:C:N3	18:CS:35:ARG:HD3	2.14	0.63
2:CC:149:LYS:HE3	2:CC:200:TRP:CE3	2.33	0.63
6:CG:22:LEU:O	6:CG:26:VAL:HG13	1.99	0.63
13:CN:82:LYS:O	13:CN:85:GLU:HB2	1.99	0.63
16:CQ:74:LEU:HD22	16:CQ:75:VAL:N	2.13	0.63
23:DB:443:A:H5''	23:DB:444:C:OP1	1.98	0.63
23:DB:1309:G:H5'	49:D2:8:SER:H	1.63	0.63
25:DC:10:PRO:HB2	25:DC:202:ARG:NH1	2.08	0.63
26:DD:3:GLY:C	26:DD:4:LEU:HD13	2.19	0.63
30:DH:124:THR:HG23	30:DH:128:HIS:HE1	1.63	0.63
31:DJ:49:ASP:HA	31:DJ:114:LEU:HD11	1.81	0.63
33:DL:58:TYR:HB3	50:D3:13:PHE:CE1	2.34	0.63
35:DN:24:MET:HG2	35:DN:44:LEU:HD13	1.81	0.63
36:DO:25:ARG:HE	36:DO:94:ARG:HH12	1.47	0.63
39:DR:63:VAL:CG2	39:DR:64:VAL:H	2.04	0.63
40:DS:3:THR:CG2	40:DS:4:ILE:N	2.62	0.63
41:DT:34:VAL:HG22	41:DT:35:ALA:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DI:63:ASP:O	52:DI:64:ARG:HB2	1.97	0.63
1:AA:79:G:H2'	1:AA:80:A:C8	2.34	0.62
1:AA:1182:G:H4'	1:AA:1183:U:H5'	1.79	0.62
4:AE:114:LEU:HD22	4:AE:119:VAL:HG21	1.80	0.62
10:AK:105:ARG:HH21	21:AU:10:PRO:HG3	1.63	0.62
20:AB:65:LYS:HD2	20:AB:157:PRO:HA	1.80	0.62
20:AB:148:GLY:O	20:AB:151:LYS:HE2	1.99	0.62
22:BA:49:C:H2'	22:BA:50:A:C8	2.34	0.62
23:BB:142:A:H2'	23:BB:143:C:C6	2.34	0.62
23:BB:636:G:OP2	33:BL:128:THR:HG22	1.99	0.62
23:BB:1210:G:H5'	23:BB:1212:G:O4'	1.99	0.62
25:BC:119:VAL:HG22	25:BC:133:ASN:ND2	2.13	0.62
26:BD:60:VAL:HB	26:BD:63:PRO:HG2	1.80	0.62
28:BF:133:GLU:HG3	28:BF:134:GLN:H	1.64	0.62
32:BK:102:PRO:HA	32:BK:121:GLU:HB3	1.80	0.62
33:BL:94:THR:HA	33:BL:96:LYS:HE2	1.79	0.62
34:BM:71:LYS:HE2	34:BM:91:TYR:HB3	1.79	0.62
37:BP:23:ASP:N	37:BP:93:LYS:HE2	2.13	0.62
40:BS:89:ALA:HA	40:BS:90:LYS:HZ1	1.64	0.62
1:CA:269:C:H2'	1:CA:270:A:H8	1.62	0.62
23:DB:974:G:H1'	23:DB:975:A:H8	1.63	0.62
23:DB:1060:U:O4	23:DB:1088:A:N6	2.31	0.62
23:DB:1098:A:C3'	52:DI:3:LYS:HB3	2.28	0.62
23:DB:2461:A:H2'	23:DB:2462:C:C6	2.34	0.62
23:DB:2800:A:H2'	23:DB:2801:G:O4'	1.99	0.62
25:DC:141:HIS:CB	25:DC:190:THR:HB	2.28	0.62
26:DD:52:THR:OG1	26:DD:75:ALA:HB1	1.98	0.62
26:DD:129:THR:HG23	26:DD:130:GLN:H	1.64	0.62
27:DE:39:ALA:O	27:DE:41:GLN:HG2	1.99	0.62
27:DE:161:ALA:O	27:DE:169:VAL:HB	1.99	0.62
33:DL:25:SER:C	33:DL:27:LEU:H	2.02	0.62
37:DP:8:GLU:HA	37:DP:11:GLN:HG2	1.81	0.62
39:DR:67:GLY:H	39:DR:98:ILE:HA	1.61	0.62
50:D3:11:LYS:O	50:D3:12:ARG:HB2	1.98	0.62
1:AA:501:C:H1'	1:AA:549:C:H1'	1.81	0.62
1:AA:1118:U:H1'	1:AA:1179:A:C4	2.34	0.62
1:AA:1171:A:H2'	1:AA:1172:C:H6	1.64	0.62
22:BA:98:G:H1	24:BV:14:LYS:CB	2.12	0.62
23:BB:85:G:H5''	42:BU:28:LEU:HD23	1.79	0.62
23:BB:1381:G:C2'	23:BB:1382:G:H5'	2.29	0.62
23:BB:1450:G:N2	23:BB:1452:G:H1	1.91	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1794:A:H2'	23:BB:1795:C:H6	1.64	0.62
23:BB:2041:U:H2'	23:BB:2042:A:C8	2.34	0.62
23:BB:2179:C:H2'	23:BB:2180:U:C6	2.34	0.62
23:BB:2591:C:H2'	23:BB:2592:G:C8	2.33	0.62
25:BC:146:LYS:HB3	25:BC:147:PRO:HD2	1.81	0.62
30:BH:124:THR:HG22	30:BH:125:THR:H	1.64	0.62
42:BU:39:ASN:HD21	42:BU:60:LYS:HB3	1.64	0.62
43:BW:30:VAL:HG12	43:BW:31:LEU:N	2.14	0.62
52:BI:74:PRO:O	52:BI:77:VAL:HG22	1.99	0.62
1:CA:1000:A:H2'	1:CA:1001:C:C6	2.34	0.62
1:CA:1014:A:C5'	18:CS:13:HIS:HB3	2.29	0.62
5:CF:38:ARG:NH1	5:CF:98:GLU:H	1.95	0.62
23:DB:250:G:OP2	50:D3:7:ARG:NE	2.31	0.62
23:DB:401:A:H2'	23:DB:402:A:H8	1.64	0.62
23:DB:1791:A:C5'	25:DC:211:ARG:HE	2.11	0.62
25:DC:16:VAL:HG12	25:DC:16:VAL:O	1.99	0.62
40:DS:7:HIS:HD2	40:DS:10:ALA:HB2	1.63	0.62
45:DY:38:GLU:O	45:DY:43:ILE:HG21	1.99	0.62
49:D2:12:ARG:CG	49:D2:46:LYS:HA	2.29	0.62
1:AA:69:G:H2'	1:AA:70:U:C6	2.34	0.62
1:AA:678:U:H2'	1:AA:679:C:C6	2.34	0.62
1:AA:981:U:H4'	13:AN:60:ARG:HG3	1.81	0.62
2:AC:5:HIS:CD2	2:AC:8:GLY:H	2.16	0.62
13:AN:11:LYS:O	13:AN:15:LEU:HG	2.00	0.62
23:BB:2077:A:H2'	23:BB:2078:C:C6	2.34	0.62
23:BB:2722:G:H2'	23:BB:2723:C:C6	2.33	0.62
25:BC:103:ILE:HG22	25:BC:104:LEU:N	2.15	0.62
25:BC:196:ASN:HB2	25:BC:199:HIS:CD2	2.30	0.62
26:BD:170:VAL:HG11	26:BD:194:PRO:HG2	1.80	0.62
27:BE:150:THR:HA	27:BE:187:VAL:HG23	1.81	0.62
46:BZ:9:TYR:CZ	46:BZ:11:GLU:HB2	2.34	0.62
1:CA:586:C:O2'	1:CA:587:G:H5'	1.99	0.62
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.35	0.62
1:CA:1386:G:H2'	1:CA:1387:G:C8	2.34	0.62
12:CM:53:ASP:HA	12:CM:56:ARG:NH2	2.15	0.62
13:CN:5:MET:HA	13:CN:8:ARG:HG3	1.80	0.62
23:DB:2012:G:H4'	40:DS:96:ILE:HD11	1.80	0.62
25:DC:107:LYS:HG2	25:DC:194:VAL:HG11	1.80	0.62
28:DF:7:TYR:CA	28:DF:11:VAL:HB	2.28	0.62
30:DH:4:ILE:HG12	30:DH:37:VAL:HG22	1.81	0.62
30:DH:114:GLU:HB3	30:DH:133:GLN:NE2	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:109:LYS:HG2	33:DL:126:ARG:NH1	2.14	0.62
34:DM:131:VAL:HG22	34:DM:133:LYS:H	1.65	0.62
1:AA:441:A:H61	1:AA:493:A:H62	1.44	0.62
1:AA:505:G:H5'	1:AA:534:U:H2'	1.81	0.62
1:AA:1038:C:H2'	1:AA:1039:G:H8	1.64	0.62
10:AK:69:CYS:C	10:AK:71:ASP:H	2.01	0.62
16:AQ:10:ARG:HH11	16:AQ:55:GLY:N	1.97	0.62
19:AT:4:LYS:HD2	19:AT:5:SER:N	2.13	0.62
23:BB:142:A:H1'	41:BT:2:ILE:CG2	2.30	0.62
23:BB:181:A:H2'	23:BB:182:A:H8	1.63	0.62
23:BB:2008:C:H2'	23:BB:2009:A:H8	1.63	0.62
25:BC:231:HIS:ND1	25:BC:231:HIS:O	2.31	0.62
26:BD:142:VAL:HB	26:BD:143:PRO:HD2	1.80	0.62
28:BF:83:PRO:HG2	28:BF:84:ILE:H	1.64	0.62
30:BH:116:ARG:HB2	30:BH:133:GLN:HB2	1.80	0.62
31:BJ:28:LEU:HD23	31:BJ:29:ALA:N	2.14	0.62
39:BR:68:ARG:HD2	39:BR:70:GLU:OE1	1.99	0.62
46:BZ:32:LEU:HD22	46:BZ:33:ASN:N	2.14	0.62
1:CA:105:G:H2'	1:CA:106:C:C6	2.34	0.62
1:CA:1387:G:H2'	1:CA:1388:C:C6	2.34	0.62
3:CD:71:PHE:HE2	3:CD:89:LEU:HD11	1.64	0.62
4:CE:104:ILE:HG23	4:CE:104:ILE:O	2.00	0.62
23:DB:588:U:H5'	33:DL:29:LYS:HZ2	1.63	0.62
23:DB:2147:A:N3	23:DB:2147:A:H2'	2.14	0.62
23:DB:2228:G:N2	46:DZ:32:LEU:HD11	2.15	0.62
25:DC:128:THR:HA	25:DC:189:ALA:O	2.00	0.62
26:DD:27:ILE:HG12	26:DD:185:ASN:O	1.98	0.62
27:DE:108:ILE:HG22	27:DE:180:LEU:HD13	1.82	0.62
31:DJ:7:LYS:NZ	31:DJ:45:THR:HG21	2.14	0.62
34:DM:119:LEU:HD22	34:DM:119:LEU:H	1.64	0.62
36:DO:27:VAL:HG13	36:DO:40:ILE:HD11	1.81	0.62
42:DU:51:LEU:HG	42:DU:53:GLN:H	1.64	0.62
46:DZ:30:HIS:CE1	46:DZ:49:ARG:HH12	2.17	0.62
49:D2:17:GLY:O	49:D2:19:ARG:N	2.27	0.62
3:AD:99:ASN:ND2	3:AD:110:ARG:HE	1.97	0.62
8:AI:30:ASN:ND2	8:AI:65:THR:HA	2.14	0.62
12:AM:1:ALA:O	12:AM:8:ILE:HG22	1.98	0.62
13:AN:15:LEU:HD12	13:AN:16:ALA:N	2.14	0.62
14:AO:87:ARG:HA	14:AO:87:ARG:NH1	2.15	0.62
15:AP:42:ILE:HG22	15:AP:43:ALA:N	2.14	0.62
16:AQ:26:ARG:HE	16:AQ:39:ARG:NH1	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:39:LYS:N	21:AU:40:PRO:HD2	2.13	0.62
23:BB:143:C:O2	41:BT:4:GLU:HG2	2.00	0.62
23:BB:444:C:H5''	27:BE:44:ARG:NH1	2.14	0.62
23:BB:854:C:H2'	23:BB:855:G:C8	2.34	0.62
23:BB:1429:G:H2'	23:BB:1430:G:H8	1.64	0.62
23:BB:2537:U:H2'	23:BB:2538:C:C6	2.34	0.62
23:BB:2597:G:H5''	25:BC:239:PHE:O	2.00	0.62
24:BV:5:ASN:HA	24:BV:64:VAL:HB	1.79	0.62
28:BF:64:PRO:HA	28:BF:88:VAL:CG2	2.29	0.62
29:BG:16:VAL:HG21	29:BG:44:HIS:NE2	2.14	0.62
31:BJ:18:VAL:CG2	31:BJ:56:VAL:HA	2.30	0.62
31:BJ:58:ASN:HA	31:BJ:127:GLY:N	2.14	0.62
32:BK:103:VAL:HB	32:BK:107:LEU:CD2	2.28	0.62
38:BQ:92:LYS:CG	38:BQ:93:ILE:H	2.12	0.62
42:BU:4:ILE:HG21	42:BU:25:LYS:HE2	1.80	0.62
1:CA:554:A:H5'	11:CL:25:ALA:HB1	1.80	0.62
1:CA:677:U:H3	1:CA:713:G:H22	1.48	0.62
6:CG:39:GLU:HG3	6:CG:43:TYR:HD2	1.65	0.62
23:DB:564:C:O2'	23:DB:565:C:H5'	2.00	0.62
23:DB:1484:U:H2'	23:DB:1485:U:H6	1.64	0.62
25:DC:139:THR:HA	25:DC:193:GLU:OE1	2.00	0.62
26:DD:48:ILE:HA	26:DD:79:LEU:O	1.99	0.62
31:DJ:25:LEU:HG	31:DJ:64:VAL:H	1.64	0.62
40:DS:68:ASP:HB2	40:DS:69:LEU:HD22	1.81	0.62
42:DU:24:VAL:HG12	42:DU:26:ASN:OD1	1.99	0.62
1:AA:9:G:H5'	4:AE:107:GLY:HA3	1.81	0.62
11:AL:43:LYS:N	11:AL:44:PRO:HD2	2.14	0.62
22:BA:60:C:H2'	22:BA:61:G:H8	1.63	0.62
23:BB:181:A:H2'	23:BB:182:A:C8	2.34	0.62
23:BB:279:A:C2	23:BB:362:A:H4'	2.34	0.62
23:BB:482:A:H5''	42:BU:43:LYS:HE3	1.82	0.62
23:BB:990:A:H1'	23:BB:1156:A:H2	1.64	0.62
23:BB:1219:U:H2'	23:BB:1220:G:H8	1.65	0.62
23:BB:1535:A:H3'	23:BB:1536:C:C6	2.35	0.62
23:BB:1590:A:H2'	23:BB:1591:A:H8	1.65	0.62
31:BJ:102:GLU:HG2	31:BJ:103:ILE:HG12	1.81	0.62
43:BW:46:ALA:H	43:BW:75:ASN:CG	2.02	0.62
47:B0:35:GLU:CD	47:B0:43:THR:HG22	2.20	0.62
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.35	0.62
2:CC:55:VAL:HG23	2:CC:66:THR:HB	1.82	0.62
23:DB:543:G:H2'	23:DB:544:C:H4'	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1790:C:P	25:DC:219:VAL:HB	2.40	0.62
23:DB:1818:U:H5''	25:DC:155:ARG:CG	2.29	0.62
23:DB:2814:A:H2'	23:DB:2815:C:H6	1.65	0.62
24:DV:9:ARG:HH22	24:DV:16:ALA:HB1	1.65	0.62
1:AA:882:C:O2'	1:AA:883:C:H5'	1.99	0.62
12:AM:68:LEU:O	12:AM:72:ILE:HD13	1.99	0.62
23:BB:545:U:H2'	23:BB:547:A:OP2	2.00	0.62
23:BB:1485:U:H2'	23:BB:1486:U:H6	1.64	0.62
23:BB:2591:C:H2'	23:BB:2592:G:H8	1.65	0.62
26:BD:5:VAL:HG11	26:BD:29:VAL:N	2.14	0.62
29:BG:32:LEU:HD21	29:BG:74:MET:CB	2.29	0.62
30:BH:69:ALA:HB2	30:BH:139:PHE:O	1.98	0.62
35:BN:32:GLU:HA	35:BN:115:LEU:HD21	1.82	0.62
35:BN:37:THR:HG1	35:BN:40:LYS:HB2	1.64	0.62
39:BR:37:GLU:CG	39:BR:62:GLU:H	2.13	0.62
42:BU:88:ASP:HB2	42:BU:91:LYS:O	1.99	0.62
47:B0:32:THR:HG23	47:B0:34:GLY:H	1.63	0.62
52:BI:105:LEU:HD11	52:BI:139:VAL:CG1	2.28	0.62
1:CA:1024:G:O2'	1:CA:1025:U:H5'	2.00	0.62
10:CK:121:ARG:HE	21:CU:34:ARG:CG	2.13	0.62
21:CU:40:PRO:O	21:CU:44:ARG:N	2.33	0.62
22:DA:52:A:H2'	22:DA:53:A:H8	1.65	0.62
23:DB:2071:A:H2'	23:DB:2072:C:C6	2.35	0.62
23:DB:2250:G:C6	34:DM:81:ARG:HG2	2.34	0.62
26:DD:11:MET:HG3	26:DD:12:THR:H	1.65	0.62
30:DH:95:GLY:O	30:DH:99:ILE:HG12	2.00	0.62
34:DM:28:PHE:HB2	34:DM:102:LEU:HG	1.81	0.62
34:DM:71:LYS:O	34:DM:73:ILE:N	2.32	0.62
37:DP:32:VAL:HA	37:DP:42:PHE:CB	2.29	0.62
1:AA:37:U:P	11:AL:119:LYS:HB2	2.40	0.62
1:AA:1060:U:H2'	1:AA:1061:G:C8	2.35	0.62
1:AA:1109:C:H42	1:AA:1110:A:N6	1.98	0.62
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.81	0.62
6:AG:49:LEU:HB2	6:AG:57:GLU:HG3	1.82	0.62
18:AS:5:LYS:HE3	18:AS:5:LYS:N	2.15	0.62
23:BB:992:C:H2'	23:BB:993:G:H8	1.63	0.62
23:BB:1406:U:H2'	23:BB:1407:G:C8	2.35	0.62
23:BB:1495:A:H2'	23:BB:1496:A:C8	2.33	0.62
23:BB:2405:G:H1'	23:BB:2412:A:H61	1.64	0.62
23:BB:2722:G:H2'	23:BB:2723:C:H6	1.64	0.62
25:BC:224:MET:HG3	25:BC:233:GLY:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:140:ILE:HG22	28:BF:142:TYR:H	1.64	0.62
33:BL:55:MET:N	33:BL:56:PRO:CD	2.62	0.62
37:BP:38:ARG:C	37:BP:39:LEU:HD12	2.20	0.62
38:BQ:92:LYS:CA	38:BQ:95:ALA:HB2	2.29	0.62
43:BW:17:ALA:O	43:BW:35:ILE:HA	2.00	0.62
50:B3:7:ARG:HE	50:B3:11:LYS:NZ	1.95	0.62
1:CA:376:G:H5''	15:CP:5:ARG:HB2	1.81	0.62
1:CA:970:C:H42	8:CI:128:LYS:HG2	1.65	0.62
4:CE:114:LEU:HB3	4:CE:119:VAL:HB	1.81	0.62
14:CO:80:LEU:HD23	14:CO:84:LEU:HD13	1.81	0.62
18:CS:48:ILE:O	18:CS:59:VAL:HG22	2.00	0.62
22:DA:5:U:H2'	22:DA:6:G:C8	2.35	0.62
23:DB:2147:A:H4'	23:DB:2148:G:H8	1.64	0.62
23:DB:2704:C:H2'	23:DB:2705:A:O4'	1.99	0.62
23:DB:2789:C:H2'	23:DB:2893:A:N7	2.14	0.62
23:DB:2813:A:H2'	23:DB:2814:A:C8	2.35	0.62
25:DC:95:TYR:HE2	25:DC:101:ARG:HG3	1.64	0.62
26:DD:31:ALA:HA	26:DD:51:THR:CA	2.21	0.62
27:DE:42:GLY:HA2	27:DE:89:PRO:HB3	1.81	0.62
27:DE:133:LEU:HD22	27:DE:136:GLN:HG3	1.81	0.62
36:DO:51:ALA:O	36:DO:52:SER:HB3	1.98	0.62
44:DX:18:LEU:O	44:DX:22:LEU:HB2	2.00	0.62
46:DZ:59:ARG:C	46:DZ:61:ASN:H	2.03	0.62
1:AA:662:U:H2'	1:AA:663:A:C8	2.34	0.62
1:AA:1074:G:H5'	20:AB:104:LYS:NZ	2.15	0.62
1:AA:1225:A:H3'	1:AA:1226:C:C6	2.35	0.62
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.35	0.62
6:AG:148:LYS:HG3	6:AG:151:ALA:HB3	1.80	0.62
13:AN:78:LEU:HB2	13:AN:83:VAL:HG22	1.82	0.62
15:AP:9:HIS:HE1	15:AP:29:ASN:HB2	1.63	0.62
23:BB:1158:C:H5''	45:BY:30:ARG:HD3	1.82	0.62
23:BB:1791:A:H1'	25:BC:206:LYS:NZ	2.14	0.62
23:BB:2784:U:H2'	23:BB:2785:C:H6	1.65	0.62
27:BE:151:GLY:O	27:BE:190:ALA:HB2	2.00	0.62
27:BE:152:GLU:HG2	27:BE:153:LEU:N	2.13	0.62
28:BF:9:ASP:O	28:BF:10:GLU:HB2	2.00	0.62
28:BF:106:ALA:CB	28:BF:136:ILE:HG23	2.30	0.62
31:BJ:81:ILE:HG12	31:BJ:82:GLY:H	1.65	0.62
1:CA:976:G:OP1	13:CN:70:HIS:HA	2.00	0.62
1:CA:1373:G:H5''	6:CG:35:LYS:HB2	1.81	0.62
6:CG:2:ARG:NH1	6:CG:2:ARG:HB3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:37:ARG:N	9:CJ:76:ILE:HG12	2.14	0.62
10:CK:82:GLU:HB3	10:CK:108:ASN:ND2	2.15	0.62
23:DB:460:A:H2'	23:DB:461:C:O4'	2.00	0.62
23:DB:1181:U:H2'	23:DB:1182:G:C8	2.35	0.62
23:DB:1515:A:H2'	23:DB:1516:G:O4'	1.99	0.62
25:DC:226:PRO:HG3	25:DC:232:GLY:O	2.00	0.62
27:DE:183:PHE:C	27:DE:185:LYS:H	2.02	0.62
37:DP:91:VAL:HG12	37:DP:93:LYS:H	1.64	0.62
39:DR:64:VAL:HG22	39:DR:100:GLY:HA2	1.81	0.62
1:AA:132:C:H5''	19:AT:68:LYS:HE3	1.82	0.62
1:AA:203:G:H1'	1:AA:465:A:N6	2.13	0.62
1:AA:763:G:H2'	1:AA:764:C:H6	1.64	0.62
1:AA:1074:G:H5'	20:AB:104:LYS:HZ1	1.64	0.62
16:AQ:26:ARG:HH21	16:AQ:39:ARG:CZ	2.13	0.62
23:BB:13:A:H61	23:BB:525:U:H2'	1.63	0.62
23:BB:796:C:H2'	23:BB:797:G:H8	1.64	0.62
23:BB:1442:U:H2'	23:BB:1443:U:C6	2.34	0.62
23:BB:1790:C:H4'	25:BC:207:ALA:HB2	1.81	0.62
23:BB:2405:G:H1'	23:BB:2412:A:N6	2.15	0.62
23:BB:2836:U:H2'	23:BB:2837:A:H8	1.65	0.62
24:BV:21:ARG:HA	24:BV:25:LYS:O	2.00	0.62
35:BN:98:LEU:HB2	35:BN:112:TYR:CE1	2.35	0.62
46:BZ:53:THR:HA	46:BZ:56:ARG:HD2	1.81	0.62
51:B4:33:HIS:H	51:B4:33:HIS:CD2	2.17	0.62
1:CA:7:A:H2	4:CE:125:LYS:HE2	1.65	0.62
1:CA:1237:C:H3'	1:CA:1336:C:H41	1.65	0.62
6:CG:25:PHE:HD1	6:CG:100:MET:HB2	1.63	0.62
20:CB:163:ILE:HG23	20:CB:164:ASP:N	2.13	0.62
23:DB:69:C:H2'	23:DB:70:G:H8	1.64	0.62
23:DB:93:G:H2'	23:DB:94:A:O4'	1.99	0.62
23:DB:139:U:H3'	23:DB:139:U:P	2.40	0.62
23:DB:388:G:N7	23:DB:390:U:H2'	2.15	0.62
23:DB:633:A:H8	23:DB:633:A:O5'	1.82	0.62
23:DB:1201:U:H2'	23:DB:1202:G:C8	2.34	0.62
23:DB:1412:U:H2'	23:DB:1413:A:C8	2.35	0.62
23:DB:2722:G:H2'	23:DB:2723:C:C6	2.35	0.62
26:DD:50:VAL:HG11	26:DD:75:ALA:HB3	1.81	0.62
26:DD:77:ARG:HH21	26:DD:79:LEU:HB2	1.65	0.62
39:DR:92:TRP:O	39:DR:93:PHE:HB2	2.00	0.62
46:DZ:1:MET:HA	46:DZ:9:TYR:CZ	2.34	0.62
1:AA:476:U:H2'	1:AA:477:C:C6	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:69:THR:HG21	2:AC:75:VAL:HG21	1.81	0.61
7:AH:11:THR:HA	7:AH:14:ARG:NH1	2.14	0.61
8:AI:10:ARG:HB2	8:AI:14:SER:O	2.00	0.61
9:AJ:87:LEU:H	9:AJ:88:MET:HE1	1.64	0.61
20:AB:27:LYS:HB3	20:AB:28:PRO:HD3	1.82	0.61
20:AB:96:LEU:HD21	20:AB:146:SER:HB2	1.82	0.61
21:AU:14:ALA:CA	21:AU:16:ARG:NE	2.59	0.61
23:BB:527:C:H5'	23:BB:2779:U:O2	2.00	0.61
23:BB:580:U:H2'	23:BB:581:C:C6	2.35	0.61
23:BB:1064:C:H4'	52:BI:90:GLY:HA2	1.82	0.61
23:BB:2292:U:H2'	23:BB:2293:G:H8	1.65	0.61
27:BE:18:THR:HG23	27:BE:20:GLY:N	2.15	0.61
31:BJ:11:VAL:HG11	31:BJ:44:TYR:CD1	2.35	0.61
42:BU:9:GLU:HA	42:BU:23:LYS:HA	1.80	0.61
1:CA:1351:U:O2'	1:CA:1352:C:H5'	2.00	0.61
5:CF:43:GLY:HA2	5:CF:58:HIS:CD2	2.35	0.61
6:CG:58:LEU:H	6:CG:58:LEU:HD23	1.65	0.61
14:CO:20:ASP:OD2	14:CO:23:SER:HB2	2.00	0.61
23:DB:873:C:H2'	23:DB:874:G:H8	1.65	0.61
23:DB:1199:U:O2'	38:DQ:2:ARG:HB2	2.00	0.61
23:DB:1437:C:H2'	23:DB:1438:U:H6	1.65	0.61
23:DB:2295:C:O2'	23:DB:2296:U:H5'	1.99	0.61
23:DB:2405:G:H1'	23:DB:2412:A:H61	1.64	0.61
23:DB:2834:G:H1'	23:DB:2883:A:N6	2.15	0.61
48:D1:29:LYS:HB2	48:D1:30:PRO:CD	2.24	0.61
1:AA:590:U:H2'	1:AA:591:U:C6	2.35	0.61
11:AL:64:SER:OG	11:AL:96:THR:HG23	2.00	0.61
12:AM:5:GLY:O	12:AM:6:ILE:HG12	2.00	0.61
23:BB:1183:U:H2'	23:BB:1184:U:C6	2.35	0.61
23:BB:2144:G:H22	23:BB:2148:G:H1'	1.64	0.61
23:BB:2621:G:HO2'	26:BD:164:GLN:HB2	1.65	0.61
23:BB:2814:A:H2'	23:BB:2815:C:H6	1.64	0.61
25:BC:30:ALA:N	25:BC:31:PRO:CD	2.53	0.61
26:BD:12:THR:OG1	26:BD:14:ILE:HG12	2.00	0.61
30:BH:125:THR:CB	30:BH:146:VAL:HB	2.30	0.61
42:BU:27:VAL:HA	42:BU:32:LYS:O	1.99	0.61
42:BU:35:VAL:HG12	42:BU:36:GLU:H	1.64	0.61
1:CA:1134:G:C6	1:CA:1135:U:H1'	2.35	0.61
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.34	0.61
19:CT:3:ILE:O	19:CT:4:LYS:HB2	2.00	0.61
23:DB:307:G:N2	23:DB:309:A:H3'	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1460:U:H5''	23:DB:1461:C:C6	2.35	0.61
23:DB:2309:A:H3'	23:DB:2310:C:H5''	1.82	0.61
23:DB:2636:C:P	26:DD:80:TRP:HE1	2.22	0.61
25:DC:178:GLY:C	25:DC:179:GLU:HG2	2.19	0.61
26:DD:11:MET:O	26:DD:22:ILE:HD12	2.00	0.61
30:DH:26:ALA:C	30:DH:28:ASN:N	2.53	0.61
30:DH:66:ASN:HA	30:DH:138:VAL:HG22	1.81	0.61
30:DH:122:LEU:HD13	30:DH:146:VAL:HG13	1.82	0.61
31:DJ:131:ASN:C	31:DJ:133:ALA:H	2.02	0.61
32:DK:64:ARG:HD2	32:DK:102:PRO:O	2.00	0.61
33:DL:79:LEU:H	33:DL:113:ALA:CB	2.13	0.61
39:DR:5:PHE:HB3	39:DR:12:HIS:CE1	2.35	0.61
42:DU:10:VAL:HG11	42:DU:25:LYS:HE3	1.80	0.61
47:D0:42:ILE:O	47:D0:42:ILE:HG23	2.00	0.61
49:D2:35:ARG:HH22	49:D2:44:VAL:HG22	1.64	0.61
50:D3:42:HIS:O	50:D3:43:LEU:HD12	2.00	0.61
1:AA:918:A:H2'	1:AA:919:A:C8	2.35	0.61
3:AD:20:LEU:HD12	3:AD:20:LEU:H	1.65	0.61
4:AE:85:LYS:HE2	4:AE:92:ARG:NH1	2.16	0.61
9:AJ:80:THR:H	9:AJ:84:VAL:HG11	1.66	0.61
10:AK:95:THR:HG23	10:AK:96:ILE:H	1.65	0.61
23:BB:107:G:H21	23:BB:346:A:N6	1.98	0.61
23:BB:608:A:H2'	23:BB:609:A:C8	2.35	0.61
23:BB:639:U:H2'	23:BB:640:C:C6	2.35	0.61
23:BB:856:G:H2'	23:BB:857:G:C8	2.36	0.61
23:BB:929:U:H5'	45:BY:37:ARG:NH1	2.15	0.61
23:BB:1175:A:H3'	23:BB:1176:U:O4'	2.01	0.61
23:BB:1198:U:H2'	23:BB:1199:U:C6	2.35	0.61
23:BB:1405:U:H2'	23:BB:1406:U:C6	2.36	0.61
23:BB:2527:C:O2'	51:B4:1:MET:HA	2.00	0.61
25:BC:143:VAL:HG11	25:BC:173:LEU:HD11	1.81	0.61
26:BD:140:HIS:O	26:BD:142:VAL:N	2.32	0.61
27:BE:98:LYS:HG3	27:BE:99:LYS:H	1.64	0.61
29:BG:137:LYS:HA	29:BG:140:ILE:HG12	1.80	0.61
32:BK:63:VAL:HB	32:BK:83:ALA:CB	2.29	0.61
34:BM:63:ILE:HD11	34:BM:65:ILE:HG23	1.82	0.61
37:BP:47:ILE:CG2	37:BP:48:ALA:H	2.11	0.61
38:BQ:60:TRP:O	38:BQ:63:ARG:HG2	2.00	0.61
41:BT:69:ARG:H	41:BT:75:GLY:HA3	1.66	0.61
1:CA:763:G:H2'	1:CA:764:C:C6	2.35	0.61
3:CD:195:ASN:HB2	3:CD:198:LEU:HD12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:35:LEU:HD13	4:CE:133:ILE:HA	1.81	0.61
5:CF:86:ARG:HD3	17:CR:63:TYR:O	1.99	0.61
10:CK:22:ILE:HG21	10:CK:95:THR:HG21	1.81	0.61
10:CK:23:HIS:HB3	10:CK:30:ILE:HG13	1.81	0.61
10:CK:46:ALA:HB1	10:CK:61:ALA:HB1	1.82	0.61
11:CL:8:ARG:O	11:CL:10:PRO:HD3	1.99	0.61
14:CO:61:GLN:O	14:CO:65:LEU:HG	1.99	0.61
16:CQ:64:ARG:HH11	16:CQ:64:ARG:HB3	1.65	0.61
23:DB:165:A:H2'	23:DB:166:U:C6	2.35	0.61
23:DB:845:A:C2	23:DB:847:U:H1'	2.35	0.61
23:DB:899:A:H3'	23:DB:900:A:C8	2.34	0.61
23:DB:925:A:O2'	23:DB:926:G:H5'	2.01	0.61
23:DB:962:G:N2	34:DM:81:ARG:HD3	2.14	0.61
23:DB:2147:A:H4'	23:DB:2148:G:C8	2.36	0.61
29:DG:91:VAL:H	29:DG:159:LYS:HZ1	1.47	0.61
33:DL:58:TYR:HA	33:DL:62:PRO:CG	2.30	0.61
38:DQ:63:ARG:HB2	38:DQ:95:ALA:HB1	1.82	0.61
41:DT:60:THR:HA	41:DT:82:LYS:O	1.99	0.61
47:D0:27:LEU:H	47:D0:27:LEU:CD2	2.13	0.61
48:D1:49:LYS:H	48:D1:49:LYS:NZ	1.95	0.61
9:AJ:88:MET:HB2	9:AJ:89:ARG:NH1	2.11	0.61
22:BA:29:A:H3'	22:BA:30:C:H6	1.65	0.61
22:BA:104:A:H2'	22:BA:105:G:O4'	2.00	0.61
23:BB:1117:C:H2'	23:BB:1118:C:C6	2.35	0.61
23:BB:1174:U:H4'	23:BB:1176:U:N3	2.13	0.61
23:BB:1515:A:H2'	23:BB:1516:G:O4'	2.00	0.61
23:BB:2144:G:H2'	23:BB:2146:C:OP2	2.01	0.61
25:BC:191:LEU:HD22	25:BC:191:LEU:O	2.01	0.61
27:BE:128:ALA:CB	27:BE:129:PRO:CD	2.78	0.61
28:BF:41:GLU:HB2	28:BF:45:ASP:N	2.15	0.61
29:BG:10:VAL:HG12	29:BG:47:ASN:O	2.00	0.61
31:BJ:8:PRO:HB2	31:BJ:11:VAL:HB	1.81	0.61
42:BU:11:ILE:HB	42:BU:69:VAL:CB	2.30	0.61
46:BZ:15:SER:HB2	46:BZ:25:ARG:NH1	2.15	0.61
1:CA:815:A:H62	1:CA:1509:C:H1'	1.66	0.61
1:CA:1171:A:H2'	1:CA:1172:C:C6	2.35	0.61
2:CC:49:ALA:HB2	2:CC:74:ILE:CG2	2.30	0.61
2:CC:151:GLU:HA	2:CC:166:TRP:HA	1.81	0.61
23:DB:664:G:H2'	23:DB:665:U:H6	1.65	0.61
23:DB:1259:G:H2'	23:DB:1260:A:H8	1.65	0.61
23:DB:1442:U:H2'	23:DB:1443:U:C6	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2557:G:H2'	23:DB:2558:C:C6	2.35	0.61
28:DF:9:ASP:O	28:DF:10:GLU:HB2	2.00	0.61
28:DF:55:ASP:O	28:DF:59:ILE:HB	2.01	0.61
28:DF:140:ILE:HG22	28:DF:142:TYR:H	1.65	0.61
31:DJ:124:VAL:HG23	31:DJ:125:TYR:N	2.07	0.61
32:DK:35:VAL:HG21	32:DK:69:VAL:HG22	1.83	0.61
32:DK:119:ALA:O	32:DK:120:PRO:C	2.37	0.61
35:DN:28:LEU:HA	35:DN:34:ILE:HD11	1.80	0.61
37:DP:49:ILE:O	37:DP:50:ARG:HD3	1.99	0.61
46:DZ:37:CYS:SG	46:DZ:39:LYS:HB2	2.41	0.61
50:D3:51:LYS:HA	50:D3:51:LYS:NZ	2.16	0.61
1:AA:121:U:OP1	1:AA:121:U:H3'	2.00	0.61
1:AA:1438:G:O2'	1:AA:1439:G:H5'	2.00	0.61
4:AE:140:ILE:HA	4:AE:143:LEU:HD12	1.81	0.61
19:AT:68:LYS:CG	19:AT:69:ASN:H	2.12	0.61
20:AB:17:HIS:HB2	20:AB:202:ASN:OD1	2.00	0.61
23:BB:564:C:O2'	23:BB:565:C:H5'	2.00	0.61
23:BB:917:A:C2	23:BB:918:A:H1'	2.36	0.61
23:BB:1197:G:H2'	23:BB:1198:U:C6	2.35	0.61
23:BB:1821:A:H5'	25:BC:155:ARG:HD2	1.81	0.61
23:BB:2704:C:H2'	23:BB:2705:A:O4'	1.99	0.61
23:BB:2783:U:H2'	23:BB:2784:U:C6	2.35	0.61
25:BC:209:ALA:HB1	25:BC:213:ARG:NH1	2.15	0.61
25:BC:229:HIS:ND1	25:BC:230:PRO:HD2	2.16	0.61
27:BE:159:LEU:HA	27:BE:169:VAL:HG21	1.80	0.61
28:BF:125:GLY:HA3	28:BF:159:ALA:HB3	1.83	0.61
30:BH:69:ALA:HB2	30:BH:140:ALA:HA	1.83	0.61
32:BK:47:ILE:HG23	32:BK:48:PRO:HD2	1.83	0.61
37:BP:59:THR:O	37:BP:60:VAL:HG13	1.99	0.61
44:BX:22:LEU:HA	44:BX:47:ARG:HH12	1.65	0.61
1:CA:590:U:H2'	1:CA:591:U:C6	2.36	0.61
3:CD:151:GLN:HE21	3:CD:153:ARG:HD2	1.66	0.61
9:CJ:66:GLU:HB2	13:CN:98:ALA:CB	2.28	0.61
19:CT:68:LYS:HB2	19:CT:70:LYS:CD	2.30	0.61
20:CB:78:ALA:HB1	20:CB:213:LEU:HD22	1.80	0.61
23:DB:1188:U:H4'	39:DR:84:ARG:HD3	1.83	0.61
23:DB:1405:U:H2'	23:DB:1406:U:C6	2.36	0.61
26:DD:69:ALA:HB2	26:DD:90:PHE:HB2	1.82	0.61
26:DD:128:ARG:HD3	26:DD:128:ARG:N	2.15	0.61
46:DZ:59:ARG:CB	46:DZ:63:ARG:HB2	2.29	0.61
52:DI:121:ILE:HD13	52:DI:121:ILE:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:60:A:H4'	1:AA:61:G:O5'	1.99	0.61
1:AA:80:A:H2'	1:AA:81:A:O4'	2.01	0.61
1:AA:105:G:H2'	1:AA:106:C:H6	1.66	0.61
1:AA:1285:A:H4'	1:AA:1286:U:C5	2.36	0.61
1:AA:1295:U:H2'	1:AA:1296:C:C6	2.35	0.61
4:AE:152:VAL:HG21	7:AH:98:LEU:HD23	1.83	0.61
18:AS:4:LEU:HD13	18:AS:9:PHE:N	2.13	0.61
18:AS:50:VAL:O	18:AS:56:HIS:HA	2.00	0.61
23:BB:274:C:H2'	23:BB:275:C:O4'	2.00	0.61
23:BB:2241:A:H2'	23:BB:2242:G:C8	2.34	0.61
23:BB:2266:A:H4'	23:BB:2267:A:N7	2.16	0.61
23:BB:2751:G:O5'	29:BG:3:VAL:HG13	2.01	0.61
27:BE:9:GLN:NE2	27:BE:120:VAL:HG13	2.15	0.61
28:BF:34:THR:O	28:BF:153:ILE:HA	2.01	0.61
47:B0:8:THR:HG23	47:B0:9:ARG:N	2.16	0.61
1:CA:1021:A:H2'	1:CA:1022:A:C8	2.35	0.61
1:CA:1361:G:H2'	1:CA:1362:A:H5''	1.82	0.61
3:CD:117:VAL:HG12	3:CD:130:ASN:HA	1.81	0.61
12:CM:47:LEU:HD23	12:CM:47:LEU:H	1.66	0.61
23:DB:2198:A:H4'	23:DB:2199:A:OP1	2.01	0.61
23:DB:2271:G:O2'	23:DB:2272:U:H5'	2.00	0.61
23:DB:2309:A:H5'	23:DB:2310:C:OP2	1.99	0.61
23:DB:2562:U:H1'	32:DK:23:LYS:HE2	1.82	0.61
30:DH:125:THR:HA	30:DH:146:VAL:CB	2.26	0.61
34:DM:41:LEU:CB	34:DM:93:VAL:HB	2.30	0.61
34:DM:53:MET:HA	34:DM:112:LEU:HD21	1.82	0.61
34:DM:60:GLN:HE21	34:DM:61:GLY:H	1.49	0.61
39:DR:85:LYS:O	39:DR:86:GLN:HG3	2.00	0.61
42:DU:28:LEU:HD21	42:DU:32:LYS:N	2.16	0.61
1:AA:8:A:H2'	3:AD:205:LYS:O	2.00	0.61
1:AA:983:A:H5'	1:AA:984:C:OP2	1.99	0.61
3:AD:191:SER:O	3:AD:192:ALA:HB2	2.01	0.61
5:AF:99:ALA:O	5:AF:100:SER:HB2	2.00	0.61
6:AG:64:ALA:HA	6:AG:127:ALA:HB2	1.83	0.61
20:AB:76:SER:O	20:AB:79:VAL:HG12	2.01	0.61
23:BB:240:C:H3'	23:BB:241:A:H5''	1.83	0.61
23:BB:437:U:H2'	23:BB:438:G:C8	2.36	0.61
23:BB:1469:A:H2'	23:BB:1470:A:H8	1.66	0.61
23:BB:2037:A:H2'	23:BB:2038:G:H8	1.65	0.61
24:BV:70:ILE:N	24:BV:70:ILE:HD13	2.16	0.61
25:BC:224:MET:HA	25:BC:232:GLY:CA	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:37:VAL:HB	26:BD:42:ASN:CG	2.21	0.61
26:BD:84:LEU:HD21	26:BD:86:GLU:HB2	1.82	0.61
26:BD:175:LEU:HD11	26:BD:192:ALA:HB3	1.82	0.61
31:BJ:102:GLU:HG2	31:BJ:103:ILE:N	2.15	0.61
33:BL:64:PHE:CD1	50:B3:24:LYS:HB2	2.36	0.61
33:BL:77:ILE:HG22	33:BL:78:ARG:H	1.64	0.61
35:BN:13:ASN:HD22	35:BN:15:SER:HB2	1.65	0.61
38:BQ:88:GLU:OE1	38:BQ:111:LYS:HD2	2.00	0.61
52:BI:37:PHE:HB2	52:BI:66:PHE:CZ	2.36	0.61
1:CA:451:A:H5'	15:CP:70:ARG:NH2	2.14	0.61
13:CN:25:GLU:O	13:CN:29:ILE:HG13	1.99	0.61
13:CN:63:CYS:O	13:CN:67:GLY:HA2	2.01	0.61
23:DB:65:U:H2'	23:DB:66:C:C6	2.35	0.61
23:DB:184:C:H2'	23:DB:185:G:H8	1.66	0.61
23:DB:651:G:OP1	50:D3:18:LYS:HG2	1.99	0.61
23:DB:1113:U:H5''	29:DG:2:ARG:NE	2.16	0.61
23:DB:2591:C:H2'	23:DB:2592:G:C8	2.35	0.61
23:DB:2820:A:C5	26:DD:197:THR:HB	2.36	0.61
25:DC:110:LYS:HA	25:DC:110:LYS:HE3	1.83	0.61
26:DD:152:PRO:HB2	26:DD:154:LYS:HE2	1.83	0.61
29:DG:70:LEU:O	29:DG:74:MET:HG3	2.01	0.61
33:DL:125:LEU:O	33:DL:127:VAL:HG13	2.00	0.61
37:DP:27:VAL:HG13	37:DP:29:VAL:HG23	1.82	0.61
40:DS:3:THR:O	40:DS:4:ILE:O	2.18	0.61
42:DU:43:LYS:HG2	42:DU:57:ILE:HB	1.81	0.61
43:DW:19:ARG:HB3	43:DW:35:ILE:HG13	1.82	0.61
50:D3:12:ARG:CG	50:D3:24:LYS:H	2.04	0.61
50:D3:32:LEU:HD13	50:D3:33:THR:H	1.65	0.61
1:AA:212:G:H2'	1:AA:213:G:H8	1.65	0.61
3:AD:58:GLN:HA	3:AD:61:ARG:HB2	1.83	0.61
12:AM:98:GLY:H	12:AM:99:GLN:HE21	1.49	0.61
14:AO:55:LEU:O	14:AO:59:VAL:HG23	2.01	0.61
16:AQ:59:GLU:H	16:AQ:74:LEU:CD2	2.14	0.61
23:BB:19:A:H2'	23:BB:20:C:C6	2.36	0.61
23:BB:55:G:P	49:B2:35:ARG:HH21	2.23	0.61
23:BB:587:C:OP2	33:BL:29:LYS:HG2	2.01	0.61
23:BB:708:G:H2'	23:BB:709:U:C6	2.36	0.61
23:BB:1818:U:O3'	25:BC:155:ARG:HB2	2.01	0.61
23:BB:2267:A:N6	23:BB:2272:U:C4	2.68	0.61
23:BB:2291:U:H2'	23:BB:2292:U:C6	2.36	0.61
26:BD:37:VAL:HG12	26:BD:38:LYS:HZ3	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:7:GLY:O	35:BN:8:ARG:HB2	2.01	0.61
37:BP:27:VAL:HG21	37:BP:86:LYS:HB2	1.82	0.61
38:BQ:27:ARG:HA	38:BQ:33:VAL:HB	1.83	0.61
38:BQ:57:ARG:HD2	38:BQ:92:LYS:NZ	2.16	0.61
45:BY:3:THR:HG21	45:BY:43:ILE:HB	1.83	0.61
1:CA:121:U:OP1	1:CA:121:U:H3'	2.01	0.61
1:CA:212:G:H2'	1:CA:213:G:H8	1.66	0.61
1:CA:939:G:H5''	6:CG:101:ARG:NH2	2.15	0.61
1:CA:1118:U:H2'	1:CA:1119:C:H6	1.66	0.61
13:CN:12:ARG:HG3	13:CN:53:ASP:O	2.01	0.61
16:CQ:12:VAL:HG11	16:CQ:42:LYS:NZ	2.16	0.61
23:DB:969:G:H2'	23:DB:970:U:C6	2.35	0.61
27:DE:149:ILE:HD13	27:DE:186:VAL:HG13	1.83	0.61
37:DP:89:GLY:HA2	37:DP:112:ARG:NH2	2.15	0.61
39:DR:67:GLY:H	39:DR:98:ILE:CA	2.14	0.61
43:DW:44:PHE:HD2	43:DW:77:LYS:HB3	1.64	0.61
47:D0:51:ARG:HG3	47:D0:55:ALA:HB2	1.83	0.61
52:DI:32:VAL:HG22	52:DI:60:VAL:CG2	2.30	0.61
6:AG:3:ARG:NH1	6:AG:3:ARG:HB3	2.16	0.61
12:AM:88:LEU:O	12:AM:92:ARG:HG3	2.00	0.61
19:AT:60:GLN:NE2	19:AT:61:ALA:H	1.99	0.61
20:AB:128:LEU:HG	20:AB:132:GLU:HG2	1.83	0.61
23:BB:278:A:N3	23:BB:278:A:H2'	2.16	0.61
23:BB:478:A:N1	23:BB:500:G:H4'	2.16	0.61
23:BB:1076:C:H4'	52:BI:94:LYS:NZ	2.15	0.61
23:BB:1874:C:H2'	23:BB:1875:G:O4'	2.00	0.61
23:BB:2784:U:H2'	23:BB:2785:C:C6	2.35	0.61
25:BC:37:SER:OG	25:BC:38:LYS:N	2.34	0.61
25:BC:77:VAL:HG23	25:BC:115:ILE:HD11	1.83	0.61
30:BH:2:GLN:N	30:BH:21:VAL:HG12	2.16	0.61
31:BJ:34:ARG:HB3	31:BJ:39:LYS:HB2	1.83	0.61
37:BP:52:ARG:HG2	37:BP:54:LEU:HB2	1.83	0.61
39:BR:42:ALA:CA	39:BR:54:VAL:HA	2.30	0.61
43:BW:49:ASN:HB2	43:BW:53:GLY:CA	2.30	0.61
48:B1:42:VAL:CG1	48:B1:43:ARG:HG3	2.30	0.61
1:CA:451:A:H4'	1:CA:452:A:O4'	2.00	0.61
1:CA:970:C:N4	8:CI:128:LYS:HG2	2.16	0.61
1:CA:1151:A:O2'	1:CA:1152:A:H5''	2.00	0.61
2:CC:37:LYS:HB3	2:CC:41:TYR:CE1	2.36	0.61
23:DB:414:C:H2'	23:DB:415:A:H8	1.65	0.61
23:DB:479:A:O2'	23:DB:481:G:H5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:639:U:H2'	23:DB:640:C:C6	2.36	0.61
23:DB:850:U:H2'	23:DB:851:C:C6	2.36	0.61
25:DC:20:ASN:HB2	25:DC:202:ARG:CD	2.30	0.61
27:DE:164:LEU:HD22	27:DE:164:LEU:C	2.20	0.61
35:DN:42:LYS:HE3	35:DN:45:ARG:HG3	1.83	0.61
37:DP:23:ASP:O	37:DP:25:VAL:N	2.34	0.61
51:D4:10:LEU:HB2	51:D4:25:VAL:CG2	2.31	0.61
1:AA:1074:G:H2'	1:AA:1075:U:C6	2.35	0.61
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.01	0.61
3:AD:7:LYS:HE2	3:AD:20:LEU:HD22	1.83	0.61
3:AD:163:GLN:HB2	3:AD:164:ARG:NH1	2.14	0.61
4:AE:96:GLN:HB3	4:AE:123:LEU:CD1	2.31	0.61
5:AF:40:GLU:HG3	5:AF:42:TRP:NE1	2.16	0.61
6:AG:22:LEU:O	6:AG:25:PHE:HB3	2.01	0.61
15:AP:46:LYS:H	15:AP:46:LYS:CD	2.10	0.61
23:BB:116:C:H2'	23:BB:117:G:C8	2.36	0.61
26:BD:12:THR:HB	26:BD:21:SER:O	2.01	0.61
31:BJ:41:LYS:NZ	31:BJ:46:PRO:HD3	2.15	0.61
33:BL:78:ARG:H	33:BL:78:ARG:CZ	2.13	0.61
36:BO:41:ALA:HB1	36:BO:42:PRO:HD2	1.82	0.61
38:BQ:65:ASN:HA	38:BQ:75:TYR:HB2	1.81	0.61
39:BR:79:ARG:HD3	39:BR:86:GLN:NE2	2.16	0.61
52:BI:85:ILE:HD13	52:BI:137:LEU:HD21	1.83	0.61
1:CA:105:G:H2'	1:CA:106:C:H6	1.66	0.61
1:CA:1324:A:H5'	1:CA:1362:A:O2'	2.01	0.61
7:CH:81:GLY:O	7:CH:82:LEU:HB2	2.01	0.61
9:CJ:38:GLY:O	9:CJ:74:VAL:HA	2.00	0.61
23:DB:704:G:HO2'	23:DB:726:G:H22	1.48	0.61
23:DB:930:G:H1'	45:DY:24:LEU:HD12	1.83	0.61
23:DB:1013:C:H2'	23:DB:1014:A:H8	1.66	0.61
25:DC:27:LYS:HG2	25:DC:81:GLU:CA	2.31	0.61
25:DC:243:PRO:CA	25:DC:249:VAL:HG23	2.29	0.61
40:DS:64:ALA:HB1	40:DS:69:LEU:HD21	1.83	0.61
52:DI:5:GLN:O	52:DI:6:ALA:CB	2.49	0.61
1:AA:194:C:O2'	1:AA:195:A:H5'	2.01	0.60
1:AA:1225:A:H4'	18:AS:77:ARG:NH2	2.16	0.60
1:AA:1254:A:OP1	9:AJ:47:GLU:HG3	2.01	0.60
3:AD:120:LYS:HB2	3:AD:145:ARG:HH21	1.66	0.60
7:AH:5:PRO:HB2	7:AH:32:LYS:HZ1	1.65	0.60
8:AI:35:GLU:HA	8:AI:39:GLY:HA3	1.82	0.60
19:AT:54:GLN:N	19:AT:55:PRO:HD2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:69:VAL:O	20:AB:163:ILE:HG22	2.00	0.60
21:AU:14:ALA:CA	21:AU:16:ARG:CD	2.78	0.60
23:BB:1060:U:C5	52:BI:131:THR:HG22	2.35	0.60
23:BB:1082:U:O4	23:BB:1086:A:C2	2.54	0.60
25:BC:140:VAL:HG23	25:BC:193:GLU:OE2	2.01	0.60
29:BG:88:LEU:HD11	29:BG:95:ALA:HB2	1.81	0.60
31:BJ:25:LEU:HG	31:BJ:64:VAL:N	2.10	0.60
33:BL:55:MET:N	33:BL:56:PRO:HD2	2.16	0.60
35:BN:35:LYS:HA	35:BN:112:TYR:HA	1.83	0.60
36:BO:41:ALA:HB3	36:BO:45:SER:HB3	1.82	0.60
37:BP:26:GLU:HA	37:BP:47:ILE:N	2.15	0.60
37:BP:31:VAL:HA	37:BP:81:ASP:CB	2.31	0.60
41:BT:3:ARG:HG2	41:BT:3:ARG:O	2.00	0.60
42:BU:12:VAL:HG11	42:BU:18:LYS:H	1.65	0.60
1:CA:89:U:H2'	1:CA:90:C:H6	1.64	0.60
1:CA:501:C:H1'	1:CA:549:C:H1'	1.83	0.60
3:CD:25:ARG:HB2	3:CD:25:ARG:HH11	1.65	0.60
14:CO:21:THR:HA	14:CO:26:VAL:HG11	1.81	0.60
16:CQ:60:ILE:HG22	16:CQ:74:LEU:HA	1.82	0.60
23:DB:79:C:O2'	23:DB:346:A:H1'	2.01	0.60
23:DB:289:G:H2'	23:DB:290:U:H6	1.65	0.60
23:DB:438:G:H2'	23:DB:439:A:H8	1.65	0.60
23:DB:448:U:O4	23:DB:583:G:H1'	2.01	0.60
23:DB:878:A:N3	23:DB:878:A:H2'	2.15	0.60
23:DB:920:A:H2'	23:DB:921:C:C6	2.36	0.60
23:DB:950:G:H2'	23:DB:951:C:H6	1.66	0.60
27:DE:14:VAL:HG12	27:DE:15:SER:H	1.66	0.60
27:DE:136:GLN:HA	27:DE:139:LYS:HG2	1.82	0.60
31:DJ:40:HIS:HB2	38:DQ:69:ARG:NH2	2.08	0.60
32:DK:93:GLN:HG2	32:DK:94:PRO:HD2	1.83	0.60
33:DL:126:ARG:O	33:DL:127:VAL:HG22	2.01	0.60
43:DW:38:ARG:HE	43:DW:40:ARG:HA	1.65	0.60
1:AA:78:A:H2'	1:AA:79:G:H8	1.62	0.60
1:AA:1219:A:H2'	1:AA:1220:G:H8	1.65	0.60
4:AE:33:THR:O	4:AE:34:ALA:HB3	2.00	0.60
7:AH:42:GLU:HG3	7:AH:100:ILE:HD13	1.84	0.60
9:AJ:56:HIS:N	13:AN:80:ARG:HH22	1.98	0.60
21:AU:26:GLY:C	21:AU:28:LEU:H	2.05	0.60
23:BB:36:G:H2'	23:BB:37:C:O4'	2.00	0.60
23:BB:414:C:H2'	23:BB:415:A:C8	2.36	0.60
23:BB:992:C:O2'	23:BB:993:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2292:U:H2'	23:BB:2293:G:C8	2.37	0.60
23:BB:2872:A:O2'	23:BB:2873:A:H5''	2.01	0.60
24:BV:44:HIS:NE2	24:BV:85:LYS:HB2	2.16	0.60
25:BC:29:PHE:HB2	25:BC:31:PRO:HD2	1.83	0.60
25:BC:224:MET:O	25:BC:225:ASN:HB2	2.01	0.60
29:BG:97:VAL:HG23	29:BG:124:CYS:SG	2.41	0.60
33:BL:118:THR:H	33:BL:119:PRO:CD	2.11	0.60
37:BP:93:LYS:HB3	37:BP:96:LEU:HA	1.83	0.60
39:BR:35:PHE:HB2	39:BR:64:VAL:CG2	2.31	0.60
1:CA:1508:A:H2'	1:CA:1509:C:H6	1.64	0.60
4:CE:113:VAL:HG23	4:CE:114:LEU:H	1.66	0.60
11:CL:51:VAL:HG12	11:CL:52:CYS:H	1.67	0.60
13:CN:53:ASP:HA	13:CN:58:ARG:HH11	1.67	0.60
23:DB:361:G:O2'	23:DB:362:A:H5'	2.01	0.60
23:DB:383:C:N4	23:DB:385:C:H2'	2.16	0.60
23:DB:936:A:H2'	23:DB:937:C:H6	1.66	0.60
23:DB:1099:G:P	52:DI:4:VAL:N	2.71	0.60
23:DB:1299:G:H4'	23:DB:1301:A:H1'	1.83	0.60
23:DB:1854:A:H62	23:DB:1888:G:H8	1.50	0.60
25:DC:136:VAL:CA	25:DC:165:ALA:HA	2.31	0.60
26:DD:146:ILE:HG12	26:DD:155:VAL:HG13	1.83	0.60
30:DH:11:ASN:HD22	30:DH:20:ASN:ND2	1.97	0.60
30:DH:131:SER:HB2	30:DH:141:LYS:HG3	1.83	0.60
31:DJ:124:VAL:CG2	31:DJ:125:TYR:H	2.09	0.60
38:DQ:9:ALA:O	38:DQ:12:ARG:HB3	2.01	0.60
39:DR:3:ALA:HB1	39:DR:12:HIS:HB3	1.81	0.60
39:DR:81:LYS:O	39:DR:83:TYR:N	2.33	0.60
40:DS:46:LEU:O	40:DS:50:VAL:HG13	2.01	0.60
42:DU:33:VAL:HG23	42:DU:65:GLN:HE21	1.66	0.60
44:DX:17:GLU:HA	44:DX:21:LEU:HB2	1.82	0.60
45:DY:3:THR:O	45:DY:36:GLU:HA	2.02	0.60
52:DI:85:ILE:CD1	52:DI:137:LEU:HD21	2.31	0.60
10:AK:86:LYS:HG3	10:AK:113:THR:HA	1.82	0.60
22:BA:48:U:H2'	22:BA:49:C:C6	2.36	0.60
23:BB:280:U:H2'	23:BB:281:C:C6	2.36	0.60
23:BB:833:A:H2'	23:BB:834:G:C8	2.36	0.60
23:BB:946:C:H2'	23:BB:947:A:H8	1.66	0.60
23:BB:1188:U:H4'	39:BR:83:TYR:HB2	1.82	0.60
23:BB:2469:A:H5''	34:BM:55:ARG:HD2	1.82	0.60
23:BB:2873:A:N3	35:BN:6:SER:HA	2.16	0.60
25:BC:50:THR:HG22	25:BC:51:ARG:CG	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:106:LYS:HA	27:BE:108:ILE:HD13	1.83	0.60
29:BG:173:ALA:HB3	29:BG:174:LYS:NZ	2.16	0.60
30:BH:116:ARG:HB3	30:BH:131:SER:O	2.01	0.60
31:BJ:20:ALA:HB1	31:BJ:59:ALA:HA	1.83	0.60
31:BJ:63:ALA:HA	31:BJ:69:ARG:HD2	1.81	0.60
33:BL:63:LYS:HB2	50:B3:11:LYS:NZ	2.15	0.60
46:BZ:49:ARG:C	46:BZ:51:VAL:H	2.03	0.60
52:BI:32:VAL:HG22	52:BI:60:VAL:CG2	2.31	0.60
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.35	0.60
16:CQ:10:ARG:CZ	16:CQ:55:GLY:N	2.64	0.60
23:DB:947:A:H2'	23:DB:948:C:C6	2.37	0.60
23:DB:1162:G:O2'	23:DB:1163:G:H5'	2.01	0.60
23:DB:1857:G:H1'	23:DB:1885:A:N6	2.16	0.60
24:DV:16:ALA:N	24:DV:19:ARG:HH21	1.98	0.60
27:DE:23:PHE:C	27:DE:110:SER:HB2	2.21	0.60
32:DK:35:VAL:HA	32:DK:62:VAL:O	2.01	0.60
34:DM:41:LEU:HD22	34:DM:95:LEU:HD13	1.83	0.60
37:DP:13:LYS:HG3	37:DP:78:PRO:HG3	1.83	0.60
39:DR:66:HIS:HA	39:DR:98:ILE:HD13	1.83	0.60
50:D3:7:ARG:NH1	50:D3:10:ALA:HB3	2.17	0.60
4:AE:35:LEU:HD11	4:AE:136:VAL:HG11	1.81	0.60
10:AK:83:VAL:HG23	10:AK:109:ILE:HA	1.84	0.60
18:AS:28:LYS:HB2	18:AS:29:PRO:HD2	1.84	0.60
23:BB:100:U:H4'	42:BU:90:LYS:CE	2.31	0.60
23:BB:598:U:H2'	23:BB:599:A:H8	1.65	0.60
23:BB:1690:A:H2'	23:BB:1691:C:O4'	2.01	0.60
23:BB:2393:U:C5'	33:BL:62:PRO:HA	2.31	0.60
23:BB:2849:U:H4'	23:BB:2850:A:H5'	1.84	0.60
23:BB:2852:G:H2'	23:BB:2853:C:C6	2.36	0.60
33:BL:66:PHE:N	33:BL:66:PHE:CD1	2.68	0.60
40:BS:7:HIS:CG	40:BS:8:ARG:H	2.19	0.60
45:BY:9:THR:HB	45:BY:54:VAL:CA	2.25	0.60
48:B1:42:VAL:HG13	48:B1:43:ARG:N	2.16	0.60
52:BI:130:GLY:HA2	52:BI:133:ARG:HH21	1.67	0.60
1:CA:662:U:H2'	1:CA:663:A:C8	2.36	0.60
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.65	0.60
1:CA:1179:A:H2'	1:CA:1180:A:O4'	2.01	0.60
4:CE:91:SER:HA	4:CE:128:GLY:O	2.00	0.60
10:CK:53:GLY:O	10:CK:56:LYS:HB3	2.02	0.60
23:DB:352:A:H3'	23:DB:353:C:C6	2.37	0.60
23:DB:598:U:H2'	23:DB:599:A:H8	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:906:U:H4'	34:DM:26:VAL:CG1	2.31	0.60
23:DB:2204:G:O5'	25:DC:149:LYS:HE3	2.01	0.60
30:DH:6:LEU:HD12	30:DH:36:ALA:H	1.67	0.60
30:DH:89:LYS:HA	30:DH:123:ARG:O	2.00	0.60
35:DN:102:PHE:CZ	35:DN:104:ALA:HB2	2.35	0.60
40:DS:31:GLN:O	40:DS:35:ILE:HG13	2.01	0.60
48:D1:8:ILE:HG21	48:D1:27:ARG:HD3	1.83	0.60
1:AA:1260:G:H4'	1:AA:1284:C:H5'	1.84	0.60
1:AA:1513:A:H2'	1:AA:1514:G:H8	1.65	0.60
3:AD:154:VAL:HG13	3:AD:155:LYS:H	1.67	0.60
9:AJ:25:ILE:HG23	9:AJ:29:ALA:HB3	1.83	0.60
9:AJ:38:GLY:O	9:AJ:74:VAL:HA	2.02	0.60
23:BB:45:G:C5'	23:BB:46:G:H5'	2.32	0.60
23:BB:198:C:C2'	23:BB:199:A:H5''	2.32	0.60
23:BB:417:C:H2'	23:BB:418:C:H6	1.65	0.60
23:BB:2138:G:H2'	23:BB:2139:U:C6	2.36	0.60
23:BB:2229:U:H2'	23:BB:2230:G:C8	2.37	0.60
25:BC:16:VAL:C	25:BC:17:LYS:HE2	2.22	0.60
30:BH:66:ASN:HA	30:BH:138:VAL:HG21	1.81	0.60
33:BL:61:LEU:CB	33:BL:62:PRO:CD	2.75	0.60
37:BP:62:LYS:HE2	37:BP:74:GLN:HE22	1.66	0.60
39:BR:97:LYS:O	39:BR:98:ILE:HB	2.01	0.60
45:BY:44:ARG:HG3	45:BY:45:GLY:N	2.15	0.60
47:B0:26:SER:HB2	47:B0:38:LEU:HD12	1.83	0.60
1:CA:429:U:H1'	1:CA:430:A:H5''	1.84	0.60
12:CM:2:ARG:HB3	12:CM:6:ILE:H	1.65	0.60
14:CO:25:GLU:HA	14:CO:80:LEU:HD11	1.82	0.60
15:CP:44:SER:HB3	15:CP:46:LYS:HZ2	1.64	0.60
23:DB:19:A:OP1	38:DQ:22:GLY:HA2	1.99	0.60
23:DB:283:G:H2'	23:DB:284:U:H6	1.66	0.60
23:DB:297:G:H5''	42:DU:92:VAL:HG11	1.83	0.60
23:DB:380:G:O2'	46:DZ:13:THR:HB	2.01	0.60
23:DB:1252:G:C2	38:DQ:32:ARG:HG3	2.36	0.60
23:DB:1429:G:H2'	23:DB:1430:G:H8	1.66	0.60
23:DB:1568:G:OP1	25:DC:61:TYR:HB2	2.00	0.60
23:DB:1902:C:H4'	25:DC:240:GLY:O	2.01	0.60
25:DC:245:THR:O	25:DC:247:TRP:N	2.35	0.60
28:DF:167:ALA:HA	28:DF:170:ALA:HB3	1.82	0.60
35:DN:108:ALA:HB1	35:DN:109:PRO:HD2	1.83	0.60
39:DR:60:LYS:O	39:DR:60:LYS:HD3	2.02	0.60
1:AA:93:U:H3'	1:AA:94:G:H5''	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1011:C:H2'	1:AA:1012:A:C8	2.37	0.60
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.36	0.60
6:AG:144:ALA:C	6:AG:146:ALA:H	2.04	0.60
12:AM:98:GLY:H	12:AM:99:GLN:NE2	1.99	0.60
23:BB:143:C:H2'	23:BB:144:A:N9	2.16	0.60
23:BB:764:A:OP2	25:BC:213:ARG:NH2	2.33	0.60
23:BB:1015:U:H2'	23:BB:1016:G:C8	2.37	0.60
23:BB:1040:A:H2	23:BB:1115:G:H22	1.47	0.60
23:BB:1192:G:O2'	23:BB:1193:G:H5'	2.01	0.60
23:BB:1790:C:P	25:BC:219:VAL:HB	2.42	0.60
26:BD:157:LYS:NZ	26:BD:158:GLY:HA3	2.15	0.60
28:BF:36:ASN:HD22	28:BF:87:LYS:H	1.48	0.60
34:BM:64:TRP:O	34:BM:102:LEU:HB2	2.00	0.60
34:BM:88:ASN:O	34:BM:89:VAL:HG12	2.00	0.60
37:BP:27:VAL:HG12	37:BP:47:ILE:HD11	1.82	0.60
38:BQ:94:LEU:HD13	38:BQ:94:LEU:H	1.66	0.60
46:BZ:25:ARG:HG3	46:BZ:26:SER:H	1.65	0.60
1:CA:390:U:H2'	1:CA:391:G:H8	1.66	0.60
1:CA:858:G:O6	1:CA:869:G:H3'	2.01	0.60
2:CC:18:ASN:O	2:CC:55:VAL:HA	2.01	0.60
20:CB:34:ARG:HG2	20:CB:39:ILE:HD11	1.84	0.60
20:CB:112:ARG:O	20:CB:116:LEU:HB2	2.02	0.60
23:DB:833:A:H2'	23:DB:834:G:C8	2.36	0.60
23:DB:1007:C:H5''	31:DJ:37:ARG:HH12	1.66	0.60
23:DB:1203:U:H3'	23:DB:1204:A:C5'	2.31	0.60
23:DB:1485:U:H2'	23:DB:1486:U:H6	1.66	0.60
28:DF:35:LEU:HD23	28:DF:153:ILE:HG12	1.83	0.60
30:DH:26:ALA:HB3	30:DH:31:VAL:HG23	1.83	0.60
30:DH:108:VAL:HG12	30:DH:110:VAL:HB	1.82	0.60
31:DJ:74:TYR:O	31:DJ:75:TYR:HB2	2.00	0.60
31:DJ:120:ARG:HB3	31:DJ:121:LYS:HZ1	1.66	0.60
32:DK:33:ALA:HB2	32:DK:39:ILE:HD11	1.84	0.60
35:DN:26:GLY:HA2	35:DN:75:ILE:HD13	1.83	0.60
43:DW:42:THR:H	43:DW:65:LYS:HG2	1.66	0.60
50:D3:46:LYS:HD2	50:D3:47:ALA:H	1.66	0.60
51:D4:16:ILE:O	51:D4:17:VAL:HG12	2.02	0.60
1:AA:95:C:O2	1:AA:95:C:H2'	2.02	0.60
1:AA:801:U:H2'	1:AA:802:A:H8	1.66	0.60
4:AE:110:MET:HB3	4:AE:139:THR:HG21	1.82	0.60
6:AG:59:GLU:O	6:AG:63:VAL:HG23	2.02	0.60
13:AN:60:ARG:HD3	13:AN:60:ARG:N	2.11	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:11:VAL:HG23	14:AO:26:VAL:HG11	1.82	0.60
22:BA:50:A:H5''	36:BO:68:LYS:HD2	1.82	0.60
23:BB:37:C:C2	27:BE:46:GLN:CD	2.75	0.60
23:BB:558:U:OP1	31:BJ:113:PRO:HG2	2.01	0.60
23:BB:664:G:H2'	23:BB:665:U:H6	1.65	0.60
23:BB:1203:U:H3'	23:BB:1204:A:C5'	2.30	0.60
23:BB:1319:C:O2'	23:BB:1320:C:H5'	2.01	0.60
23:BB:1486:U:H2'	23:BB:1487:U:H6	1.66	0.60
23:BB:1779:U:H5	23:BB:1784:A:N7	2.00	0.60
23:BB:1857:G:H1'	23:BB:1885:A:N6	2.17	0.60
23:BB:2228:G:H2'	23:BB:2229:U:H6	1.66	0.60
23:BB:2305:U:N3	28:BF:150:GLY:HA3	2.17	0.60
23:BB:2688:G:H1'	23:BB:2721:A:N6	2.17	0.60
23:BB:2774:C:H2'	23:BB:2775:G:O4'	2.02	0.60
25:BC:37:SER:H	25:BC:62:ARG:HB2	1.66	0.60
26:BD:34:VAL:HG23	26:BD:93:GLY:HA3	1.84	0.60
36:BO:35:ILE:N	36:BO:35:ILE:HD13	2.17	0.60
39:BR:69:GLY:O	39:BR:70:GLU:HG3	2.02	0.60
42:BU:5:ARG:HG2	42:BU:6:ARG:H	1.67	0.60
51:B4:7:VAL:O	51:B4:23:ILE:HG21	2.01	0.60
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.67	0.60
15:CP:23:ASP:OD1	15:CP:25:ARG:HB2	2.02	0.60
23:DB:1439:A:C6	23:DB:1552:A:N7	2.70	0.60
23:DB:2600:A:O2'	23:DB:2601:C:H5'	2.02	0.60
25:DC:127:ASN:ND2	25:DC:128:THR:H	1.93	0.60
30:DH:90:LEU:HD22	30:DH:122:LEU:HB3	1.83	0.60
37:DP:28:LYS:HD3	37:DP:44:GLY:H	1.67	0.60
37:DP:52:ARG:HH11	37:DP:52:ARG:CG	2.15	0.60
42:DU:13:LEU:HD21	42:DU:69:VAL:HG13	1.82	0.60
45:DY:50:VAL:HG12	45:DY:53:MET:HG2	1.83	0.60
52:DI:71:LYS:HB3	52:DI:115:ASP:OD2	2.00	0.60
1:AA:590:U:H2'	1:AA:591:U:H6	1.66	0.60
1:AA:720:C:H5''	17:AR:40:PRO:HA	1.84	0.60
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.37	0.60
4:AE:155:LYS:HA	7:AH:65:PHE:CD1	2.36	0.60
6:AG:117:LEU:HD22	6:AG:120:ALA:HB3	1.83	0.60
7:AH:46:GLU:HA	7:AH:63:LYS:HZ3	1.66	0.60
9:AJ:15:HIS:HD2	9:AJ:18:ILE:HG22	1.65	0.60
11:AL:78:VAL:HG12	11:AL:101:LEU:HD23	1.82	0.60
13:AN:63:CYS:SG	13:AN:66:THR:HG22	2.41	0.60
23:BB:26:G:H1'	23:BB:515:A:N6	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:222:A:N6	23:BB:232:G:H1'	2.17	0.60
23:BB:364:C:H2'	23:BB:365:U:C6	2.36	0.60
23:BB:417:C:H2'	23:BB:418:C:C6	2.37	0.60
23:BB:1054:A:H2'	23:BB:1055:G:H8	1.65	0.60
23:BB:1080:A:H2'	23:BB:1081:U:H6	1.67	0.60
23:BB:2848:G:C4	37:BP:96:LEU:HD23	2.37	0.60
30:BH:121:VAL:HG21	30:BH:128:HIS:NE2	2.16	0.60
38:BQ:101:ASP:HB3	38:BQ:104:ALA:HB3	1.84	0.60
39:BR:20:VAL:HG13	39:BR:97:LYS:NZ	2.16	0.60
50:B3:44:ARG:HB3	50:B3:45:PRO:HD2	1.84	0.60
52:BI:11:GLN:O	52:BI:11:GLN:HG3	2.00	0.60
1:CA:1108:G:H5''	2:CC:175:HIS:ND1	2.16	0.60
9:CJ:41:PRO:HA	9:CJ:72:ARG:HD3	1.83	0.60
15:CP:20:VAL:HG21	15:CP:32:PHE:CD2	2.37	0.60
15:CP:20:VAL:HG23	15:CP:34:GLU:O	2.02	0.60
18:CS:29:PRO:HB3	18:CS:47:THR:HB	1.83	0.60
22:DA:50:A:OP1	36:DO:68:LYS:HB2	2.02	0.60
23:DB:189:G:H2'	23:DB:205:G:N2	2.17	0.60
23:DB:448:U:H5''	27:DE:79:ARG:HH21	1.65	0.60
23:DB:594:U:H2'	23:DB:595:C:H6	1.66	0.60
23:DB:849:A:H2'	23:DB:850:U:C6	2.35	0.60
23:DB:898:C:O2'	23:DB:899:A:H5''	2.01	0.60
23:DB:1098:A:N3	52:DI:3:LYS:O	2.35	0.60
23:DB:1548:A:H2'	23:DB:1549:A:C8	2.37	0.60
23:DB:2741:A:H2'	23:DB:2742:G:O4'	2.02	0.60
23:DB:2774:C:H2'	23:DB:2775:G:O4'	2.01	0.60
23:DB:2886:A:C8	47:D0:27:LEU:HG	2.37	0.60
27:DE:6:LYS:HZ2	27:DE:8:ALA:HB2	1.66	0.60
28:DF:21:TYR:HB3	28:DF:26:GLN:OE1	2.01	0.60
28:DF:67:THR:OG1	28:DF:85:GLY:HA3	2.02	0.60
28:DF:173:ASP:CG	28:DF:174:PHE:H	2.05	0.60
31:DJ:100:VAL:HG22	31:DJ:101:ILE:H	1.67	0.60
32:DK:43:ILE:H	32:DK:43:ILE:HD12	1.67	0.60
36:DO:86:GLY:O	36:DO:87:ILE:HD13	2.01	0.60
2:AC:59:PRO:HG2	2:AC:60:ALA:H	1.65	0.60
8:AI:15:ALA:O	8:AI:66:VAL:HG23	2.01	0.60
10:AK:69:CYS:O	10:AK:73:VAL:HG23	2.00	0.60
18:AS:7:GLY:H	18:AS:8:PRO:HD3	1.67	0.60
23:BB:2386:A:H4'	43:BW:38:ARG:HB2	1.84	0.60
23:BB:2461:A:H2'	23:BB:2462:C:C6	2.36	0.60
23:BB:2804:U:H2'	23:BB:2805:C:H6	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:198:GLU:HA	25:BC:201:LEU:HB2	1.83	0.60
26:BD:154:LYS:HZ3	26:BD:157:LYS:N	1.99	0.60
28:BF:59:ILE:HD11	28:BF:137:PHE:CD2	2.37	0.60
31:BJ:16:TYR:O	31:BJ:55:ILE:HG22	2.01	0.60
1:CA:203:G:H1'	1:CA:465:A:N6	2.17	0.60
1:CA:1462:C:H4'	37:DP:110:LYS:HE2	1.84	0.60
16:CQ:60:ILE:HA	16:CQ:75:VAL:HG13	1.84	0.60
23:DB:179:C:H2'	23:DB:180:G:O4'	2.01	0.60
23:DB:337:C:H2'	23:DB:338:G:O4'	2.01	0.60
23:DB:1176:U:H2'	23:DB:1177:G:C8	2.36	0.60
23:DB:1454:C:H5'	35:DN:63:ARG:HD2	1.82	0.60
23:DB:1997:C:P	26:DD:140:HIS:HE2	2.25	0.60
23:DB:2156:G:H2'	23:DB:2157:G:H4'	1.84	0.60
23:DB:2281:A:H62	43:DW:3:LYS:HD2	1.66	0.60
27:DE:139:LYS:HA	27:DE:143:LEU:CD2	2.32	0.60
28:DF:40:GLY:H	28:DF:84:ILE:CG2	2.15	0.60
32:DK:47:ILE:HG22	32:DK:48:PRO:HD2	1.83	0.60
33:DL:89:VAL:HA	33:DL:122:VAL:HG22	1.84	0.60
33:DL:132:ARG:NH2	33:DL:140:GLY:HA3	2.17	0.60
34:DM:131:VAL:HG22	34:DM:132:THR:H	1.66	0.60
35:DN:66:ALA:O	35:DN:70:THR:HG22	2.01	0.60
35:DN:96:ARG:O	35:DN:113:ILE:HA	2.02	0.60
39:DR:89:HIS:O	39:DR:90:ARG:HG3	2.02	0.60
44:DX:7:ARG:HB3	44:DX:7:ARG:NH1	2.16	0.60
44:DX:50:VAL:O	44:DX:54:LYS:HB2	2.02	0.60
45:DY:18:LYS:O	45:DY:22:THR:HG23	2.02	0.60
47:D0:41:HIS:NE2	47:D0:42:ILE:HG22	2.17	0.60
52:DI:7:TYR:CZ	52:DI:57:VAL:HG11	2.36	0.60
1:AA:57:G:H2'	1:AA:58:C:C6	2.37	0.60
1:AA:1026:G:H2'	1:AA:1027:C:H6	1.67	0.60
11:AL:35:ARG:HA	11:AL:35:ARG:HE	1.67	0.60
14:AO:60:SER:HA	14:AO:63:ARG:NH1	2.17	0.60
23:BB:126:A:O5'	49:B2:19:ARG:HB3	2.02	0.60
23:BB:315:G:H2'	23:BB:316:C:C6	2.37	0.60
23:BB:419:U:H2'	23:BB:420:C:H6	1.66	0.60
23:BB:855:G:H21	43:BW:23:LYS:CB	2.15	0.60
23:BB:956:G:H5''	34:BM:76:LYS:HD3	1.83	0.60
23:BB:2769:U:H2'	23:BB:2770:G:C8	2.37	0.60
24:BV:40:ILE:HD13	24:BV:40:ILE:H	1.66	0.60
25:BC:226:PRO:HD3	25:BC:233:GLY:N	2.17	0.60
27:BE:48:THR:CG2	27:BE:86:ALA:HB1	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:17:VAL:CG1	31:BJ:57:LEU:HD21	2.32	0.60
35:BN:28:LEU:HD12	35:BN:28:LEU:H	1.67	0.60
38:BQ:85:ALA:HB1	38:BQ:88:GLU:HB2	1.83	0.60
44:BX:49:ASP:HB3	44:BX:52:ARG:NH2	2.15	0.60
45:BY:9:THR:CB	45:BY:54:VAL:HA	2.26	0.60
1:CA:83:C:O2'	1:CA:84:U:H2'	2.02	0.60
1:CA:398:U:H2'	1:CA:399:G:H8	1.66	0.60
1:CA:539:A:H2'	1:CA:540:G:C8	2.37	0.60
8:CI:40:ARG:HA	8:CI:44:ARG:NH1	2.17	0.60
23:DB:139:U:H3'	23:DB:139:U:OP2	2.02	0.60
23:DB:324:A:H2'	23:DB:325:G:O4'	2.02	0.60
23:DB:1327:A:H2'	23:DB:1328:A:O4'	2.02	0.60
23:DB:2336:A:H1'	23:DB:2337:G:OP1	2.00	0.60
36:DO:53:THR:O	36:DO:54:VAL:CB	2.47	0.60
37:DP:4:ILE:HG22	37:DP:4:ILE:O	2.01	0.60
37:DP:36:LYS:HG2	37:DP:37:LYS:N	2.14	0.60
41:DT:55:VAL:HG23	41:DT:87:LEU:N	2.17	0.60
50:D3:4:LYS:HE3	50:D3:61:LEU:H	1.65	0.60
1:AA:1278:G:H4'	1:AA:1279:G:O5'	2.01	0.59
3:AD:20:LEU:O	3:AD:21:LYS:HE3	2.02	0.59
3:AD:90:LEU:HA	3:AD:93:LEU:HD12	1.83	0.59
12:AM:89:ARG:HB2	12:AM:96:VAL:HG12	1.84	0.59
13:AN:20:PHE:HA	13:AN:24:ALA:HB2	1.83	0.59
23:BB:1060:U:OP2	52:BI:74:PRO:HA	2.01	0.59
23:BB:2301:C:H2'	23:BB:2302:U:H6	1.65	0.59
23:BB:2512:C:C4'	26:BD:146:ILE:HG12	2.31	0.59
23:BB:2723:C:H5''	35:BN:3:HIS:CB	2.32	0.59
25:BC:68:ARG:HD2	25:BC:127:ASN:HD21	1.67	0.59
25:BC:220:ARG:HH11	25:BC:220:ARG:HG3	1.67	0.59
26:BD:88:GLU:CG	26:BD:89:GLU:H	2.14	0.59
37:BP:76:HIS:CD2	37:BP:76:HIS:H	2.18	0.59
43:BW:40:ARG:NH1	43:BW:40:ARG:N	2.50	0.59
50:B3:12:ARG:HB2	50:B3:12:ARG:HH11	1.64	0.59
50:B3:26:ALA:HB1	50:B3:29:ARG:CG	2.32	0.59
1:CA:33:A:H1'	11:CL:27:PRO:HG3	1.84	0.59
1:CA:1008:U:H5''	13:CN:23:ARG:NH2	2.17	0.59
1:CA:1009:U:H2'	1:CA:1010:U:C6	2.37	0.59
2:CC:23:ALA:HB1	2:CC:27:GLU:HB2	1.83	0.59
4:CE:131:ASN:O	4:CE:135:VAL:HG23	2.02	0.59
14:CO:29:ALA:HA	14:CO:84:LEU:HD21	1.82	0.59
23:DB:659:G:H21	27:DE:30:GLN:NE2	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:672:C:O2'	23:DB:673:C:H5'	2.02	0.59
23:DB:1082:U:O4	23:DB:1086:A:C2	2.54	0.59
23:DB:1824:G:O2'	25:DC:244:VAL:HG21	2.02	0.59
23:DB:1874:C:H2'	23:DB:1875:G:O4'	2.01	0.59
23:DB:1951:U:H2'	23:DB:1953:A:OP2	2.01	0.59
23:DB:2032:G:N2	26:DD:150:GLN:HB3	2.17	0.59
23:DB:2292:U:H2'	23:DB:2293:G:H8	1.67	0.59
23:DB:2307:G:H2'	23:DB:2307:G:N3	2.17	0.59
26:DD:150:GLN:O	26:DD:152:PRO:HD3	2.02	0.59
36:DO:25:ARG:CG	36:DO:94:ARG:HH22	2.15	0.59
39:DR:4:VAL:HG12	39:DR:43:ASN:CB	2.32	0.59
45:DY:45:GLY:HA2	45:DY:48:ASN:ND2	2.17	0.59
1:AA:376:G:H5''	15:AP:5:ARG:CB	2.28	0.59
1:AA:783:C:O2'	1:AA:784:A:H5'	2.02	0.59
1:AA:858:G:O6	1:AA:869:G:H3'	2.01	0.59
1:AA:1257:A:H2'	1:AA:1257:A:N3	2.16	0.59
1:AA:1284:C:H3'	1:AA:1285:A:H5''	1.84	0.59
1:AA:1300:G:H1'	1:AA:1301:U:C5	2.36	0.59
2:AC:5:HIS:CD2	13:AN:88:MET:HB3	2.37	0.59
3:AD:11:SER:OG	3:AD:17:ASP:HA	2.02	0.59
3:AD:94:GLU:HG3	3:AD:103:ARG:NH1	2.16	0.59
22:BA:27:C:H5'	36:BO:34:HIS:CE1	2.37	0.59
23:BB:364:C:H2'	23:BB:365:U:H6	1.67	0.59
23:BB:671:C:N4	33:BL:39:LYS:HG2	2.18	0.59
23:BB:721:A:H2'	23:BB:722:A:C8	2.37	0.59
23:BB:1082:U:C4	23:BB:1086:A:C2	2.90	0.59
23:BB:1381:G:H2'	23:BB:1382:G:H5'	1.84	0.59
23:BB:2053:G:OP1	26:BD:150:GLN:CA	2.50	0.59
23:BB:2579:C:O2'	26:BD:138:LEU:HD13	2.01	0.59
23:BB:2600:A:O2'	23:BB:2601:C:H5'	2.01	0.59
25:BC:172:THR:O	25:BC:173:LEU:HB2	2.01	0.59
27:BE:91:ASP:O	27:BE:92:HIS:HB2	2.01	0.59
28:BF:135:ILE:C	28:BF:137:PHE:H	2.05	0.59
29:BG:42:VAL:HG12	29:BG:51:PHE:HD1	1.68	0.59
30:BH:37:VAL:N	30:BH:38:PRO:HD2	2.13	0.59
31:BJ:81:ILE:HG23	31:BJ:82:GLY:H	1.67	0.59
33:BL:109:LYS:HA	33:BL:126:ARG:HB2	1.82	0.59
34:BM:66:ARG:H	34:BM:100:LYS:HB2	1.67	0.59
1:CA:37:U:OP1	11:CL:120:ARG:HB3	2.02	0.59
1:CA:801:U:H2'	1:CA:802:A:H8	1.66	0.59
1:CA:937:A:H1'	1:CA:1379:G:N2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:123:ARG:HD3	8:CI:124:PRO:HD2	1.84	0.59
10:CK:127:ARG:HH11	10:CK:127:ARG:HG3	1.66	0.59
23:DB:171:U:H2'	23:DB:172:A:C8	2.37	0.59
23:DB:455:C:H42	23:DB:472:A:H2'	1.67	0.59
23:DB:541:A:H2'	23:DB:542:C:H5''	1.84	0.59
23:DB:1229:C:H2'	23:DB:1230:A:H8	1.66	0.59
23:DB:1676:A:H2'	23:DB:1677:A:O4'	2.01	0.59
23:DB:2898:U:H2'	23:DB:2899:A:H8	1.66	0.59
26:DD:116:LYS:CB	26:DD:165:MET:HG3	2.31	0.59
28:DF:173:ASP:CG	28:DF:174:PHE:N	2.55	0.59
31:DJ:105:VAL:HG11	31:DJ:122:LEU:HD11	1.83	0.59
33:DL:58:TYR:CE1	50:D3:51:LYS:HG2	2.36	0.59
33:DL:120:VAL:HG12	33:DL:122:VAL:HG23	1.82	0.59
35:DN:97:ILE:HG23	35:DN:113:ILE:HD11	1.84	0.59
37:DP:54:LEU:HD13	37:DP:55:HIS:H	1.67	0.59
37:DP:59:THR:HG23	37:DP:76:HIS:NE2	2.16	0.59
40:DS:46:LEU:O	40:DS:50:VAL:HG22	2.01	0.59
43:DW:56:HIS:CD2	43:DW:57:THR:H	2.20	0.59
1:AA:107:G:O6	19:AT:9:ARG:HD3	2.03	0.59
1:AA:1074:G:H2'	1:AA:1075:U:H6	1.67	0.59
23:BB:19:A:H5''	38:BQ:20:ALA:O	2.02	0.59
23:BB:459:U:H5'	49:B2:41:ARG:HE	1.67	0.59
23:BB:1709:U:H2'	23:BB:1710:G:H8	1.66	0.59
23:BB:2669:G:H2'	23:BB:2670:A:H8	1.65	0.59
24:BV:46:LYS:O	24:BV:50:MET:HG3	2.02	0.59
27:BE:43:THR:O	27:BE:89:PRO:HA	2.02	0.59
27:BE:170:ARG:HH21	27:BE:175:ILE:HD12	1.66	0.59
27:BE:180:LEU:HA	27:BE:186:VAL:HG21	1.84	0.59
28:BF:177:ARG:HG2	28:BF:178:LYS:H	1.67	0.59
29:BG:124:CYS:HB3	29:BG:129:GLU:O	2.01	0.59
30:BH:83:LYS:CB	30:BH:91:PHE:HB2	2.31	0.59
31:BJ:64:VAL:HG11	31:BJ:68:LYS:HD2	1.84	0.59
32:BK:97:THR:OG1	32:BK:98:ARG:HD2	2.02	0.59
33:BL:77:ILE:HG13	33:BL:108:ALA:HB1	1.83	0.59
35:BN:4:ARG:HG3	35:BN:5:LYS:N	2.16	0.59
46:BZ:44:PHE:HD1	46:BZ:44:PHE:H	1.50	0.59
50:B3:48:MET:SD	50:B3:51:LYS:HG2	2.42	0.59
1:CA:1041:G:H2'	1:CA:1042:A:H8	1.67	0.59
1:CA:1191:A:OP1	2:CC:2:GLN:HB2	2.02	0.59
2:CC:127:VAL:HG23	2:CC:128:MET:H	1.66	0.59
12:CM:78:ARG:HH11	12:CM:79:LEU:HD23	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CQ:68:LYS:HG2	16:CQ:69:THR:HG23	1.85	0.59
22:DA:75:G:H5'	24:DV:12:GLN:OE1	2.02	0.59
23:DB:6:A:H4'	31:DJ:133:ALA:O	2.02	0.59
23:DB:30:G:H2'	23:DB:31:C:C6	2.36	0.59
23:DB:2639:A:H2'	23:DB:2640:G:O4'	2.02	0.59
26:DD:49:GLN:O	26:DD:49:GLN:HG2	2.02	0.59
28:DF:35:LEU:HD11	28:DF:60:SER:HB3	1.83	0.59
33:DL:62:PRO:HA	50:D3:12:ARG:NH1	2.17	0.59
35:DN:45:ARG:NH2	35:DN:113:ILE:HG23	2.04	0.59
37:DP:64:SER:HB2	37:DP:71:ARG:CD	2.30	0.59
40:DS:23:LEU:HB2	47:D0:21:LEU:HD13	1.83	0.59
46:DZ:54:GLY:N	46:DZ:57:VAL:HG23	2.14	0.59
1:AA:763:G:H2'	1:AA:764:C:C6	2.36	0.59
1:AA:1281:C:H5'	1:AA:1282:C:H5	1.66	0.59
2:AC:30:ASP:O	2:AC:33:ASP:HB3	2.01	0.59
2:AC:183:TYR:HA	2:AC:199:VAL:O	2.03	0.59
19:AT:67:HIS:O	19:AT:70:LYS:HG2	2.02	0.59
23:BB:196:A:H2'	23:BB:196:A:N3	2.16	0.59
23:BB:594:U:H2'	23:BB:595:C:H6	1.66	0.59
23:BB:1820:U:O2	25:BC:200:MET:HB2	2.02	0.59
23:BB:2428:G:HO2'	33:BL:58:TYR:HE2	1.49	0.59
32:BK:60:ALA:HA	32:BK:87:LEU:HG	1.83	0.59
34:BM:35:ALA:HB3	34:BM:97:GLN:C	2.23	0.59
38:BQ:102:LYS:HD2	38:BQ:102:LYS:N	2.17	0.59
41:BT:24:MET:HE2	41:BT:29:THR:H	1.67	0.59
42:BU:81:ARG:N	42:BU:81:ARG:HD2	2.16	0.59
43:BW:66:VAL:HG13	43:BW:67:LYS:N	2.16	0.59
2:CC:41:TYR:O	2:CC:45:GLU:HB2	2.03	0.59
2:CC:89:VAL:O	2:CC:93:ILE:HD12	2.03	0.59
5:CF:18:VAL:HG21	5:CF:58:HIS:CE1	2.37	0.59
7:CH:101:ALA:O	7:CH:103:VAL:HG23	2.01	0.59
10:CK:31:VAL:HG21	10:CK:66:ALA:HA	1.84	0.59
12:CM:102:LYS:HB2	12:CM:102:LYS:HZ2	1.66	0.59
22:DA:57:A:H4'	28:DF:26:GLN:HE21	1.67	0.59
23:DB:224:U:O4	23:DB:420:C:H5'	2.02	0.59
23:DB:580:U:H2'	23:DB:581:C:C6	2.36	0.59
23:DB:1469:A:H2'	23:DB:1470:A:H8	1.67	0.59
23:DB:1550:C:H2'	23:DB:1551:A:H8	1.66	0.59
23:DB:2037:A:H2'	23:DB:2038:G:H8	1.68	0.59
23:DB:2091:C:H1'	46:DZ:32:LEU:HG	1.83	0.59
23:DB:2286:G:C8	23:DB:2286:G:H5'	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2391:G:OP2	50:D3:32:LEU:HG	2.03	0.59
25:DC:33:LEU:HD22	25:DC:34:GLU:HG3	1.83	0.59
25:DC:34:GLU:OE2	25:DC:35:LYS:HG3	2.03	0.59
26:DD:35:THR:HB	26:DD:48:ILE:HG13	1.84	0.59
26:DD:117:GLY:HA3	35:DN:1:MET:HA	1.82	0.59
27:DE:115:GLN:NE2	27:DE:184:ASP:HB2	2.17	0.59
31:DJ:41:LYS:CD	31:DJ:44:TYR:HB3	2.31	0.59
39:DR:63:VAL:HG13	39:DR:64:VAL:N	2.17	0.59
40:DS:23:LEU:C	40:DS:24:ILE:HD13	2.23	0.59
40:DS:81:SER:HB2	40:DS:99:ARG:H	1.68	0.59
42:DU:17:ASP:OD2	42:DU:20:LYS:HB2	2.01	0.59
42:DU:41:VAL:HA	42:DU:57:ILE:HD12	1.84	0.59
52:DI:100:ILE:O	52:DI:139:VAL:HA	2.01	0.59
1:AA:118:U:O4	1:AA:288:A:H2'	2.02	0.59
1:AA:241:G:O2'	1:AA:242:G:H5'	2.03	0.59
1:AA:451:A:H4'	1:AA:452:A:O4'	2.02	0.59
3:AD:94:GLU:HA	3:AD:103:ARG:HH22	1.67	0.59
8:AI:18:VAL:HG11	8:AI:82:ILE:HG12	1.83	0.59
14:AO:78:THR:HA	14:AO:81:ILE:HG12	1.85	0.59
23:BB:811:U:H2'	33:BL:31:GLY:CA	2.33	0.59
23:BB:967:U:H2'	23:BB:968:C:C6	2.37	0.59
23:BB:1826:G:OP2	25:BC:221:GLY:HA2	2.01	0.59
23:BB:2547:A:H2'	23:BB:2548:U:C6	2.37	0.59
23:BB:2813:A:H2'	23:BB:2814:A:H8	1.67	0.59
26:BD:62:LYS:H	26:BD:62:LYS:HE3	1.68	0.59
27:BE:109:LEU:HD23	27:BE:110:SER:N	2.18	0.59
27:BE:198:GLU:C	27:BE:200:LEU:H	2.05	0.59
31:BJ:17:VAL:HG23	31:BJ:139:VAL:HB	1.83	0.59
32:BK:11:ALA:HB3	32:BK:85:VAL:CG2	2.32	0.59
33:BL:47:ARG:HD2	33:BL:48:ARG:N	2.17	0.59
1:CA:370:C:H2'	1:CA:371:A:H8	1.66	0.59
1:CA:678:U:H2'	1:CA:679:C:H6	1.66	0.59
3:CD:160:LEU:HD22	3:CD:160:LEU:O	2.02	0.59
20:CB:99:MET:HA	20:CB:106:VAL:HG21	1.83	0.59
23:DB:155:A:H2'	23:DB:156:A:H8	1.68	0.59
23:DB:172:A:H2'	23:DB:173:A:C8	2.38	0.59
23:DB:1019:U:O2'	23:DB:1020:A:H5'	2.02	0.59
23:DB:1262:A:C2	47:D0:6:LYS:HD2	2.38	0.59
23:DB:1381:G:H2'	23:DB:1382:G:H5'	1.82	0.59
23:DB:1470:A:H3'	23:DB:1471:G:H8	1.65	0.59
23:DB:2230:G:H2'	23:DB:2231:U:C6	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2415:G:H2'	23:DB:2416:C:C6	2.37	0.59
23:DB:2547:A:H2'	23:DB:2548:U:C6	2.38	0.59
23:DB:2669:G:H2'	23:DB:2670:A:H8	1.67	0.59
25:DC:21:PRO:HD2	25:DC:202:ARG:HH11	1.68	0.59
25:DC:224:MET:CA	25:DC:233:GLY:H	2.15	0.59
26:DD:8:LYS:O	26:DD:9:VAL:HG22	2.03	0.59
26:DD:48:ILE:HG22	26:DD:49:GLN:N	2.18	0.59
26:DD:150:GLN:O	26:DD:150:GLN:HG3	2.03	0.59
27:DE:135:ALA:O	27:DE:139:LYS:HB3	2.03	0.59
28:DF:132:ARG:HH12	28:DF:147:ARG:HD3	1.66	0.59
29:DG:125:PRO:HG2	29:DG:129:GLU:HB3	1.83	0.59
32:DK:11:ALA:HB1	32:DK:100:PHE:O	2.02	0.59
37:DP:47:ILE:HG23	37:DP:63:ILE:CG2	2.30	0.59
37:DP:49:ILE:C	37:DP:50:ARG:HD3	2.22	0.59
41:DT:21:SER:H	41:DT:24:MET:CE	2.15	0.59
52:DI:45:THR:HA	52:DI:48:ILE:CG2	2.30	0.59
1:AA:398:U:H2'	1:AA:399:G:H8	1.66	0.59
20:AB:37:VAL:HG22	20:AB:38:HIS:N	2.17	0.59
23:BB:458:G:N2	23:BB:469:G:H2'	2.17	0.59
23:BB:1187:G:H5''	39:BR:84:ARG:NE	2.18	0.59
23:BB:1387:A:H5'	23:BB:1469:A:H1'	1.84	0.59
23:BB:1552:A:H2'	23:BB:1553:A:H5'	1.84	0.59
23:BB:2236:U:H2'	23:BB:2237:G:O4'	2.02	0.59
23:BB:2741:A:H2'	23:BB:2742:G:O4'	2.02	0.59
26:BD:17:GLU:CB	37:BP:80:VAL:HG21	2.32	0.59
26:BD:101:PHE:O	26:BD:102:ALA:CB	2.51	0.59
27:BE:3:LEU:O	27:BE:4:VAL:HG12	2.02	0.59
27:BE:156:ASN:ND2	27:BE:157:LEU:HG	2.17	0.59
41:BT:8:LEU:HA	44:BX:19:LEU:HD21	1.84	0.59
41:BT:30:ILE:O	41:BT:84:TYR:HA	2.02	0.59
46:BZ:66:ILE:HB	46:BZ:67:PRO:HD3	1.85	0.59
1:CA:783:C:O2'	1:CA:784:A:H5'	2.02	0.59
1:CA:1144:G:N2	1:CA:1146:A:H62	2.01	0.59
1:CA:1292:G:H2'	1:CA:1293:C:H6	1.67	0.59
6:CG:77:ARG:HD3	6:CG:79:VAL:HG23	1.83	0.59
8:CI:29:ILE:HB	8:CI:64:ILE:HD12	1.84	0.59
9:CJ:84:VAL:HB	9:CJ:89:ARG:HH21	1.68	0.59
20:CB:169:HIS:CE1	20:CB:173:LYS:HB2	2.38	0.59
23:DB:553:G:C2'	23:DB:554:U:H5'	2.32	0.59
23:DB:588:U:H5'	33:DL:29:LYS:NZ	2.17	0.59
23:DB:660:C:H2'	23:DB:661:A:C8	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:782:A:O2'	25:DC:223:ALA:HB1	2.02	0.59
23:DB:1690:A:H2'	23:DB:1691:C:O4'	2.03	0.59
23:DB:2256:G:O2'	43:DW:5:ALA:HB1	2.03	0.59
23:DB:2852:G:H2'	23:DB:2853:C:C6	2.38	0.59
25:DC:137:GLY:C	25:DC:139:THR:N	2.55	0.59
26:DD:46:ARG:HA	26:DD:82:PHE:HA	1.84	0.59
31:DJ:13:ARG:HG2	31:DJ:53:TYR:HE1	1.67	0.59
32:DK:24:VAL:HA	32:DK:39:ILE:CD1	2.32	0.59
46:DZ:65:ASN:ND2	46:DZ:65:ASN:H	1.99	0.59
47:D0:52:LYS:O	47:D0:53:VAL:HG12	2.03	0.59
1:AA:926:G:N2	1:AA:1505:G:H2'	2.18	0.59
1:AA:1163:A:H2'	1:AA:1164:G:H8	1.68	0.59
23:BB:450:G:H4'	27:BE:47:LYS:NZ	2.18	0.59
23:BB:1437:C:H2'	23:BB:1438:U:H6	1.67	0.59
23:BB:2296:U:H4'	23:BB:2297:A:OP1	2.02	0.59
23:BB:2619:C:H1'	26:BD:155:VAL:HG11	1.85	0.59
23:BB:2845:U:H4'	37:BP:54:LEU:HD21	1.85	0.59
23:BB:2898:U:H2'	23:BB:2899:A:H8	1.68	0.59
25:BC:171:VAL:HG12	25:BC:183:VAL:C	2.22	0.59
28:BF:108:PRO:HA	28:BF:113:PHE:CD1	2.38	0.59
29:BG:148:ARG:NH2	29:BG:153:PRO:HD2	2.18	0.59
33:BL:117:THR:HB	33:BL:119:PRO:O	2.02	0.59
35:BN:82:GLU:O	35:BN:86:ARG:HG3	2.02	0.59
36:BO:48:LEU:HD23	36:BO:49:VAL:N	2.16	0.59
42:BU:23:LYS:O	42:BU:25:LYS:HG3	2.03	0.59
43:BW:40:ARG:NH1	43:BW:40:ARG:H	2.01	0.59
44:BX:36:GLN:NE2	44:BX:38:GLN:HE22	1.93	0.59
49:B2:17:GLY:HA2	49:B2:21:ARG:NH1	2.17	0.59
1:CA:77:A:H2'	1:CA:78:A:C8	2.37	0.59
1:CA:977:A:H3'	1:CA:1362:A:H62	1.68	0.59
6:CG:90:VAL:HG12	6:CG:91:ARG:N	2.18	0.59
8:CI:62:LEU:HD22	8:CI:62:LEU:H	1.67	0.59
10:CK:66:ALA:O	10:CK:69:CYS:HB2	2.03	0.59
10:CK:70:ALA:C	10:CK:72:ALA:H	2.06	0.59
20:CB:63:LYS:HG3	20:CB:224:ARG:HD3	1.85	0.59
23:DB:141:G:H5'	23:DB:142:A:OP2	2.02	0.59
23:DB:358:U:H2'	23:DB:359:G:C8	2.37	0.59
23:DB:374:A:H61	23:DB:400:G:H1'	1.66	0.59
25:DC:79:ARG:HD2	25:DC:110:LYS:HE2	1.84	0.59
26:DD:204:LYS:HE2	26:DD:204:LYS:HA	1.85	0.59
32:DK:24:VAL:HA	32:DK:39:ILE:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DM:73:ILE:HG21	34:DM:90:GLU:OE2	2.03	0.59
43:DW:67:LYS:HD2	43:DW:70:VAL:N	2.17	0.59
48:D1:16:THR:CG2	48:D1:47:ILE:HD12	2.33	0.59
52:DI:23:VAL:HG12	52:DI:27:LEU:HD21	1.83	0.59
1:AA:436:C:O2'	1:AA:437:U:H5'	2.03	0.59
2:AC:184:ASN:HD22	2:AC:185:THR:N	1.98	0.59
3:AD:118:SER:HA	3:AD:130:ASN:HB2	1.85	0.59
12:AM:48:SER:O	12:AM:52:ILE:HG22	2.03	0.59
15:AP:1:MET:N	15:AP:24:SER:HB3	2.18	0.59
16:AQ:10:ARG:HA	16:AQ:10:ARG:NE	2.18	0.59
17:AR:52:ARG:HH11	17:AR:52:ARG:CB	2.15	0.59
20:AB:166:ASP:OD1	20:AB:190:SER:HA	2.02	0.59
23:BB:704:G:H1'	23:BB:727:A:H61	1.67	0.59
23:BB:1131:G:H1'	23:BB:1133:A:N6	2.14	0.59
23:BB:2000:C:O2'	23:BB:2001:C:H5'	2.02	0.59
28:BF:161:SER:OG	28:BF:164:GLU:HB2	2.03	0.59
32:BK:99:ILE:HD13	32:BK:118:LEU:HD13	1.83	0.59
33:BL:38:GLN:C	33:BL:40:SER:N	2.53	0.59
34:BM:96:ILE:HG23	34:BM:97:GLN:N	2.18	0.59
37:BP:23:ASP:HA	37:BP:49:ILE:HB	1.83	0.59
43:BW:10:ARG:HH11	43:BW:10:ARG:CB	2.16	0.59
3:CD:2:ARG:O	3:CD:3:TYR:HB3	2.03	0.59
17:CR:47:ARG:CZ	17:CR:48:ALA:H	2.14	0.59
23:DB:921:C:H2'	23:DB:922:C:H6	1.67	0.59
23:DB:1082:U:C4	23:DB:1086:A:N1	2.70	0.59
23:DB:1387:A:H5'	23:DB:1469:A:H1'	1.84	0.59
23:DB:1535:A:H3'	23:DB:1536:C:C6	2.38	0.59
23:DB:1932:A:H2'	23:DB:1933:G:O4'	2.02	0.59
23:DB:2591:C:H2'	23:DB:2592:G:H8	1.66	0.59
23:DB:2722:G:H2'	23:DB:2723:C:H6	1.67	0.59
23:DB:2769:U:H2'	23:DB:2770:G:C8	2.38	0.59
23:DB:2804:U:H2'	23:DB:2805:C:H6	1.66	0.59
26:DD:33:ARG:O	26:DD:34:VAL:HG22	2.02	0.59
26:DD:122:VAL:HG21	26:DD:141:ARG:HD3	1.85	0.59
26:DD:172:VAL:HG21	26:DD:192:ALA:HB1	1.85	0.59
27:DE:53:THR:HB	27:DE:74:LYS:HE2	1.85	0.59
27:DE:189:THR:C	27:DE:191:ASP:H	2.06	0.59
31:DJ:105:VAL:HG11	31:DJ:122:LEU:CD1	2.33	0.59
33:DL:19:LEU:HD22	33:DL:19:LEU:N	2.14	0.59
34:DM:2:LEU:H	34:DM:2:LEU:HD12	1.68	0.59
37:DP:59:THR:HG23	37:DP:76:HIS:CD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:832:G:O2'	1:AA:833:G:H5'	2.02	0.59
1:AA:1048:G:H4'	13:AN:2:LYS:NZ	2.18	0.59
1:AA:1243:C:H2'	1:AA:1244:G:H8	1.67	0.59
4:AE:156:ARG:HB2	7:AH:43:GLY:HA3	1.85	0.59
6:AG:74:VAL:HG12	6:AG:75:LYS:H	1.68	0.59
23:BB:936:A:H2'	23:BB:937:C:C6	2.37	0.59
23:BB:1007:C:H5''	31:BJ:37:ARG:NH2	2.16	0.59
23:BB:2274:A:H2'	23:BB:2276:G:OP1	2.02	0.59
25:BC:75:ALA:HB1	25:BC:93:VAL:HG13	1.84	0.59
28:BF:13:LYS:HD3	28:BF:16:MET:HG3	1.85	0.59
32:BK:99:ILE:HG22	32:BK:119:ALA:HB2	1.84	0.59
34:BM:105:MET:HE3	34:BM:106:ASP:C	2.23	0.59
38:BQ:47:ARG:HH22	38:BQ:50:ARG:HG2	1.66	0.59
42:BU:7:ASP:N	42:BU:24:VAL:HA	2.17	0.59
44:BX:44:LYS:HD2	44:BX:48:ARG:HE	1.68	0.59
49:B2:12:ARG:HH21	49:B2:18:PHE:H	1.50	0.59
1:CA:590:U:H2'	1:CA:591:U:H6	1.67	0.59
2:CC:45:GLU:HB3	2:CC:46:LEU:HD23	1.84	0.59
3:CD:61:ARG:HG3	3:CD:66:VAL:O	2.02	0.59
4:CE:95:MET:CE	4:CE:143:LEU:HD13	2.33	0.59
16:CQ:11:VAL:HG13	16:CQ:20:ILE:HG23	1.85	0.59
19:CT:2:ASN:O	19:CT:4:LYS:N	2.36	0.59
23:DB:997:G:H5'	38:DQ:92:LYS:HG3	1.85	0.59
23:DB:1319:C:O2'	23:DB:1320:C:H5'	2.03	0.59
23:DB:1548:A:H2'	23:DB:1549:A:H8	1.66	0.59
23:DB:1813:G:H1'	25:DC:45:ASN:HB3	1.85	0.59
23:DB:2008:C:H2'	23:DB:2009:A:C8	2.38	0.59
26:DD:14:ILE:HG23	26:DD:19:GLY:CA	2.33	0.59
26:DD:31:ALA:HB3	26:DD:95:SER:CB	2.32	0.59
32:DK:71:ARG:O	32:DK:72:PRO:C	2.40	0.59
38:DQ:57:ARG:HH21	38:DQ:92:LYS:HZ3	1.51	0.59
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.03	0.59
1:AA:1217:C:OP1	13:AN:8:ARG:HD3	2.03	0.59
3:AD:137:SER:HB2	3:AD:138:PRO:HD2	1.85	0.59
3:AD:138:PRO:HA	3:AD:181:PHE:HD2	1.67	0.59
3:AD:173:ASP:HB3	3:AD:178:GLU:HB3	1.85	0.59
6:AG:11:ILE:HG12	6:AG:24:LYS:HE2	1.85	0.59
8:AI:17:ARG:O	8:AI:64:ILE:HA	2.02	0.59
8:AI:117:LEU:HD22	8:AI:123:ARG:HG2	1.83	0.59
20:AB:18:GLN:O	20:AB:37:VAL:HG23	2.03	0.59
20:AB:53:LEU:HD21	20:AB:212:TYR:CE2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:67:LEU:N	20:AB:67:LEU:HD13	2.18	0.59
20:AB:147:LEU:O	20:AB:150:ILE:HG22	2.03	0.59
23:BB:1155:A:N6	45:BY:10:ARG:HH22	2.00	0.59
23:BB:1722:A:N6	23:BB:1738:G:H1'	2.17	0.59
25:BC:45:ASN:O	25:BC:46:GLY:C	2.41	0.59
26:BD:23:PRO:HB3	26:BD:189:VAL:H	1.67	0.59
26:BD:193:VAL:O	26:BD:193:VAL:HG13	2.02	0.59
30:BH:17:ASP:OD2	30:BH:21:VAL:HB	2.02	0.59
31:BJ:125:TYR:HE2	31:BJ:134:ALA:HB2	1.67	0.59
33:BL:60:ARG:HD3	50:B3:11:LYS:HE2	1.84	0.59
34:BM:3:GLN:OE1	34:BM:47:GLU:HB2	2.03	0.59
36:BO:16:ARG:HG3	36:BO:20:GLU:HG3	1.85	0.59
40:BS:86:MET:O	40:BS:94:ASP:HB3	2.03	0.59
46:BZ:59:ARG:HH21	46:BZ:62:LYS:HZ1	1.50	0.59
1:CA:1496:C:H4'	23:DB:1920:C:O2'	2.02	0.59
3:CD:30:LYS:HZ2	3:CD:30:LYS:HB2	1.67	0.59
6:CG:139:ASP:O	6:CG:142:ARG:HB3	2.02	0.59
12:CM:89:ARG:HB3	12:CM:96:VAL:HG22	1.84	0.59
20:CB:57:ASN:HA	20:CB:60:ALA:HB3	1.85	0.59
23:DB:287:G:H2'	23:DB:288:U:C6	2.37	0.59
23:DB:1099:G:OP2	52:DI:2:LYS:O	2.21	0.59
23:DB:1818:U:H5''	25:DC:155:ARG:HG2	1.85	0.59
23:DB:2900:A:H2'	23:DB:2901:C:C6	2.38	0.59
25:DC:140:VAL:HA	25:DC:191:LEU:HA	1.84	0.59
25:DC:153:LEU:C	25:DC:155:ARG:H	2.05	0.59
25:DC:179:GLU:OE1	25:DC:267:VAL:HG23	2.02	0.59
28:DF:151:LEU:HG	28:DF:153:ILE:HG13	1.83	0.59
31:DJ:59:ALA:C	31:DJ:61:LYS:H	2.07	0.59
32:DK:15:GLY:HA3	32:DK:52:VAL:CG1	2.32	0.59
34:DM:72:PRO:O	34:DM:73:ILE:HD13	2.03	0.59
38:DQ:90:ASP:OD1	39:DR:10:LYS:HG2	2.03	0.59
41:DT:48:GLN:CA	41:DT:53:VAL:HG22	2.31	0.59
1:AA:699:C:C2'	1:AA:700:G:H5''	2.30	0.58
1:AA:1444:U:H2'	1:AA:1445:U:C6	2.38	0.58
2:AC:141:MET:HE2	2:AC:141:MET:HA	1.84	0.58
3:AD:25:ARG:NH1	3:AD:30:LYS:HG2	2.18	0.58
3:AD:59:LYS:O	3:AD:63:ILE:HG13	2.02	0.58
7:AH:79:ARG:HB2	7:AH:80:PRO:HD2	1.84	0.58
8:AI:18:VAL:HG13	8:AI:64:ILE:HG12	1.85	0.58
12:AM:21:ILE:CG2	12:AM:64:VAL:HG11	2.32	0.58
18:AS:50:VAL:HB	18:AS:57:VAL:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:139:U:O2'	41:BT:1:MET:HA	2.03	0.58
23:BB:1041:G:H2'	23:BB:1042:G:H8	1.68	0.58
23:BB:2639:A:H2'	23:BB:2640:G:O4'	2.02	0.58
23:BB:2814:A:H2'	23:BB:2815:C:C6	2.38	0.58
26:BD:22:ILE:N	26:BD:23:PRO:CD	2.65	0.58
29:BG:159:LYS:O	29:BG:159:LYS:HG3	2.02	0.58
30:BH:11:ASN:ND2	30:BH:12:LEU:H	2.00	0.58
32:BK:25:LEU:HD12	32:BK:38:ILE:HB	1.84	0.58
35:BN:116:VAL:HG13	35:BN:117:ASP:N	2.17	0.58
36:BO:16:ARG:NE	36:BO:16:ARG:HA	2.18	0.58
42:BU:94:PHE:HD2	42:BU:95:PHE:H	1.50	0.58
43:BW:23:LYS:NZ	43:BW:24:ARG:HG2	2.18	0.58
46:BZ:25:ARG:HH11	46:BZ:25:ARG:CB	2.17	0.58
50:B3:16:THR:HG21	50:B3:22:LYS:NZ	2.18	0.58
1:CA:118:U:O4	1:CA:288:A:H2'	2.03	0.58
1:CA:599:C:H5''	7:CH:86:LYS:O	2.03	0.58
1:CA:908:A:H2'	1:CA:909:A:H8	1.68	0.58
1:CA:1060:U:H2'	1:CA:1061:G:H8	1.66	0.58
3:CD:2:ARG:HA	3:CD:2:ARG:HE	1.65	0.58
4:CE:110:MET:HG2	4:CE:139:THR:OG1	2.03	0.58
15:CP:1:MET:HB3	15:CP:24:SER:OG	2.03	0.58
17:CR:20:ILE:O	17:CR:21:ASP:HB2	2.03	0.58
20:CB:67:LEU:HD22	20:CB:157:PRO:HG3	1.85	0.58
23:DB:27:G:H22	23:DB:512:G:C2'	2.14	0.58
23:DB:301:G:H3'	23:DB:335:C:OP2	2.02	0.58
23:DB:1779:U:H5	23:DB:1784:A:N7	2.00	0.58
23:DB:1853:A:N1	23:DB:2087:G:H1'	2.18	0.58
23:DB:2074:U:H2'	23:DB:2075:U:C6	2.38	0.58
23:DB:2785:C:H2'	23:DB:2786:U:C6	2.38	0.58
31:DJ:100:VAL:HG13	31:DJ:101:ILE:HG12	1.85	0.58
46:DZ:33:ASN:O	46:DZ:34:LEU:HD23	2.03	0.58
46:DZ:39:LYS:HD3	46:DZ:61:ASN:ND2	2.18	0.58
52:DI:20:SER:O	52:DI:25:PRO:HD2	2.03	0.58
1:AA:270:A:H2'	1:AA:271:C:H6	1.68	0.58
1:AA:626:G:H2'	1:AA:627:G:C8	2.38	0.58
1:AA:677:U:H3	1:AA:713:G:H22	1.51	0.58
3:AD:99:ASN:CG	3:AD:103:ARG:HH21	2.06	0.58
6:AG:97:ALA:HA	6:AG:100:MET:HE3	1.85	0.58
9:AJ:26:VAL:O	9:AJ:30:LYS:HB3	2.02	0.58
16:AQ:7:LEU:HD13	16:AQ:24:ILE:HG12	1.84	0.58
23:BB:303:G:H2'	23:BB:304:U:C6	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:921:C:O2'	23:BB:922:C:H5'	2.02	0.58
23:BB:1082:U:C4	23:BB:1086:A:N1	2.71	0.58
23:BB:2478:A:H5''	51:B4:1:MET:H1	1.68	0.58
29:BG:10:VAL:HG12	29:BG:47:ASN:HA	1.85	0.58
30:BH:73:ASN:HD22	30:BH:73:ASN:H	1.47	0.58
31:BJ:41:LYS:HD2	31:BJ:44:TYR:O	2.03	0.58
35:BN:19:ALA:C	35:BN:21:PHE:H	2.06	0.58
36:BO:17:LYS:O	36:BO:21:LEU:HA	2.03	0.58
36:BO:40:ILE:HG12	36:BO:41:ALA:O	2.03	0.58
37:BP:5:LYS:C	37:BP:7:LEU:N	2.55	0.58
40:BS:103:ILE:HG23	40:BS:104:THR:N	2.18	0.58
42:BU:13:LEU:HG	42:BU:69:VAL:HG22	1.85	0.58
52:BI:77:VAL:HA	52:BI:80:LYS:HE2	1.85	0.58
1:CA:545:C:H5''	3:CD:68:GLU:HG2	1.84	0.58
1:CA:673:A:H1'	17:CR:63:TYR:CE1	2.38	0.58
1:CA:1306:A:O2'	12:CM:107:THR:HG21	2.03	0.58
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.68	0.58
1:CA:1338:G:H2'	1:CA:1339:A:C8	2.38	0.58
3:CD:58:GLN:O	3:CD:62:ARG:HG2	2.02	0.58
11:CL:75:GLU:CD	11:CL:75:GLU:H	2.06	0.58
16:CQ:60:ILE:HG12	16:CQ:72:TRP:HE3	1.68	0.58
20:CB:80:LYS:HA	20:CB:90:PHE:CE1	2.38	0.58
23:DB:1099:G:O4'	52:DI:3:LYS:CA	2.50	0.58
23:DB:1113:U:OP1	29:DG:2:ARG:HG2	2.03	0.58
23:DB:2089:C:H2'	23:DB:2090:A:O4'	2.03	0.58
23:DB:2814:A:H2'	23:DB:2815:C:C6	2.38	0.58
28:DF:39:VAL:HG12	28:DF:40:GLY:N	2.18	0.58
28:DF:56:LEU:HA	28:DF:59:ILE:CG2	2.30	0.58
31:DJ:25:LEU:HB3	31:DJ:62:VAL:CG1	2.33	0.58
41:DT:24:MET:CE	41:DT:30:ILE:HA	2.32	0.58
44:DX:1:MET:HB2	44:DX:6:LEU:HG	1.85	0.58
50:D3:32:LEU:CD1	50:D3:33:THR:H	2.15	0.58
50:D3:49:VAL:HG22	50:D3:50:SER:N	2.13	0.58
1:AA:370:C:H2'	1:AA:371:A:H8	1.67	0.58
1:AA:429:U:H1'	1:AA:430:A:H5''	1.84	0.58
4:AE:108:GLY:H	4:AE:110:MET:HE1	1.68	0.58
7:AH:8:ASP:O	7:AH:12:ARG:HG3	2.03	0.58
11:AL:42:LYS:HE3	11:AL:90:PRO:HD3	1.84	0.58
23:BB:363:G:H2'	23:BB:364:C:C6	2.38	0.58
23:BB:419:U:H2'	23:BB:420:C:C6	2.38	0.58
23:BB:869:G:H2'	23:BB:870:U:C6	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1171:G:H2'	23:BB:1172:C:O4'	2.02	0.58
23:BB:1973:G:H2'	23:BB:1974:C:C6	2.38	0.58
23:BB:2278:A:C8	43:BW:8:SER:HB3	2.38	0.58
23:BB:2500:U:H5'	23:BB:2501:C:OP2	2.02	0.58
33:BL:96:LYS:HD3	33:BL:96:LYS:N	2.19	0.58
33:BL:119:PRO:O	33:BL:120:VAL:HB	2.03	0.58
37:BP:99:LEU:HD12	37:BP:101:GLU:OE2	2.02	0.58
40:BS:14:ALA:O	40:BS:17:VAL:HG22	2.03	0.58
41:BT:38:ALA:O	41:BT:42:GLU:HB2	2.03	0.58
44:BX:36:GLN:NE2	44:BX:36:GLN:H	2.02	0.58
1:CA:1237:C:H3'	1:CA:1238:A:H5'	1.84	0.58
3:CD:34:GLU:O	3:CD:35:GLN:HG3	2.03	0.58
7:CH:75:GLN:HE21	7:CH:76:ARG:H	1.50	0.58
20:CB:86:CYS:HB3	20:CB:88:GLN:NE2	2.18	0.58
22:DA:35:C:H2'	22:DA:36:C:O4'	2.02	0.58
23:DB:596:U:H2'	23:DB:597:G:C8	2.37	0.58
23:DB:987:C:H2'	23:DB:988:A:O4'	2.03	0.58
23:DB:1150:C:O2'	23:DB:1151:A:H5'	2.02	0.58
23:DB:1857:G:H2'	23:DB:1884:G:N2	2.19	0.58
23:DB:2722:G:O2'	35:DN:4:ARG:CD	2.49	0.58
26:DD:151:THR:O	26:DD:153:GLY:N	2.36	0.58
28:DF:140:ILE:HG21	28:DF:145:VAL:CG2	2.32	0.58
32:DK:63:VAL:HG11	32:DK:103:VAL:HG12	1.85	0.58
34:DM:101:VAL:HG12	34:DM:102:LEU:N	2.18	0.58
37:DP:69:VAL:HG13	37:DP:70:GLU:H	1.67	0.58
44:DX:2:LYS:HB2	44:DX:5:GLU:HG3	1.85	0.58
44:DX:26:PHE:HA	44:DX:29:ARG:CD	2.33	0.58
1:AA:312:C:H2'	1:AA:313:A:H8	1.68	0.58
1:AA:920:U:H2'	1:AA:921:U:C6	2.38	0.58
9:AJ:30:LYS:HB2	9:AJ:36:VAL:HG21	1.85	0.58
11:AL:19:ASN:HB2	11:AL:93:ARG:NH1	2.18	0.58
16:AQ:46:HIS:HB2	16:AQ:70:LYS:HE3	1.85	0.58
21:AU:14:ALA:H	21:AU:16:ARG:CZ	2.15	0.58
23:BB:1024:G:C3'	23:BB:1025:G:H5''	2.34	0.58
23:BB:1083:U:H1'	23:BB:1086:A:N6	2.19	0.58
23:BB:2392:A:OP2	50:B3:31:ILE:HD13	2.03	0.58
23:BB:2415:G:H2'	23:BB:2416:C:H6	1.69	0.58
23:BB:2809:A:H2'	23:BB:2810:A:C8	2.39	0.58
24:BV:63:ILE:O	24:BV:65:VAL:HG22	2.03	0.58
25:BC:10:PRO:HD2	25:BC:202:ARG:HH12	1.67	0.58
28:BF:174:PHE:N	28:BF:175:PRO:HD2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:8:VAL:O	29:BG:48:THR:HA	2.02	0.58
29:BG:94:ARG:HH11	29:BG:94:ARG:HB2	1.68	0.58
29:BG:132:LEU:HD11	29:BG:144:ALA:HB2	1.85	0.58
33:BL:78:ARG:NH2	33:BL:82:LEU:HD23	2.16	0.58
35:BN:83:LEU:HA	35:BN:86:ARG:HD3	1.84	0.58
39:BR:53:PHE:O	39:BR:54:VAL:C	2.37	0.58
42:BU:90:LYS:HG3	42:BU:91:LYS:H	1.68	0.58
52:BI:79:LEU:HD23	52:BI:108:ILE:CD1	2.33	0.58
1:CA:945:G:H21	1:CA:1334:G:H4'	1.68	0.58
16:CQ:16:MET:HB2	16:CQ:19:SER:HB2	1.85	0.58
16:CQ:42:LYS:C	16:CQ:43:LEU:HD12	2.23	0.58
16:CQ:45:VAL:HG21	16:CQ:60:ILE:HG21	1.85	0.58
16:CQ:56:ASP:N	16:CQ:81:ALA:HB2	2.18	0.58
20:CB:96:LEU:HB2	20:CB:99:MET:SD	2.43	0.58
23:DB:2213:U:O2	23:DB:2213:U:H2'	2.04	0.58
25:DC:172:THR:HG22	25:DC:173:LEU:N	2.17	0.58
25:DC:226:PRO:HG3	25:DC:232:GLY:C	2.23	0.58
28:DF:40:GLY:H	28:DF:84:ILE:HG21	1.69	0.58
30:DH:26:ALA:HB2	30:DH:30:LEU:HG	1.86	0.58
30:DH:86:ASP:C	30:DH:88:GLY:H	2.05	0.58
33:DL:108:ALA:HB3	33:DL:125:LEU:CB	2.32	0.58
34:DM:117:PHE:HB2	34:DM:124:LEU:HD11	1.85	0.58
38:DQ:39:ILE:HA	38:DQ:43:GLN:HB3	1.84	0.58
43:DW:48:ALA:HA	43:DW:54:ARG:H	1.67	0.58
10:AK:18:GLY:O	10:AK:81:LEU:HB2	2.03	0.58
23:BB:1327:A:H2'	23:BB:1328:A:O4'	2.02	0.58
23:BB:1534:U:H2'	23:BB:1536:C:C4	2.39	0.58
23:BB:1655:A:C2	23:BB:2049:G:H5''	2.38	0.58
25:BC:227:VAL:HG12	25:BC:228:ASP:OD1	2.03	0.58
36:BO:13:ARG:HB2	36:BO:13:ARG:HH11	1.69	0.58
37:BP:27:VAL:HG12	37:BP:47:ILE:CD1	2.33	0.58
39:BR:4:VAL:CA	39:BR:12:HIS:HB3	2.34	0.58
48:B1:22:THR:O	48:B1:23:THR:HG23	2.03	0.58
52:BI:121:ILE:O	52:BI:124:MET:HG2	2.04	0.58
1:CA:312:C:H2'	1:CA:313:A:H8	1.67	0.58
1:CA:1221:G:O3'	18:CS:76:THR:HG21	2.03	0.58
4:CE:15:ILE:HD12	4:CE:35:LEU:HD23	1.85	0.58
7:CH:93:LYS:HG2	7:CH:96:ALA:HA	1.83	0.58
8:CI:18:VAL:HG12	8:CI:64:ILE:HG12	1.86	0.58
9:CJ:40:ILE:HG13	9:CJ:73:LEU:HB3	1.85	0.58
10:CK:12:ARG:N	10:CK:76:TYR:HA	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:910:A:N7	34:DM:16:ARG:HG2	2.19	0.58
23:DB:1022:G:C8	31:DJ:68:LYS:HE3	2.38	0.58
23:DB:1593:A:H2'	23:DB:1594:U:C6	2.38	0.58
23:DB:2292:U:H2'	23:DB:2293:G:C8	2.39	0.58
23:DB:2354:C:H4'	43:DW:30:VAL:HG13	1.85	0.58
23:DB:2386:A:H4'	43:DW:38:ARG:HB2	1.86	0.58
26:DD:145:SER:HA	26:DD:159:LYS:HZ3	1.68	0.58
26:DD:204:LYS:HB3	26:DD:205:PRO:CD	2.32	0.58
29:DG:10:VAL:HG13	29:DG:14:VAL:CG1	2.33	0.58
30:DH:19:VAL:HG22	30:DH:20:ASN:N	2.19	0.58
31:DJ:69:ARG:HH11	31:DJ:69:ARG:HG3	1.69	0.58
33:DL:4:ASN:O	33:DL:6:LEU:HD22	2.03	0.58
34:DM:29:GLY:N	34:DM:102:LEU:HD12	2.14	0.58
46:DZ:24:ILE:H	46:DZ:24:ILE:CD1	2.08	0.58
47:D0:45:ASP:HA	47:D0:55:ALA:HA	1.83	0.58
6:AG:96:ASN:O	6:AG:100:MET:HG3	2.04	0.58
8:AI:82:ILE:O	8:AI:86:LEU:HD22	2.03	0.58
10:AK:25:SER:HB3	10:AK:28:ASN:O	2.04	0.58
11:AL:22:ALA:HB2	11:AL:56:LEU:HD21	1.85	0.58
21:AU:14:ALA:HA	21:AU:16:ARG:NE	2.18	0.58
23:BB:17:G:H2'	23:BB:18:U:C6	2.38	0.58
23:BB:966:G:H2'	23:BB:967:U:C6	2.38	0.58
23:BB:974:G:H1'	23:BB:975:A:C8	2.38	0.58
23:BB:1439:A:C6	23:BB:1552:A:N7	2.71	0.58
23:BB:1681:G:H2'	23:BB:1757:A:N1	2.19	0.58
23:BB:2052:A:H5'	26:BD:148:GLN:O	2.03	0.58
25:BC:140:VAL:HG23	25:BC:141:HIS:H	1.67	0.58
31:BJ:81:ILE:O	31:BJ:84:ILE:HG12	2.04	0.58
33:BL:77:ILE:HA	33:BL:101:ILE:HD13	1.86	0.58
37:BP:47:ILE:HA	37:BP:63:ILE:HG23	1.86	0.58
38:BQ:27:ARG:HG3	38:BQ:32:ARG:NH2	2.19	0.58
39:BR:37:GLU:HG2	39:BR:62:GLU:N	2.16	0.58
40:BS:17:VAL:HG23	40:BS:76:VAL:HG11	1.85	0.58
42:BU:6:ARG:C	42:BU:8:ASP:H	2.07	0.58
45:BY:7:THR:HB	45:BY:34:THR:HB	1.85	0.58
1:CA:699:C:C2'	1:CA:700:G:H5''	2.32	0.58
1:CA:1254:A:H2'	1:CA:1255:G:C8	2.39	0.58
1:CA:1458:G:H5''	19:CT:25:SER:HB3	1.84	0.58
1:CA:1513:A:H2'	1:CA:1514:G:H8	1.69	0.58
3:CD:75:TYR:HE1	3:CD:200:VAL:HG23	1.69	0.58
3:CD:169:TRP:CD1	3:CD:170:LEU:HG	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CG:42:VAL:O	6:CG:46:LEU:HB2	2.02	0.58
8:CI:56:MET:SD	8:CI:57:VAL:N	2.77	0.58
16:CQ:24:ILE:HD13	16:CQ:43:LEU:HD13	1.84	0.58
23:DB:136:G:C2	41:DT:3:ARG:NH2	2.71	0.58
23:DB:228:C:H4'	23:DB:229:C:H5''	1.85	0.58
23:DB:857:G:C2'	23:DB:858:G:H5'	2.33	0.58
23:DB:871:U:H4'	34:DM:68:PHE:CE1	2.39	0.58
23:DB:873:C:H2'	23:DB:874:G:C8	2.38	0.58
23:DB:962:G:O2'	23:DB:963:U:H5'	2.04	0.58
23:DB:1025:G:H1'	23:DB:1135:C:C5'	2.28	0.58
23:DB:1082:U:C4	23:DB:1086:A:C2	2.92	0.58
23:DB:2786:U:O2'	26:DD:65:ALA:HB3	2.03	0.58
23:DB:2836:U:H2'	23:DB:2837:A:H8	1.68	0.58
25:DC:20:ASN:C	25:DC:202:ARG:HD2	2.23	0.58
25:DC:227:VAL:HG13	25:DC:228:ASP:OD1	2.04	0.58
29:DG:36:LEU:CB	29:DG:40:VAL:HG21	2.33	0.58
29:DG:42:VAL:HA	29:DG:50:THR:O	2.04	0.58
33:DL:109:LYS:HG2	33:DL:126:ARG:HD3	1.85	0.58
33:DL:109:LYS:HA	33:DL:127:VAL:H	1.68	0.58
38:DQ:92:LYS:C	38:DQ:93:ILE:HG23	2.24	0.58
39:DR:3:ALA:HB2	39:DR:14:VAL:O	2.04	0.58
42:DU:82:VAL:HG21	42:DU:95:PHE:O	2.02	0.58
1:AA:168:G:O2'	1:AA:169:C:H5'	2.04	0.58
1:AA:272:C:H2'	1:AA:273:U:H6	1.68	0.58
1:AA:586:C:O2'	1:AA:587:G:H5'	2.04	0.58
11:AL:19:ASN:O	11:AL:20:VAL:HG23	2.03	0.58
22:BA:39:A:O2'	22:BA:40:U:H5'	2.03	0.58
23:BB:276:U:O2'	23:BB:277:G:H5'	2.03	0.58
23:BB:2328:A:H2'	23:BB:2329:U:H6	1.67	0.58
23:BB:2888:C:H2'	23:BB:2889:C:C6	2.39	0.58
26:BD:1:MET:HE2	26:BD:84:LEU:HD13	1.85	0.58
27:BE:50:ALA:O	27:BE:74:LYS:HB2	2.03	0.58
27:BE:152:GLU:HB3	27:BE:171:ASP:OD2	2.04	0.58
30:BH:85:GLY:O	30:BH:89:LYS:N	2.36	0.58
32:BK:41:ILE:HG23	32:BK:42:THR:N	2.19	0.58
36:BO:64:TYR:CE1	36:BO:74:VAL:HG11	2.34	0.58
37:BP:25:VAL:CG1	37:BP:87:ARG:HA	2.33	0.58
37:BP:38:ARG:HH11	37:BP:39:LEU:H	1.52	0.58
40:BS:88:ARG:HD2	40:BS:93:ALA:HB3	1.86	0.58
42:BU:85:ARG:HD3	42:BU:85:ARG:N	2.18	0.58
46:BZ:30:HIS:H	46:BZ:48:GLN:CD	2.07	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BI:10:LEU:O	52:BI:10:LEU:HD12	2.04	0.58
1:CA:832:G:O2'	1:CA:833:G:H5'	2.04	0.58
1:CA:985:C:H2'	1:CA:986:U:C6	2.39	0.58
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.39	0.58
23:DB:90:U:H3'	23:DB:91:A:H5''	1.84	0.58
23:DB:288:U:H2'	23:DB:289:G:C8	2.39	0.58
23:DB:532:A:N3	23:DB:532:A:H2'	2.17	0.58
23:DB:811:U:OP2	33:DL:31:GLY:HA2	2.04	0.58
23:DB:1176:U:O5'	23:DB:1176:U:H6	1.87	0.58
23:DB:1552:A:H2'	23:DB:1553:A:H5'	1.85	0.58
23:DB:1570:A:H2'	23:DB:1571:A:C8	2.39	0.58
23:DB:1973:G:H2'	23:DB:1974:C:C6	2.37	0.58
23:DB:2688:G:H1'	23:DB:2721:A:N6	2.18	0.58
23:DB:2887:A:C8	47:D0:27:LEU:HD21	2.39	0.58
23:DB:2902:C:O2'	23:DB:2903:U:H4'	2.03	0.58
25:DC:38:LYS:HG3	25:DC:39:SER:N	2.19	0.58
25:DC:42:ARG:NE	25:DC:44:ASN:HB2	2.19	0.58
26:DD:5:VAL:CG2	26:DD:28:GLU:HA	2.34	0.58
26:DD:60:VAL:HG23	26:DD:63:PRO:CD	2.34	0.58
26:DD:156:PHE:CB	31:DJ:81:ILE:HG21	2.33	0.58
38:DQ:108:LEU:HA	38:DQ:111:LYS:HD2	1.86	0.58
41:DT:56:GLU:O	41:DT:57:VAL:HG22	2.03	0.58
51:D4:11:CYS:SG	51:D4:25:VAL:HG23	2.43	0.58
1:AA:57:G:H2'	1:AA:58:C:H6	1.68	0.58
1:AA:555:U:H2'	1:AA:556:C:C6	2.39	0.58
19:AT:60:GLN:CD	19:AT:60:GLN:H	2.07	0.58
23:BB:125:A:H4'	49:B2:13:ASN:CG	2.23	0.58
23:BB:910:A:H62	34:BM:15:GLY:HA3	1.68	0.58
23:BB:1187:G:H5''	39:BR:84:ARG:CZ	2.33	0.58
23:BB:1505:A:H2'	23:BB:1506:U:C6	2.38	0.58
23:BB:2213:U:C2'	23:BB:2213:U:O2	2.52	0.58
23:BB:2246:G:H2'	23:BB:2247:A:C8	2.38	0.58
26:BD:45:TYR:O	26:BD:46:ARG:HG2	2.04	0.58
26:BD:107:VAL:HG23	26:BD:204:LYS:O	2.04	0.58
28:BF:116:LEU:HD12	28:BF:176:PHE:CD2	2.39	0.58
31:BJ:35:ARG:HA	31:BJ:35:ARG:NE	2.19	0.58
34:BM:31:PHE:CD2	34:BM:128:THR:HG21	2.38	0.58
36:BO:108:ASP:HB3	36:BO:111:ARG:NH2	2.19	0.58
1:CA:98:A:H2'	1:CA:99:C:C6	2.39	0.58
1:CA:810:C:O2'	1:CA:811:C:H5'	2.04	0.58
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1313:U:P	18:CS:5:LYS:HA	2.44	0.58
1:CA:1476:A:H2'	1:CA:1477:U:O4'	2.04	0.58
7:CH:78:SER:HB2	7:CH:124:ILE:O	2.03	0.58
9:CJ:64:GLN:HB3	13:CN:98:ALA:HB3	1.86	0.58
9:CJ:65:TYR:HB3	13:CN:95:LEU:HD11	1.84	0.58
12:CM:39:ALA:O	12:CM:42:VAL:HG22	2.04	0.58
13:CN:40:ARG:HH12	18:CS:6:LYS:H	1.51	0.58
20:CB:102:ASN:ND2	20:CB:105:THR:HB	2.19	0.58
23:DB:69:C:H2'	23:DB:70:G:C8	2.38	0.58
23:DB:310:A:H5''	42:DU:14:THR:CG2	2.33	0.58
23:DB:322:A:H1'	23:DB:339:U:O2	2.04	0.58
23:DB:324:A:N6	23:DB:339:U:H5'	2.19	0.58
23:DB:1151:A:H2'	23:DB:1152:C:H6	1.67	0.58
23:DB:1175:A:H2'	23:DB:1176:U:H5'	1.86	0.58
23:DB:2785:C:H2'	23:DB:2786:U:H6	1.68	0.58
24:DV:2:PHE:HB2	24:DV:61:LEU:HD22	1.86	0.58
33:DL:53:GLY:HA3	50:D3:54:LEU:HD21	1.86	0.58
33:DL:81:ASP:HA	33:DL:84:LYS:HD2	1.85	0.58
43:DW:44:PHE:CD2	43:DW:77:LYS:HB3	2.38	0.58
46:DZ:49:ARG:C	46:DZ:51:VAL:N	2.57	0.58
52:DI:17:ALA:C	52:DI:19:PRO:HD3	2.24	0.58
52:DI:73:PRO:CG	52:DI:78:LEU:HD21	2.34	0.58
1:AA:1116:U:O2'	1:AA:1117:A:H5'	2.03	0.58
1:AA:1361:G:H2'	1:AA:1362:A:H5''	1.85	0.58
3:AD:69:ARG:HA	3:AD:69:ARG:HE	1.68	0.58
3:AD:170:LEU:HB2	3:AD:180:THR:O	2.04	0.58
20:AB:31:PHE:HB3	20:AB:39:ILE:HB	1.84	0.58
23:BB:519:U:H5''	40:BS:18:ARG:NH2	2.19	0.58
23:BB:958:U:C4	34:BM:18:ARG:HB2	2.39	0.58
23:BB:2297:A:N6	23:BB:2319:G:H5''	2.18	0.58
23:BB:2502:G:H5'	23:BB:2503:A:C5'	2.33	0.58
23:BB:2811:G:OP1	26:BD:62:LYS:HE2	2.04	0.58
24:BV:66:ASP:HB3	24:BV:68:LYS:HG2	1.85	0.58
25:BC:21:PRO:O	25:BC:22:GLU:HB2	2.04	0.58
25:BC:204:LEU:HB3	25:BC:210:ALA:HB1	1.85	0.58
25:BC:216:ARG:HB3	25:BC:217:PRO:CD	2.33	0.58
26:BD:52:THR:HG22	26:BD:75:ALA:HB1	1.84	0.58
34:BM:88:ASN:N	34:BM:88:ASN:HD22	2.02	0.58
37:BP:13:LYS:HA	37:BP:15:ASP:OD1	2.04	0.58
37:BP:47:ILE:HG23	37:BP:63:ILE:CG2	2.33	0.58
38:BQ:27:ARG:HG3	38:BQ:32:ARG:HH21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:44:LYS:CD	44:BX:48:ARG:HE	2.16	0.58
49:B2:21:ARG:HB3	49:B2:31:LEU:HD21	1.86	0.58
52:BI:85:ILE:CD1	52:BI:137:LEU:HD21	2.34	0.58
1:CA:389:A:H3'	1:CA:390:U:H6	1.69	0.58
1:CA:406:G:H21	3:CD:115:GLN:HE22	1.52	0.58
3:CD:106:PHE:CD1	3:CD:158:LEU:HD21	2.39	0.58
6:CG:15:PRO:HG2	6:CG:43:TYR:OH	2.04	0.58
11:CL:80:LEU:HD23	11:CL:97:VAL:HG21	1.86	0.58
22:DA:5:U:H2'	22:DA:6:G:H8	1.68	0.58
22:DA:25:U:O4	22:DA:54:G:H3'	2.03	0.58
23:DB:962:G:H21	23:DB:2250:G:H1	1.52	0.58
23:DB:1197:G:H2'	23:DB:1198:U:C6	2.39	0.58
23:DB:1666:G:H4'	32:DK:6:THR:HG23	1.85	0.58
23:DB:2415:G:H2'	23:DB:2416:C:H6	1.68	0.58
23:DB:2886:A:C5	47:D0:27:LEU:HG	2.38	0.58
25:DC:128:THR:HA	25:DC:190:THR:HA	1.86	0.58
29:DG:17:LYS:HZ1	29:DG:19:ASN:HB2	1.65	0.58
29:DG:66:THR:O	29:DG:70:LEU:HD13	2.04	0.58
34:DM:133:LYS:HD2	34:DM:134:THR:N	2.18	0.58
38:DQ:50:ARG:NH1	38:DQ:53:LYS:HE3	2.19	0.58
39:DR:6:GLN:HE21	39:DR:41:ILE:HB	1.67	0.58
43:DW:31:LEU:O	43:DW:66:VAL:HB	2.04	0.58
48:D1:27:ARG:H	48:D1:27:ARG:NE	2.01	0.58
52:DI:53:PRO:CG	52:DI:77:VAL:HG11	2.33	0.58
1:AA:390:U:H2'	1:AA:391:G:H8	1.66	0.58
1:AA:987:G:H2'	1:AA:988:G:H8	1.69	0.58
1:AA:1035:A:H2'	1:AA:1036:A:H8	1.69	0.58
1:AA:1172:C:H2'	1:AA:1173:U:C6	2.39	0.58
1:AA:1201:A:H1'	1:AA:1202:U:OP2	2.04	0.58
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.38	0.58
13:AN:30:ILE:CG2	13:AN:41:TRP:HB2	2.34	0.58
22:BA:52:A:H2'	22:BA:53:A:O4'	2.03	0.58
23:BB:144:A:H2'	23:BB:145:C:H6	1.69	0.58
23:BB:189:G:H2'	23:BB:205:G:N2	2.18	0.58
23:BB:272:A:H2'	23:BB:273:G:H8	1.69	0.58
23:BB:580:U:O3'	38:BQ:30:VAL:HG13	2.03	0.58
23:BB:657:U:H2'	23:BB:658:U:C6	2.39	0.58
23:BB:1166:G:H2'	23:BB:1167:C:C6	2.39	0.58
23:BB:1204:A:N1	23:BB:1241:A:N1	2.52	0.58
23:BB:1799:G:OP1	25:BC:255:LYS:HG2	2.04	0.58
23:BB:2803:G:H2'	23:BB:2804:U:C6	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:139:THR:HA	25:BC:193:GLU:OE1	2.03	0.58
30:BH:80:ILE:HD11	30:BH:102:ALA:HA	1.86	0.58
30:BH:89:LYS:O	30:BH:90:LEU:HD12	2.03	0.58
34:BM:4:PRO:O	34:BM:5:LYS:C	2.36	0.58
37:BP:8:GLU:HA	37:BP:11:GLN:HG3	1.86	0.58
39:BR:75:VAL:H	39:BR:90:ARG:NE	2.02	0.58
1:CA:190:A:O5'	1:CA:190:A:H8	1.86	0.58
1:CA:672:U:H2'	1:CA:673:A:C8	2.39	0.58
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.04	0.58
2:CC:68:HIS:HA	2:CC:103:ALA:HB3	1.85	0.58
3:CD:101:VAL:O	3:CD:104:MET:HB2	2.04	0.58
6:CG:100:MET:HA	6:CG:103:ILE:HD12	1.85	0.58
14:CO:10:ILE:HD13	14:CO:30:LEU:HA	1.85	0.58
21:CU:8:ASN:HB2	21:CU:9:GLU:CD	2.25	0.58
23:DB:438:G:H2'	23:DB:439:A:C8	2.39	0.58
23:DB:955:U:H5'	23:DB:956:G:OP2	2.04	0.58
23:DB:972:A:C3'	23:DB:973:A:H5''	2.27	0.58
23:DB:1486:U:H2'	23:DB:1487:U:H6	1.68	0.58
23:DB:1654:A:C4'	35:DN:1:MET:H1	2.17	0.58
23:DB:1802:A:H2'	23:DB:1803:A:C8	2.39	0.58
23:DB:2103:C:H2'	23:DB:2104:C:O4'	2.03	0.58
25:DC:172:THR:HG22	25:DC:173:LEU:H	1.69	0.58
25:DC:234:GLY:HA3	25:DC:237:ARG:HH12	1.67	0.58
26:DD:173:GLN:HG3	26:DD:208:LYS:HB3	1.85	0.58
27:DE:115:GLN:HB3	27:DE:117:ARG:HD3	1.86	0.58
29:DG:171:LYS:NZ	29:DG:174:LYS:H	2.02	0.58
31:DJ:36:LEU:HA	31:DJ:51:GLY:O	2.03	0.58
31:DJ:76:HIS:HB2	31:DJ:86:GLN:CG	2.33	0.58
32:DK:104:THR:HG22	32:DK:105:ARG:H	1.68	0.58
47:D0:41:HIS:CG	47:D0:42:ILE:N	2.67	0.58
51:D4:14:CYS:SG	51:D4:27:CYS:N	2.77	0.58
52:DI:108:ILE:CG2	52:DI:128:ILE:HD13	2.34	0.58
1:AA:1091:U:H2'	1:AA:1093:A:OP2	2.04	0.57
1:AA:1463:U:H2'	1:AA:1464:U:C6	2.39	0.57
3:AD:24:VAL:HG23	3:AD:25:ARG:HD2	1.86	0.57
4:AE:13:LYS:HD2	4:AE:112:ALA:HB1	1.85	0.57
6:AG:53:SER:HB2	6:AG:55:LYS:NZ	2.18	0.57
8:AI:56:MET:CE	8:AI:57:VAL:H	2.17	0.57
10:AK:58:THR:HG23	10:AK:61:ALA:HB2	1.85	0.57
13:AN:61:ASN:O	13:AN:62:ARG:HB2	2.03	0.57
23:BB:65:U:H2'	23:BB:66:C:H6	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1151:A:H4'	38:BQ:80:ASN:OD1	2.04	0.57
23:BB:1676:A:H2'	23:BB:1677:A:O4'	2.04	0.57
23:BB:1791:A:OP1	25:BC:211:ARG:HG2	2.04	0.57
23:BB:1818:U:C3'	25:BC:155:ARG:HB2	2.34	0.57
23:BB:2840:C:H5''	35:BN:53:THR:CG2	2.34	0.57
26:BD:120:GLY:H	26:BD:123:LYS:CG	2.16	0.57
27:BE:115:GLN:HB3	27:BE:185:LYS:HZ2	1.69	0.57
28:BF:70:ARG:HA	28:BF:80:GLN:HG3	1.85	0.57
31:BJ:139:VAL:O	31:BJ:140:LEU:HD23	2.03	0.57
33:BL:111:ILE:H	33:BL:111:ILE:CD1	2.12	0.57
36:BO:15:ARG:NH2	36:BO:17:LYS:HD2	2.19	0.57
38:BQ:92:LYS:O	38:BQ:94:LEU:HD13	2.04	0.57
48:B1:42:VAL:HG12	48:B1:43:ARG:HG3	1.86	0.57
1:CA:254:G:OP1	16:CQ:68:LYS:O	2.21	0.57
1:CA:626:G:H2'	1:CA:627:G:C8	2.39	0.57
9:CJ:36:VAL:HG13	9:CJ:76:ILE:CD1	2.34	0.57
13:CN:9:GLU:HA	13:CN:12:ARG:HB3	1.85	0.57
13:CN:23:ARG:O	13:CN:26:LEU:HB2	2.04	0.57
20:CB:208:ALA:O	20:CB:211:LEU:HB3	2.04	0.57
22:DA:26:C:OP1	22:DA:26:C:H3'	2.03	0.57
23:DB:72:U:H1'	44:DX:51:ALA:HB2	1.86	0.57
23:DB:1722:A:N6	23:DB:1738:G:H1'	2.18	0.57
23:DB:2813:A:H2'	23:DB:2814:A:H8	1.69	0.57
23:DB:2849:U:H4'	23:DB:2850:A:H5'	1.85	0.57
27:DE:21:ARG:HB3	27:DE:21:ARG:NH1	2.18	0.57
28:DF:107:VAL:H	28:DF:108:PRO:CD	2.16	0.57
28:DF:165:GLY:O	28:DF:167:ALA:N	2.36	0.57
29:DG:85:LYS:HB3	29:DG:131:VAL:HA	1.85	0.57
31:DJ:98:GLU:O	31:DJ:102:GLU:HG2	2.04	0.57
32:DK:64:ARG:N	32:DK:83:ALA:HB3	2.14	0.57
33:DL:51:GLU:HG2	33:DL:52:GLY:N	2.18	0.57
36:DO:109:ALA:HA	36:DO:112:GLU:OE2	2.04	0.57
37:DP:25:VAL:HG11	37:DP:87:ARG:CA	2.33	0.57
42:DU:46:LYS:HD3	42:DU:53:GLN:HG3	1.85	0.57
47:D0:12:ARG:HH21	47:D0:16:ARG:CG	2.14	0.57
52:DI:2:LYS:O	52:DI:3:LYS:HG3	2.04	0.57
52:DI:24:GLY:HA2	52:DI:34:ILE:HD12	1.85	0.57
1:AA:625:U:H4'	15:AP:16:PHE:CE2	2.39	0.57
1:AA:967:C:H3'	1:AA:968:A:C5'	2.33	0.57
1:AA:1100:C:OP2	20:AB:94:ARG:HD3	2.04	0.57
1:AA:1163:A:H2'	1:AA:1164:G:C8	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1446:A:H2'	1:AA:1447:A:H5''	1.86	0.57
2:AC:112:ALA:HB1	2:AC:199:VAL:HG23	1.84	0.57
8:AI:18:VAL:HG22	8:AI:64:ILE:HG12	1.85	0.57
10:AK:88:PRO:HD3	21:AU:28:LEU:CD1	2.34	0.57
20:AB:119:GLN:O	20:AB:124:THR:HG23	2.04	0.57
22:BA:107:G:O2'	22:BA:108:A:H5'	2.04	0.57
23:BB:79:C:O2'	23:BB:346:A:H1'	2.05	0.57
23:BB:184:C:H2'	23:BB:185:G:H8	1.68	0.57
23:BB:329:G:O6	42:BU:16:LYS:HB2	2.04	0.57
23:BB:586:A:H5''	27:BE:85:PHE:CE1	2.39	0.57
23:BB:751:A:C5'	40:BS:90:LYS:HE2	2.33	0.57
23:BB:784:G:H5''	25:BC:225:ASN:ND2	2.19	0.57
23:BB:2262:U:H2'	23:BB:2263:C:H6	1.69	0.57
23:BB:2308:G:N3	23:BB:2308:G:H5''	2.20	0.57
24:BV:46:LYS:HA	24:BV:46:LYS:HE3	1.85	0.57
26:BD:62:LYS:H	26:BD:62:LYS:CE	2.17	0.57
27:BE:153:LEU:HD21	27:BE:201:ALA:O	2.04	0.57
29:BG:17:LYS:HB3	29:BG:24:THR:CG2	2.34	0.57
34:BM:41:LEU:HG	34:BM:95:LEU:HD12	1.85	0.57
41:BT:61:LEU:HD12	41:BT:62:VAL:N	2.19	0.57
46:BZ:47:LYS:HB2	46:BZ:51:VAL:HB	1.86	0.57
47:B0:42:ILE:HD11	47:B0:44:ALA:HB3	1.86	0.57
50:B3:24:LYS:HZ1	50:B3:29:ARG:HH12	1.49	0.57
1:CA:129:A:H1'	1:CA:130:A:C8	2.39	0.57
1:CA:963:G:H2'	1:CA:964:A:H8	1.68	0.57
1:CA:1009:U:H1'	1:CA:1021:A:C6	2.39	0.57
1:CA:1038:C:H2'	1:CA:1039:G:C8	2.39	0.57
3:CD:130:ASN:H	3:CD:130:ASN:HD22	1.49	0.57
5:CF:85:ILE:HG22	5:CF:86:ARG:H	1.69	0.57
11:CL:24:GLU:HB2	11:CL:26:CYS:SG	2.44	0.57
12:CM:78:ARG:O	12:CM:82:LEU:HG	2.04	0.57
18:CS:30:LEU:HB2	18:CS:48:ILE:HG23	1.86	0.57
20:CB:44:LYS:O	20:CB:47:PRO:HD2	2.04	0.57
23:DB:6:A:H2'	23:DB:7:G:C8	2.40	0.57
23:DB:19:A:H2'	23:DB:20:C:C6	2.39	0.57
23:DB:945:A:H3'	23:DB:946:C:H5''	1.85	0.57
23:DB:2469:A:H5'	34:DM:55:ARG:NE	2.19	0.57
34:DM:14:LYS:HB3	34:DM:72:PRO:HG3	1.85	0.57
34:DM:36:VAL:HG12	34:DM:125:PRO:HD3	1.86	0.57
34:DM:71:LYS:HA	34:DM:71:LYS:HZ2	1.68	0.57
43:DW:30:VAL:HG12	43:DW:31:LEU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:1:MET:O	46:DZ:2:LYS:HG3	2.03	0.57
48:D1:14:ALA:HB1	48:D1:48:TYR:CZ	2.39	0.57
1:AA:91:U:H2'	1:AA:92:U:C6	2.40	0.57
1:AA:190:A:H8	1:AA:190:A:O5'	1.87	0.57
1:AA:450:G:H4'	15:AP:41:PRO:HB2	1.85	0.57
1:AA:922:G:N3	1:AA:1398:A:H2	2.02	0.57
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.87	0.57
4:AE:104:ILE:CD1	4:AE:114:LEU:HB2	2.34	0.57
4:AE:156:ARG:HD2	7:AH:42:GLU:O	2.02	0.57
8:AI:80:HIS:O	8:AI:84:ARG:HB2	2.04	0.57
8:AI:118:ARG:HH22	8:AI:122:ARG:HH21	1.52	0.57
13:AN:24:ALA:HB1	13:AN:27:LYS:HE3	1.87	0.57
19:AT:34:VAL:HG22	19:AT:49:ALA:HB1	1.87	0.57
22:BA:63:C:H2'	22:BA:64:G:H8	1.69	0.57
23:BB:1932:A:H2'	23:BB:1933:G:O4'	2.04	0.57
23:BB:2415:G:H2'	23:BB:2416:C:C6	2.38	0.57
25:BC:141:HIS:HB3	25:BC:190:THR:HB	1.85	0.57
26:BD:45:TYR:CE2	26:BD:83:ARG:HG3	2.40	0.57
26:BD:142:VAL:O	26:BD:143:PRO:C	2.42	0.57
27:BE:152:GLU:O	27:BE:153:LEU:HB2	2.04	0.57
33:BL:29:LYS:HZ3	33:BL:31:GLY:HA3	1.70	0.57
33:BL:54:GLN:C	33:BL:56:PRO:HD2	2.25	0.57
37:BP:97:TYR:O	37:BP:98:TYR:HB2	2.03	0.57
38:BQ:102:LYS:HD2	38:BQ:102:LYS:H	1.68	0.57
42:BU:73:ASN:HB2	42:BU:96:LYS:NZ	2.18	0.57
47:B0:2:VAL:HG22	47:B0:3:GLN:H	1.67	0.57
1:CA:1298:U:H2'	6:CG:113:LYS:NZ	2.19	0.57
1:CA:1461:G:H2'	1:CA:1462:C:H6	1.68	0.57
3:CD:192:ALA:HB3	3:CD:194:ILE:HG22	1.85	0.57
6:CG:71:THR:HA	6:CG:95:ARG:HE	1.69	0.57
13:CN:41:TRP:O	13:CN:45:LEU:HG	2.04	0.57
23:DB:213:A:O2'	23:DB:214:G:H5'	2.05	0.57
23:DB:264:C:H2'	23:DB:265:A:H5''	1.85	0.57
23:DB:657:U:H2'	23:DB:658:U:C6	2.39	0.57
23:DB:2204:G:H4'	25:DC:149:LYS:HG3	1.85	0.57
23:DB:2502:G:H5'	23:DB:2503:A:C5'	2.31	0.57
23:DB:2578:G:O2'	26:DD:138:LEU:HD13	2.04	0.57
27:DE:10:SER:C	27:DE:12:LEU:H	2.05	0.57
27:DE:129:PRO:O	27:DE:130:LYS:HB2	2.04	0.57
28:DF:100:GLU:C	28:DF:102:LEU:H	2.08	0.57
30:DH:30:LEU:O	30:DH:35:LYS:HD3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:81:ILE:C	31:DJ:83:GLY:N	2.55	0.57
36:DO:30:ARG:NH1	36:DO:97:PHE:HB2	2.19	0.57
37:DP:26:GLU:HA	37:DP:47:ILE:H	1.70	0.57
39:DR:82:HIS:O	39:DR:84:ARG:N	2.38	0.57
42:DU:44:HIS:O	42:DU:46:LYS:HD2	2.04	0.57
1:AA:674:G:H2'	1:AA:675:A:H8	1.70	0.57
1:AA:865:A:H5'	1:AA:1078:U:O4	2.04	0.57
1:AA:1238:A:C2	1:AA:1241:G:H1'	2.38	0.57
1:AA:1380:U:O4	6:AG:2:ARG:HA	2.04	0.57
3:AD:169:TRP:NE1	3:AD:170:LEU:HD23	2.18	0.57
5:AF:4:TYR:O	5:AF:63:ASN:HA	2.04	0.57
6:AG:4:ARG:NE	6:AG:5:VAL:H	2.03	0.57
8:AI:18:VAL:HG22	8:AI:64:ILE:HG23	1.85	0.57
23:BB:433:C:O2'	23:BB:434:U:H5'	2.04	0.57
23:BB:972:A:C3'	23:BB:973:A:H5''	2.33	0.57
23:BB:1040:A:H4'	24:BV:49:ASN:ND2	2.20	0.57
23:BB:1229:C:H2'	23:BB:1230:A:H8	1.68	0.57
23:BB:2061:G:H3'	54:BB:3544:HOH:O	2.05	0.57
25:BC:222:THR:C	25:BC:224:MET:H	2.06	0.57
28:BF:102:LEU:O	28:BF:107:VAL:HG23	2.04	0.57
40:BS:9:HIS:O	40:BS:10:ALA:HB3	2.04	0.57
1:CA:239:U:H6	1:CA:239:U:C5'	2.18	0.57
1:CA:1013:G:N2	1:CA:1015:G:H3'	2.20	0.57
1:CA:1063:C:H3'	1:CA:1064:G:H2'	1.86	0.57
1:CA:1312:G:H2'	1:CA:1313:U:C6	2.39	0.57
2:CC:59:PRO:CG	2:CC:62:SER:HB2	2.29	0.57
3:CD:25:ARG:HG3	3:CD:25:ARG:O	2.03	0.57
4:CE:142:GLY:HA2	4:CE:145:ASN:HD22	1.69	0.57
7:CH:10:LEU:HD22	7:CH:74:ILE:HD11	1.85	0.57
11:CL:82:ARG:HG2	11:CL:82:ARG:NH1	2.16	0.57
17:CR:70:THR:HB	17:CR:72:ARG:HH11	1.67	0.57
23:DB:1042:G:H2'	23:DB:1043:C:C6	2.40	0.57
23:DB:1164:C:H2'	23:DB:1165:A:C8	2.40	0.57
23:DB:2000:C:O2'	23:DB:2001:C:H5'	2.04	0.57
23:DB:2646:C:H2'	23:DB:2647:U:O4'	2.04	0.57
24:DV:77:VAL:HG13	24:DV:89:ILE:HD11	1.85	0.57
30:DH:6:LEU:HB2	30:DH:35:LYS:HB3	1.86	0.57
31:DJ:41:LYS:NZ	31:DJ:45:THR:HA	2.19	0.57
35:DN:45:ARG:HH22	35:DN:113:ILE:CG2	2.07	0.57
37:DP:71:ARG:NH2	37:DP:102:ARG:HA	2.20	0.57
38:DQ:57:ARG:HH21	38:DQ:92:LYS:NZ	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:69:GLY:H	39:DR:97:LYS:HB2	1.69	0.57
40:DS:23:LEU:HB3	47:D0:21:LEU:HD22	1.86	0.57
43:DW:19:ARG:CZ	43:DW:19:ARG:HB2	2.34	0.57
43:DW:39:GLN:CD	43:DW:66:VAL:HA	2.25	0.57
50:D3:4:LYS:HE3	50:D3:61:LEU:HB2	1.86	0.57
52:DI:102:ARG:HG3	52:DI:141:ASP:CB	2.34	0.57
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.05	0.57
1:AA:1508:A:H2'	1:AA:1509:C:C6	2.39	0.57
5:AF:17:GLN:HG2	5:AF:21:MET:HG3	1.86	0.57
5:AF:18:VAL:N	5:AF:19:PRO:HD2	2.19	0.57
5:AF:42:TRP:HB2	5:AF:59:TYR:HB2	1.85	0.57
7:AH:64:TYR:HA	7:AH:70:VAL:HG23	1.85	0.57
14:AO:60:SER:HA	14:AO:63:ARG:HH12	1.69	0.57
20:AB:41:ASN:ND2	20:AB:44:LYS:HE2	2.17	0.57
22:BA:86:G:H2'	22:BA:87:U:O4'	2.04	0.57
23:BB:441:U:H2'	23:BB:442:G:C8	2.38	0.57
23:BB:527:C:H5''	23:BB:2779:U:C2	2.40	0.57
23:BB:596:U:H2'	23:BB:597:G:H8	1.69	0.57
23:BB:956:G:H22	23:BB:959:A:H3'	1.68	0.57
23:BB:1079:C:O2'	52:BI:133:ARG:NH2	2.38	0.57
23:BB:1244:A:O2'	23:BB:1245:G:H5'	2.04	0.57
23:BB:1301:A:O2'	23:BB:1302:A:H2'	2.05	0.57
23:BB:1709:U:H2'	23:BB:1710:G:C8	2.40	0.57
23:BB:1714:U:H3'	23:BB:1715:G:C5'	2.35	0.57
23:BB:2287:A:HO2'	23:BB:2288:A:H2'	1.68	0.57
23:BB:2578:G:N3	26:BD:145:SER:HB2	2.19	0.57
27:BE:138:LEU:HD22	27:BE:144:GLU:HA	1.86	0.57
30:BH:8:LYS:HD3	30:BH:8:LYS:O	2.04	0.57
31:BJ:19:ASP:HB2	31:BJ:21:THR:HG23	1.85	0.57
32:BK:80:ASP:OD1	37:BP:70:GLU:HB3	2.03	0.57
38:BQ:10:ARG:HA	38:BQ:10:ARG:NE	2.19	0.57
45:BY:13:ILE:HA	45:BY:19:HIS:HE1	1.70	0.57
51:B4:11:CYS:SG	51:B4:12:ARG:N	2.75	0.57
1:CA:1001:C:H2'	1:CA:1002:G:C8	2.40	0.57
1:CA:1069:C:H4'	1:CA:1192:C:O2	2.05	0.57
3:CD:28:ASP:HB3	3:CD:33:ILE:HD12	1.85	0.57
3:CD:157:ALA:HA	3:CD:160:LEU:HD12	1.84	0.57
4:CE:21:SER:HA	4:CE:29:ILE:O	2.04	0.57
15:CP:44:SER:C	15:CP:46:LYS:H	2.08	0.57
20:CB:209:VAL:O	20:CB:213:LEU:HD12	2.05	0.57
22:DA:22:U:H2'	22:DA:23:G:C8	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DA:51:G:H2'	22:DA:52:A:H5''	1.86	0.57
23:DB:64:A:H2'	23:DB:65:U:H6	1.69	0.57
23:DB:396:G:OP1	46:DZ:8:LYS:HD2	2.04	0.57
23:DB:1105:U:H2'	23:DB:1106:G:C8	2.38	0.57
23:DB:2686:G:H2'	23:DB:2687:U:C6	2.39	0.57
23:DB:2872:A:O2'	23:DB:2873:A:H5''	2.05	0.57
23:DB:2888:C:H2'	23:DB:2889:C:C6	2.40	0.57
30:DH:87:GLU:HB2	30:DH:89:LYS:NZ	2.19	0.57
30:DH:94:ILE:HG23	30:DH:98:ASP:CB	2.34	0.57
31:DJ:73:VAL:CG2	31:DJ:74:TYR:H	2.13	0.57
33:DL:78:ARG:HA	33:DL:113:ALA:HB2	1.86	0.57
35:DN:42:LYS:HE3	35:DN:42:LYS:O	2.05	0.57
36:DO:27:VAL:HG22	36:DO:38:GLN:O	2.05	0.57
38:DQ:73:ILE:HG13	38:DQ:74:SER:N	2.10	0.57
39:DR:2:TYR:HB2	39:DR:45:GLU:OE1	2.04	0.57
39:DR:6:GLN:HG2	39:DR:7:SER:N	2.19	0.57
44:DX:23:ARG:HA	44:DX:26:PHE:CD1	2.40	0.57
45:DY:2:LYS:HA	45:DY:43:ILE:HG13	1.86	0.57
50:D3:4:LYS:HD2	50:D3:60:CYS:H	1.69	0.57
52:DI:72:THR:CG2	52:DI:112:LYS:HD2	2.34	0.57
1:AA:940:C:H2'	1:AA:941:G:H8	1.69	0.57
1:AA:1422:G:C5'	32:BK:48:PRO:HB3	2.33	0.57
2:AC:46:LEU:HD23	2:AC:75:VAL:HG13	1.86	0.57
2:AC:90:VAL:CG2	2:AC:98:ALA:HB3	2.34	0.57
10:AK:126:ARG:HB2	21:AU:33:ARG:CD	2.32	0.57
22:BA:12:C:H41	43:BW:50:VAL:HG23	1.67	0.57
22:BA:26:C:H2'	22:BA:27:C:O4'	2.05	0.57
23:BB:6:A:O2'	31:BJ:135:GLN:HB2	2.04	0.57
23:BB:27:G:H1'	23:BB:513:A:N6	2.19	0.57
23:BB:244:A:H2'	23:BB:245:G:O4'	2.04	0.57
23:BB:634:C:H2'	23:BB:635:C:C6	2.40	0.57
23:BB:1299:G:H4'	23:BB:1301:A:H1'	1.86	0.57
23:BB:1447:C:H2'	23:BB:1448:G:C8	2.39	0.57
23:BB:1548:A:H2'	23:BB:1549:A:H8	1.70	0.57
23:BB:1593:A:H2'	23:BB:1594:U:C6	2.39	0.57
23:BB:2144:G:C4	23:BB:2146:C:H5'	2.39	0.57
23:BB:2749:A:P	29:BG:3:VAL:HG11	2.44	0.57
24:BV:4:ILE:HD11	24:BV:61:LEU:HD12	1.87	0.57
25:BC:66:PHE:O	25:BC:67:LYS:C	2.42	0.57
28:BF:126:ASN:N	28:BF:126:ASN:ND2	2.51	0.57
31:BJ:61:LYS:HE2	31:BJ:61:LYS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:98:ARG:C	32:BK:99:ILE:HD12	2.23	0.57
34:BM:5:LYS:O	34:BM:5:LYS:HD2	2.05	0.57
34:BM:116:ALA:HA	34:BM:119:LEU:HD23	1.86	0.57
36:BO:98:GLN:O	36:BO:103:VAL:HG21	2.04	0.57
37:BP:2:ASN:H	37:BP:2:ASN:HD22	1.52	0.57
41:BT:8:LEU:CB	44:BX:19:LEU:HD11	2.34	0.57
42:BU:29:SER:O	42:BU:30:SER:HB2	2.04	0.57
42:BU:45:GLN:C	42:BU:47:PRO:HD3	2.24	0.57
48:B1:12:SER:HA	48:B1:50:GLU:CB	2.30	0.57
1:CA:176:C:H2'	1:CA:177:G:N3	2.20	0.57
1:CA:241:G:O2'	1:CA:242:G:H5'	2.05	0.57
1:CA:1307:U:H2'	1:CA:1308:U:H6	1.68	0.57
1:CA:1320:C:OP1	18:CS:69:LYS:HE3	2.05	0.57
2:CC:168:ARG:HG2	2:CC:169:GLU:N	2.19	0.57
5:CF:3:HIS:HA	5:CF:65:GLU:HG3	1.87	0.57
5:CF:9:MET:HE1	17:CR:64:LEU:O	2.05	0.57
8:CI:14:SER:HA	8:CI:68:GLY:O	2.04	0.57
8:CI:87:MET:HB2	8:CI:94:ARG:NH2	2.20	0.57
11:CL:23:LEU:CD2	11:CL:58:ASN:HD22	2.16	0.57
23:DB:259:G:O2'	23:DB:260:G:H5'	2.05	0.57
23:DB:455:C:N4	23:DB:472:A:H2'	2.20	0.57
23:DB:495:G:H4'	40:DS:3:THR:O	2.05	0.57
23:DB:634:C:H2'	23:DB:635:C:C6	2.40	0.57
23:DB:770:G:O2'	23:DB:771:G:H5'	2.05	0.57
23:DB:1172:C:H2'	23:DB:1173:U:O4'	2.04	0.57
23:DB:1225:G:H5''	39:DR:90:ARG:HG3	1.87	0.57
23:DB:2091:C:H3'	23:DB:2092:U:C5'	2.33	0.57
23:DB:2399:G:H1'	48:D1:20:TYR:OH	2.04	0.57
25:DC:139:THR:HA	25:DC:193:GLU:OE2	2.03	0.57
28:DF:162:ASP:HB3	28:DF:166:ARG:HH21	1.69	0.57
31:DJ:44:TYR:HD1	31:DJ:45:THR:H	1.50	0.57
32:DK:43:ILE:HD13	32:DK:56:ASP:HB3	1.87	0.57
38:DQ:116:LEU:H	38:DQ:116:LEU:HD22	1.70	0.57
46:DZ:20:ASN:O	46:DZ:21:VAL:HB	2.04	0.57
50:D3:4:LYS:HG3	50:D3:61:LEU:HB2	1.86	0.57
51:D4:23:ILE:CD1	51:D4:24:ARG:H	2.16	0.57
51:D4:26:ILE:HG23	51:D4:27:CYS:N	2.19	0.57
1:AA:239:U:H6	1:AA:239:U:C5'	2.18	0.57
1:AA:384:G:H2'	1:AA:385:C:C6	2.39	0.57
1:AA:672:U:H2'	1:AA:673:A:C8	2.39	0.57
1:AA:796:C:H5'	10:AK:128:VAL:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:25:ARG:HH12	3:AD:30:LYS:HG2	1.69	0.57
23:BB:170:U:H2'	23:BB:171:U:H6	1.69	0.57
23:BB:660:C:H2'	23:BB:661:A:C8	2.40	0.57
23:BB:764:A:H5''	25:BC:208:GLY:CA	2.35	0.57
23:BB:903:C:H2'	23:BB:904:G:C8	2.40	0.57
23:BB:1812:U:H1'	25:BC:45:ASN:OD1	2.05	0.57
23:BB:2331:G:H2'	23:BB:2332:C:C6	2.40	0.57
23:BB:2895:G:H2'	23:BB:2896:C:H6	1.68	0.57
25:BC:20:ASN:HB2	25:BC:203:VAL:CG1	2.31	0.57
26:BD:4:LEU:HD13	26:BD:79:LEU:HD11	1.87	0.57
32:BK:7:MET:HE1	32:BK:20:MET:HA	1.86	0.57
35:BN:34:ILE:HG12	35:BN:34:ILE:O	2.05	0.57
36:BO:49:VAL:HG22	36:BO:50:ALA:N	2.19	0.57
36:BO:55:GLU:HB2	36:BO:60:GLU:O	2.05	0.57
36:BO:105:ALA:O	36:BO:109:ALA:HB2	2.05	0.57
39:BR:1:MET:HA	39:BR:46:GLU:HB3	1.86	0.57
39:BR:79:ARG:HD3	39:BR:86:GLN:CD	2.25	0.57
50:B3:15:LYS:HG2	50:B3:19:GLY:HA2	1.87	0.57
3:CD:147:LYS:HD3	3:CD:148:ALA:N	2.19	0.57
11:CL:23:LEU:HD22	11:CL:58:ASN:HD22	1.69	0.57
25:DC:163:ILE:HG12	25:DC:173:LEU:HD23	1.86	0.57
25:DC:247:TRP:HZ2	25:DC:254:LYS:HZ3	1.52	0.57
26:DD:62:LYS:H	26:DD:62:LYS:HZ2	1.52	0.57
27:DE:5:LEU:HA	27:DE:11:ALA:O	2.05	0.57
30:DH:3:VAL:CG2	30:DH:37:VAL:HG21	2.34	0.57
30:DH:6:LEU:HD12	30:DH:36:ALA:N	2.20	0.57
30:DH:127:GLU:HA	30:DH:144:VAL:O	2.04	0.57
32:DK:64:ARG:O	32:DK:65:THR:HG23	2.04	0.57
36:DO:108:ASP:O	36:DO:112:GLU:HG3	2.04	0.57
45:DY:6:ILE:CG1	45:DY:35:VAL:H	2.13	0.57
52:DI:79:LEU:HD11	52:DI:131:THR:OG1	2.04	0.57
1:AA:85:U:H4'	1:AA:86:G:H4'	1.86	0.57
1:AA:129:A:H1'	1:AA:130:A:C8	2.40	0.57
1:AA:160:A:H2'	1:AA:161:A:O4'	2.04	0.57
1:AA:528:C:H41	11:AL:45:ASN:CG	2.07	0.57
1:AA:940:C:H2'	1:AA:941:G:C8	2.40	0.57
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.40	0.57
1:AA:1294:G:H2'	1:AA:1295:U:C6	2.40	0.57
7:AH:26:MET:HB2	7:AH:27:PRO:HD2	1.86	0.57
10:AK:52:ARG:HD2	10:AK:53:GLY:N	2.19	0.57
10:AK:92:ARG:HB3	10:AK:92:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:416:U:H2'	23:BB:417:C:C6	2.39	0.57
23:BB:448:U:H1'	27:BE:79:ARG:HG3	1.85	0.57
23:BB:2218:G:H2'	23:BB:2219:U:C6	2.40	0.57
23:BB:2688:G:H1'	23:BB:2721:A:H61	1.69	0.57
23:BB:2804:U:H2'	23:BB:2805:C:C6	2.38	0.57
24:BV:42:LEU:HB2	24:BV:47:VAL:HG21	1.87	0.57
24:BV:80:HIS:HB2	24:BV:85:LYS:HG3	1.85	0.57
27:BE:122:GLU:HB3	27:BE:152:GLU:HB2	1.85	0.57
28:BF:12:VAL:HG22	28:BF:27:VAL:HG11	1.86	0.57
33:BL:38:GLN:NE2	33:BL:39:LYS:H	2.03	0.57
33:BL:77:ILE:HG22	33:BL:78:ARG:N	2.19	0.57
34:BM:8:LYS:H	34:BM:8:LYS:HE2	1.70	0.57
35:BN:24:MET:HE2	35:BN:44:LEU:HD13	1.86	0.57
36:BO:58:ILE:HG13	36:BO:59:ALA:N	2.19	0.57
43:BW:45:HIS:N	43:BW:45:HIS:ND1	2.52	0.57
1:CA:384:G:H2'	1:CA:385:C:C6	2.40	0.57
1:CA:922:G:H2'	1:CA:923:A:H8	1.70	0.57
3:CD:55:ARG:HH11	3:CD:55:ARG:CG	2.17	0.57
11:CL:72:ASN:ND2	11:CL:73:LEU:H	2.03	0.57
23:DB:863:A:H2'	23:DB:864:G:C8	2.40	0.57
23:DB:1064:C:O4'	52:DI:90:GLY:HA2	2.04	0.57
23:DB:1098:A:O3'	52:DI:4:VAL:N	2.36	0.57
23:DB:1301:A:O2'	23:DB:1302:A:H2'	2.04	0.57
23:DB:1346:G:O2'	23:DB:1347:A:H5'	2.05	0.57
23:DB:1656:C:OP1	26:DD:141:ARG:HD2	2.04	0.57
23:DB:1759:A:H4'	23:DB:2715:C:O4'	2.05	0.57
23:DB:2135:A:H61	23:DB:2156:G:C2'	2.18	0.57
23:DB:2220:U:H2'	23:DB:2221:G:H8	1.70	0.57
23:DB:2729:G:H2'	23:DB:2730:C:C6	2.40	0.57
24:DV:26:PHE:CE2	24:DV:44:HIS:HA	2.39	0.57
24:DV:26:PHE:HE2	24:DV:44:HIS:HA	1.70	0.57
25:DC:22:GLU:N	25:DC:202:ARG:NE	2.52	0.57
25:DC:208:GLY:HA2	25:DC:212:TRP:CB	2.34	0.57
26:DD:14:ILE:HG23	26:DD:19:GLY:HA3	1.86	0.57
28:DF:7:TYR:OH	28:DF:29:ARG:HG2	2.04	0.57
30:DH:65:ALA:HA	30:DH:68:ARG:HB2	1.87	0.57
32:DK:113:MET:SD	32:DK:116:ILE:HD11	2.45	0.57
38:DQ:52:ARG:HH21	38:DQ:56:PHE:HE2	1.52	0.57
43:DW:21:GLY:HA2	43:DW:25:PHE:CE1	2.40	0.57
50:D3:24:LYS:NZ	50:D3:24:LYS:HB3	2.20	0.57
1:AA:676:A:H1'	10:AK:116:PRO:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:978:A:H5'	1:AA:1362:A:N6	2.19	0.57
1:AA:1129:C:H5''	8:AI:17:ARG:HH22	1.70	0.57
3:AD:32:LYS:O	3:AD:35:GLN:HB2	2.05	0.57
9:AJ:67:ILE:HG13	13:AN:95:LEU:HD13	1.87	0.57
12:AM:22:TYR:HB3	12:AM:69:ARG:NH2	2.20	0.57
22:BA:20:G:H2'	22:BA:21:G:C8	2.40	0.57
23:BB:182:A:H2'	23:BB:183:C:C6	2.40	0.57
23:BB:910:A:H2'	23:BB:911:A:C8	2.39	0.57
23:BB:943:A:P	33:BL:42:SER:HB3	2.44	0.57
23:BB:997:G:C5'	38:BQ:91:ARG:HG3	2.32	0.57
23:BB:2064:C:H2'	23:BB:2065:C:H6	1.69	0.57
23:BB:2650:U:H2'	23:BB:2651:C:C6	2.40	0.57
23:BB:2800:A:N3	23:BB:2801:G:H1'	2.20	0.57
23:BB:2898:U:H2'	23:BB:2899:A:C8	2.40	0.57
26:BD:84:LEU:CD2	26:BD:86:GLU:HB2	2.35	0.57
28:BF:41:GLU:HB3	28:BF:44:ALA:HB3	1.87	0.57
32:BK:73:ASP:OD1	32:BK:74:GLY:N	2.37	0.57
34:BM:88:ASN:N	34:BM:88:ASN:ND2	2.49	0.57
40:BS:70:LYS:O	40:BS:71:VAL:HB	2.04	0.57
1:CA:372:C:H4'	1:CA:373:A:H5'	1.86	0.57
4:CE:39:GLY:HA3	4:CE:116:VAL:HB	1.85	0.57
7:CH:103:VAL:HG22	7:CH:124:ILE:HA	1.85	0.57
11:CL:23:LEU:C	11:CL:25:ALA:H	2.07	0.57
15:CP:28:ARG:CD	15:CP:29:ASN:H	2.18	0.57
16:CQ:10:ARG:NH2	16:CQ:55:GLY:H	2.03	0.57
23:DB:151:C:H2'	23:DB:152:A:C8	2.40	0.57
23:DB:784:G:H5''	25:DC:225:ASN:ND2	2.16	0.57
23:DB:1099:G:O5'	52:DI:3:LYS:C	2.42	0.57
23:DB:1583:A:H4'	23:DB:1585:C:C4	2.40	0.57
23:DB:2528:U:O2'	23:DB:2529:G:H3'	2.05	0.57
25:DC:56:GLY:HA3	25:DC:214:GLY:H	1.70	0.57
25:DC:107:LYS:CB	25:DC:194:VAL:HG21	2.32	0.57
26:DD:46:ARG:H	26:DD:82:PHE:HA	1.70	0.57
26:DD:153:GLY:C	26:DD:155:VAL:H	2.08	0.57
31:DJ:84:ILE:HD12	31:DJ:85:LYS:N	2.15	0.57
33:DL:108:ALA:C	33:DL:109:LYS:HD3	2.25	0.57
33:DL:126:ARG:O	33:DL:127:VAL:O	2.23	0.57
40:DS:46:LEU:HA	40:DS:49:LYS:CB	2.15	0.57
43:DW:24:ARG:HG3	43:DW:57:THR:O	2.05	0.57
48:D1:20:TYR:O	48:D1:21:THR:HB	2.05	0.57
1:AA:72:A:H2'	1:AA:73:C:H6	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:803:G:H2'	1:AA:804:U:C6	2.40	0.57
1:AA:967:C:OP1	1:AA:969:A:H5'	2.04	0.57
2:AC:71:ARG:HB3	2:AC:74:ILE:HG22	1.87	0.57
4:AE:90:GLY:O	4:AE:128:GLY:HA3	2.04	0.57
5:AF:3:HIS:HB2	5:AF:92:THR:CB	2.35	0.57
15:AP:12:LYS:HD2	15:AP:13:LYS:HE3	1.87	0.57
15:AP:18:GLN:NE2	15:AP:35:ARG:HD2	2.20	0.57
16:AQ:45:VAL:HG12	16:AQ:46:HIS:H	1.70	0.57
21:AU:13:VAL:O	21:AU:14:ALA:HB2	2.05	0.57
23:BB:1570:A:H2'	23:BB:1571:A:C8	2.40	0.57
23:BB:1676:A:C1'	26:BD:134:HIS:HB3	2.35	0.57
23:BB:1759:A:H4'	23:BB:2715:C:O4'	2.04	0.57
23:BB:2270:A:H4'	43:BW:18:LYS:HG2	1.87	0.57
25:BC:12:ARG:NE	25:BC:18:VAL:HG11	2.19	0.57
25:BC:159:THR:C	25:BC:160:TYR:HD2	2.07	0.57
25:BC:225:ASN:O	25:BC:227:VAL:N	2.38	0.57
25:BC:257:ARG:NH1	25:BC:257:ARG:HA	2.20	0.57
32:BK:47:ILE:HG22	32:BK:49:ARG:H	1.68	0.57
33:BL:94:THR:HB	33:BL:103:ILE:CG1	2.34	0.57
35:BN:57:THR:OG1	35:BN:61:ALA:HB3	2.04	0.57
36:BO:8:ILE:O	36:BO:10:ARG:N	2.38	0.57
37:BP:7:LEU:HD13	37:BP:7:LEU:O	2.05	0.57
43:BW:45:HIS:HA	43:BW:75:ASN:CB	2.34	0.57
45:BY:16:LEU:HD12	45:BY:16:LEU:N	2.19	0.57
50:B3:12:ARG:NH2	50:B3:55:GLY:HA3	2.20	0.57
1:CA:903:G:H2'	1:CA:904:U:C6	2.40	0.57
1:CA:1030:U:H5''	1:CA:1031:C:C5	2.38	0.57
1:CA:1270:G:H2'	1:CA:1271:A:C8	2.39	0.57
4:CE:33:THR:HB	4:CE:49:TYR:CE1	2.39	0.57
15:CP:12:LYS:O	15:CP:13:LYS:HB2	2.05	0.57
20:CB:11:ALA:HA	20:CB:14:HIS:CE1	2.40	0.57
23:DB:18:U:H2'	23:DB:19:A:C8	2.40	0.57
23:DB:1098:A:O4'	52:DI:3:LYS:HB3	2.04	0.57
23:DB:1131:G:OP1	31:DJ:83:GLY:HA2	2.04	0.57
23:DB:1447:C:H2'	23:DB:1448:G:C8	2.40	0.57
23:DB:1534:U:H2'	23:DB:1536:C:C4	2.40	0.57
23:DB:1820:U:H5	25:DC:176:ARG:NH2	2.02	0.57
23:DB:2679:A:O2'	23:DB:2680:U:H5'	2.05	0.57
25:DC:123:ILE:HG12	25:DC:135:PRO:CD	2.35	0.57
26:DD:114:LYS:HB2	26:DD:114:LYS:NZ	2.20	0.57
27:DE:42:GLY:O	27:DE:43:THR:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:134:LEU:HD22	27:DE:134:LEU:N	2.20	0.57
28:DF:83:PRO:C	28:DF:84:ILE:HG13	2.24	0.57
31:DJ:98:GLU:HG3	31:DJ:126:ALA:CB	2.34	0.57
32:DK:70:ARG:HB3	32:DK:76:VAL:HG13	1.86	0.57
34:DM:4:PRO:HD3	34:DM:47:GLU:OE2	2.04	0.57
40:DS:7:HIS:CD2	40:DS:10:ALA:HB2	2.40	0.57
43:DW:19:ARG:HB2	43:DW:19:ARG:NH1	2.19	0.57
52:DI:54:ILE:HD13	52:DI:55:PRO:N	2.20	0.57
1:AA:176:C:H2'	1:AA:177:G:N3	2.20	0.56
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.19	0.56
1:AA:1329:A:OP1	12:AM:28:ARG:HB2	2.04	0.56
3:AD:111:ALA:O	3:AD:114:ARG:HB3	2.04	0.56
3:AD:196:GLU:HA	3:AD:199:ILE:HD12	1.85	0.56
6:AG:4:ARG:CZ	6:AG:5:VAL:H	2.18	0.56
15:AP:23:ASP:O	15:AP:26:ASN:HB2	2.05	0.56
15:AP:51:ARG:O	15:AP:52:LEU:HD13	2.03	0.56
18:AS:44:ILE:HA	18:AS:61:VAL:HB	1.86	0.56
23:BB:977:G:O2'	23:BB:978:G:H5'	2.04	0.56
23:BB:2617:U:C2'	23:BB:2618:G:H5'	2.35	0.56
25:BC:15:VAL:HG12	25:BC:16:VAL:HG23	1.86	0.56
26:BD:31:ALA:HB2	26:BD:49:GLN:NE2	2.19	0.56
27:BE:120:VAL:H	27:BE:189:THR:CG2	2.15	0.56
33:BL:77:ILE:HD13	33:BL:92:LEU:HD13	1.87	0.56
35:BN:1:MET:HE1	35:BN:2:ARG:HB2	1.85	0.56
35:BN:48:VAL:O	35:BN:52:ILE:HG12	2.05	0.56
38:BQ:106:THR:O	38:BQ:109:VAL:HG22	2.05	0.56
39:BR:90:ARG:NH2	39:BR:92:TRP:HB3	2.20	0.56
48:B1:31:GLU:HB3	48:B1:32:LYS:HE3	1.86	0.56
1:CA:1220:G:P	13:CN:52:ARG:HH22	2.28	0.56
5:CF:81:ASN:O	5:CF:84:VAL:HG12	2.04	0.56
14:CO:48:ASP:CG	14:CO:51:SER:HB2	2.25	0.56
20:CB:46:VAL:HA	20:CB:49:PHE:CD2	2.40	0.56
23:DB:278:A:O2'	23:DB:279:A:H5'	2.04	0.56
23:DB:299:A:H2	23:DB:319:G:N3	2.03	0.56
23:DB:534:U:H5'	38:DQ:41:ALA:CA	2.35	0.56
23:DB:796:C:H2'	23:DB:797:G:C8	2.39	0.56
23:DB:1100:C:H2'	23:DB:1101:U:H6	1.70	0.56
23:DB:1537:G:H3'	23:DB:1537:G:N3	2.20	0.56
23:DB:2150:C:H2'	23:DB:2151:U:C6	2.39	0.56
23:DB:2784:U:H4'	26:DD:42:ASN:H	1.69	0.56
23:DB:2867:G:N3	23:DB:2867:G:C2'	2.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:234:GLY:HA3	25:DC:237:ARG:NH1	2.20	0.56
26:DD:27:ILE:HD13	26:DD:28:GLU:N	2.20	0.56
26:DD:118:PHE:HA	26:DD:164:GLN:HG2	1.87	0.56
26:DD:125:TRP:CD1	26:DD:127:PHE:HB2	2.35	0.56
27:DE:49:ARG:HG3	27:DE:52:VAL:HG22	1.87	0.56
27:DE:126:VAL:HG11	27:DE:132:LYS:HZ2	1.70	0.56
30:DH:82:SER:O	30:DH:83:LYS:HD2	2.04	0.56
34:DM:127:LYS:HD3	34:DM:128:THR:H	1.70	0.56
35:DN:45:ARG:HE	35:DN:97:ILE:HD11	1.69	0.56
37:DP:28:LYS:NZ	37:DP:44:GLY:N	2.52	0.56
40:DS:4:ILE:HG12	40:DS:106:VAL:HG12	1.85	0.56
1:AA:177:G:H5'	19:AT:59:ARG:HH21	1.70	0.56
1:AA:784:A:H2'	1:AA:785:G:H8	1.69	0.56
1:AA:1170:A:H8	1:AA:1170:A:O5'	1.88	0.56
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.41	0.56
1:AA:1490:U:H5'	1:AA:1491:G:OP2	2.05	0.56
10:AK:61:ALA:O	10:AK:64:VAL:HG12	2.06	0.56
13:AN:65:GLN:HB2	13:AN:78:LEU:HD22	1.87	0.56
22:BA:28:C:H5'	22:BA:29:A:OP2	2.05	0.56
23:BB:18:U:H2'	23:BB:19:A:H8	1.69	0.56
23:BB:37:C:O2'	27:BE:46:GLN:HB3	2.04	0.56
23:BB:832:U:H2'	23:BB:833:A:C8	2.39	0.56
23:BB:992:C:H1'	39:BR:91:GLN:HG3	1.87	0.56
23:BB:1121:C:H2'	23:BB:1122:G:O4'	2.05	0.56
23:BB:1550:C:H2'	23:BB:1551:A:H8	1.69	0.56
23:BB:2189:U:H2'	23:BB:2190:G:H8	1.70	0.56
23:BB:2246:G:H2'	23:BB:2247:A:H8	1.70	0.56
26:BD:35:THR:HG22	26:BD:46:ARG:HH22	1.70	0.56
28:BF:133:GLU:OE1	28:BF:147:ARG:HD3	2.05	0.56
31:BJ:73:VAL:HG23	31:BJ:74:TYR:H	1.69	0.56
33:BL:13:LYS:O	33:BL:14:LYS:HB2	2.05	0.56
33:BL:63:LYS:CG	50:B3:11:LYS:HA	2.32	0.56
34:BM:33:LEU:HB2	34:BM:101:VAL:HG21	1.87	0.56
35:BN:107:ASN:OD1	40:BS:40:ASN:HB3	2.04	0.56
39:BR:22:LEU:O	39:BR:96:VAL:HG22	2.05	0.56
39:BR:59:ILE:O	39:BR:59:ILE:HG13	2.05	0.56
41:BT:48:GLN:HG3	41:BT:49:LYS:N	2.20	0.56
43:BW:21:GLY:HA3	43:BW:32:ALA:CB	2.34	0.56
47:B0:35:GLU:C	47:B0:37:HIS:H	2.06	0.56
50:B3:29:ARG:HA	50:B3:33:THR:CG2	2.35	0.56
52:BI:109:ALA:HB1	52:BI:124:MET:CG	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:449:G:H2'	1:CA:450:G:C8	2.39	0.56
1:CA:1084:G:H5'	1:CA:1102:A:OP2	2.05	0.56
6:CG:63:VAL:HG12	6:CG:126:ALA:HB1	1.88	0.56
10:CK:121:ARG:HH21	21:CU:34:ARG:NE	2.03	0.56
13:CN:50:LEU:HD12	13:CN:51:PRO:HD3	1.87	0.56
23:DB:723:C:H2'	23:DB:724:U:C6	2.41	0.56
23:DB:1709:U:H2'	23:DB:1710:G:H8	1.69	0.56
23:DB:1714:U:H3'	23:DB:1715:G:C5'	2.35	0.56
23:DB:1803:A:O2'	25:DC:254:LYS:HD3	2.04	0.56
23:DB:2386:A:H2'	23:DB:2387:U:C6	2.40	0.56
23:DB:2556:C:H2'	23:DB:2557:G:O4'	2.05	0.56
23:DB:2650:U:H2'	23:DB:2651:C:C6	2.40	0.56
25:DC:33:LEU:HD22	25:DC:34:GLU:N	2.20	0.56
26:DD:18:ASP:C	26:DD:20:VAL:H	2.07	0.56
30:DH:6:LEU:HB2	30:DH:35:LYS:CB	2.35	0.56
31:DJ:102:GLU:CG	31:DJ:124:VAL:HG12	2.30	0.56
34:DM:24:THR:O	34:DM:98:PRO:HA	2.04	0.56
34:DM:43:ALA:H	34:DM:91:TYR:HB2	1.70	0.56
37:DP:55:HIS:C	37:DP:57:ALA:N	2.58	0.56
39:DR:22:LEU:HD12	39:DR:24:LYS:N	2.15	0.56
39:DR:38:VAL:HA	39:DR:61:ALA:HB3	1.87	0.56
42:DU:66:VAL:HG13	42:DU:67:SER:N	2.19	0.56
43:DW:67:LYS:HG2	43:DW:71:LYS:CA	2.35	0.56
49:D2:26:ASN:O	49:D2:29:GLN:HB2	2.05	0.56
51:D4:6:SER:HA	51:D4:23:ILE:HD13	1.86	0.56
1:AA:163:C:H2'	1:AA:164:G:O4'	2.06	0.56
1:AA:389:A:H3'	1:AA:390:U:H6	1.71	0.56
1:AA:560:A:H4'	1:AA:561:U:H5''	1.86	0.56
1:AA:1244:G:H2'	1:AA:1245:C:C6	2.40	0.56
1:AA:1280:A:O4'	9:AJ:43:PRO:HG3	2.06	0.56
2:AC:39:ARG:HG3	2:AC:54:ILE:HG21	1.87	0.56
3:AD:60:VAL:HB	3:AD:194:ILE:HG13	1.86	0.56
6:AG:132:THR:HG22	6:AG:136:LYS:HG3	1.87	0.56
8:AI:118:ARG:NH1	8:AI:122:ARG:HE	2.03	0.56
13:AN:12:ARG:HH21	13:AN:58:ARG:HH12	1.53	0.56
13:AN:30:ILE:HG21	13:AN:44:VAL:HG21	1.88	0.56
13:AN:42:ASN:O	13:AN:46:LYS:HG3	2.05	0.56
15:AP:41:PRO:O	15:AP:42:ILE:HD13	2.06	0.56
16:AQ:16:MET:CB	16:AQ:19:SER:HB2	2.35	0.56
22:BA:32:U:H2'	22:BA:33:G:O4'	2.04	0.56
23:BB:296:U:H2'	23:BB:297:G:H8	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:634:C:H2'	23:BB:635:C:H6	1.70	0.56
23:BB:1038:G:H2'	23:BB:1039:A:C8	2.41	0.56
23:BB:1060:U:H5	52:BI:131:THR:HG22	1.70	0.56
23:BB:1229:C:H2'	23:BB:1230:A:C8	2.40	0.56
23:BB:1258:U:O4'	27:BE:79:ARG:HD3	2.06	0.56
23:BB:1534:U:HO2'	23:BB:1535:A:H8	1.53	0.56
23:BB:1802:A:H2'	23:BB:1803:A:C8	2.39	0.56
23:BB:1951:U:H2'	23:BB:1953:A:OP2	2.05	0.56
23:BB:2443:C:O2'	23:BB:2444:G:H5'	2.05	0.56
23:BB:2471:A:HO2'	23:BB:2472:G:H8	1.49	0.56
23:BB:2528:U:O2'	23:BB:2529:G:H3'	2.06	0.56
23:BB:2646:C:H2'	23:BB:2647:U:O4'	2.04	0.56
24:BV:84:PRO:HG3	34:BM:127:LYS:CE	2.34	0.56
25:BC:80:LEU:HA	25:BC:91:ALA:HA	1.87	0.56
25:BC:164:VAL:HB	25:BC:167:ASP:OD2	2.05	0.56
25:BC:216:ARG:HH11	25:BC:217:PRO:HD2	1.70	0.56
26:BD:16:THR:CA	37:BP:79:VAL:HB	2.31	0.56
26:BD:52:THR:HG22	26:BD:76:GLY:N	2.20	0.56
26:BD:115:GLY:O	35:BN:3:HIS:NE2	2.37	0.56
27:BE:6:LYS:NZ	27:BE:119:ILE:H	2.03	0.56
27:BE:149:ILE:HD11	27:BE:180:LEU:HD23	1.87	0.56
29:BG:5:LYS:HB3	29:BG:68:ARG:CZ	2.35	0.56
29:BG:122:ALA:HA	29:BG:131:VAL:O	2.05	0.56
30:BH:82:SER:HB3	30:BH:90:LEU:HD23	1.86	0.56
32:BK:64:ARG:N	32:BK:83:ALA:HB3	2.09	0.56
32:BK:70:ARG:CB	32:BK:76:VAL:HG22	2.31	0.56
33:BL:79:LEU:CA	33:BL:113:ALA:HB3	2.31	0.56
34:BM:3:GLN:HG2	34:BM:47:GLU:N	2.20	0.56
34:BM:73:ILE:HD11	34:BM:92:TRP:H	1.71	0.56
37:BP:22:GLY:HA2	37:BP:93:LYS:HE2	1.87	0.56
38:BQ:4:LYS:O	38:BQ:7:VAL:HG13	2.05	0.56
42:BU:11:ILE:HG23	42:BU:20:LYS:O	2.04	0.56
48:B1:31:GLU:O	48:B1:33:LEU:HG	2.06	0.56
52:BI:10:LEU:HD13	52:BI:12:VAL:HG13	1.87	0.56
1:CA:16:A:O2'	1:CA:17:U:H5'	2.05	0.56
1:CA:85:U:H4'	1:CA:86:G:H5'	1.86	0.56
1:CA:415:A:H3'	1:CA:416:G:H8	1.71	0.56
1:CA:1053:G:HO2'	1:CA:1199:U:H5	1.52	0.56
1:CA:1217:C:H2'	1:CA:1218:C:C6	2.40	0.56
2:CC:49:ALA:HB2	2:CC:74:ILE:HG21	1.87	0.56
4:CE:47:PHE:HE1	4:CE:137:ARG:HE	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CF:10:VAL:HG12	5:CF:11:HIS:N	2.19	0.56
16:CQ:10:ARG:CZ	16:CQ:11:VAL:H	2.18	0.56
20:CB:85:SER:O	20:CB:86:CYS:HB2	2.05	0.56
23:DB:286:U:H2'	23:DB:287:G:H8	1.69	0.56
23:DB:1275:A:N7	35:DN:16:HIS:ND1	2.53	0.56
23:DB:1368:G:C5'	49:D2:25:LYS:HG2	2.34	0.56
23:DB:1553:A:O2'	23:DB:1554:U:H2'	2.05	0.56
23:DB:2143:C:H3'	23:DB:2144:G:H8	1.70	0.56
23:DB:2283:C:H5''	23:DB:2389:G:O2'	2.05	0.56
23:DB:2527:C:H4'	51:D4:34:LYS:O	2.05	0.56
23:DB:2804:U:H2'	23:DB:2805:C:C6	2.39	0.56
26:DD:34:VAL:HA	26:DD:90:PHE:HA	1.86	0.56
27:DE:2:GLU:HA	27:DE:16:GLU:HB3	1.85	0.56
27:DE:67:ARG:N	27:DE:67:ARG:HD2	2.20	0.56
27:DE:126:VAL:HG11	27:DE:132:LYS:HZ3	1.70	0.56
28:DF:172:PHE:HD1	28:DF:172:PHE:H	1.49	0.56
29:DG:6:ALA:H	29:DG:7:PRO:CD	2.18	0.56
30:DH:133:GLN:HB3	30:DH:139:PHE:HB3	1.86	0.56
32:DK:66:LYS:HA	32:DK:79:PHE:O	2.06	0.56
33:DL:90:VAL:HG13	33:DL:122:VAL:HG11	1.87	0.56
39:DR:97:LYS:O	39:DR:98:ILE:HB	2.06	0.56
41:DT:53:VAL:HB	41:DT:93:LEU:HD11	1.87	0.56
42:DU:79:ALA:O	42:DU:96:LYS:HB3	2.05	0.56
52:DI:79:LEU:HD12	52:DI:135:MET:SD	2.46	0.56
52:DI:102:ARG:HG3	52:DI:141:ASP:HB2	1.87	0.56
52:DI:121:ILE:HD13	52:DI:121:ILE:N	2.20	0.56
1:AA:313:A:H2'	1:AA:314:C:C6	2.41	0.56
1:AA:449:G:H2'	1:AA:450:G:C8	2.40	0.56
1:AA:985:C:H2'	1:AA:986:U:C6	2.41	0.56
1:AA:1115:U:H2'	1:AA:1116:U:C6	2.41	0.56
6:AG:72:VAL:HA	6:AG:89:GLU:HA	1.86	0.56
8:AI:56:MET:HE2	8:AI:57:VAL:H	1.70	0.56
13:AN:9:GLU:HB2	13:AN:60:ARG:NH2	2.20	0.56
16:AQ:74:LEU:HD22	16:AQ:75:VAL:N	2.21	0.56
17:AR:52:ARG:HB3	17:AR:52:ARG:NH1	2.14	0.56
20:AB:163:ILE:CG2	20:AB:164:ASP:N	2.64	0.56
23:BB:82:U:H2'	23:BB:83:A:C8	2.41	0.56
23:BB:310:A:H5''	42:BU:14:THR:O	2.06	0.56
23:BB:644:A:O2'	23:BB:645:C:H2'	2.05	0.56
23:BB:737:C:O2'	23:BB:738:G:H5'	2.05	0.56
23:BB:1163:G:O2'	23:BB:1164:C:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1181:U:H2'	23:BB:1182:G:C8	2.40	0.56
23:BB:1412:U:H2'	23:BB:1413:A:H8	1.69	0.56
23:BB:1464:G:H2'	23:BB:1465:G:H8	1.69	0.56
23:BB:2304:G:N2	23:BB:2312:U:H3	2.00	0.56
26:BD:170:VAL:HG11	26:BD:194:PRO:CB	2.35	0.56
31:BJ:45:THR:CB	38:BQ:63:ARG:HH22	2.18	0.56
33:BL:27:LEU:HD12	33:BL:27:LEU:N	2.16	0.56
34:BM:11:LYS:HG2	34:BM:12:MET:N	2.20	0.56
35:BN:38:LEU:HB2	35:BN:39:PRO:HD3	1.86	0.56
36:BO:21:LEU:HD13	36:BO:22:GLY:N	2.21	0.56
39:BR:5:PHE:CG	39:BR:6:GLN:N	2.73	0.56
43:BW:44:PHE:CE2	43:BW:60:ALA:HB3	2.41	0.56
1:CA:57:G:H2'	1:CA:58:C:C6	2.40	0.56
1:CA:160:A:H2'	1:CA:161:A:O4'	2.04	0.56
3:CD:171:GLU:HG3	3:CD:182:LYS:HD2	1.87	0.56
4:CE:113:VAL:HG23	4:CE:114:LEU:N	2.20	0.56
5:CF:51:ILE:HD13	5:CF:86:ARG:HG3	1.87	0.56
11:CL:80:LEU:HB3	11:CL:97:VAL:CG2	2.35	0.56
12:CM:23:GLY:N	12:CM:69:ARG:HH22	2.03	0.56
12:CM:52:ILE:HD12	12:CM:55:LEU:HD12	1.88	0.56
18:CS:38:THR:HA	18:CS:69:LYS:HA	1.88	0.56
23:DB:90:U:H3'	23:DB:91:A:C5'	2.35	0.56
23:DB:493:G:H2'	23:DB:494:G:O4'	2.05	0.56
23:DB:1700:A:H2'	23:DB:1701:A:H5'	1.86	0.56
23:DB:2045:C:H5''	47:D0:14:MET:HE3	1.86	0.56
25:DC:163:ILE:HG22	25:DC:164:VAL:H	1.71	0.56
25:DC:173:LEU:HD12	25:DC:183:VAL:HG11	1.87	0.56
25:DC:179:GLU:HG3	25:DC:266:ILE:HG22	1.85	0.56
25:DC:225:ASN:N	25:DC:226:PRO:HD3	2.19	0.56
31:DJ:40:HIS:CA	38:DQ:69:ARG:HH12	2.14	0.56
31:DJ:132:HIS:HB3	31:DJ:136:GLN:OE1	2.04	0.56
33:DL:79:LEU:H	33:DL:113:ALA:HB2	1.69	0.56
37:DP:52:ARG:HB3	37:DP:60:VAL:HG11	1.85	0.56
43:DW:73:PRO:HB2	43:DW:74:LYS:HD2	1.87	0.56
45:DY:6:ILE:HG12	45:DY:35:VAL:O	2.06	0.56
46:DZ:47:LYS:HG2	46:DZ:48:GLN:O	2.05	0.56
47:D0:36:LYS:HE3	47:D0:48:TYR:HE1	1.71	0.56
47:D0:41:HIS:CE1	47:D0:42:ILE:HG22	2.41	0.56
48:D1:15:GLY:HA3	48:D1:47:ILE:CG2	2.36	0.56
1:AA:86:G:H4'	1:AA:86:G:OP1	2.05	0.56
3:AD:25:ARG:HH11	3:AD:30:LYS:HE3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:54:LEU:CD1	5:AF:55:HIS:H	2.18	0.56
11:AL:37:TYR:HB2	11:AL:51:VAL:HG23	1.88	0.56
12:AM:95:PRO:HD3	12:AM:108:ARG:HG2	1.87	0.56
23:BB:322:A:H5'	23:BB:340:A:H1'	1.86	0.56
23:BB:729:G:H5''	23:BB:730:A:H5''	1.86	0.56
23:BB:1197:G:H2'	23:BB:1198:U:H6	1.70	0.56
23:BB:1700:A:H2'	23:BB:1701:A:H5'	1.87	0.56
23:BB:2150:C:H2'	23:BB:2151:U:O4'	2.05	0.56
23:BB:2314:A:H2'	23:BB:2315:G:C8	2.40	0.56
23:BB:2836:U:H2'	23:BB:2837:A:C8	2.41	0.56
26:BD:118:PHE:CA	26:BD:164:GLN:HG3	2.35	0.56
27:BE:118:LEU:HD23	27:BE:118:LEU:N	2.21	0.56
31:BJ:41:LYS:HD2	31:BJ:44:TYR:HB2	1.87	0.56
33:BL:82:LEU:HD22	33:BL:86:GLU:OE1	2.06	0.56
33:BL:126:ARG:HE	33:BL:127:VAL:N	2.04	0.56
34:BM:14:LYS:HB3	34:BM:14:LYS:NZ	2.20	0.56
34:BM:102:LEU:HB3	34:BM:104:GLU:OE2	2.05	0.56
36:BO:54:VAL:O	36:BO:62:LEU:HD23	2.06	0.56
39:BR:54:VAL:CB	39:BR:54:VAL:HA	2.17	0.56
41:BT:77:ARG:HG2	41:BT:78:SER:H	1.69	0.56
42:BU:82:VAL:HB	42:BU:94:PHE:CD2	2.40	0.56
46:BZ:5:ILE:HB	46:BZ:51:VAL:HG13	1.86	0.56
50:B3:27:ASN:HB3	50:B3:28:LEU:HG	1.88	0.56
52:BI:49:GLU:CG	52:BI:54:ILE:HD11	2.36	0.56
1:CA:994:A:C5	1:CA:1216:A:H4'	2.40	0.56
1:CA:1021:A:H2'	1:CA:1022:A:O4'	2.06	0.56
1:CA:1085:U:H3'	1:CA:1086:U:C5	2.41	0.56
1:CA:1141:C:H2'	1:CA:1142:G:H8	1.70	0.56
1:CA:1219:A:H2'	1:CA:1220:G:C8	2.40	0.56
4:CE:81:GLN:HE22	4:CE:148:SER:HA	1.70	0.56
10:CK:12:ARG:HD3	10:CK:13:LYS:NZ	2.21	0.56
20:CB:15:PHE:HB3	20:CB:42:LEU:HD21	1.86	0.56
20:CB:16:GLY:CA	20:CB:39:ILE:HA	2.33	0.56
22:DA:112:G:O2'	22:DA:113:C:H5'	2.05	0.56
23:DB:6:A:H2'	23:DB:7:G:H8	1.70	0.56
23:DB:876:C:H3'	23:DB:877:A:O4'	2.06	0.56
23:DB:1188:U:H4'	39:DR:84:ARG:CD	2.36	0.56
23:DB:1709:U:H2'	23:DB:1710:G:C8	2.41	0.56
23:DB:1742:U:H2'	23:DB:1743:G:C8	2.41	0.56
23:DB:1847:A:H4'	23:DB:1848:A:C8	2.41	0.56
23:DB:2898:U:H2'	23:DB:2899:A:C8	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:53:ILE:HD13	25:DC:218:THR:CG2	2.35	0.56
26:DD:4:LEU:N	26:DD:4:LEU:HD22	2.19	0.56
28:DF:115:GLY:HA3	28:DF:177:ARG:HB2	1.87	0.56
36:DO:18:LEU:HD22	43:DW:76:ARG:HH21	1.69	0.56
36:DO:56:LYS:CE	36:DO:81:ARG:HE	2.08	0.56
42:DU:10:VAL:O	42:DU:21:ARG:HA	2.06	0.56
48:D1:7:LYS:HB3	48:D1:24:LYS:HZ1	1.71	0.56
49:D2:46:LYS:H	49:D2:46:LYS:CE	2.17	0.56
1:AA:202:G:H2'	1:AA:203:G:C8	2.39	0.56
1:AA:203:G:H1'	1:AA:465:A:H62	1.69	0.56
1:AA:372:C:H4'	1:AA:373:A:H5'	1.87	0.56
1:AA:844:G:N2	1:AA:845:A:H62	2.03	0.56
1:AA:883:C:O2'	1:AA:884:U:H5'	2.05	0.56
1:AA:1055:A:H4'	2:AC:160:GLU:CG	2.35	0.56
1:AA:1522:U:O2'	1:AA:1523:G:H5'	2.06	0.56
3:AD:117:VAL:O	3:AD:130:ASN:HA	2.05	0.56
8:AI:51:LEU:HD11	8:AI:82:ILE:HG21	1.87	0.56
12:AM:2:ARG:HB3	12:AM:6:ILE:O	2.06	0.56
18:AS:32:THR:HB	18:AS:49:ALA:O	2.06	0.56
22:BA:6:G:H2'	22:BA:7:G:C8	2.40	0.56
23:BB:143:C:H2'	23:BB:144:A:C8	2.40	0.56
23:BB:407:G:O2'	23:BB:408:G:H5'	2.06	0.56
23:BB:1013:C:H2'	23:BB:1014:A:C8	2.40	0.56
23:BB:1117:C:H2'	23:BB:1118:C:H6	1.71	0.56
23:BB:1537:G:H3'	23:BB:1537:G:N3	2.21	0.56
23:BB:1548:A:H2'	23:BB:1549:A:C8	2.40	0.56
23:BB:2213:U:O2	23:BB:2213:U:H2'	2.04	0.56
23:BB:2485:G:H1'	34:BM:118:LYS:HZ3	1.71	0.56
23:BB:2729:G:H2'	23:BB:2730:C:C6	2.41	0.56
23:BB:2786:U:C4'	26:BD:66:GLY:HA2	2.36	0.56
25:BC:242:HIS:N	25:BC:243:PRO:CD	2.68	0.56
26:BD:29:VAL:HG12	26:BD:185:ASN:ND2	2.21	0.56
26:BD:167:ASN:H	26:BD:167:ASN:HD22	1.53	0.56
27:BE:194:LYS:HE3	27:BE:201:ALA:HB2	1.88	0.56
29:BG:84:LYS:HZ2	29:BG:85:LYS:N	2.03	0.56
29:BG:97:VAL:HG21	29:BG:123:GLU:HA	1.87	0.56
30:BH:2:GLN:HE22	30:BH:19:VAL:C	2.09	0.56
31:BJ:102:GLU:OE2	31:BJ:124:VAL:HG11	2.06	0.56
32:BK:5:GLN:HA	32:BK:20:MET:SD	2.46	0.56
52:BI:91:LYS:HG3	52:BI:91:LYS:O	2.05	0.56
1:CA:189:A:H2'	1:CA:190:A:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:275:G:O5'	16:CQ:15:LYS:HG2	2.05	0.56
1:CA:784:A:H2'	1:CA:785:G:H8	1.69	0.56
1:CA:859:G:H2'	1:CA:860:A:H8	1.70	0.56
4:CE:104:ILE:HG13	4:CE:114:LEU:HB2	1.87	0.56
6:CG:39:GLU:HG3	6:CG:43:TYR:CD2	2.40	0.56
8:CI:50:PRO:O	8:CI:54:VAL:HG22	2.05	0.56
9:CJ:12:ALA:HB3	9:CJ:18:ILE:HB	1.88	0.56
23:DB:544:C:H2'	23:DB:545:U:C4	2.41	0.56
23:DB:663:G:OP1	33:DL:27:LEU:HD22	2.06	0.56
23:DB:1100:C:OP2	52:DI:2:LYS:HB3	2.05	0.56
23:DB:1464:G:H2'	23:DB:1465:G:H8	1.69	0.56
23:DB:1945:G:H2'	23:DB:1946:U:C6	2.41	0.56
23:DB:2139:U:O2'	23:DB:2140:G:H5'	2.05	0.56
23:DB:2615:U:C1'	47:D0:3:GLN:HG3	2.35	0.56
23:DB:2617:U:C2'	23:DB:2618:G:H5'	2.36	0.56
25:DC:12:ARG:HH11	25:DC:18:VAL:HB	1.69	0.56
26:DD:146:ILE:HD12	26:DD:146:ILE:H	1.71	0.56
27:DE:126:VAL:HG22	27:DE:128:ALA:H	1.70	0.56
28:DF:41:GLU:OE1	28:DF:49:LEU:HG	2.05	0.56
28:DF:107:VAL:H	28:DF:108:PRO:HD2	1.70	0.56
28:DF:135:ILE:O	28:DF:136:ILE:HB	2.05	0.56
43:DW:81:ILE:HG12	43:DW:82:GLU:H	1.71	0.56
48:D1:31:GLU:HG2	48:D1:32:LYS:N	2.20	0.56
1:AA:973:G:H1'	9:AJ:56:HIS:ND1	2.20	0.56
1:AA:1330:U:C2'	1:AA:1331:G:H5'	2.35	0.56
4:AE:82:HIS:HB2	4:AE:83:PRO:HD2	1.88	0.56
5:AF:64:VAL:HG12	5:AF:65:GLU:N	2.17	0.56
10:AK:58:THR:HG23	10:AK:61:ALA:CB	2.36	0.56
10:AK:95:THR:HG23	10:AK:96:ILE:N	2.20	0.56
11:AL:105:GLY:HA3	11:AL:117:GLY:HA3	1.88	0.56
12:AM:106:ARG:NH1	12:AM:109:LYS:HD2	2.21	0.56
23:BB:436:C:O2'	23:BB:437:U:H5'	2.05	0.56
23:BB:2230:G:H1'	46:BZ:30:HIS:CD2	2.41	0.56
23:BB:2294:G:O2'	23:BB:2295:C:H5'	2.06	0.56
23:BB:2734:A:H2'	23:BB:2735:G:H5'	1.86	0.56
23:BB:2751:G:H5''	29:BG:3:VAL:HA	1.88	0.56
23:BB:2840:C:H2'	23:BB:2841:C:H6	1.71	0.56
25:BC:22:GLU:CD	25:BC:202:ARG:HE	2.09	0.56
25:BC:257:ARG:HA	25:BC:257:ARG:CZ	2.36	0.56
27:BE:48:THR:HG23	27:BE:87:ALA:H	1.70	0.56
29:BG:106:LEU:HD23	29:BG:151:ARG:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:22:ARG:HG3	35:BN:23:ASN:N	2.21	0.56
36:BO:76:LYS:HG2	36:BO:110:ALA:HB2	1.87	0.56
43:BW:55:ASP:CG	43:BW:56:HIS:N	2.59	0.56
52:BI:102:ARG:HD3	52:BI:141:ASP:OD2	2.04	0.56
1:CA:270:A:H2'	1:CA:271:C:H6	1.70	0.56
8:CI:54:VAL:HG11	8:CI:86:LEU:HD13	1.86	0.56
9:CJ:55:PRO:HA	13:CN:80:ARG:NH2	2.19	0.56
22:DA:54:G:H21	28:DF:25:MET:HG2	1.70	0.56
22:DA:76:G:H2'	22:DA:77:U:C6	2.41	0.56
23:DB:3:U:H2'	23:DB:4:U:C6	2.41	0.56
23:DB:144:A:H1'	41:DT:3:ARG:HA	1.87	0.56
23:DB:250:G:C5'	50:D3:7:ARG:HG2	2.31	0.56
23:DB:281:C:H2'	23:DB:282:A:C8	2.41	0.56
23:DB:319:G:H2'	23:DB:320:A:O4'	2.06	0.56
23:DB:1019:U:H2'	23:DB:1020:A:C8	2.39	0.56
23:DB:1332:G:H2'	23:DB:1332:G:N3	2.21	0.56
23:DB:1505:A:H2'	23:DB:1506:U:C6	2.41	0.56
25:DC:28:PRO:HB2	25:DC:79:ARG:NE	2.21	0.56
25:DC:191:LEU:O	25:DC:191:LEU:HG	2.05	0.56
34:DM:71:LYS:HE3	34:DM:91:TYR:HB3	1.87	0.56
36:DO:49:VAL:HG22	36:DO:50:ALA:N	2.20	0.56
38:DQ:30:VAL:HG12	38:DQ:31:TYR:N	2.20	0.56
40:DS:33:LEU:HD22	40:DS:51:LEU:HD23	1.87	0.56
44:DX:11:VAL:HG12	44:DX:13:GLU:H	1.70	0.56
1:AA:1241:G:H2'	1:AA:1242:G:C8	2.39	0.56
1:AA:1246:A:H2'	1:AA:1247:U:C6	2.41	0.56
16:AQ:75:VAL:HG23	16:AQ:76:ARG:H	1.70	0.56
18:AS:11:ASP:CG	18:AS:34:SER:HB2	2.26	0.56
23:BB:209:C:H2'	23:BB:210:C:H6	1.71	0.56
23:BB:243:U:OP1	50:B3:4:LYS:HG2	2.05	0.56
23:BB:686:U:H1'	49:B2:5:PHE:O	2.06	0.56
23:BB:813:U:H2'	23:BB:814:C:H6	1.70	0.56
23:BB:1251:C:H2'	38:BQ:5:ARG:NH2	2.21	0.56
23:BB:1441:G:H2'	23:BB:1442:U:C6	2.41	0.56
23:BB:1553:A:O2'	23:BB:1554:U:H2'	2.06	0.56
23:BB:1935:G:H1'	23:BB:1964:G:N2	2.21	0.56
25:BC:27:LYS:HB3	25:BC:80:LEU:O	2.06	0.56
25:BC:63:ILE:HG22	25:BC:64:VAL:H	1.70	0.56
25:BC:155:ARG:HH11	25:BC:157:ALA:HB2	1.70	0.56
26:BD:15:PHE:CD2	26:BD:18:ASP:HB2	2.40	0.56
26:BD:62:LYS:H	26:BD:62:LYS:HD3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:33:ILE:HD11	28:BF:90:LEU:HD13	1.87	0.56
30:BH:21:VAL:HG13	30:BH:22:LYS:O	2.05	0.56
31:BJ:46:PRO:O	31:BJ:47:HIS:HB2	2.05	0.56
32:BK:2:ILE:HG22	32:BK:67:LYS:HZ2	1.69	0.56
41:BT:9:LYS:HG2	44:BX:22:LEU:HD11	1.88	0.56
41:BT:15:HIS:ND1	41:BT:31:VAL:HG11	2.21	0.56
43:BW:36:ILE:HD12	43:BW:70:VAL:HG21	1.86	0.56
43:BW:42:THR:HG22	43:BW:43:LYS:O	2.05	0.56
50:B3:26:ALA:HB1	50:B3:29:ARG:HG3	1.87	0.56
1:CA:335:C:H2'	1:CA:336:A:C8	2.41	0.56
1:CA:629:A:H2'	1:CA:630:A:O4'	2.05	0.56
1:CA:865:A:H2'	1:CA:866:C:C6	2.40	0.56
1:CA:948:C:O2'	1:CA:949:A:H5'	2.05	0.56
1:CA:1348:U:H4'	8:CI:121:ARG:HG3	1.87	0.56
4:CE:73:VAL:HG21	4:CE:143:LEU:O	2.05	0.56
6:CG:37:THR:O	6:CG:41:ILE:HG13	2.05	0.56
6:CG:91:ARG:O	6:CG:95:ARG:HG3	2.06	0.56
9:CJ:42:LEU:HB3	9:CJ:43:PRO:HD2	1.88	0.56
9:CJ:51:VAL:O	9:CJ:62:ARG:HA	2.05	0.56
9:CJ:66:GLU:HG2	9:CJ:67:ILE:H	1.71	0.56
10:CK:124:LYS:CD	21:CU:34:ARG:HD3	2.36	0.56
12:CM:75:SER:O	12:CM:78:ARG:HB3	2.06	0.56
13:CN:17:ASP:C	13:CN:19:TYR:H	2.10	0.56
13:CN:27:LYS:O	13:CN:31:SER:HB3	2.06	0.56
16:CQ:63:CYS:SG	16:CQ:66:LEU:HD11	2.46	0.56
18:CS:62:THR:HG21	18:CS:64:GLU:OE1	2.06	0.56
20:CB:104:LYS:HZ2	20:CB:104:LYS:HB2	1.69	0.56
23:DB:417:C:H2'	23:DB:418:C:C6	2.41	0.56
23:DB:620:G:H5'	23:DB:620:G:N3	2.21	0.56
23:DB:857:G:O2'	23:DB:858:G:H5'	2.06	0.56
23:DB:2484:G:O2'	23:DB:2485:G:H5'	2.05	0.56
23:DB:2526:G:H2'	23:DB:2527:C:C6	2.41	0.56
24:DV:9:ARG:NH1	24:DV:12:GLN:HA	2.21	0.56
26:DD:60:VAL:HB	26:DD:62:LYS:HZ3	1.71	0.56
27:DE:31:VAL:HG21	27:DE:104:ALA:CB	2.35	0.56
37:DP:73:PHE:CD2	37:DP:75:THR:HG23	2.41	0.56
38:DQ:97:ILE:HG23	39:DR:13:ARG:CZ	2.36	0.56
44:DX:15:ASN:HA	44:DX:17:GLU:OE2	2.05	0.56
52:DI:37:PHE:CE1	52:DI:58:ILE:HD11	2.40	0.56
1:AA:335:C:H2'	1:AA:336:A:C8	2.41	0.56
1:AA:555:U:H2'	1:AA:556:C:H6	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:878:A:H1'	7:AH:3:GLN:HE22	1.70	0.56
1:AA:1171:A:H2'	1:AA:1172:C:C6	2.40	0.56
2:AC:45:GLU:C	2:AC:46:LEU:HD12	2.25	0.56
2:AC:154:GLY:HA2	2:AC:163:ARG:O	2.06	0.56
10:AK:32:THR:HA	10:AK:43:TRP:HA	1.87	0.56
11:AL:83:GLY:HA2	11:AL:94:TYR:HD1	1.70	0.56
20:AB:125:PHE:HD2	20:AB:125:PHE:H	1.53	0.56
20:AB:216:VAL:O	20:AB:220:VAL:HG23	2.06	0.56
23:BB:11:C:H2'	23:BB:12:U:H5'	1.88	0.56
23:BB:395:U:H2'	23:BB:396:G:C8	2.41	0.56
23:BB:643:A:N6	23:BB:2370:G:H1'	2.21	0.56
23:BB:828:U:H4'	23:BB:831:G:N1	2.20	0.56
23:BB:932:U:H5'	23:BB:933:A:OP1	2.05	0.56
23:BB:2335:A:OP2	36:BO:9:ARG:HG3	2.06	0.56
23:BB:2354:C:O2'	43:BW:31:LEU:HB2	2.06	0.56
23:BB:2533:U:H2'	23:BB:2534:A:O4'	2.06	0.56
23:BB:2680:U:H5'	26:BD:194:PRO:HA	1.87	0.56
23:BB:2794:C:H2'	23:BB:2795:C:C6	2.41	0.56
26:BD:4:LEU:HB2	26:BD:201:LEU:O	2.05	0.56
26:BD:35:THR:HB	26:BD:48:ILE:HB	1.88	0.56
32:BK:107:LEU:HD11	32:BK:115:ILE:HG21	1.87	0.56
35:BN:33:ILE:HD13	35:BN:33:ILE:N	2.21	0.56
39:BR:47:VAL:HG22	39:BR:48:LYS:N	2.14	0.56
40:BS:18:ARG:NH1	40:BS:25:ARG:HH22	1.97	0.56
1:CA:149:A:H1'	1:CA:1446:A:C2	2.41	0.56
1:CA:883:C:O2'	1:CA:884:U:H5'	2.06	0.56
1:CA:1006:G:H2'	1:CA:1007:U:C6	2.41	0.56
2:CC:37:LYS:HB3	2:CC:41:TYR:CZ	2.41	0.56
4:CE:61:LYS:O	4:CE:64:GLU:HB3	2.06	0.56
4:CE:136:VAL:HG23	4:CE:137:ARG:H	1.70	0.56
4:CE:142:GLY:HA2	4:CE:145:ASN:ND2	2.21	0.56
13:CN:68:ARG:NH2	13:CN:80:ARG:HH12	2.04	0.56
15:CP:68:SER:OG	15:CP:71:VAL:HG12	2.06	0.56
20:CB:162:VAL:HG11	20:CB:172:ILE:HD11	1.88	0.56
22:DA:21:G:H2'	22:DA:22:U:O4'	2.06	0.56
23:DB:19:A:H2'	23:DB:20:C:H6	1.71	0.56
23:DB:1083:U:C2	23:DB:1086:A:N1	2.74	0.56
23:DB:1579:A:H2'	23:DB:1580:A:C8	2.41	0.56
27:DE:169:VAL:HG13	27:DE:170:ARG:N	2.13	0.56
34:DM:16:ARG:HE	34:DM:18:ARG:NH1	2.04	0.56
34:DM:90:GLU:HG3	34:DM:91:TYR:N	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:45:ARG:HH21	35:DN:113:ILE:HD12	1.69	0.56
37:DP:76:HIS:CD2	37:DP:76:HIS:N	2.55	0.56
38:DQ:26:ALA:O	38:DQ:30:VAL:HG23	2.06	0.56
38:DQ:39:ILE:CG1	38:DQ:40:LYS:N	2.67	0.56
40:DS:103:ILE:O	40:DS:104:THR:HB	2.06	0.56
41:DT:21:SER:N	41:DT:24:MET:HE3	2.20	0.56
44:DX:55:THR:O	44:DX:56:LEU:HB2	2.05	0.56
46:DZ:41:HIS:CG	46:DZ:42:PRO:HD2	2.40	0.56
50:D3:33:THR:HG23	50:D3:36:ALA:HB3	1.86	0.56
51:D4:26:ILE:O	51:D4:27:CYS:CB	2.53	0.56
1:AA:16:A:O2'	1:AA:17:U:H5'	2.05	0.56
1:AA:372:C:H1'	1:AA:373:A:OP2	2.06	0.56
1:AA:1027:C:H2'	1:AA:1028:C:H6	1.70	0.56
1:AA:1492:A:H2'	1:AA:1493:A:O4'	2.06	0.56
6:AG:19:SER:OG	6:AG:22:LEU:HB2	2.06	0.56
13:AN:15:LEU:HD12	13:AN:16:ALA:H	1.71	0.56
13:AN:50:LEU:CD2	13:AN:51:PRO:HD3	2.36	0.56
22:BA:113:C:H4'	36:BO:47:VAL:HG12	1.88	0.56
23:BB:16:C:O3'	47:B0:10:SER:HA	2.06	0.56
23:BB:45:G:H5'	23:BB:46:G:OP1	2.06	0.56
23:BB:141:G:C2	41:BT:2:ILE:HG13	2.40	0.56
23:BB:705:A:N6	23:BB:726:G:H1'	2.19	0.56
23:BB:969:G:H2'	23:BB:970:U:C6	2.41	0.56
23:BB:1061:U:O4'	23:BB:1070:A:H1'	2.06	0.56
23:BB:1819:A:OP1	25:BC:153:LEU:HB2	2.05	0.56
23:BB:2679:A:O2'	23:BB:2680:U:H5'	2.05	0.56
25:BC:28:PRO:HB2	25:BC:79:ARG:NH2	2.20	0.56
25:BC:144:GLU:OE1	25:BC:188:ARG:HG3	2.06	0.56
26:BD:151:THR:O	26:BD:152:PRO:O	2.24	0.56
27:BE:106:LYS:NZ	27:BE:106:LYS:HB2	2.20	0.56
28:BF:36:ASN:O	28:BF:152:ASP:HB2	2.06	0.56
31:BJ:25:LEU:HD12	31:BJ:62:VAL:CA	2.35	0.56
31:BJ:58:ASN:O	31:BJ:126:ALA:HA	2.05	0.56
33:BL:95:LEU:HD12	33:BL:95:LEU:N	2.21	0.56
34:BM:18:ARG:HB3	34:BM:40:ARG:NH2	2.22	0.56
41:BT:64:LYS:HB3	41:BT:77:ARG:HH11	1.70	0.56
43:BW:19:ARG:HH22	43:BW:71:LYS:HD2	1.70	0.56
48:B1:42:VAL:CG1	48:B1:43:ARG:N	2.69	0.56
50:B3:23:HIS:CD2	50:B3:47:ALA:HA	2.41	0.56
52:BI:124:MET:O	52:BI:128:ILE:HG12	2.06	0.56
1:CA:1298:U:H2'	6:CG:113:LYS:HZ1	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:49:GLN:N	8:CI:50:PRO:HD2	2.21	0.56
11:CL:30:ARG:HB3	11:CL:57:THR:HG23	1.88	0.56
23:DB:644:A:O2'	23:DB:645:C:H2'	2.06	0.56
23:DB:1179:G:H2'	23:DB:1180:U:H6	1.68	0.56
23:DB:1654:A:H4'	35:DN:1:MET:H1	1.69	0.56
23:DB:2064:C:H2'	23:DB:2065:C:H6	1.70	0.56
23:DB:2365:G:H4'	43:DW:65:LYS:HD2	1.88	0.56
23:DB:2539:C:O2'	23:DB:2540:C:H5'	2.06	0.56
23:DB:2789:C:H3'	23:DB:2893:A:H62	1.71	0.56
23:DB:2800:A:N3	23:DB:2801:G:H1'	2.21	0.56
25:DC:51:ARG:HH12	25:DC:54:GLY:HA3	1.71	0.56
25:DC:167:ASP:HB3	25:DC:172:THR:OG1	2.06	0.56
25:DC:258:SER:N	25:DC:261:ARG:NH1	2.54	0.56
27:DE:149:ILE:CD1	27:DE:187:VAL:H	2.15	0.56
29:DG:39:ALA:HB1	29:DG:54:ARG:H	1.71	0.56
29:DG:93:TYR:H	29:DG:93:TYR:HD1	1.54	0.56
32:DK:12:ASP:HA	32:DK:99:ILE:HA	1.88	0.56
33:DL:63:LYS:H	50:D3:12:ARG:HD3	1.71	0.56
35:DN:10:LEU:HG	35:DN:11:ASN:N	2.21	0.56
38:DQ:39:ILE:O	38:DQ:43:GLN:HB3	2.06	0.56
40:DS:7:HIS:CD2	40:DS:46:LEU:HD13	2.41	0.56
40:DS:42:LYS:HG2	40:DS:45:VAL:HG13	1.88	0.56
42:DU:23:LYS:O	42:DU:25:LYS:N	2.39	0.56
1:AA:6:G:H4'	1:AA:298:A:H4'	1.88	0.55
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.87	0.55
1:AA:1491:G:H5''	1:AA:1492:A:OP2	2.07	0.55
2:AC:151:GLU:HB2	2:AC:200:TRP:HZ3	1.71	0.55
3:AD:99:ASN:HD21	3:AD:110:ARG:HE	1.52	0.55
4:AE:132:PRO:HA	4:AE:135:VAL:HG22	1.88	0.55
13:AN:66:THR:HG23	13:AN:67:GLY:N	2.20	0.55
23:BB:322:A:H5'	23:BB:340:A:C1'	2.36	0.55
23:BB:771:G:O2'	23:BB:772:C:H5'	2.06	0.55
23:BB:866:A:H61	23:BB:913:U:C4'	2.19	0.55
23:BB:973:A:H8	23:BB:973:A:OP1	1.89	0.55
23:BB:1551:A:H3'	23:BB:1552:A:H5''	1.88	0.55
23:BB:2008:C:H2'	23:BB:2009:A:C8	2.40	0.55
23:BB:2247:A:H2'	23:BB:2248:C:C6	2.41	0.55
23:BB:2369:A:O2'	23:BB:2370:G:H5'	2.06	0.55
23:BB:2789:C:H3'	23:BB:2893:A:H62	1.70	0.55
25:BC:67:LYS:HG3	25:BC:68:ARG:H	1.71	0.55
28:BF:37:MET:HG2	28:BF:86:CYS:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:125:THR:CA	30:BH:146:VAL:HB	2.34	0.55
30:BH:134:VAL:HG13	30:BH:135:HIS:N	2.21	0.55
33:BL:103:ILE:HD13	33:BL:104:GLN:H	1.70	0.55
37:BP:47:ILE:HG23	37:BP:63:ILE:HA	1.88	0.55
37:BP:52:ARG:HH11	37:BP:54:LEU:CB	2.19	0.55
37:BP:91:VAL:HB	37:BP:113:LEU:CB	2.35	0.55
39:BR:20:VAL:HB	39:BR:95:ASP:HB2	1.87	0.55
39:BR:62:GLU:CG	39:BR:103:ALA:HA	2.36	0.55
41:BT:1:MET:HE1	41:BT:2:ILE:HB	1.87	0.55
41:BT:56:GLU:HB2	41:BT:86:THR:OG1	2.06	0.55
41:BT:96:VAL:HG22	41:BT:97:GLY:N	2.18	0.55
42:BU:23:LYS:O	42:BU:25:LYS:N	2.39	0.55
43:BW:58:LEU:HA	43:BW:79:ILE:HG21	1.87	0.55
48:B1:47:ILE:HG13	48:B1:48:TYR:H	1.71	0.55
52:BI:23:VAL:HG23	52:BI:24:GLY:H	1.70	0.55
1:CA:16:A:O2'	4:CE:20:VAL:HG23	2.06	0.55
1:CA:168:G:O2'	1:CA:169:C:H5'	2.06	0.55
1:CA:801:U:H2'	1:CA:802:A:C8	2.41	0.55
7:CH:9:MET:HG3	7:CH:26:MET:SD	2.46	0.55
25:DC:75:ALA:HA	25:DC:94:LEU:O	2.06	0.55
26:DD:89:GLU:HG2	26:DD:93:GLY:HA3	1.87	0.55
29:DG:124:CYS:HB3	29:DG:130:ILE:HD13	1.88	0.55
30:DH:8:LYS:HA	30:DH:13:GLY:O	2.06	0.55
31:DJ:37:ARG:NH1	31:DJ:110:PRO:HG3	2.21	0.55
37:DP:38:ARG:HH11	37:DP:39:LEU:H	1.54	0.55
39:DR:3:ALA:O	39:DR:4:VAL:HG13	2.06	0.55
39:DR:85:LYS:C	39:DR:86:GLN:HG3	2.27	0.55
42:DU:96:LYS:HD3	42:DU:97:SER:N	2.20	0.55
1:AA:987:G:H2'	1:AA:988:G:C8	2.40	0.55
1:AA:1225:A:O5'	12:AM:102:LYS:HB3	2.06	0.55
8:AI:61:ASP:O	8:AI:62:LEU:HD13	2.05	0.55
10:AK:97:ARG:HB3	10:AK:97:ARG:NH1	2.21	0.55
15:AP:20:VAL:HG22	15:AP:21:VAL:N	2.21	0.55
20:AB:38:HIS:O	20:AB:39:ILE:HD13	2.06	0.55
20:AB:67:LEU:HD22	20:AB:67:LEU:N	2.21	0.55
23:BB:864:G:O2'	23:BB:865:C:H5'	2.05	0.55
23:BB:923:G:H1'	43:BW:23:LYS:CD	2.31	0.55
23:BB:1162:G:O2'	23:BB:1163:G:H5'	2.06	0.55
23:BB:1716:U:H2'	23:BB:1717:A:C8	2.41	0.55
23:BB:1754:A:OP1	37:BP:95:LYS:HB2	2.06	0.55
23:BB:2077:A:H2'	23:BB:2078:C:H6	1.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:68:ARG:HD3	25:BC:103:ILE:HD11	1.88	0.55
28:BF:110:ILE:HG22	28:BF:112:ASP:H	1.71	0.55
28:BF:169:LEU:HA	28:BF:172:PHE:CZ	2.42	0.55
29:BG:85:LYS:HA	29:BG:130:ILE:O	2.06	0.55
31:BJ:58:ASN:HA	31:BJ:127:GLY:H	1.70	0.55
32:BK:56:ASP:O	32:BK:58:LEU:HG	2.07	0.55
35:BN:37:THR:OG1	35:BN:40:LYS:HB2	2.04	0.55
41:BT:1:MET:CG	41:BT:2:ILE:H	2.19	0.55
41:BT:62:VAL:O	41:BT:63:VAL:HG12	2.06	0.55
1:CA:57:G:H2'	1:CA:58:C:H6	1.70	0.55
1:CA:272:C:H2'	1:CA:273:U:H6	1.71	0.55
1:CA:1057:G:H4'	2:CC:196:GLY:H	1.70	0.55
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.41	0.55
4:CE:10:LEU:HA	4:CE:39:GLY:O	2.06	0.55
7:CH:82:LEU:HD22	16:CQ:35:LYS:HB2	1.86	0.55
9:CJ:17:LEU:HD22	9:CJ:17:LEU:O	2.06	0.55
9:CJ:36:VAL:HA	9:CJ:76:ILE:CG2	2.37	0.55
10:CK:61:ALA:O	10:CK:64:VAL:HG22	2.06	0.55
12:CM:78:ARG:HG3	28:DF:111:ARG:NH1	2.20	0.55
23:DB:753:A:H2'	23:DB:754:U:H6	1.70	0.55
23:DB:828:U:H4'	23:DB:831:G:N1	2.21	0.55
23:DB:1316:U:O2'	23:DB:1317:G:H5'	2.06	0.55
23:DB:1441:G:H2'	23:DB:1442:U:C6	2.42	0.55
23:DB:1878:G:H2'	23:DB:1879:C:C6	2.41	0.55
23:DB:2072:C:O2'	23:DB:2073:C:H5'	2.07	0.55
23:DB:2286:G:O6	48:D1:23:THR:HG22	2.06	0.55
23:DB:2688:G:H1'	23:DB:2721:A:H61	1.70	0.55
24:DV:30:ILE:HG12	24:DV:91:PHE:CB	2.36	0.55
26:DD:89:GLU:CG	26:DD:93:GLY:HA3	2.36	0.55
27:DE:45:ALA:O	27:DE:46:GLN:HB3	2.06	0.55
27:DE:192:ALA:HB1	27:DE:199:MET:HB2	1.86	0.55
30:DH:3:VAL:HB	30:DH:37:VAL:CG1	2.36	0.55
31:DJ:118:MET:O	31:DJ:121:LYS:HD2	2.07	0.55
37:DP:61:ARG:NH2	37:DP:63:ILE:HD11	2.21	0.55
51:D4:26:ILE:CG1	51:D4:35:GLN:HG2	2.36	0.55
6:AG:13:PRO:HB2	6:AG:18:GLY:CA	2.35	0.55
10:AK:113:THR:CG2	21:AU:28:LEU:HD21	2.36	0.55
23:BB:84:A:H3'	42:BU:5:ARG:HG3	1.87	0.55
23:BB:172:A:H2'	23:BB:173:A:H8	1.70	0.55
23:BB:414:C:H2'	23:BB:415:A:H8	1.71	0.55
23:BB:1387:A:H2'	23:BB:1388:G:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1442:U:H2'	23:BB:1443:U:H6	1.71	0.55
23:BB:1515:A:H5'	23:BB:1557:C:H5'	1.87	0.55
23:BB:1820:U:H3	25:BC:197:ALA:CB	2.20	0.55
23:BB:1857:G:H2'	23:BB:1884:G:N2	2.20	0.55
23:BB:1878:G:H2'	23:BB:1879:C:C6	2.41	0.55
23:BB:2556:C:H2'	23:BB:2557:G:O4'	2.06	0.55
25:BC:129:LEU:HD23	25:BC:130:PRO:HD2	1.88	0.55
26:BD:37:VAL:HG22	26:BD:46:ARG:NE	2.21	0.55
28:BF:46:LYS:O	28:BF:50:ASP:HB3	2.06	0.55
31:BJ:64:VAL:HG12	31:BJ:65:THR:H	1.71	0.55
34:BM:84:LYS:NZ	34:BM:84:LYS:H	2.04	0.55
36:BO:1:MET:HG2	36:BO:2:ASP:N	2.21	0.55
37:BP:15:ASP:OD1	37:BP:15:ASP:N	2.38	0.55
37:BP:99:LEU:HD21	37:BP:109:ILE:HG23	1.88	0.55
40:BS:7:HIS:HB3	40:BS:102:HIS:CA	2.36	0.55
41:BT:8:LEU:HA	44:BX:19:LEU:HD11	1.88	0.55
43:BW:44:PHE:HB3	43:BW:76:ARG:CG	2.35	0.55
48:B1:42:VAL:HG12	48:B1:43:ARG:HE	1.70	0.55
1:CA:642:A:H2'	1:CA:643:C:H6	1.71	0.55
1:CA:1355:G:O2'	1:CA:1356:G:H5'	2.07	0.55
4:CE:22:LYS:HB3	4:CE:29:ILE:HB	1.89	0.55
4:CE:89:THR:C	4:CE:91:SER:H	2.08	0.55
4:CE:113:VAL:HG21	4:CE:139:THR:HG21	1.88	0.55
9:CJ:15:HIS:HA	9:CJ:18:ILE:HG22	1.88	0.55
12:CM:48:SER:C	12:CM:50:GLY:H	2.09	0.55
23:DB:4:U:H2'	23:DB:5:A:C8	2.41	0.55
23:DB:170:U:H2'	23:DB:171:U:C6	2.41	0.55
23:DB:935:C:O2'	23:DB:936:A:H5'	2.07	0.55
23:DB:1061:U:O4'	23:DB:1070:A:H1'	2.05	0.55
23:DB:1252:G:N3	38:DQ:32:ARG:HG3	2.21	0.55
23:DB:1309:G:H4'	49:D2:7:PRO:CB	2.32	0.55
23:DB:1550:C:H2'	23:DB:1551:A:C8	2.41	0.55
23:DB:1656:C:H5''	26:DD:141:ARG:HB3	1.88	0.55
23:DB:1935:G:H1'	23:DB:1964:G:N2	2.22	0.55
23:DB:2078:C:O2'	23:DB:2079:U:H5'	2.06	0.55
26:DD:21:SER:C	26:DD:23:PRO:HD3	2.27	0.55
27:DE:192:ALA:O	27:DE:195:GLN:HG3	2.05	0.55
28:DF:175:PRO:O	28:DF:176:PHE:HB2	2.07	0.55
31:DJ:93:ILE:HG22	31:DJ:93:ILE:O	2.04	0.55
39:DR:3:ALA:HB1	39:DR:12:HIS:CB	2.37	0.55
52:DI:63:ASP:OD1	52:DI:65:SER:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:97:G:H2'	1:AA:98:A:O4'	2.07	0.55
1:AA:278:G:H21	1:AA:279:A:N6	2.04	0.55
1:AA:924:C:O2'	1:AA:925:G:H5'	2.05	0.55
2:AC:42:LEU:O	2:AC:46:LEU:HB2	2.07	0.55
4:AE:45:VAL:CG1	4:AE:116:VAL:HG23	2.37	0.55
9:AJ:53:ILE:HG23	13:AN:84:ARG:CZ	2.37	0.55
15:AP:12:LYS:HD2	15:AP:13:LYS:HG3	1.89	0.55
16:AQ:32:ILE:HG13	16:AQ:33:TYR:N	2.22	0.55
20:AB:138:ARG:HA	20:AB:141:GLU:OE2	2.06	0.55
23:BB:586:A:H5''	27:BE:85:PHE:HE1	1.72	0.55
23:BB:758:C:O2	23:BB:1981:A:H2	1.88	0.55
23:BB:1166:G:H2'	23:BB:1167:C:H6	1.72	0.55
23:BB:1429:G:H2'	23:BB:1430:G:C8	2.41	0.55
23:BB:1534:U:H2'	23:BB:1536:C:N3	2.21	0.55
23:BB:2305:U:H1'	28:BF:132:ARG:HA	1.87	0.55
23:BB:2351:G:O6	50:B3:38:LYS:HD2	2.06	0.55
23:BB:2682:A:H5''	37:BP:55:HIS:NE2	2.21	0.55
23:BB:2852:G:H2'	23:BB:2853:C:H6	1.72	0.55
25:BC:160:TYR:O	25:BC:161:VAL:HG23	2.06	0.55
26:BD:88:GLU:HG2	26:BD:89:GLU:H	1.70	0.55
26:BD:116:LYS:H	26:BD:165:MET:HG3	1.70	0.55
27:BE:1:MET:O	27:BE:14:VAL:HG22	2.06	0.55
31:BJ:81:ILE:CG1	31:BJ:82:GLY:H	2.19	0.55
32:BK:2:ILE:HG23	32:BK:33:ALA:O	2.06	0.55
34:BM:5:LYS:HD3	34:BM:91:TYR:CG	2.41	0.55
37:BP:18:SER:HB2	37:BP:87:ARG:NE	2.22	0.55
40:BS:29:VAL:HG11	40:BS:69:LEU:HB2	1.89	0.55
42:BU:94:PHE:CZ	42:BU:100:GLU:HA	2.42	0.55
43:BW:39:GLN:C	43:BW:40:ARG:HG3	2.26	0.55
46:BZ:41:HIS:CB	46:BZ:42:PRO:HD2	2.27	0.55
1:CA:77:A:H2'	1:CA:78:A:H8	1.70	0.55
1:CA:973:G:H3'	1:CA:974:A:C5'	2.29	0.55
1:CA:1011:C:H2'	1:CA:1012:A:C8	2.42	0.55
3:CD:22:SER:HB3	3:CD:109:THR:HG22	1.88	0.55
4:CE:95:MET:HG3	4:CE:124:ALA:HB2	1.88	0.55
23:DB:196:A:H2'	23:DB:196:A:N3	2.20	0.55
23:DB:378:C:O2'	23:DB:379:G:H5'	2.06	0.55
23:DB:431:U:O2'	23:DB:432:A:H5'	2.06	0.55
23:DB:634:C:H2'	23:DB:635:C:H6	1.71	0.55
23:DB:660:C:H2'	23:DB:661:A:H8	1.71	0.55
23:DB:2294:G:P	36:DO:9:ARG:HH11	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2361:G:OP1	50:D3:25:HIS:HA	2.07	0.55
23:DB:2849:U:N3	23:DB:2867:G:H1'	2.22	0.55
23:DB:2899:A:H2'	23:DB:2900:A:C8	2.42	0.55
25:DC:212:TRP:CZ3	25:DC:217:PRO:HD3	2.38	0.55
30:DH:1:MET:HG3	30:DH:21:VAL:CG2	2.36	0.55
34:DM:42:THR:HG22	34:DM:45:GLN:NE2	2.22	0.55
36:DO:25:ARG:HG2	36:DO:94:ARG:HH22	1.72	0.55
37:DP:18:SER:HB2	37:DP:87:ARG:NH2	2.22	0.55
1:AA:415:A:H3'	1:AA:416:G:H8	1.72	0.55
1:AA:1243:C:H2'	1:AA:1244:G:C8	2.41	0.55
1:AA:1250:A:H4'	8:AI:69:GLY:N	2.22	0.55
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.22	0.55
3:AD:117:VAL:HG12	3:AD:130:ASN:HA	1.88	0.55
5:AF:61:LEU:HD12	5:AF:63:ASN:OD1	2.07	0.55
6:AG:45:ALA:HB1	6:AG:120:ALA:HB2	1.88	0.55
15:AP:42:ILE:HB	15:AP:46:LYS:CD	2.36	0.55
20:AB:163:ILE:CG2	20:AB:164:ASP:H	1.98	0.55
23:BB:272:A:H2'	23:BB:273:G:C8	2.41	0.55
23:BB:796:C:H2'	23:BB:797:G:C8	2.41	0.55
23:BB:1155:A:H61	45:BY:10:ARG:HH22	1.53	0.55
23:BB:2212:A:N7	23:BB:2214:C:N4	2.54	0.55
25:BC:155:ARG:O	25:BC:157:ALA:N	2.39	0.55
25:BC:222:THR:HA	25:BC:231:HIS:CE1	2.42	0.55
25:BC:235:GLU:HG3	25:BC:237:ARG:HD3	1.89	0.55
25:BC:238:ASN:HB3	25:BC:242:HIS:NE2	2.21	0.55
30:BH:56:ALA:HB3	30:BH:57:LYS:NZ	2.21	0.55
31:BJ:1:MET:SD	39:BR:14:VAL:HG21	2.47	0.55
32:BK:104:THR:O	32:BK:107:LEU:HB3	2.07	0.55
37:BP:47:ILE:CG2	37:BP:63:ILE:HG23	2.34	0.55
37:BP:63:ILE:O	37:BP:72:VAL:HG12	2.07	0.55
37:BP:76:HIS:CD2	37:BP:76:HIS:N	2.74	0.55
41:BT:30:ILE:HG22	41:BT:84:TYR:O	2.07	0.55
44:BX:41:HIS:HB2	44:BX:45:GLN:OE1	2.06	0.55
52:BI:138:VAL:HG12	52:BI:139:VAL:N	2.21	0.55
1:CA:556:C:O2'	1:CA:557:G:H5'	2.06	0.55
1:CA:1414:U:H2'	1:CA:1415:G:H8	1.72	0.55
3:CD:115:GLN:NE2	3:CD:153:ARG:HH12	2.05	0.55
3:CD:195:ASN:HB3	3:CD:197:HIS:NE2	2.22	0.55
9:CJ:85:ASP:HB2	9:CJ:89:ARG:CZ	2.36	0.55
11:CL:23:LEU:O	11:CL:25:ALA:N	2.39	0.55
15:CP:60:TRP:HB3	15:CP:65:ALA:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:143:C:N3	41:DT:3:ARG:NH1	2.54	0.55
23:DB:545:U:H3'	23:DB:546:U:C5'	2.36	0.55
23:DB:667:U:H2'	23:DB:668:A:O4'	2.07	0.55
23:DB:878:A:H1'	23:DB:899:A:H62	1.72	0.55
23:DB:2090:A:H2'	46:DZ:49:ARG:CZ	2.35	0.55
23:DB:2097:A:H2'	23:DB:2098:U:C6	2.41	0.55
23:DB:2233:U:H2'	23:DB:2234:G:C8	2.42	0.55
23:DB:2305:U:H1'	28:DF:132:ARG:HG2	1.88	0.55
23:DB:2369:A:O2'	23:DB:2370:G:H5'	2.06	0.55
23:DB:2873:A:N3	35:DN:6:SER:HA	2.21	0.55
29:DG:36:LEU:HB2	29:DG:40:VAL:HG11	1.89	0.55
35:DN:33:ILE:CG2	35:DN:112:TYR:HB3	2.37	0.55
36:DO:106:LEU:O	36:DO:109:ALA:HB3	2.07	0.55
37:DP:51:ASN:C	37:DP:60:VAL:HG11	2.27	0.55
42:DU:33:VAL:CB	42:DU:65:GLN:HA	2.32	0.55
42:DU:95:PHE:CD2	42:DU:99:SER:HB3	2.40	0.55
45:DY:1:ALA:O	45:DY:43:ILE:HB	2.07	0.55
51:D4:15:LYS:C	51:D4:17:VAL:H	2.10	0.55
51:D4:24:ARG:CB	51:D4:36:ARG:HA	2.37	0.55
1:AA:398:U:H2'	1:AA:399:G:C8	2.42	0.55
1:AA:810:C:O2'	1:AA:811:C:H5'	2.06	0.55
1:AA:921:U:H2'	1:AA:922:G:O4'	2.06	0.55
1:AA:1008:U:H2'	1:AA:1009:U:H4'	1.88	0.55
1:AA:1027:C:H2'	1:AA:1028:C:C6	2.41	0.55
1:AA:1111:A:HO2'	1:AA:1112:C:H6	1.54	0.55
1:AA:1363:A:N3	1:AA:1363:A:H2'	2.22	0.55
5:AF:46:GLN:HA	5:AF:56:LYS:HG3	1.88	0.55
7:AH:29:SER:CB	7:AH:32:LYS:HZ2	2.19	0.55
9:AJ:24:GLU:OE1	9:AJ:90:LEU:HD22	2.06	0.55
14:AO:70:LYS:HZ1	14:AO:74:VAL:HA	1.71	0.55
16:AQ:10:ARG:CZ	16:AQ:56:ASP:H	2.20	0.55
23:BB:142:A:H2'	23:BB:143:C:C5	2.42	0.55
23:BB:663:G:OP1	33:BL:27:LEU:HD21	2.07	0.55
23:BB:1742:U:H2'	23:BB:1743:G:C8	2.42	0.55
23:BB:1903:G:OP1	25:BC:239:PHE:HA	2.05	0.55
25:BC:124:LYS:CB	25:BC:125:PRO:CD	2.71	0.55
30:BH:4:ILE:C	30:BH:37:VAL:HG12	2.26	0.55
30:BH:26:ALA:HA	30:BH:30:LEU:HB2	1.88	0.55
31:BJ:7:LYS:C	31:BJ:9:GLU:H	2.10	0.55
31:BJ:35:ARG:HE	31:BJ:39:LYS:HB3	1.71	0.55
41:BT:50:LEU:C	41:BT:52:GLU:H	2.08	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:14:LEU:HG	44:BX:53:VAL:HG12	1.88	0.55
52:BI:46:ASP:HA	52:BI:50:LYS:HG3	1.87	0.55
52:BI:102:ARG:HD3	52:BI:141:ASP:CG	2.27	0.55
1:CA:844:G:N2	1:CA:845:A:H62	2.04	0.55
1:CA:845:A:H3'	1:CA:846:G:O4'	2.06	0.55
1:CA:1171:A:H2'	1:CA:1172:C:H6	1.71	0.55
2:CC:110:LEU:O	2:CC:110:LEU:HG	2.07	0.55
12:CM:106:ARG:CA	12:CM:106:ARG:HH11	2.20	0.55
23:DB:299:A:N6	23:DB:322:A:H1'	2.21	0.55
23:DB:906:U:H4'	34:DM:26:VAL:HG12	1.88	0.55
23:DB:2839:G:H4'	35:DN:49:GLU:HG2	1.87	0.55
23:DB:2895:G:H2'	23:DB:2896:C:H6	1.66	0.55
25:DC:65:ASP:OD2	25:DC:101:ARG:HD3	2.07	0.55
25:DC:144:GLU:HB2	25:DC:187:CYS:HB2	1.89	0.55
26:DD:181:ASP:CG	26:DD:184:ARG:HB3	2.27	0.55
27:DE:4:VAL:HA	27:DE:14:VAL:HG13	1.87	0.55
27:DE:130:LYS:HB2	27:DE:130:LYS:NZ	2.21	0.55
27:DE:163:ASN:HB2	27:DE:167:VAL:O	2.07	0.55
28:DF:7:TYR:HA	28:DF:11:VAL:CB	2.34	0.55
30:DH:126:GLY:O	30:DH:145:ASN:HA	2.06	0.55
31:DJ:15:TRP:CE3	31:DJ:138:GLN:HB2	2.42	0.55
31:DJ:94:ALA:HB1	31:DJ:95:ARG:HH21	1.70	0.55
37:DP:27:VAL:HG22	37:DP:28:LYS:C	2.26	0.55
37:DP:86:LYS:CE	37:DP:88:ARG:HB2	2.37	0.55
37:DP:93:LYS:HD3	37:DP:96:LEU:HA	1.88	0.55
41:DT:54:GLU:HB3	41:DT:91:GLN:OE1	2.06	0.55
42:DU:82:VAL:HB	42:DU:94:PHE:HB3	1.89	0.55
43:DW:20:LEU:CD1	43:DW:31:LEU:HB2	2.32	0.55
44:DX:22:LEU:HD11	44:DX:47:ARG:CZ	2.37	0.55
1:AA:521:G:OP2	11:AL:50:LYS:HE3	2.06	0.55
1:AA:532:A:H62	2:AC:191:THR:HB	1.72	0.55
1:AA:764:C:C2'	1:AA:765:G:H5'	2.37	0.55
1:AA:1473:G:H2'	1:AA:1474:U:O4'	2.07	0.55
11:AL:3:VAL:O	11:AL:7:VAL:HG23	2.06	0.55
12:AM:13:HIS:HB2	12:AM:16:ILE:CG2	2.37	0.55
13:AN:81:ILE:HD12	13:AN:82:LYS:H	1.72	0.55
23:BB:718:A:H3'	23:BB:719:C:H6	1.71	0.55
23:BB:753:A:H2'	23:BB:754:U:C6	2.42	0.55
23:BB:898:C:H2'	23:BB:899:A:C8	2.41	0.55
23:BB:934:U:H2'	23:BB:935:C:H6	1.71	0.55
23:BB:986:C:O2'	23:BB:987:C:H5'	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1641:A:H2'	23:BB:1642:G:O4'	2.07	0.55
23:BB:1676:A:O4'	26:BD:134:HIS:HB3	2.06	0.55
23:BB:1818:U:OP1	25:BC:155:ARG:HA	2.06	0.55
23:BB:1847:A:H4'	23:BB:1848:A:C8	2.42	0.55
23:BB:2527:C:H5''	51:B4:31:PRO:HB2	1.89	0.55
23:BB:2849:U:N3	23:BB:2867:G:H1'	2.22	0.55
25:BC:129:LEU:CD2	25:BC:133:ASN:HB2	2.37	0.55
26:BD:2:ILE:HG21	26:BD:203:VAL:O	2.07	0.55
28:BF:121:PHE:CZ	28:BF:169:LEU:HD12	2.42	0.55
31:BJ:45:THR:HG22	38:BQ:63:ARG:HH22	1.72	0.55
37:BP:7:LEU:HD13	37:BP:11:GLN:HG2	1.88	0.55
39:BR:80:ARG:HG3	39:BR:80:ARG:O	2.07	0.55
41:BT:62:VAL:O	41:BT:63:VAL:O	2.24	0.55
42:BU:25:LYS:HG2	42:BU:35:VAL:HG22	1.87	0.55
1:CA:370:C:H2'	1:CA:371:A:C8	2.42	0.55
1:CA:436:C:O2'	1:CA:437:U:H5'	2.06	0.55
1:CA:1250:A:H4'	8:CI:69:GLY:N	2.13	0.55
8:CI:24:ASN:OD1	8:CI:26:LYS:HG2	2.07	0.55
8:CI:50:PRO:HD3	8:CI:79:ARG:HD3	1.89	0.55
9:CJ:66:GLU:HG2	9:CJ:67:ILE:N	2.22	0.55
10:CK:126:ARG:HH11	10:CK:126:ARG:HG2	1.71	0.55
13:CN:89:ARG:NH1	13:CN:91:GLU:HG3	2.21	0.55
16:CQ:16:MET:HB3	16:CQ:19:SER:HB2	1.87	0.55
22:DA:49:C:H2'	22:DA:50:A:C8	2.42	0.55
23:DB:21:A:H2'	23:DB:22:C:C6	2.42	0.55
23:DB:499:U:H2'	23:DB:500:G:O4'	2.07	0.55
23:DB:1250:G:H4'	38:DQ:5:ARG:HD3	1.88	0.55
23:DB:1387:A:H2'	23:DB:1388:G:C8	2.39	0.55
23:DB:1789:A:OP1	25:DC:219:VAL:HG12	2.05	0.55
23:DB:1939:U:H5'	23:DB:1939:U:H6	1.72	0.55
23:DB:2771:C:H2'	23:DB:2772:C:C6	2.41	0.55
23:DB:2836:U:H2'	23:DB:2837:A:C8	2.42	0.55
26:DD:5:VAL:HG22	26:DD:51:THR:O	2.06	0.55
29:DG:34:ARG:NH1	29:DG:70:LEU:HG	2.21	0.55
30:DH:122:LEU:HA	30:DH:146:VAL:CG2	2.36	0.55
32:DK:63:VAL:CG1	32:DK:103:VAL:HG12	2.37	0.55
34:DM:40:ARG:HA	34:DM:92:TRP:NE1	2.20	0.55
36:DO:30:ARG:O	36:DO:31:THR:HB	2.06	0.55
38:DQ:2:ARG:HB3	38:DQ:4:LYS:HZ1	1.72	0.55
40:DS:3:THR:HG22	40:DS:4:ILE:N	2.22	0.55
40:DS:20:VAL:O	40:DS:24:ILE:HG13	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:86:THR:O	41:DT:87:LEU:HB2	2.06	0.55
46:DZ:41:HIS:ND1	46:DZ:42:PRO:HD2	2.21	0.55
48:D1:7:LYS:HB3	48:D1:24:LYS:NZ	2.22	0.55
1:AA:37:U:OP1	11:AL:119:LYS:HE3	2.07	0.55
1:AA:173:U:H5'	1:AA:197:A:O4'	2.07	0.55
1:AA:190:A:H2'	1:AA:191:G:O4'	2.07	0.55
1:AA:408:A:H5'	3:AD:21:LYS:HE2	1.88	0.55
1:AA:764:C:H2'	1:AA:765:G:H5'	1.87	0.55
1:AA:801:U:H2'	1:AA:802:A:C8	2.42	0.55
1:AA:978:A:HO2'	1:AA:1322:C:H5	1.52	0.55
5:AF:100:SER:HA	17:AR:23:LYS:NZ	2.21	0.55
7:AH:93:LYS:HZ2	7:AH:93:LYS:H	1.54	0.55
8:AI:51:LEU:HD11	8:AI:82:ILE:HD13	1.87	0.55
9:AJ:55:PRO:HA	13:AN:80:ARG:NH2	2.21	0.55
23:BB:6:A:H2'	23:BB:7:G:C8	2.42	0.55
23:BB:650:C:H5''	50:B3:22:LYS:NZ	2.22	0.55
23:BB:1118:C:H5''	24:BV:84:PRO:HD2	1.89	0.55
23:BB:1155:A:H61	45:BY:10:ARG:HH12	1.54	0.55
23:BB:1332:G:N3	23:BB:1332:G:H2'	2.21	0.55
23:BB:1506:U:H2'	23:BB:1507:C:C6	2.42	0.55
23:BB:1551:A:C3'	23:BB:1552:A:H5''	2.37	0.55
23:BB:1816:C:C5	25:BC:62:ARG:HD2	2.42	0.55
23:BB:2578:G:N3	26:BD:145:SER:CB	2.70	0.55
26:BD:48:ILE:HD12	26:BD:80:TRP:HE1	1.72	0.55
26:BD:58:ASN:O	26:BD:59:ARG:HB2	2.06	0.55
29:BG:86:LEU:HD12	29:BG:161:VAL:HG12	1.88	0.55
31:BJ:15:TRP:HB3	31:BJ:53:TYR:CD2	2.41	0.55
32:BK:76:VAL:O	37:BP:73:PHE:HA	2.06	0.55
33:BL:117:THR:CG2	33:BL:120:VAL:HB	2.36	0.55
37:BP:25:VAL:HG13	37:BP:88:ARG:N	2.09	0.55
42:BU:25:LYS:HA	42:BU:35:VAL:H	1.70	0.55
1:CA:372:C:H1'	1:CA:373:A:OP2	2.07	0.55
1:CA:391:G:HO2'	1:CA:482:A:H2	1.55	0.55
1:CA:575:G:H4'	1:CA:576:C:O5'	2.07	0.55
1:CA:1036:A:H2'	1:CA:1037:C:C6	2.42	0.55
1:CA:1143:G:H2'	1:CA:1144:G:H8	1.72	0.55
5:CF:99:ALA:HA	17:CR:23:LYS:HE2	1.89	0.55
9:CJ:83:THR:HG22	9:CJ:83:THR:O	2.07	0.55
10:CK:22:ILE:HD13	10:CK:95:THR:HG23	1.89	0.55
10:CK:73:VAL:O	10:CK:76:TYR:HB2	2.07	0.55
11:CL:54:VAL:HG11	11:CL:79:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CM:10:ASP:HA	12:CM:44:ILE:CD1	2.36	0.55
14:CO:2:LEU:O	14:CO:3:SER:HB3	2.07	0.55
20:CB:26:MET:HG3	20:CB:188:THR:O	2.05	0.55
23:DB:106:C:H2'	23:DB:107:G:H8	1.71	0.55
23:DB:527:C:O4'	23:DB:527:C:O2	2.23	0.55
23:DB:753:A:H2'	23:DB:754:U:C6	2.42	0.55
23:DB:818:G:H3'	23:DB:1187:G:H22	1.71	0.55
23:DB:1117:C:H1'	34:DM:136:MET:HE1	1.89	0.55
23:DB:2533:U:H2'	23:DB:2534:A:O4'	2.07	0.55
24:DV:21:ARG:HH21	24:DV:88:HIS:N	2.05	0.55
31:DJ:90:GLU:HG3	31:DJ:93:ILE:HD12	1.88	0.55
33:DL:62:PRO:HB3	50:D3:12:ARG:CZ	2.36	0.55
33:DL:63:LYS:HG3	33:DL:64:PHE:H	1.72	0.55
37:DP:52:ARG:HB3	37:DP:60:VAL:CG1	2.36	0.55
1:AA:1100:C:O2'	1:AA:1101:A:H5'	2.07	0.55
1:AA:1111:A:O2'	1:AA:1112:C:H6	1.90	0.55
1:AA:1479:C:H2'	1:AA:1480:A:H8	1.71	0.55
2:AC:21:TRP:CB	2:AC:58:ARG:HB2	2.37	0.55
2:AC:53:ARG:HG2	2:AC:54:ILE:H	1.72	0.55
2:AC:166:TRP:HA	2:AC:166:TRP:CE3	2.42	0.55
8:AI:23:GLY:O	8:AI:24:ASN:HB2	2.06	0.55
10:AK:113:THR:HG21	21:AU:28:LEU:HD21	1.88	0.55
18:AS:20:LYS:O	18:AS:23:GLU:HB3	2.07	0.55
23:BB:37:C:H2'	27:BE:46:GLN:CB	2.36	0.55
23:BB:346:A:H5'	23:BB:346:A:N3	2.22	0.55
23:BB:598:U:H2'	23:BB:599:A:C8	2.42	0.55
23:BB:633:A:OP1	33:BL:69:ARG:HB2	2.07	0.55
23:BB:1242:U:H2'	23:BB:1243:C:C6	2.42	0.55
23:BB:1270:C:H5''	23:BB:1271:G:O5'	2.06	0.55
23:BB:1583:A:H4'	23:BB:1585:C:C4	2.42	0.55
23:BB:2678:C:H2'	23:BB:2679:A:C8	2.42	0.55
54:BB:3363:HOH:O	35:BN:15:SER:HB3	2.07	0.55
26:BD:11:MET:SD	37:BP:9:GLN:HG2	2.46	0.55
26:BD:138:LEU:N	26:BD:138:LEU:CD2	2.66	0.55
29:BG:116:LEU:HD21	29:BG:120:ILE:HB	1.88	0.55
30:BH:31:VAL:HG22	30:BH:37:VAL:HG22	1.89	0.55
31:BJ:25:LEU:N	31:BJ:25:LEU:HD13	2.21	0.55
31:BJ:57:LEU:HD12	31:BJ:128:ASN:HA	1.89	0.55
31:BJ:80:HIS:O	31:BJ:81:ILE:C	2.45	0.55
32:BK:58:LEU:HB3	32:BK:89:ASN:HD21	1.70	0.55
33:BL:60:ARG:HA	33:BL:60:ARG:HH11	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:86:ARG:HH21	35:BN:116:VAL:CG1	2.20	0.55
36:BO:24:THR:OG1	36:BO:91:SER:HA	2.07	0.55
38:BQ:73:ILE:HG13	38:BQ:77:LYS:HD2	1.88	0.55
39:BR:66:HIS:HA	39:BR:98:ILE:HD13	1.89	0.55
40:BS:56:ALA:C	40:BS:58:ALA:H	2.11	0.55
43:BW:43:LYS:HA	43:BW:63:ASP:OD1	2.07	0.55
47:B0:9:ARG:O	47:B0:11:LYS:N	2.40	0.55
1:CA:476:U:H2'	1:CA:477:C:H6	1.72	0.55
1:CA:600:A:H2'	1:CA:601:G:H8	1.72	0.55
1:CA:1026:G:H2'	1:CA:1027:C:H6	1.72	0.55
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.06	0.55
1:CA:1283:U:O2'	1:CA:1284:C:H5'	2.07	0.55
5:CF:38:ARG:HH21	5:CF:63:ASN:HD21	1.54	0.55
10:CK:28:ASN:HD21	10:CK:47:GLY:N	2.00	0.55
22:DA:10:G:H2'	22:DA:11:C:O4'	2.06	0.55
23:DB:155:A:H2'	23:DB:156:A:C8	2.42	0.55
23:DB:2093:G:O2'	23:DB:2094:A:H5'	2.07	0.55
23:DB:2803:G:H2'	23:DB:2804:U:C6	2.41	0.55
23:DB:2820:A:C6	26:DD:197:THR:HB	2.42	0.55
24:DV:76:ASP:H	24:DV:90:ASP:HB2	1.71	0.55
25:DC:86:ARG:C	25:DC:155:ARG:HH12	2.10	0.55
25:DC:137:GLY:O	25:DC:140:VAL:HG13	2.07	0.55
26:DD:4:LEU:HB3	26:DD:202:ILE:HA	1.88	0.55
29:DG:3:VAL:CG2	29:DG:4:ALA:N	2.69	0.55
32:DK:78:ARG:HG2	37:DP:72:VAL:HG21	1.89	0.55
37:DP:7:LEU:HA	37:DP:10:GLU:CD	2.27	0.55
39:DR:76:LYS:HB3	39:DR:90:ARG:CB	2.37	0.55
41:DT:15:HIS:HB3	41:DT:31:VAL:HG11	1.87	0.55
47:D0:32:THR:HG21	47:D0:41:HIS:CD2	2.41	0.55
52:DI:7:TYR:CE1	52:DI:57:VAL:HG11	2.41	0.55
1:AA:845:A:H3'	1:AA:846:G:O4'	2.06	0.55
1:AA:1310:G:H2'	1:AA:1311:A:O4'	2.07	0.55
2:AC:126:ARG:HH22	2:AC:190:THR:HG22	1.72	0.55
8:AI:49:GLN:NE2	8:AI:79:ARG:HD2	2.22	0.55
11:AL:30:ARG:HH11	11:AL:30:ARG:CB	2.19	0.55
16:AQ:45:VAL:HG11	16:AQ:74:LEU:HB2	1.89	0.55
20:AB:67:LEU:HD21	20:AB:157:PRO:CG	2.37	0.55
20:AB:112:ARG:HA	20:AB:115:ASP:OD2	2.07	0.55
21:AU:36:PHE:CB	21:AU:40:PRO:HD3	2.35	0.55
22:BA:78:A:H2'	22:BA:79:G:O4'	2.07	0.55
23:BB:770:G:O2'	23:BB:771:G:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:922:C:H2'	23:BB:923:G:C8	2.42	0.55
23:BB:988:A:H3'	45:BY:12:ALA:HB2	1.89	0.55
23:BB:1006:C:O2'	23:BB:1007:C:H5'	2.07	0.55
23:BB:1060:U:O2	23:BB:1088:A:C8	2.61	0.55
23:BB:2066:C:O2'	23:BB:2067:G:H5'	2.07	0.55
23:BB:2240:U:O2'	23:BB:2241:A:H5'	2.07	0.55
26:BD:86:GLU:HG2	26:BD:87:GLY:H	1.71	0.55
27:BE:29:HIS:O	27:BE:33:VAL:HG23	2.07	0.55
29:BG:163:TYR:HB2	29:BG:166:GLU:HB2	1.88	0.55
30:BH:82:SER:H	30:BH:146:VAL:CG1	2.10	0.55
34:BM:3:GLN:HB3	34:BM:46:ILE:HB	1.89	0.55
36:BO:20:GLU:HB3	36:BO:23:ALA:CB	2.37	0.55
36:BO:76:LYS:HB2	36:BO:106:LEU:HD22	1.88	0.55
39:BR:39:LEU:HG	39:BR:41:ILE:CG1	2.37	0.55
39:BR:48:LYS:HG3	39:BR:49:ILE:CD1	2.37	0.55
40:BS:85:ILE:HG22	40:BS:86:MET:N	2.22	0.55
48:B1:8:ILE:HG23	48:B1:27:ARG:HE	1.72	0.55
49:B2:8:SER:OG	49:B2:11:LYS:HB2	2.07	0.55
1:CA:208:U:H2'	1:CA:210:C:C5	2.42	0.55
1:CA:411:A:O2'	1:CA:412:A:H4'	2.07	0.55
1:CA:477:C:H2'	1:CA:478:A:C8	2.42	0.55
1:CA:642:A:H2'	1:CA:643:C:C6	2.42	0.55
1:CA:1254:A:H2'	1:CA:1255:G:H8	1.70	0.55
1:CA:1380:U:O4	6:CG:2:ARG:HB2	2.06	0.55
4:CE:23:THR:HA	4:CE:28:ARG:HA	1.88	0.55
5:CF:29:ILE:CG2	5:CF:34:GLY:HA3	2.37	0.55
5:CF:39:LEU:HD13	5:CF:39:LEU:O	2.06	0.55
5:CF:86:ARG:HH11	17:CR:63:TYR:HB3	1.72	0.55
7:CH:54:THR:HG23	7:CH:55:LYS:HG2	1.88	0.55
14:CO:88:ARG:HH11	14:CO:88:ARG:HG3	1.72	0.55
15:CP:40:ASN:ND2	15:CP:42:ILE:HG12	2.20	0.55
19:CT:68:LYS:HE2	19:CT:68:LYS:HA	1.87	0.55
21:CU:16:ARG:C	21:CU:18:PHE:N	2.60	0.55
22:DA:59:A:H2'	22:DA:60:C:O4'	2.07	0.55
23:DB:823:C:O2'	23:DB:824:U:H5'	2.07	0.55
23:DB:1429:G:H2'	23:DB:1430:G:C8	2.42	0.55
23:DB:2386:A:C4'	43:DW:38:ARG:HB2	2.37	0.55
23:DB:2466:C:O2	34:DM:118:LYS:HD3	2.07	0.55
26:DD:146:ILE:HD12	26:DD:146:ILE:N	2.22	0.55
32:DK:11:ALA:O	32:DK:99:ILE:HG23	2.07	0.55
33:DL:37:GLY:O	33:DL:38:GLN:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DO:27:VAL:HG23	36:DO:28:VAL:H	1.70	0.55
39:DR:76:LYS:HB3	39:DR:90:ARG:HG2	1.88	0.55
43:DW:38:ARG:HG3	43:DW:39:GLN:N	2.21	0.55
44:DX:1:MET:H3	44:DX:6:LEU:HD23	1.72	0.55
1:AA:393:A:H5'	1:AA:483:C:O2'	2.06	0.54
1:AA:1427:C:O2'	1:AA:1428:A:H5'	2.07	0.54
2:AC:78:LYS:CG	2:AC:81:GLU:HB2	2.24	0.54
4:AE:95:MET:HE2	4:AE:114:LEU:HD11	1.88	0.54
10:AK:110:THR:CG2	21:AU:4:LYS:HA	2.37	0.54
12:AM:2:ARG:NH2	28:BF:142:TYR:HB3	2.23	0.54
20:AB:113:LEU:HG	20:AB:143:LEU:HB3	1.89	0.54
23:BB:2218:G:H2'	23:BB:2219:U:H6	1.71	0.54
23:BB:2576:G:N2	26:BD:149:ASN:ND2	2.54	0.54
23:BB:2820:A:O4'	35:BN:4:ARG:HB2	2.07	0.54
23:BB:2893:A:H5''	23:BB:2894:G:H5'	1.90	0.54
25:BC:27:LYS:HA	25:BC:79:ARG:NH1	2.22	0.54
28:BF:165:GLY:HA2	28:BF:168:LEU:HD21	1.87	0.54
32:BK:119:ALA:O	32:BK:120:PRO:C	2.44	0.54
36:BO:40:ILE:HG22	36:BO:48:LEU:O	2.06	0.54
38:BQ:51:GLN:O	38:BQ:54:ARG:HG2	2.07	0.54
44:BX:30:MET:CG	44:BX:31:GLN:H	2.11	0.54
44:BX:45:GLN:H	44:BX:45:GLN:NE2	2.05	0.54
50:B3:7:ARG:NE	50:B3:11:LYS:NZ	2.54	0.54
1:CA:1093:A:P	6:CG:3:ARG:HH22	2.30	0.54
1:CA:1320:C:OP2	18:CS:2:ARG:HB3	2.06	0.54
7:CH:77:VAL:HG23	7:CH:126:CYS:HA	1.88	0.54
9:CJ:22:THR:O	9:CJ:26:VAL:HG23	2.06	0.54
9:CJ:37:ARG:HG2	9:CJ:37:ARG:NH1	2.22	0.54
9:CJ:65:TYR:HE1	13:CN:84:ARG:HA	1.71	0.54
23:DB:170:U:H2'	23:DB:171:U:H6	1.72	0.54
23:DB:225:C:H2'	23:DB:226:A:O4'	2.06	0.54
23:DB:1771:C:H2'	23:DB:1772:A:C8	2.42	0.54
23:DB:1804:C:O2'	23:DB:1805:A:H5'	2.07	0.54
23:DB:2809:A:H2'	23:DB:2810:A:C8	2.41	0.54
26:DD:24:VAL:HG13	26:DD:193:VAL:HG21	1.87	0.54
27:DE:99:LYS:H3	27:DE:99:LYS:C	2.11	0.54
28:DF:4:HIS:O	28:DF:7:TYR:HB3	2.06	0.54
30:DH:50:ARG:HG3	30:DH:51:ARG:N	2.22	0.54
31:DJ:7:LYS:HE3	31:DJ:47:HIS:HD2	1.72	0.54
38:DQ:50:ARG:HH12	38:DQ:53:LYS:HE3	1.72	0.54
40:DS:23:LEU:CB	47:D0:21:LEU:HD22	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:49:LYS:O	41:DT:50:LEU:HG	2.07	0.54
43:DW:67:LYS:HG2	43:DW:71:LYS:CB	2.37	0.54
43:DW:69:GLU:HG3	43:DW:70:VAL:H	1.72	0.54
51:D4:24:ARG:HE	51:D4:37:GLN:N	2.03	0.54
1:AA:32:A:H2'	1:AA:33:A:C8	2.41	0.54
1:AA:332:G:OP2	19:AT:2:ASN:HB3	2.06	0.54
1:AA:370:C:H2'	1:AA:371:A:C8	2.42	0.54
8:AI:38:PHE:O	8:AI:44:ARG:HG2	2.07	0.54
11:AL:58:ASN:ND2	11:AL:58:ASN:H	2.05	0.54
18:AS:4:LEU:CD1	18:AS:9:PHE:H	2.17	0.54
20:AB:148:GLY:HA2	20:AB:151:LYS:HD3	1.89	0.54
23:BB:111:A:H2'	23:BB:112:U:O4'	2.06	0.54
23:BB:651:G:P	50:B3:16:THR:HB	2.47	0.54
23:BB:664:G:H2'	23:BB:665:U:C6	2.42	0.54
23:BB:2751:G:OP1	29:BG:1:SER:HB2	2.07	0.54
23:BB:2839:G:H2'	23:BB:2840:C:C6	2.42	0.54
26:BD:150:GLN:C	26:BD:151:THR:CG2	2.75	0.54
28:BF:33:ILE:HD11	28:BF:90:LEU:HB2	1.90	0.54
29:BG:5:LYS:HG3	29:BG:68:ARG:HB2	1.89	0.54
29:BG:126:THR:C	29:BG:128:THR:H	2.11	0.54
33:BL:77:ILE:HG22	33:BL:78:ARG:CZ	2.37	0.54
34:BM:3:GLN:HG2	34:BM:46:ILE:HB	1.89	0.54
34:BM:69:PRO:O	34:BM:70:ASP:HB3	2.06	0.54
39:BR:35:PHE:HB2	39:BR:64:VAL:HG21	1.88	0.54
40:BS:29:VAL:HG22	40:BS:71:VAL:HG23	1.89	0.54
43:BW:6:GLY:O	43:BW:8:SER:N	2.40	0.54
1:CA:313:A:H2'	1:CA:314:C:C6	2.42	0.54
1:CA:712:A:O2'	1:CA:713:G:H5'	2.07	0.54
1:CA:824:G:O2'	1:CA:825:A:H5'	2.07	0.54
1:CA:1308:U:H2'	1:CA:1309:G:C8	2.43	0.54
3:CD:104:MET:SD	3:CD:179:GLY:HA2	2.46	0.54
8:CI:15:ALA:O	8:CI:66:VAL:HA	2.07	0.54
8:CI:94:ARG:HG3	8:CI:98:ARG:NH2	2.22	0.54
16:CQ:45:VAL:HG11	16:CQ:60:ILE:HG21	1.89	0.54
17:CR:51:GLN:HE21	17:CR:54:LEU:HB2	1.72	0.54
18:CS:28:LYS:H	18:CS:28:LYS:HZ3	1.53	0.54
23:DB:175:G:H2'	23:DB:176:A:C8	2.42	0.54
23:DB:326:G:O2'	23:DB:327:G:H5'	2.07	0.54
23:DB:543:G:C5	23:DB:544:C:H1'	2.42	0.54
23:DB:963:U:H2'	23:DB:964:C:C6	2.42	0.54
23:DB:1099:G:C4'	52:DI:3:LYS:C	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1506:U:H2'	23:DB:1507:C:C6	2.43	0.54
23:DB:1551:A:H3'	23:DB:1552:A:H5''	1.89	0.54
25:DC:171:VAL:HG23	25:DC:182:LYS:NZ	2.21	0.54
26:DD:37:VAL:HG11	26:DD:46:ARG:HD3	1.89	0.54
27:DE:151:GLY:HA2	27:DE:169:VAL:O	2.08	0.54
29:DG:163:TYR:HB2	29:DG:166:GLU:HG3	1.88	0.54
30:DH:3:VAL:HG22	30:DH:21:VAL:CG1	2.26	0.54
31:DJ:96:ARG:CD	31:DJ:99:ARG:HH21	2.19	0.54
33:DL:8:PRO:O	33:DL:9:ALA:HB2	2.07	0.54
40:DS:22:ASP:C	40:DS:24:ILE:H	2.10	0.54
40:DS:29:VAL:O	40:DS:33:LEU:HD23	2.08	0.54
42:DU:23:LYS:O	42:DU:25:LYS:HD2	2.07	0.54
42:DU:25:LYS:HA	42:DU:25:LYS:NZ	2.23	0.54
43:DW:82:GLU:HG3	43:DW:83:ALA:N	2.23	0.54
44:DX:1:MET:HB2	44:DX:6:LEU:CA	2.38	0.54
47:D0:29:VAL:HG21	47:D0:34:GLY:H	1.73	0.54
49:D2:18:PHE:CE2	49:D2:44:VAL:HB	2.42	0.54
1:AA:1160:G:H2'	1:AA:1161:C:H6	1.72	0.54
1:AA:1512:U:O2'	1:AA:1513:A:H5'	2.07	0.54
4:AE:56:PRO:O	4:AE:60:GLN:HG3	2.07	0.54
12:AM:64:VAL:HG12	12:AM:65:GLU:H	1.71	0.54
13:AN:17:ASP:HA	13:AN:21:ALA:CB	2.37	0.54
14:AO:84:LEU:HD22	14:AO:86:LEU:HD11	1.89	0.54
20:AB:87:ASP:O	20:AB:88:GLN:HG3	2.07	0.54
20:AB:144:GLU:O	20:AB:148:GLY:HA3	2.06	0.54
23:BB:142:A:N3	41:BT:2:ILE:HG23	2.22	0.54
23:BB:277:G:H5''	23:BB:278:A:N7	2.22	0.54
23:BB:588:U:OP1	33:BL:28:GLY:HA2	2.07	0.54
23:BB:1130:U:O2'	23:BB:1131:G:H2'	2.07	0.54
23:BB:1254:A:H2'	27:BE:69:ARG:HH12	1.73	0.54
23:BB:1939:U:H5'	23:BB:1939:U:H6	1.72	0.54
23:BB:2273:A:H2'	23:BB:2274:A:C8	2.43	0.54
23:BB:2626:C:O2'	23:BB:2627:G:H5'	2.08	0.54
25:BC:21:PRO:N	25:BC:202:ARG:HD2	2.22	0.54
26:BD:146:ILE:HD12	26:BD:146:ILE:N	2.22	0.54
27:BE:187:VAL:HG23	27:BE:187:VAL:O	2.07	0.54
29:BG:17:LYS:O	29:BG:23:ILE:HD12	2.08	0.54
33:BL:78:ARG:NH2	33:BL:110:VAL:HG11	2.22	0.54
34:BM:58:LYS:C	34:BM:60:GLN:H	2.09	0.54
35:BN:113:ILE:HG22	35:BN:114:GLU:N	2.22	0.54
36:BO:16:ARG:O	36:BO:20:GLU:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:100:GLU:O	42:BU:102:ILE:HG13	2.08	0.54
46:BZ:59:ARG:HE	46:BZ:62:LYS:CD	2.18	0.54
1:CA:163:C:H2'	1:CA:164:G:O4'	2.06	0.54
1:CA:981:U:H2'	1:CA:982:U:C5	2.42	0.54
1:CA:1319:A:H2'	1:CA:1323:G:N7	2.22	0.54
2:CC:182:ASP:HB2	2:CC:203:LYS:HE2	1.88	0.54
7:CH:45:ILE:HG21	7:CH:60:LEU:HD11	1.88	0.54
9:CJ:64:GLN:CB	13:CN:98:ALA:HB3	2.37	0.54
13:CN:51:PRO:HB2	13:CN:54:SER:HB3	1.88	0.54
17:CR:72:ARG:HH21	21:CU:23:GLU:CG	2.19	0.54
20:CB:205:ALA:HB3	20:CB:208:ALA:HB3	1.89	0.54
23:DB:264:C:C2'	23:DB:265:A:H5''	2.37	0.54
23:DB:285:G:H2'	23:DB:286:U:O4'	2.07	0.54
23:DB:721:A:H2'	23:DB:722:A:H8	1.73	0.54
23:DB:1716:U:H2'	23:DB:1717:A:C8	2.42	0.54
23:DB:2246:G:H2'	23:DB:2247:A:C8	2.42	0.54
23:DB:2466:C:OP1	51:D4:5:ALA:HB3	2.07	0.54
26:DD:37:VAL:HG12	26:DD:44:GLY:O	2.07	0.54
26:DD:50:VAL:CG1	26:DD:75:ALA:HB3	2.37	0.54
27:DE:116:ASP:CB	27:DE:185:LYS:HA	2.37	0.54
27:DE:134:LEU:H	27:DE:134:LEU:HD13	1.71	0.54
30:DH:121:VAL:O	30:DH:122:LEU:HB2	2.07	0.54
42:DU:86:PHE:O	42:DU:87:GLU:C	2.46	0.54
1:AA:218:U:H2'	1:AA:219:U:C6	2.41	0.54
1:AA:477:C:H2'	1:AA:478:A:C8	2.42	0.54
1:AA:629:A:H2'	1:AA:630:A:O4'	2.06	0.54
1:AA:636:U:H2'	1:AA:637:C:C6	2.43	0.54
1:AA:766:A:H2'	1:AA:767:A:O4'	2.08	0.54
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.65	0.54
1:AA:1332:A:H2'	1:AA:1333:A:C8	2.42	0.54
8:AI:113:LYS:HG2	8:AI:114:LYS:N	2.22	0.54
16:AQ:64:ARG:HG3	16:AQ:65:PRO:HD2	1.89	0.54
23:BB:41:C:H2'	23:BB:42:A:C8	2.42	0.54
23:BB:404:A:H4'	23:BB:405:U:H5'	1.89	0.54
23:BB:498:G:O2'	23:BB:499:U:H5'	2.07	0.54
23:BB:926:G:H2'	23:BB:927:A:H8	1.73	0.54
23:BB:997:G:O2'	23:BB:998:C:H5'	2.07	0.54
23:BB:1000:A:H2'	23:BB:1001:A:C8	2.42	0.54
23:BB:1097:U:C2'	23:BB:1098:A:H5'	2.36	0.54
23:BB:2011:U:OP2	40:BS:16:LYS:HE3	2.07	0.54
23:BB:2206:C:O2'	23:BB:2207:C:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2849:U:H4'	23:BB:2850:A:C5'	2.38	0.54
26:BD:142:VAL:HB	26:BD:143:PRO:CD	2.37	0.54
27:BE:141:MET:SD	27:BE:143:LEU:HD22	2.48	0.54
29:BG:102:ILE:HG22	29:BG:114:HIS:O	2.06	0.54
30:BH:90:LEU:HD13	30:BH:123:ARG:O	2.08	0.54
32:BK:16:ALA:N	32:BK:46:ALA:HA	2.22	0.54
32:BK:108:ARG:HD2	32:BK:113:MET:HE1	1.89	0.54
32:BK:108:ARG:HD2	32:BK:113:MET:CE	2.38	0.54
33:BL:57:LEU:C	33:BL:59:ARG:H	2.11	0.54
37:BP:96:LEU:HG	37:BP:97:TYR:H	1.72	0.54
38:BQ:94:LEU:HD22	38:BQ:95:ALA:N	2.23	0.54
48:B1:35:LEU:C	48:B1:36:LYS:HD2	2.28	0.54
1:CA:393:A:H5'	1:CA:483:C:O2'	2.06	0.54
1:CA:403:C:O2'	1:CA:404:G:H5'	2.08	0.54
1:CA:1014:A:C2	1:CA:1219:A:H1'	2.42	0.54
1:CA:1057:G:O3'	2:CC:196:GLY:HA3	2.07	0.54
4:CE:19:ARG:O	4:CE:20:VAL:HB	2.06	0.54
6:CG:2:ARG:HB3	6:CG:2:ARG:HH11	1.71	0.54
6:CG:16:LYS:O	6:CG:16:LYS:HD3	2.06	0.54
9:CJ:11:LYS:HB2	9:CJ:97:ASP:HB3	1.88	0.54
18:CS:62:THR:HG23	18:CS:63:ASP:H	1.73	0.54
20:CB:45:THR:HG23	20:CB:200:PRO:HG2	1.89	0.54
22:DA:25:U:H4'	22:DA:27:C:OP1	2.08	0.54
23:DB:566:U:O2'	23:DB:567:U:H5'	2.07	0.54
23:DB:598:U:H2'	23:DB:599:A:C8	2.43	0.54
23:DB:686:U:H5''	49:D2:11:LYS:HE3	1.89	0.54
23:DB:1060:U:OP1	52:DI:75:ALA:HB3	2.06	0.54
23:DB:1341:G:H5'	41:DT:61:LEU:HD21	1.88	0.54
23:DB:2229:U:H2'	23:DB:2230:G:C8	2.42	0.54
23:DB:2294:G:OP1	36:DO:9:ARG:HD3	2.07	0.54
25:DC:12:ARG:HB2	25:DC:20:ASN:CA	2.33	0.54
25:DC:53:ILE:HG12	25:DC:218:THR:HA	1.89	0.54
25:DC:77:VAL:HB	25:DC:110:LYS:O	2.06	0.54
28:DF:108:PRO:HB3	28:DF:113:PHE:CE2	2.42	0.54
31:DJ:37:ARG:CZ	31:DJ:110:PRO:HG3	2.37	0.54
31:DJ:40:HIS:O	38:DQ:66:ALA:HB1	2.08	0.54
32:DK:87:LEU:HD22	32:DK:92:GLU:O	2.07	0.54
33:DL:119:PRO:HD3	33:DL:137:ALA:O	2.08	0.54
34:DM:88:ASN:O	34:DM:89:VAL:HG12	2.06	0.54
35:DN:73:ASN:O	35:DN:76:VAL:HG12	2.07	0.54
39:DR:26:ASP:O	39:DR:27:ILE:HB	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:64:LYS:HA	41:DT:79:ASP:HA	1.87	0.54
42:DU:60:LYS:HE3	42:DU:61:GLU:N	2.22	0.54
42:DU:78:LYS:HD2	42:DU:96:LYS:HG3	1.88	0.54
43:DW:42:THR:N	43:DW:65:LYS:HA	2.20	0.54
43:DW:42:THR:HG21	43:DW:66:VAL:HG13	1.90	0.54
44:DX:51:ALA:O	44:DX:53:VAL:HG12	2.07	0.54
48:D1:8:ILE:HD13	48:D1:9:LYS:N	2.22	0.54
48:D1:26:LYS:HE2	48:D1:28:THR:HB	1.89	0.54
50:D3:4:LYS:CE	50:D3:61:LEU:H	2.21	0.54
1:AA:930:C:H2'	1:AA:931:C:O4'	2.08	0.54
1:AA:973:G:H3'	1:AA:974:A:H5''	1.90	0.54
1:AA:1112:C:O2	2:AC:178:ARG:N	2.40	0.54
1:AA:1307:U:H2'	1:AA:1308:U:H6	1.72	0.54
19:AT:53:MET:O	19:AT:57:VAL:HG23	2.08	0.54
21:AU:39:LYS:N	21:AU:40:PRO:CD	2.69	0.54
22:BA:90:C:H2'	22:BA:91:C:O4'	2.08	0.54
23:BB:548:G:H5''	23:BB:549:G:O4'	2.07	0.54
23:BB:995:C:N4	31:BJ:2:LYS:HB3	2.22	0.54
23:BB:1252:G:O6	38:BQ:35:PHE:HB2	2.08	0.54
23:BB:1509:A:H5'	23:BB:1510:G:H5'	1.89	0.54
23:BB:2184:A:H2'	23:BB:2185:U:C6	2.42	0.54
23:BB:2785:C:H2'	23:BB:2786:U:C6	2.42	0.54
25:BC:154:ALA:C	25:BC:156:SER:H	2.11	0.54
26:BD:15:PHE:HB3	26:BD:18:ASP:HB2	1.89	0.54
26:BD:109:VAL:O	26:BD:172:VAL:HG22	2.06	0.54
30:BH:40:THR:O	30:BH:41:LYS:C	2.45	0.54
33:BL:123:ARG:HB3	33:BL:143:GLU:OE1	2.07	0.54
37:BP:8:GLU:HA	37:BP:11:GLN:CG	2.38	0.54
38:BQ:97:ILE:HD13	38:BQ:100:PHE:CZ	2.42	0.54
42:BU:99:SER:OG	42:BU:102:ILE:HD11	2.07	0.54
44:BX:27:ASN:O	44:BX:30:MET:HG2	2.08	0.54
1:CA:279:A:H4'	1:CA:280:C:OP2	2.08	0.54
1:CA:764:C:H2'	1:CA:765:G:H5'	1.90	0.54
1:CA:815:A:H4'	1:CA:817:C:C4	2.42	0.54
1:CA:1217:C:H2'	1:CA:1218:C:H6	1.72	0.54
1:CA:1314:C:OP2	18:CS:5:LYS:HG2	2.07	0.54
1:CA:1527:U:H2'	1:CA:1528:U:C6	2.42	0.54
7:CH:86:LYS:HB3	7:CH:90:GLU:O	2.08	0.54
7:CH:107:LYS:HB2	7:CH:110:MET:HE1	1.88	0.54
11:CL:34:THR:HB	11:CL:53:ARG:NE	2.23	0.54
13:CN:63:CYS:HB3	13:CN:68:ARG:N	2.17	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:7:G:H2'	23:DB:8:C:C6	2.43	0.54
23:DB:25:U:H5''	40:DS:80:PRO:HD3	1.89	0.54
23:DB:351:C:H2'	23:DB:352:A:H8	1.72	0.54
23:DB:899:A:H2'	23:DB:900:A:O4'	2.08	0.54
23:DB:1802:A:H4'	25:DC:255:LYS:HE2	1.90	0.54
23:DB:2213:U:O2	23:DB:2213:U:C2'	2.55	0.54
23:DB:2363:G:OP2	50:D3:39:ARG:HD2	2.07	0.54
23:DB:2590:A:H2'	23:DB:2591:C:C6	2.43	0.54
23:DB:2734:A:H2'	23:DB:2735:G:H5'	1.89	0.54
23:DB:2786:U:O2	26:DD:62:LYS:HB3	2.07	0.54
23:DB:2820:A:OP1	35:DN:5:LYS:N	2.33	0.54
26:DD:69:ALA:CB	26:DD:90:PHE:HB2	2.38	0.54
27:DE:139:LYS:HA	27:DE:143:LEU:HD23	1.90	0.54
27:DE:148:ILE:CA	27:DE:185:LYS:HB3	2.27	0.54
33:DL:123:ARG:HB3	33:DL:141:LYS:HB2	1.89	0.54
37:DP:49:ILE:HA	37:DP:62:LYS:O	2.07	0.54
40:DS:27:LYS:HA	40:DS:70:LYS:HG2	1.90	0.54
46:DZ:11:GLU:O	46:DZ:27:THR:HG22	2.08	0.54
1:AA:1040:U:H2'	1:AA:1041:G:C8	2.43	0.54
8:AI:30:ASN:N	8:AI:30:ASN:HD22	2.04	0.54
23:BB:49:A:H4'	23:BB:49:A:OP1	2.07	0.54
23:BB:1083:U:H2'	23:BB:1085:A:OP2	2.08	0.54
23:BB:1112:G:H4'	29:BG:2:ARG:HE	1.73	0.54
23:BB:1125:G:H3'	23:BB:1126:A:H5''	1.88	0.54
23:BB:1132:U:H5	31:BJ:85:LYS:HE2	1.71	0.54
23:BB:1188:U:O2'	23:BB:1189:A:H5'	2.08	0.54
23:BB:2052:A:C4'	26:BD:148:GLN:H	2.19	0.54
23:BB:2698:U:H2'	23:BB:2699:C:C6	2.42	0.54
23:BB:2784:U:H4'	26:BD:41:ALA:O	2.08	0.54
25:BC:160:TYR:CG	25:BC:193:GLU:HG2	2.43	0.54
26:BD:192:ALA:O	26:BD:193:VAL:HG12	2.08	0.54
27:BE:133:LEU:HD12	27:BE:136:GLN:CG	2.38	0.54
30:BH:6:LEU:HA	30:BH:15:LEU:CA	2.38	0.54
31:BJ:119:PHE:HE1	31:BJ:121:LYS:HD3	1.72	0.54
31:BJ:136:GLN:N	31:BJ:137:PRO:CD	2.71	0.54
35:BN:86:ARG:HH21	35:BN:116:VAL:HG11	1.72	0.54
37:BP:54:LEU:O	37:BP:56:SER:N	2.41	0.54
38:BQ:4:LYS:O	38:BQ:7:VAL:HG22	2.07	0.54
39:BR:41:ILE:C	39:BR:43:ASN:H	2.11	0.54
39:BR:53:PHE:HB3	39:BR:55:ASP:CA	2.37	0.54
41:BT:24:MET:CE	41:BT:29:THR:H	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:6:GLY:C	43:BW:8:SER:N	2.60	0.54
46:BZ:29:GLY:HA3	46:BZ:48:GLN:OE1	2.07	0.54
1:CA:84:U:O2'	1:CA:85:U:H5'	2.07	0.54
1:CA:190:A:H2'	1:CA:191:G:O4'	2.07	0.54
1:CA:908:A:H2'	1:CA:909:A:C8	2.42	0.54
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.43	0.54
5:CF:92:THR:HG22	5:CF:93:LYS:N	2.22	0.54
6:CG:55:LYS:HB3	6:CG:59:GLU:CD	2.27	0.54
13:CN:51:PRO:CB	13:CN:54:SER:HB3	2.37	0.54
23:DB:104:A:H2'	23:DB:105:C:H6	1.72	0.54
23:DB:479:A:OP1	23:DB:479:A:H4'	2.08	0.54
27:DE:105:LEU:O	27:DE:108:ILE:HG23	2.08	0.54
27:DE:109:LEU:HD23	27:DE:117:ARG:NE	2.23	0.54
28:DF:157:THR:HG22	28:DF:159:ALA:H	1.73	0.54
31:DJ:61:LYS:HA	31:DJ:61:LYS:HE3	1.88	0.54
37:DP:25:VAL:O	37:DP:27:VAL:N	2.40	0.54
37:DP:67:GLU:O	37:DP:69:VAL:N	2.40	0.54
42:DU:8:ASP:O	42:DU:10:VAL:HG13	2.07	0.54
43:DW:44:PHE:HB3	43:DW:77:LYS:C	2.27	0.54
46:DZ:3:LYS:NZ	46:DZ:29:GLY:HA3	2.22	0.54
48:D1:42:VAL:O	48:D1:43:ARG:HB2	2.08	0.54
1:AA:1035:A:H2'	1:AA:1036:A:C8	2.43	0.54
1:AA:1101:A:N6	20:AB:173:LYS:HD2	2.22	0.54
1:AA:1324:A:H2'	1:AA:1325:C:H6	1.72	0.54
5:AF:53:LYS:CD	5:AF:54:LEU:H	2.11	0.54
9:AJ:81:GLU:HA	9:AJ:84:VAL:HG22	1.89	0.54
10:AK:70:ALA:HB1	10:AK:74:LYS:HE3	1.89	0.54
11:AL:20:VAL:O	11:AL:23:LEU:HG	2.08	0.54
14:AO:54:GLY:O	14:AO:58:MET:HG2	2.07	0.54
16:AQ:17:GLU:C	16:AQ:19:SER:H	2.11	0.54
18:AS:69:LYS:O	18:AS:72:GLU:HB2	2.07	0.54
20:AB:67:LEU:HA	20:AB:89:PHE:O	2.07	0.54
21:AU:14:ALA:N	21:AU:16:ARG:NH2	2.55	0.54
23:BB:26:G:H1'	23:BB:514:A:N6	2.22	0.54
23:BB:55:G:H2'	23:BB:56:A:H8	1.73	0.54
23:BB:144:A:H2'	23:BB:145:C:C6	2.43	0.54
23:BB:146:A:H2'	23:BB:147:C:H6	1.72	0.54
23:BB:620:G:N3	23:BB:620:G:H5'	2.22	0.54
23:BB:968:C:H2'	23:BB:969:G:C8	2.42	0.54
23:BB:2867:G:N3	23:BB:2867:G:C2'	2.67	0.54
28:BF:59:ILE:HD13	28:BF:59:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:153:PRO:HB3	29:BG:158:GLY:O	2.07	0.54
33:BL:77:ILE:HG22	33:BL:78:ARG:NE	2.23	0.54
35:BN:33:ILE:HD13	35:BN:33:ILE:H	1.71	0.54
41:BT:30:ILE:CG2	41:BT:31:VAL:N	2.71	0.54
46:BZ:69:SER:C	46:BZ:70:LYS:HE2	2.28	0.54
52:BI:18:ASN:N	52:BI:19:PRO:HD2	2.23	0.54
1:CA:93:U:H2'	1:CA:94:G:H5'	1.88	0.54
1:CA:423:G:H2'	1:CA:424:G:O4'	2.08	0.54
1:CA:673:A:H4'	5:CF:86:ARG:HD2	1.88	0.54
1:CA:1216:A:H5''	13:CN:4:SER:HB2	1.87	0.54
3:CD:138:PRO:O	3:CD:139:ASN:HB3	2.07	0.54
4:CE:52:ALA:C	4:CE:54:GLU:H	2.10	0.54
5:CF:6:ILE:HD12	5:CF:7:VAL:N	2.22	0.54
6:CG:2:ARG:HH11	6:CG:2:ARG:CB	2.20	0.54
8:CI:20:ILE:HG23	8:CI:60:LEU:HD13	1.90	0.54
10:CK:70:ALA:HB1	10:CK:74:LYS:HD2	1.89	0.54
12:CM:15:VAL:O	12:CM:19:THR:HG23	2.07	0.54
18:CS:27:LYS:HG3	18:CS:28:LYS:HD2	1.89	0.54
22:DA:63:C:H2'	22:DA:64:G:H8	1.73	0.54
22:DA:66:A:O2'	22:DA:67:G:H5''	2.07	0.54
23:DB:20:C:H2'	23:DB:21:A:H8	1.73	0.54
23:DB:871:U:H2'	23:DB:872:U:H6	1.71	0.54
23:DB:1060:U:O2	23:DB:1088:A:C8	2.61	0.54
23:DB:1198:U:H2'	23:DB:1199:U:C6	2.43	0.54
23:DB:2239:G:OP1	25:DC:246:PRO:HG3	2.08	0.54
26:DD:35:THR:HB	26:DD:48:ILE:HB	1.89	0.54
26:DD:37:VAL:HG21	26:DD:46:ARG:NH1	2.23	0.54
30:DH:75:LEU:HD23	30:DH:75:LEU:H	1.71	0.54
33:DL:18:ARG:C	33:DL:19:LEU:HD13	2.27	0.54
34:DM:16:ARG:NH2	34:DM:72:PRO:HG2	2.22	0.54
35:DN:2:ARG:HH21	35:DN:4:ARG:HB3	1.72	0.54
39:DR:65:ALA:CB	39:DR:99:THR:HG23	2.36	0.54
43:DW:23:LYS:HG2	43:DW:57:THR:HA	1.88	0.54
43:DW:75:ASN:C	43:DW:77:LYS:H	2.11	0.54
45:DY:7:THR:HG22	45:DY:34:THR:HB	1.89	0.54
46:DZ:47:LYS:HB2	46:DZ:51:VAL:HG12	1.88	0.54
48:D1:22:THR:HG21	50:D3:34:LYS:NZ	2.23	0.54
50:D3:21:PHE:H	50:D3:48:MET:HB2	1.72	0.54
51:D4:3:VAL:CG1	51:D4:4:ARG:H	2.18	0.54
52:DI:18:ASN:HB2	52:DI:38:CYS:SG	2.47	0.54
1:AA:189:A:H2'	1:AA:190:A:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:111:ASP:O	2:AC:115:VAL:HG23	2.08	0.54
2:AC:156:LEU:HD11	2:AC:163:ARG:O	2.08	0.54
7:AH:50:VAL:HG22	7:AH:51:GLU:N	2.22	0.54
10:AK:15:VAL:HG21	10:AK:41:LEU:HD11	1.88	0.54
13:AN:42:ASN:HB3	13:AN:46:LYS:HE2	1.89	0.54
14:AO:88:ARG:HG3	23:BB:716:A:OP1	2.08	0.54
19:AT:74:HIS:O	19:AT:78:LEU:HD12	2.08	0.54
23:BB:184:C:H2'	23:BB:185:G:C8	2.43	0.54
23:BB:230:G:H2'	23:BB:231:A:H8	1.72	0.54
23:BB:845:A:C2	23:BB:847:U:H1'	2.42	0.54
23:BB:1256:G:H21	27:BE:77:ILE:HG23	1.73	0.54
23:BB:2590:A:H2'	23:BB:2591:C:C6	2.43	0.54
23:BB:2617:U:H2'	23:BB:2618:G:H5'	1.89	0.54
25:BC:224:MET:HB3	25:BC:233:GLY:H	1.72	0.54
30:BH:11:ASN:HD22	30:BH:12:LEU:H	1.54	0.54
31:BJ:7:LYS:CD	31:BJ:48:VAL:HB	2.37	0.54
32:BK:98:ARG:HD2	32:BK:98:ARG:H	1.71	0.54
39:BR:47:VAL:C	39:BR:49:ILE:H	2.11	0.54
45:BY:16:LEU:HD12	45:BY:16:LEU:H	1.71	0.54
47:B0:4:GLN:O	47:B0:5:ASN:C	2.44	0.54
47:B0:11:LYS:HG3	47:B0:12:ARG:H	1.72	0.54
48:B1:13:SER:H	48:B1:50:GLU:HA	1.72	0.54
49:B2:25:LYS:H	49:B2:25:LYS:HE3	1.73	0.54
52:BI:23:VAL:HG23	52:BI:24:GLY:N	2.23	0.54
1:CA:173:U:H5'	1:CA:197:A:O4'	2.08	0.54
1:CA:638:U:H2'	1:CA:639:G:O4'	2.08	0.54
1:CA:1254:A:H61	1:CA:1283:U:H3	1.56	0.54
3:CD:196:GLU:O	3:CD:199:ILE:HG23	2.06	0.54
9:CJ:8:ILE:HD11	9:CJ:74:VAL:HB	1.90	0.54
21:CU:24:LYS:NZ	21:CU:24:LYS:HB3	2.23	0.54
23:DB:18:U:H2'	23:DB:19:A:H8	1.73	0.54
23:DB:346:A:C8	23:DB:347:A:H1'	2.42	0.54
23:DB:1152:C:O2'	23:DB:1153:C:H5'	2.08	0.54
23:DB:1820:U:O2	25:DC:200:MET:HB2	2.06	0.54
23:DB:2085:U:O2'	23:DB:2086:U:H5'	2.08	0.54
23:DB:2538:C:O2	51:D4:2:LYS:HE3	2.07	0.54
23:DB:2680:U:C5'	26:DD:194:PRO:HA	2.38	0.54
24:DV:44:HIS:C	24:DV:46:LYS:H	2.11	0.54
26:DD:8:LYS:HG3	37:DP:5:LYS:HZ1	1.71	0.54
29:DG:53:PRO:HG2	29:DG:61:TRP:HZ3	1.72	0.54
29:DG:125:PRO:CG	29:DG:129:GLU:HB3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:17:ARG:HB2	32:DK:45:GLU:CB	2.38	0.54
34:DM:5:LYS:HE3	34:DM:6:ARG:H	1.72	0.54
39:DR:27:ILE:HG12	39:DR:33:VAL:HG11	1.90	0.54
39:DR:74:ILE:HG13	39:DR:76:LYS:HG2	1.90	0.54
44:DX:43:LEU:CB	44:DX:45:GLN:HE22	2.20	0.54
45:DY:37:ARG:NE	45:DY:37:ARG:HA	2.22	0.54
1:AA:513:C:H2'	1:AA:514:C:H6	1.73	0.54
1:AA:678:U:H2'	1:AA:679:C:H6	1.70	0.54
1:AA:716:A:N3	10:AK:119:GLY:HA2	2.22	0.54
1:AA:1042:A:H2'	1:AA:1043:G:O4'	2.08	0.54
3:AD:138:PRO:HA	3:AD:181:PHE:CD2	2.43	0.54
4:AE:134:ASN:O	4:AE:137:ARG:HG2	2.07	0.54
5:AF:18:VAL:O	5:AF:22:ILE:HG13	2.07	0.54
6:AG:45:ALA:HA	6:AG:48:THR:OG1	2.08	0.54
6:AG:67:ASN:ND2	6:AG:127:ALA:HA	2.21	0.54
8:AI:11:ARG:HA	8:AI:105:ARG:NE	2.23	0.54
9:AJ:11:LYS:NZ	9:AJ:99:GLN:H	2.05	0.54
11:AL:20:VAL:O	11:AL:20:VAL:HG12	2.08	0.54
15:AP:40:ASN:HB3	15:AP:49:GLY:O	2.08	0.54
18:AS:29:PRO:HA	18:AS:47:THR:HB	1.89	0.54
18:AS:59:VAL:HG11	18:AS:70:LEU:HD11	1.88	0.54
20:AB:46:VAL:O	20:AB:49:PHE:HB2	2.07	0.54
22:BA:42:C:H6	28:BF:65:LEU:HD13	1.73	0.54
23:BB:705:A:N6	23:BB:726:G:O2'	2.41	0.54
23:BB:1181:U:H2'	23:BB:1182:G:H8	1.72	0.54
23:BB:2615:U:H1'	47:B0:6:LYS:CE	2.29	0.54
25:BC:23:LEU:N	25:BC:202:ARG:NH2	2.51	0.54
25:BC:172:THR:HG22	25:BC:173:LEU:H	1.73	0.54
26:BD:17:GLU:CG	37:BP:80:VAL:HG21	2.38	0.54
29:BG:137:LYS:HA	29:BG:140:ILE:CG1	2.38	0.54
30:BH:66:ASN:CB	30:BH:138:VAL:HG11	2.37	0.54
31:BJ:99:ARG:O	31:BJ:100:VAL:HB	2.08	0.54
39:BR:78:ARG:HB3	39:BR:87:GLN:CA	2.29	0.54
41:BT:16:VAL:O	41:BT:16:VAL:HG13	2.08	0.54
50:B3:4:LYS:HE3	50:B3:58:ILE:HB	1.90	0.54
52:BI:63:ASP:O	52:BI:64:ARG:CG	2.53	0.54
1:CA:398:U:H2'	1:CA:399:G:C8	2.43	0.54
1:CA:426:U:OP1	3:CD:32:LYS:HE3	2.08	0.54
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.23	0.54
1:CA:1354:U:H2'	1:CA:1355:G:C8	2.42	0.54
1:CA:1422:G:H5''	32:DK:48:PRO:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CL:36:VAL:HG12	11:CL:52:CYS:HB2	1.89	0.54
15:CP:1:MET:HA	15:CP:1:MET:HE3	1.88	0.54
23:DB:38:A:N3	27:DE:43:THR:HG22	2.23	0.54
23:DB:144:A:C6	41:DT:3:ARG:NH1	2.75	0.54
23:DB:813:U:H2'	23:DB:814:C:H6	1.70	0.54
23:DB:1244:A:O2'	23:DB:1245:G:H5'	2.07	0.54
23:DB:1515:A:H5'	23:DB:1557:C:H5'	1.89	0.54
23:DB:1688:U:O2	23:DB:1700:A:H5'	2.07	0.54
23:DB:1736:U:H2'	23:DB:1737:G:O4'	2.08	0.54
23:DB:2153:C:H2'	23:DB:2154:A:H8	1.72	0.54
23:DB:2197:U:O2'	23:DB:2198:A:H2'	2.07	0.54
25:DC:63:ILE:O	25:DC:64:VAL:HG13	2.08	0.54
25:DC:122:ALA:O	25:DC:124:LYS:HG2	2.08	0.54
27:DE:53:THR:HG21	27:DE:74:LYS:HB3	1.90	0.54
27:DE:188:MET:SD	27:DE:190:ALA:HB2	2.47	0.54
27:DE:189:THR:HG23	27:DE:194:LYS:CG	2.38	0.54
30:DH:94:ILE:HG23	30:DH:98:ASP:HB2	1.90	0.54
31:DJ:100:VAL:O	31:DJ:101:ILE:HB	2.08	0.54
34:DM:127:LYS:CD	34:DM:128:THR:H	2.21	0.54
39:DR:76:LYS:HB3	39:DR:90:ARG:CG	2.38	0.54
44:DX:4:LYS:CG	44:DX:7:ARG:HE	2.20	0.54
48:D1:22:THR:HG21	50:D3:34:LYS:HZ1	1.73	0.54
52:DI:76:ALA:HA	52:DI:135:MET:SD	2.48	0.54
1:AA:77:A:H2'	1:AA:78:A:C8	2.43	0.54
1:AA:621:A:H2'	1:AA:622:A:C8	2.43	0.54
1:AA:1039:G:H2'	1:AA:1040:U:C6	2.43	0.54
1:AA:1135:U:H2'	1:AA:1135:U:O2	2.07	0.54
1:AA:1320:C:N4	18:AS:36:ARG:HG2	2.21	0.54
2:AC:39:ARG:HG3	2:AC:54:ILE:HD13	1.91	0.54
6:AG:100:MET:O	6:AG:104:VAL:HG23	2.08	0.54
8:AI:50:PRO:HG2	8:AI:51:LEU:HD12	1.88	0.54
10:AK:88:PRO:HA	10:AK:92:ARG:NE	2.23	0.54
17:AR:33:THR:HG23	17:AR:35:SER:H	1.73	0.54
23:BB:396:G:H5'	46:BZ:9:TYR:HB2	1.89	0.54
23:BB:950:G:H2'	23:BB:951:C:C6	2.43	0.54
23:BB:1013:C:H2'	23:BB:1014:A:H8	1.72	0.54
23:BB:1488:C:O2'	23:BB:1489:C:H5'	2.09	0.54
23:BB:1724:G:H2'	23:BB:1725:U:H6	1.73	0.54
23:BB:2278:A:H8	43:BW:8:SER:HB3	1.72	0.54
23:BB:2760:C:O2'	23:BB:2761:A:H5'	2.07	0.54
23:BB:2771:C:H2'	23:BB:2772:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:128:THR:HG22	25:BC:188:ARG:HB2	1.89	0.54
48:B1:42:VAL:O	48:B1:43:ARG:HB2	2.07	0.54
52:BI:102:ARG:HD3	52:BI:141:ASP:OD1	2.08	0.54
1:CA:16:A:N1	1:CA:919:A:H2	2.06	0.54
1:CA:203:G:H1'	1:CA:465:A:H62	1.73	0.54
1:CA:1007:U:H2'	1:CA:1008:U:C6	2.43	0.54
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.43	0.54
4:CE:136:VAL:HG23	4:CE:137:ARG:N	2.22	0.54
8:CI:34:LEU:HG	8:CI:35:GLU:N	2.23	0.54
10:CK:59:PRO:HA	10:CK:91:GLY:H	1.72	0.54
23:DB:70:G:H3'	23:DB:113:U:H4'	1.90	0.54
23:DB:596:U:H2'	23:DB:597:G:H8	1.73	0.54
23:DB:862:G:H2'	23:DB:863:A:O4'	2.08	0.54
23:DB:1098:A:C5'	52:DI:3:LYS:HB3	2.37	0.54
23:DB:1164:C:H2'	23:DB:1165:A:H8	1.72	0.54
23:DB:1911:U:H2'	23:DB:1918:A:N1	2.22	0.54
23:DB:2617:U:H2'	23:DB:2618:G:H5'	1.90	0.54
25:DC:27:LYS:HG2	25:DC:81:GLU:HA	1.90	0.54
25:DC:160:TYR:CE2	25:DC:193:GLU:HG2	2.43	0.54
28:DF:56:LEU:HD11	28:DF:86:CYS:HB3	1.90	0.54
28:DF:103:ILE:CG2	28:DF:173:ASP:HA	2.38	0.54
30:DH:147:VAL:HG12	30:DH:148:ALA:N	2.23	0.54
31:DJ:76:HIS:HB2	31:DJ:86:GLN:HG3	1.90	0.54
32:DK:84:CYS:O	32:DK:85:VAL:HB	2.08	0.54
33:DL:110:VAL:HG13	33:DL:127:VAL:HG12	1.90	0.54
36:DO:18:LEU:HD13	43:DW:76:ARG:HE	1.73	0.54
37:DP:25:VAL:HG12	37:DP:25:VAL:O	2.07	0.54
37:DP:26:GLU:HA	37:DP:47:ILE:N	2.23	0.54
37:DP:27:VAL:HG21	37:DP:84:SER:O	2.08	0.54
37:DP:45:VAL:HG12	37:DP:46:VAL:O	2.08	0.54
37:DP:51:ASN:OD1	37:DP:52:ARG:N	2.41	0.54
37:DP:61:ARG:O	37:DP:63:ILE:HG13	2.07	0.54
40:DS:8:ARG:O	40:DS:9:HIS:HB2	2.06	0.54
40:DS:15:GLN:HE22	47:D0:12:ARG:HH12	1.56	0.54
42:DU:25:LYS:HA	42:DU:25:LYS:HZ3	1.73	0.54
1:AA:187:G:H4'	19:AT:79:THR:HG21	1.89	0.53
4:AE:55:VAL:N	4:AE:56:PRO:HD2	2.23	0.53
6:AG:112:ASP:CB	6:AG:118:ARG:HG2	2.33	0.53
8:AI:30:ASN:ND2	8:AI:30:ASN:N	2.56	0.53
8:AI:44:ARG:HH11	8:AI:44:ARG:N	2.06	0.53
16:AQ:44:HIS:O	16:AQ:72:TRP:HB2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:62:ARG:HD3	17:AR:69:TYR:HA	1.90	0.53
19:AT:82:ILE:HG13	19:AT:83:ASN:N	2.22	0.53
20:AB:185:ILE:HA	20:AB:199:ILE:HB	1.90	0.53
21:AU:36:PHE:HB3	21:AU:40:PRO:HG3	1.90	0.53
23:BB:540:C:O2'	23:BB:541:A:H5'	2.08	0.53
23:BB:566:U:O2'	23:BB:567:U:H5'	2.08	0.53
23:BB:823:C:O2'	23:BB:824:U:H5'	2.09	0.53
23:BB:1046:A:C3'	23:BB:1047:G:H5''	2.37	0.53
23:BB:1054:A:O2'	23:BB:1055:G:H5'	2.08	0.53
23:BB:1259:G:H2'	23:BB:1260:A:H8	1.73	0.53
23:BB:1464:G:H2'	23:BB:1465:G:C8	2.43	0.53
23:BB:1550:C:H2'	23:BB:1551:A:C8	2.43	0.53
24:BV:77:VAL:HG21	24:BV:79:ARG:HE	1.71	0.53
24:BV:89:ILE:HD12	24:BV:89:ILE:O	2.08	0.53
25:BC:37:SER:H	25:BC:62:ARG:CB	2.20	0.53
25:BC:212:TRP:CZ3	25:BC:217:PRO:HD3	2.43	0.53
26:BD:118:PHE:N	26:BD:164:GLN:HG3	2.23	0.53
27:BE:53:THR:O	27:BE:55:SER:N	2.41	0.53
28:BF:121:PHE:HE2	28:BF:166:ARG:H	1.56	0.53
30:BH:121:VAL:HG11	30:BH:128:HIS:CD2	2.43	0.53
31:BJ:7:LYS:HD2	31:BJ:49:ASP:CB	2.34	0.53
34:BM:72:PRO:HB3	34:BM:88:ASN:OD1	2.08	0.53
35:BN:32:GLU:HB3	35:BN:33:ILE:HD13	1.89	0.53
36:BO:1:MET:HG3	36:BO:3:LYS:HE3	1.89	0.53
36:BO:73:ALA:HA	36:BO:109:ALA:HB2	1.90	0.53
36:BO:87:ILE:HG13	36:BO:88:LYS:H	1.73	0.53
45:BY:35:VAL:CG1	45:BY:37:ARG:HH21	2.21	0.53
1:CA:408:A:H3'	1:CA:409:U:H6	1.72	0.53
1:CA:1014:A:H5''	18:CS:13:HIS:HB3	1.88	0.53
4:CE:55:VAL:N	4:CE:56:PRO:HD2	2.22	0.53
5:CF:5:GLU:HA	5:CF:63:ASN:HA	1.88	0.53
5:CF:55:HIS:ND1	5:CF:55:HIS:N	2.56	0.53
7:CH:100:ILE:HG13	7:CH:128:VAL:HG23	1.90	0.53
8:CI:29:ILE:HA	8:CI:64:ILE:HB	1.91	0.53
10:CK:106:ILE:HD11	10:CK:109:ILE:HG13	1.89	0.53
20:CB:96:LEU:HB2	20:CB:99:MET:CG	2.39	0.53
21:CU:11:PHE:HD1	21:CU:13:VAL:HG12	1.72	0.53
23:DB:168:G:H2'	23:DB:169:G:H8	1.73	0.53
23:DB:249:C:O2'	50:D3:7:ARG:NE	2.42	0.53
23:DB:288:U:O2'	23:DB:289:G:H5'	2.07	0.53
23:DB:336:C:H5''	42:DU:3:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:533:G:H2'	23:DB:534:U:C6	2.43	0.53
23:DB:586:A:H5'	27:DE:84:THR:HG21	1.89	0.53
23:DB:1113:U:H5''	29:DG:2:ARG:CD	2.38	0.53
23:DB:2103:C:H3'	23:DB:2104:C:O2	2.08	0.53
23:DB:2666:C:O4'	23:DB:2666:C:O2	2.25	0.53
25:DC:103:ILE:HG22	25:DC:104:LEU:N	2.21	0.53
25:DC:235:GLU:HG3	25:DC:236:GLY:H	1.72	0.53
28:DF:31:GLU:O	28:DF:95:MET:HE1	2.07	0.53
29:DG:10:VAL:HG23	29:DG:47:ASN:O	2.07	0.53
34:DM:97:GLN:N	34:DM:98:PRO:CD	2.71	0.53
35:DN:54:LEU:HD22	35:DN:66:ALA:HB2	1.90	0.53
38:DQ:92:LYS:C	38:DQ:94:LEU:H	2.11	0.53
39:DR:6:GLN:O	39:DR:7:SER:HB3	2.07	0.53
44:DX:22:LEU:HD22	44:DX:25:GLN:OE1	2.08	0.53
48:D1:9:LYS:HG3	48:D1:24:LYS:HG2	1.89	0.53
49:D2:43:THR:C	49:D2:44:VAL:HG22	2.29	0.53
52:DI:3:LYS:CD	52:DI:3:LYS:HE2	2.18	0.53
2:AC:38:VAL:HG23	2:AC:39:ARG:N	2.23	0.53
5:AF:6:ILE:HD13	5:AF:89:VAL:HB	1.90	0.53
9:AJ:39:PRO:CA	9:AJ:74:VAL:HG22	2.39	0.53
10:AK:110:THR:HG22	21:AU:4:LYS:HA	1.90	0.53
17:AR:44:THR:HG22	17:AR:46:THR:HB	1.91	0.53
23:BB:161:A:C3'	23:BB:162:U:H5''	2.34	0.53
23:BB:1904:G:H1'	23:BB:1927:A:N1	2.23	0.53
24:BV:63:ILE:HD11	24:BV:72:VAL:HG21	1.91	0.53
25:BC:160:TYR:CD2	25:BC:193:GLU:HG2	2.44	0.53
30:BH:11:ASN:ND2	30:BH:12:LEU:N	2.55	0.53
31:BJ:18:VAL:HG22	31:BJ:55:ILE:O	2.07	0.53
35:BN:96:ARG:O	35:BN:113:ILE:HA	2.08	0.53
45:BY:54:VAL:HG22	45:BY:55:LYS:N	2.22	0.53
51:B4:2:LYS:NZ	51:B4:2:LYS:HB3	2.23	0.53
1:CA:6:G:H4'	1:CA:298:A:H4'	1.90	0.53
1:CA:131:A:H2'	1:CA:132:C:H6	1.74	0.53
1:CA:218:U:H2'	1:CA:219:U:C6	2.43	0.53
1:CA:711:G:O2'	1:CA:712:A:H5'	2.08	0.53
1:CA:766:A:H2'	1:CA:767:A:O4'	2.08	0.53
1:CA:997:U:H2'	1:CA:998:C:C6	2.43	0.53
1:CA:1409:C:H2'	1:CA:1410:A:C8	2.43	0.53
4:CE:109:ALA:HB3	4:CE:135:VAL:CG1	2.37	0.53
6:CG:145:GLU:H	6:CG:148:LYS:HB2	1.72	0.53
9:CJ:40:ILE:CD1	9:CJ:73:LEU:HB3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:65:TYR:OH	13:CN:84:ARG:HG3	2.08	0.53
23:DB:64:A:O3'	41:DT:76:ARG:HG3	2.07	0.53
23:DB:686:U:H1'	49:D2:5:PHE:O	2.08	0.53
23:DB:836:G:H2'	23:DB:837:C:C6	2.43	0.53
23:DB:1442:U:H2'	23:DB:1443:U:H6	1.73	0.53
23:DB:1534:U:H2'	23:DB:1536:C:N3	2.22	0.53
25:DC:32:LEU:HD13	25:DC:36:ASN:ND2	2.23	0.53
25:DC:107:LYS:HD2	25:DC:196:ASN:ND2	2.24	0.53
25:DC:216:ARG:HB3	25:DC:217:PRO:HD2	1.89	0.53
25:DC:244:VAL:HG23	25:DC:249:VAL:CG2	2.38	0.53
27:DE:109:LEU:HD21	27:DE:113:VAL:O	2.07	0.53
30:DH:2:GLN:CB	30:DH:19:VAL:HA	2.34	0.53
31:DJ:73:VAL:HG11	31:DJ:75:TYR:CE1	2.43	0.53
34:DM:6:ARG:O	34:DM:7:THR:C	2.43	0.53
39:DR:69:GLY:HA2	39:DR:97:LYS:N	2.16	0.53
1:AA:860:A:H2'	1:AA:861:G:O4'	2.09	0.53
1:AA:1040:U:H2'	1:AA:1041:G:H8	1.74	0.53
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.73	0.53
1:AA:1448:C:H2'	1:AA:1449:C:C6	2.42	0.53
2:AC:156:LEU:HD12	2:AC:156:LEU:H	1.72	0.53
3:AD:17:ASP:OD2	3:AD:27:ILE:HG12	2.08	0.53
7:AH:49:LYS:HG3	7:AH:50:VAL:N	2.21	0.53
9:AJ:11:LYS:HZ3	9:AJ:99:GLN:H	1.55	0.53
16:AQ:28:VAL:C	16:AQ:36:PHE:HA	2.27	0.53
23:BB:131:A:H2'	23:BB:132:G:C8	2.44	0.53
23:BB:1810:A:H2'	23:BB:1811:G:O4'	2.08	0.53
23:BB:2097:A:H2'	23:BB:2098:U:C6	2.43	0.53
24:BV:40:ILE:HD13	24:BV:40:ILE:N	2.23	0.53
26:BD:26:VAL:HG23	26:BD:187:LEU:HB3	1.90	0.53
30:BH:66:ASN:HB2	30:BH:138:VAL:HG11	1.91	0.53
31:BJ:42:ALA:HB1	38:BQ:67:ALA:HB2	1.90	0.53
32:BK:102:PRO:HB3	32:BK:121:GLU:OE1	2.08	0.53
37:BP:16:VAL:O	37:BP:17:PRO:O	2.26	0.53
40:BS:32:ALA:O	40:BS:33:LEU:HD13	2.08	0.53
48:B1:34:GLU:O	48:B1:35:LEU:HB3	2.08	0.53
48:B1:44:GLN:OE1	48:B1:46:VAL:HB	2.09	0.53
1:CA:128:G:H2'	1:CA:129:A:C8	2.43	0.53
1:CA:135:C:O2	15:CP:1:MET:HB2	2.09	0.53
1:CA:797:C:OP1	10:CK:125:LYS:HG3	2.08	0.53
1:CA:1119:C:H2'	1:CA:1120:C:H6	1.73	0.53
2:CC:155:ARG:HH21	2:CC:160:GLU:HA	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:61:LYS:NZ	4:CE:61:LYS:HB3	2.24	0.53
8:CI:19:PHE:O	8:CI:62:LEU:HA	2.08	0.53
15:CP:36:VAL:HG23	15:CP:56:ARG:HB2	1.89	0.53
23:DB:521:U:H2'	23:DB:522:A:C8	2.43	0.53
23:DB:726:G:H5''	23:DB:1432:G:O2'	2.08	0.53
23:DB:1515:A:H4'	23:DB:1556:C:O2'	2.09	0.53
23:DB:1551:A:C3'	23:DB:1552:A:H5''	2.38	0.53
23:DB:2678:C:H2'	23:DB:2679:A:C8	2.43	0.53
25:DC:92:LEU:O	25:DC:93:VAL:HB	2.07	0.53
27:DE:46:GLN:NE2	27:DE:87:ALA:N	2.56	0.53
27:DE:48:THR:OG1	27:DE:86:ALA:HB3	2.08	0.53
29:DG:18:ILE:O	29:DG:18:ILE:HG13	2.08	0.53
32:DK:7:MET:HA	32:DK:7:MET:HE3	1.90	0.53
35:DN:30:ARG:HH12	35:DN:74:GLU:HG2	1.72	0.53
35:DN:45:ARG:HH21	35:DN:97:ILE:CG1	2.20	0.53
36:DO:30:ARG:HG2	36:DO:31:THR:H	1.73	0.53
41:DT:14:PRO:CA	41:DT:32:LEU:HD23	2.38	0.53
41:DT:53:VAL:CG1	41:DT:93:LEU:HD21	2.39	0.53
44:DX:16:THR:HG23	44:DX:21:LEU:HD12	1.89	0.53
1:AA:202:G:H2'	1:AA:203:G:H8	1.74	0.53
1:AA:252:U:H2'	1:AA:253:A:H8	1.74	0.53
1:AA:602:A:O2'	1:AA:603:U:H5'	2.07	0.53
1:AA:742:G:O2'	1:AA:743:A:H5'	2.08	0.53
1:AA:859:G:H2'	1:AA:860:A:H8	1.71	0.53
1:AA:865:A:H2'	1:AA:866:C:C6	2.43	0.53
1:AA:956:U:O2'	1:AA:957:U:H5'	2.09	0.53
1:AA:1283:U:H2'	1:AA:1284:C:C6	2.44	0.53
2:AC:55:VAL:HG12	2:AC:56:ILE:N	2.23	0.53
2:AC:186:SER:HB3	2:AC:197:VAL:CG1	2.38	0.53
3:AD:144:ILE:CD1	3:AD:154:VAL:HG21	2.38	0.53
4:AE:71:ILE:HG12	4:AE:72:ASN:N	2.24	0.53
5:AF:47:LEU:HD13	5:AF:51:ILE:HG22	1.91	0.53
6:AG:91:ARG:HB3	6:AG:92:PRO:HD2	1.91	0.53
7:AH:5:PRO:O	7:AH:32:LYS:HE3	2.09	0.53
8:AI:110:VAL:HG12	8:AI:111:GLU:N	2.20	0.53
8:AI:113:LYS:HG2	8:AI:114:LYS:H	1.74	0.53
23:BB:64:A:H2'	23:BB:65:U:H6	1.72	0.53
23:BB:538:A:O2'	23:BB:539:G:H5'	2.08	0.53
23:BB:753:A:H2'	23:BB:754:U:H6	1.72	0.53
23:BB:1316:U:O2'	23:BB:1317:G:H5'	2.08	0.53
23:BB:1441:G:H2'	23:BB:1442:U:H6	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1799:G:C5	25:BC:175:LEU:HD13	2.44	0.53
23:BB:2027:G:O2'	23:BB:2028:U:H5'	2.08	0.53
23:BB:2586:U:H2'	23:BB:2587:A:C8	2.44	0.53
23:BB:2682:A:N3	26:BD:22:ILE:HD11	2.24	0.53
23:BB:2728:U:H2'	23:BB:2729:G:H8	1.74	0.53
23:BB:2787:C:O2'	23:BB:2788:C:H5'	2.08	0.53
29:BG:27:GLY:HA3	29:BG:78:VAL:HB	1.91	0.53
29:BG:126:THR:HG23	29:BG:128:THR:HG23	1.91	0.53
31:BJ:34:ARG:HB3	31:BJ:39:LYS:HD2	1.89	0.53
33:BL:117:THR:HG21	33:BL:120:VAL:CG1	2.38	0.53
39:BR:39:LEU:HD11	39:BR:57:GLY:O	2.08	0.53
39:BR:66:HIS:CA	39:BR:98:ILE:HD13	2.38	0.53
43:BW:42:THR:CB	43:BW:66:VAL:H	2.22	0.53
44:BX:14:LEU:HD21	44:BX:57:LEU:HB2	1.90	0.53
1:CA:53:A:C2	1:CA:54:C:H1'	2.43	0.53
1:CA:1124:G:H5'	9:CJ:37:ARG:HH21	1.73	0.53
1:CA:1181:G:H4'	1:CA:1182:G:OP1	2.09	0.53
1:CA:1216:A:OP1	13:CN:2:LYS:HE2	2.08	0.53
1:CA:1234:C:H1'	1:CA:1364:U:O2	2.09	0.53
2:CC:36:PHE:O	2:CC:39:ARG:HB2	2.09	0.53
4:CE:88:HIS:CE1	4:CE:137:ARG:HG2	2.44	0.53
5:CF:38:ARG:HH21	5:CF:63:ASN:ND2	2.06	0.53
11:CL:30:ARG:O	11:CL:56:LEU:HA	2.09	0.53
14:CO:42:PHE:CD1	14:CO:55:LEU:HD22	2.44	0.53
14:CO:88:ARG:HH21	23:DB:715:A:H5''	1.72	0.53
23:DB:488:G:H1'	23:DB:492:A:N6	2.24	0.53
23:DB:664:G:H2'	23:DB:665:U:C6	2.42	0.53
23:DB:1153:C:O2'	23:DB:1154:G:H5'	2.08	0.53
23:DB:1168:G:O2'	23:DB:1169:A:H5'	2.09	0.53
23:DB:1197:G:O2'	23:DB:1198:U:H5'	2.08	0.53
23:DB:1429:G:O2'	23:DB:1430:G:H5'	2.07	0.53
23:DB:1464:G:H2'	23:DB:1465:G:C8	2.44	0.53
23:DB:2215:C:O2'	23:DB:2216:G:H5'	2.09	0.53
23:DB:2516:A:O2'	23:DB:2517:C:H5'	2.07	0.53
24:DV:6:ALA:O	24:DV:65:VAL:HA	2.08	0.53
26:DD:7:LYS:HB3	26:DD:201:LEU:HD22	1.89	0.53
26:DD:50:VAL:HG13	26:DD:77:ARG:O	2.08	0.53
29:DG:124:CYS:HA	29:DG:129:GLU:O	2.09	0.53
34:DM:40:ARG:HG2	34:DM:92:TRP:CZ2	2.44	0.53
34:DM:62:LYS:H	34:DM:104:GLU:HB2	1.72	0.53
36:DO:62:LEU:HD12	36:DO:62:LEU:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:18:SER:HA	37:DP:87:ARG:HH22	1.74	0.53
41:DT:76:ARG:HD3	41:DT:76:ARG:N	2.23	0.53
45:DY:40:THR:HG23	45:DY:43:ILE:HG22	1.91	0.53
46:DZ:24:ILE:HD13	46:DZ:24:ILE:N	2.18	0.53
52:DI:23:VAL:HG12	52:DI:24:GLY:N	2.24	0.53
1:AA:214:C:H2'	1:AA:215:C:C6	2.44	0.53
1:AA:532:A:H62	2:AC:191:THR:CG2	2.22	0.53
1:AA:1381:U:O2'	1:AA:1382:C:H5'	2.08	0.53
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.43	0.53
1:AA:1452:C:H4'	1:AA:1453:G:C5'	2.39	0.53
1:AA:1507:A:H2'	1:AA:1508:A:C8	2.44	0.53
2:AC:77:GLY:HA3	2:AC:81:GLU:HB3	1.90	0.53
3:AD:25:ARG:HD3	3:AD:26:ALA:H	1.73	0.53
6:AG:16:LYS:HG3	6:AG:43:TYR:OH	2.08	0.53
10:AK:33:ILE:O	10:AK:41:LEU:HB2	2.07	0.53
14:AO:66:LEU:HB3	14:AO:77:TYR:HE1	1.74	0.53
23:BB:378:C:O2'	23:BB:379:G:H5'	2.08	0.53
23:BB:1515:A:H4'	23:BB:1556:C:O2'	2.08	0.53
23:BB:1821:A:H2'	23:BB:1822:C:C6	2.43	0.53
23:BB:2526:G:H2'	23:BB:2527:C:C6	2.44	0.53
24:BV:79:ARG:C	24:BV:87:GLN:HE22	2.12	0.53
27:BE:52:VAL:HG22	27:BE:53:THR:H	1.72	0.53
32:BK:59:LYS:HD2	32:BK:92:GLU:OE2	2.08	0.53
33:BL:90:VAL:HG21	33:BL:121:THR:H	1.74	0.53
41:BT:1:MET:CE	41:BT:2:ILE:HB	2.38	0.53
43:BW:42:THR:HG21	43:BW:66:VAL:HG12	1.90	0.53
50:B3:26:ALA:HB3	50:B3:29:ARG:CZ	2.39	0.53
1:CA:202:G:H2'	1:CA:203:G:C8	2.43	0.53
1:CA:317:U:H2'	1:CA:318:G:H8	1.73	0.53
1:CA:370:C:O2'	1:CA:371:A:H5'	2.08	0.53
1:CA:922:G:N3	1:CA:1398:A:H2	2.07	0.53
1:CA:1006:G:H2'	1:CA:1007:U:H6	1.73	0.53
1:CA:1170:A:H5''	20:CB:138:ARG:HH22	1.73	0.53
2:CC:110:LEU:HD13	2:CC:143:LEU:HD23	1.89	0.53
7:CH:28:SER:HB2	7:CH:58:LEU:HD12	1.91	0.53
12:CM:52:ILE:O	12:CM:55:LEU:HB2	2.08	0.53
12:CM:89:ARG:HH12	12:CM:101:THR:HG21	1.73	0.53
20:CB:14:HIS:CD2	20:CB:15:PHE:H	2.26	0.53
23:DB:51:G:O2'	23:DB:118:A:N6	2.41	0.53
23:DB:1225:G:P	39:DR:90:ARG:HB2	2.48	0.53
23:DB:1395:A:H4'	23:DB:1397:U:C5	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1439:A:C5	23:DB:1552:A:N6	2.76	0.53
23:DB:1645:G:H5''	23:DB:1646:C:H5'	1.91	0.53
23:DB:1684:G:H2'	23:DB:1685:C:C6	2.44	0.53
23:DB:2080:A:H2'	23:DB:2081:U:C6	2.44	0.53
23:DB:2465:C:O2'	23:DB:2466:C:H5'	2.09	0.53
23:DB:2484:G:N2	34:DM:118:LYS:HG2	2.23	0.53
25:DC:48:ILE:CG2	25:DC:49:THR:H	2.11	0.53
25:DC:56:GLY:HA3	25:DC:214:GLY:N	2.23	0.53
25:DC:68:ARG:HB2	25:DC:128:THR:OG1	2.08	0.53
25:DC:169:ALA:O	25:DC:170:TYR:HB2	2.08	0.53
25:DC:237:ARG:HD2	25:DC:239:PHE:CE1	2.43	0.53
26:DD:116:LYS:HB2	26:DD:165:MET:HB2	1.90	0.53
26:DD:153:GLY:O	26:DD:155:VAL:HG23	2.08	0.53
30:DH:114:GLU:CB	30:DH:133:GLN:HG3	2.39	0.53
39:DR:40:MET:O	39:DR:54:VAL:HG22	2.08	0.53
40:DS:72:THR:HG23	40:DS:106:VAL:HG23	1.89	0.53
52:DI:12:VAL:HG13	52:DI:41:PHE:CE2	2.44	0.53
52:DI:89:SER:HA	52:DI:97:VAL:HG11	1.91	0.53
1:AA:53:A:C2	1:AA:54:C:H1'	2.43	0.53
4:AE:84:VAL:HG22	4:AE:85:LYS:H	1.73	0.53
22:BA:99:A:H2'	22:BA:99:A:N3	2.23	0.53
23:BB:6:A:H2'	23:BB:7:G:H8	1.74	0.53
23:BB:18:U:H2'	23:BB:19:A:C8	2.43	0.53
23:BB:365:U:H2'	23:BB:366:C:C6	2.43	0.53
23:BB:452:G:OP1	27:BE:52:VAL:HG22	2.07	0.53
23:BB:496:G:H2'	23:BB:497:A:O4'	2.09	0.53
23:BB:520:G:H2'	23:BB:521:U:C6	2.44	0.53
23:BB:871:U:H2'	23:BB:872:U:H6	1.72	0.53
23:BB:1028:A:H2'	23:BB:1029:A:C8	2.43	0.53
23:BB:1545:A:H2'	23:BB:1546:G:O4'	2.08	0.53
23:BB:1658:C:OP1	26:BD:136:ASN:CA	2.50	0.53
23:BB:1771:C:H2'	23:BB:1772:A:C8	2.42	0.53
23:BB:2539:C:O2'	23:BB:2540:C:H5'	2.09	0.53
23:BB:2862:G:H2'	23:BB:2863:C:C6	2.43	0.53
24:BV:76:ASP:OD1	34:BM:135:VAL:HA	2.09	0.53
25:BC:10:PRO:HG2	25:BC:23:LEU:HD11	1.90	0.53
27:BE:52:VAL:HG13	27:BE:53:THR:N	2.23	0.53
45:BY:3:THR:O	45:BY:6:ILE:HG23	2.08	0.53
46:BZ:40:CYS:O	46:BZ:41:HIS:HB3	2.08	0.53
49:B2:43:THR:O	49:B2:44:VAL:C	2.47	0.53
1:CA:399:G:H2'	1:CA:400:C:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:796:C:OP1	10:CK:127:ARG:HB2	2.09	0.53
1:CA:994:A:N3	1:CA:994:A:H2'	2.23	0.53
1:CA:1190:G:H5'	2:CC:175:HIS:HE2	1.74	0.53
3:CD:102:TYR:HE1	3:CD:108:ALA:O	1.91	0.53
16:CQ:14:ASP:OD2	16:CQ:53:GLY:HA2	2.09	0.53
18:CS:29:PRO:HA	18:CS:47:THR:O	2.08	0.53
21:CU:14:ALA:HB3	21:CU:16:ARG:CZ	2.38	0.53
23:DB:162:U:H5	23:DB:165:A:N1	2.07	0.53
23:DB:364:C:H2'	23:DB:365:U:C5	2.44	0.53
23:DB:1681:G:H2'	23:DB:1757:A:N1	2.23	0.53
23:DB:2063:C:O2	23:DB:2450:A:N1	2.42	0.53
23:DB:2103:C:H3'	23:DB:2104:C:C2	2.43	0.53
23:DB:2191:A:H2'	23:DB:2192:U:C6	2.44	0.53
23:DB:2250:G:H21	23:DB:2496:C:H4'	1.73	0.53
26:DD:33:ARG:HG2	26:DD:36:GLN:HG3	1.91	0.53
30:DH:108:VAL:C	30:DH:110:VAL:H	2.11	0.53
30:DH:124:THR:HG23	30:DH:128:HIS:CE1	2.43	0.53
31:DJ:43:GLU:C	38:DQ:63:ARG:HH12	2.12	0.53
33:DL:124:GLY:H	33:DL:142:ILE:CA	2.17	0.53
34:DM:60:GLN:NE2	34:DM:61:GLY:H	2.06	0.53
38:DQ:50:ARG:CZ	38:DQ:50:ARG:HA	2.39	0.53
40:DS:41:LYS:O	40:DS:41:LYS:HG3	2.07	0.53
1:AA:196:A:O5'	19:AT:63:LYS:HE2	2.09	0.53
1:AA:472:U:H2'	1:AA:473:U:C6	2.44	0.53
1:AA:1071:C:H2'	1:AA:1072:G:C8	2.42	0.53
1:AA:1221:G:H5''	18:AS:35:ARG:NH1	2.23	0.53
5:AF:40:GLU:CG	5:AF:42:TRP:HE1	2.22	0.53
9:AJ:7:ARG:HA	9:AJ:75:ASP:HB2	1.90	0.53
10:AK:54:SER:HA	10:AK:56:LYS:HE3	1.90	0.53
10:AK:111:ASP:O	17:AR:72:ARG:HD3	2.09	0.53
13:AN:81:ILE:O	13:AN:84:ARG:HB3	2.09	0.53
17:AR:25:ILE:HG13	17:AR:67:LEU:HD11	1.91	0.53
20:AB:185:ILE:HG22	20:AB:199:ILE:HB	1.91	0.53
21:AU:13:VAL:HG13	21:AU:14:ALA:N	2.16	0.53
23:BB:37:C:C2'	27:BE:46:GLN:HB3	2.38	0.53
23:BB:699:A:H2'	23:BB:700:G:O4'	2.08	0.53
23:BB:1192:G:C2'	23:BB:1193:G:H5'	2.39	0.53
23:BB:1346:G:O2'	23:BB:1347:A:H5'	2.08	0.53
23:BB:2298:A:H2'	23:BB:2299:U:O4'	2.09	0.53
25:BC:114:GLN:HB2	25:BC:124:LYS:NZ	2.23	0.53
25:BC:247:TRP:HD1	25:BC:247:TRP:O	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:170:VAL:HG11	26:BD:194:PRO:CG	2.39	0.53
27:BE:44:ARG:HG2	27:BE:45:ALA:H	1.73	0.53
27:BE:50:ALA:O	27:BE:74:LYS:HD2	2.08	0.53
27:BE:123:LYS:HB3	27:BE:126:VAL:HG23	1.90	0.53
28:BF:66:ILE:HA	28:BF:85:GLY:O	2.08	0.53
29:BG:139:VAL:O	29:BG:143:VAL:HG23	2.09	0.53
30:BH:3:VAL:CG2	30:BH:21:VAL:HG21	2.39	0.53
34:BM:96:ILE:HD13	34:BM:97:GLN:CB	2.38	0.53
34:BM:96:ILE:HD13	34:BM:97:GLN:HB2	1.91	0.53
35:BN:21:PHE:CE1	35:BN:43:GLU:HG2	2.44	0.53
35:BN:35:LYS:HA	35:BN:111:ALA:O	2.08	0.53
37:BP:24:THR:CG2	37:BP:111:GLU:HG2	2.33	0.53
37:BP:92:ARG:NH2	37:BP:110:LYS:HE2	2.24	0.53
39:BR:49:ILE:O	39:BR:51:VAL:HG23	2.09	0.53
47:B0:2:VAL:HG22	47:B0:3:GLN:N	2.23	0.53
1:CA:120:A:H2'	1:CA:121:U:H5''	1.91	0.53
1:CA:252:U:H2'	1:CA:253:A:H8	1.74	0.53
1:CA:266:G:O2'	1:CA:267:C:H3'	2.09	0.53
1:CA:555:U:H2'	1:CA:556:C:C6	2.43	0.53
1:CA:764:C:C2'	1:CA:765:G:H5'	2.39	0.53
1:CA:1143:G:H2'	1:CA:1144:G:C8	2.44	0.53
1:CA:1165:U:H2'	1:CA:1166:G:O4'	2.09	0.53
3:CD:167:PRO:CG	3:CD:170:LEU:HD11	2.30	0.53
6:CG:55:LYS:HB3	6:CG:59:GLU:OE2	2.08	0.53
20:CB:175:ALA:HA	20:CB:178:LEU:HD12	1.90	0.53
21:CU:15:LEU:HA	21:CU:17:ARG:NH1	2.24	0.53
23:DB:96:C:H4'	44:DX:41:HIS:CE1	2.44	0.53
23:DB:845:A:N1	23:DB:847:U:H1'	2.23	0.53
23:DB:997:G:N3	23:DB:997:G:H2'	2.24	0.53
23:DB:1116:G:H21	34:DM:136:MET:HE1	1.72	0.53
23:DB:1219:U:H2'	23:DB:1220:G:C8	2.43	0.53
23:DB:2027:G:O2'	23:DB:2028:U:H5'	2.08	0.53
23:DB:2052:A:H5'	26:DD:146:ILE:O	2.08	0.53
23:DB:2852:G:H2'	23:DB:2853:C:H6	1.74	0.53
25:DC:168:GLY:C	25:DC:170:TYR:H	2.11	0.53
25:DC:171:VAL:HA	25:DC:183:VAL:O	2.08	0.53
26:DD:23:PRO:HA	26:DD:189:VAL:O	2.08	0.53
29:DG:36:LEU:HB2	29:DG:40:VAL:HG21	1.90	0.53
29:DG:58:ALA:C	29:DG:60:GLY:H	2.11	0.53
29:DG:142:GLN:HG3	29:DG:143:VAL:N	2.22	0.53
31:DJ:13:ARG:HG2	31:DJ:53:TYR:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:77:ILE:HD11	32:DK:105:ARG:NH1	2.23	0.53
33:DL:18:ARG:NH2	33:DL:21:ARG:HD3	2.23	0.53
34:DM:5:LYS:O	34:DM:6:ARG:HB2	2.08	0.53
35:DN:33:ILE:HG12	35:DN:114:GLU:HB3	1.91	0.53
36:DO:25:ARG:NH2	36:DO:94:ARG:HH12	2.05	0.53
43:DW:9:THR:OG1	43:DW:10:ARG:N	2.41	0.53
51:D4:9:LYS:O	51:D4:25:VAL:HA	2.08	0.53
51:D4:19:ARG:HH11	51:D4:19:ARG:HB3	1.74	0.53
1:AA:263:A:P	19:AT:73:ARG:HH22	2.32	0.53
1:AA:824:G:O2'	1:AA:825:A:H5'	2.08	0.53
1:AA:1130:A:H5'	8:AI:19:PHE:CE2	2.44	0.53
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.09	0.53
4:AE:149:PRO:HA	7:AH:98:LEU:HD21	1.91	0.53
10:AK:51:PHE:CE1	10:AK:61:ALA:HB1	2.43	0.53
11:AL:8:ARG:HG3	11:AL:9:LYS:N	2.17	0.53
23:BB:557:C:O2'	31:BJ:114:LEU:HD13	2.08	0.53
23:BB:857:G:O2'	23:BB:858:G:H5'	2.09	0.53
23:BB:1123:C:H2'	23:BB:1124:G:H8	1.73	0.53
23:BB:1453:A:H61	35:BN:74:GLU:HG2	1.73	0.53
23:BB:1579:A:H2'	23:BB:1580:A:C8	2.43	0.53
23:BB:1979:U:O2'	23:BB:1980:G:H5'	2.09	0.53
23:BB:2618:G:O2'	26:BD:154:LYS:O	2.26	0.53
26:BD:1:MET:CE	26:BD:84:LEU:HD13	2.39	0.53
29:BG:171:LYS:O	29:BG:172:GLU:HG2	2.08	0.53
40:BS:33:LEU:HB3	40:BS:37:THR:HB	1.90	0.53
40:BS:34:ASP:H	40:BS:37:THR:CG2	2.20	0.53
43:BW:35:ILE:HG23	43:BW:36:ILE:N	2.14	0.53
52:BI:83:ALA:N	52:BI:100:ILE:HD11	2.24	0.53
1:CA:586:C:H5''	7:CH:81:GLY:HA2	1.89	0.53
1:CA:621:A:H2'	1:CA:622:A:C8	2.44	0.53
3:CD:100:VAL:HG12	3:CD:101:VAL:N	2.24	0.53
4:CE:36:THR:HG22	4:CE:37:VAL:N	2.22	0.53
7:CH:102:VAL:HG23	7:CH:125:ILE:HB	1.91	0.53
10:CK:115:ILE:O	10:CK:115:ILE:HD12	2.08	0.53
14:CO:35:ILE:O	14:CO:39:GLN:HG2	2.08	0.53
18:CS:3:SER:O	18:CS:4:LEU:HD12	2.08	0.53
18:CS:41:PRO:HA	18:CS:44:ILE:HG13	1.90	0.53
20:CB:40:ILE:HG23	20:CB:200:PRO:HB2	1.89	0.53
22:DA:33:G:O2'	22:DA:34:A:H5'	2.09	0.53
23:DB:565:C:O2'	23:DB:566:U:H5'	2.08	0.53
23:DB:1681:G:N3	23:DB:1762:A:H2'	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1810:A:H2'	23:DB:1811:G:O4'	2.08	0.53
23:DB:1825:U:H5'	25:DC:244:VAL:HG21	1.89	0.53
23:DB:2234:G:O2'	23:DB:2235:G:H5'	2.09	0.53
23:DB:2840:C:H2'	23:DB:2841:C:H6	1.72	0.53
23:DB:2893:A:H5''	23:DB:2894:G:H5'	1.90	0.53
25:DC:142:ASN:HA	25:DC:153:LEU:CD2	2.39	0.53
25:DC:155:ARG:HG2	25:DC:155:ARG:NH2	2.23	0.53
26:DD:7:LYS:HA	26:DD:26:VAL:HA	1.91	0.53
27:DE:2:GLU:O	27:DE:3:LEU:HB2	2.09	0.53
27:DE:169:VAL:HG22	27:DE:170:ARG:N	2.24	0.53
28:DF:98:PHE:HA	28:DF:101:ARG:HE	1.74	0.53
30:DH:4:ILE:HD13	30:DH:37:VAL:HG13	1.90	0.53
34:DM:51:ARG:HH11	34:DM:51:ARG:HG2	1.73	0.53
34:DM:81:ARG:HG3	34:DM:82:MET:N	2.23	0.53
35:DN:29:VAL:HG21	35:DN:75:ILE:HB	1.91	0.53
40:DS:71:VAL:HA	40:DS:107:VAL:HG12	1.91	0.53
41:DT:61:LEU:HB2	41:DT:82:LYS:HB3	1.91	0.53
1:AA:1299:A:H62	1:AA:1302:C:H5	1.57	0.53
6:AG:110:ARG:HH22	6:AG:121:ASN:HB3	1.72	0.53
7:AH:93:LYS:HZ2	7:AH:93:LYS:N	2.07	0.53
22:BA:17:C:O2'	22:BA:18:G:H5'	2.09	0.53
23:BB:182:A:H2'	23:BB:183:C:H6	1.74	0.53
23:BB:809:G:O6	33:BL:39:LYS:HE3	2.09	0.53
23:BB:1082:U:C2	23:BB:1086:A:C6	2.97	0.53
23:BB:1688:U:O2	23:BB:1700:A:H5'	2.09	0.53
23:BB:1771:C:H2'	23:BB:1772:A:H8	1.73	0.53
23:BB:2074:U:H2'	23:BB:2075:U:C6	2.44	0.53
23:BB:2393:U:H5'	33:BL:62:PRO:CD	2.39	0.53
23:BB:2511:U:H4'	26:BD:128:ARG:CZ	2.39	0.53
23:BB:2620:C:O4'	26:BD:161:MET:HG3	2.09	0.53
23:BB:2678:C:H2'	23:BB:2679:A:H8	1.73	0.53
23:BB:2800:A:H2'	23:BB:2801:G:C1'	2.39	0.53
25:BC:10:PRO:HD2	25:BC:23:LEU:HD11	1.91	0.53
25:BC:171:VAL:HB	25:BC:182:LYS:CB	2.39	0.53
26:BD:5:VAL:HB	26:BD:27:ILE:O	2.09	0.53
26:BD:175:LEU:HD22	26:BD:189:VAL:HG12	1.91	0.53
29:BG:42:VAL:HG12	29:BG:51:PHE:CD1	2.44	0.53
29:BG:60:GLY:O	29:BG:63:GLN:HG2	2.08	0.53
31:BJ:19:ASP:OD1	31:BJ:20:ALA:N	2.42	0.53
34:BM:18:ARG:HB3	34:BM:40:ARG:HH22	1.73	0.53
34:BM:82:MET:HB2	34:BM:84:LYS:CE	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:83:ILE:HG22	37:BP:85:VAL:H	1.73	0.53
39:BR:47:VAL:HG13	39:BR:49:ILE:N	2.20	0.53
40:BS:8:ARG:NH1	40:BS:80:PRO:HD2	2.24	0.53
52:BI:130:GLY:HA2	52:BI:133:ARG:NH2	2.23	0.53
1:CA:32:A:H2'	1:CA:33:A:C8	2.44	0.53
1:CA:278:G:H21	1:CA:279:A:N6	2.04	0.53
1:CA:407:U:O2'	3:CD:112:GLU:HG3	2.08	0.53
1:CA:610:U:O2	1:CA:610:U:O4'	2.27	0.53
1:CA:1409:C:H2'	1:CA:1410:A:H8	1.73	0.53
1:CA:1432:G:OP1	37:DP:105:LYS:HB2	2.09	0.53
4:CE:19:ARG:HG2	4:CE:20:VAL:N	2.22	0.53
4:CE:156:ARG:HD2	7:CH:42:GLU:O	2.08	0.53
12:CM:106:ARG:NH1	12:CM:109:LYS:HD2	2.24	0.53
13:CN:15:LEU:O	13:CN:19:TYR:HB2	2.08	0.53
14:CO:53:ARG:HH11	14:CO:53:ARG:HG2	1.72	0.53
15:CP:8:ARG:CZ	15:CP:15:PRO:HB3	2.39	0.53
22:DA:51:G:C2'	22:DA:52:A:H5''	2.39	0.53
23:DB:340:A:H2'	23:DB:341:C:O4'	2.09	0.53
23:DB:364:C:H2'	23:DB:365:U:C6	2.42	0.53
23:DB:453:A:H4'	23:DB:472:A:H61	1.72	0.53
23:DB:589:U:H2'	23:DB:590:A:H8	1.74	0.53
23:DB:729:G:H2'	23:DB:1775:U:H1'	1.91	0.53
23:DB:1013:C:H2'	23:DB:1014:A:C8	2.44	0.53
23:DB:1099:G:H5'	52:DI:4:VAL:CA	2.39	0.53
23:DB:1270:C:H5''	23:DB:1271:G:O5'	2.09	0.53
23:DB:1528:A:H2'	23:DB:1529:G:O4'	2.09	0.53
23:DB:1915:U:H2'	23:DB:1916:A:O4'	2.08	0.53
23:DB:2869:G:H2'	23:DB:2870:C:C6	2.44	0.53
25:DC:38:LYS:HG3	25:DC:39:SER:H	1.74	0.53
25:DC:61:TYR:CZ	25:DC:63:ILE:HD11	2.43	0.53
25:DC:224:MET:CB	25:DC:233:GLY:H	2.22	0.53
25:DC:231:HIS:ND1	25:DC:242:HIS:HA	2.24	0.53
25:DC:258:SER:H	25:DC:261:ARG:NH1	2.06	0.53
27:DE:152:GLU:O	27:DE:153:LEU:HB2	2.08	0.53
33:DL:17:LYS:HG3	33:DL:18:ARG:N	2.24	0.53
33:DL:90:VAL:N	33:DL:122:VAL:HG22	2.23	0.53
34:DM:9:PHE:CD2	34:DM:11:LYS:HG2	2.44	0.53
35:DN:103:ARG:O	35:DN:104:ALA:HB3	2.09	0.53
37:DP:23:ASP:O	37:DP:25:VAL:HG23	2.09	0.53
39:DR:32:THR:CB	39:DR:66:HIS:HB3	2.39	0.53
44:DX:31:GLN:HA	44:DX:31:GLN:HE21	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:52:ARG:O	44:DX:56:LEU:HD12	2.09	0.53
52:DI:10:LEU:HD12	52:DI:10:LEU:O	2.09	0.53
1:AA:499:A:H4'	1:AA:500:G:OP1	2.09	0.53
1:AA:1117:A:H5''	8:AI:105:ARG:HH12	1.73	0.53
1:AA:1439:G:H2'	1:AA:1440:U:O4'	2.08	0.53
14:AO:15:GLY:HA3	14:AO:20:ASP:OD1	2.09	0.53
16:AQ:4:ILE:HD12	16:AQ:5:ARG:H	1.73	0.53
18:AS:29:PRO:CA	18:AS:47:THR:HB	2.39	0.53
22:BA:54:G:H2'	22:BA:55:U:C6	2.43	0.53
23:BB:354:A:H2'	23:BB:355:U:O4'	2.09	0.53
23:BB:529:A:OP2	31:BJ:113:PRO:HD3	2.08	0.53
23:BB:554:U:H2'	23:BB:555:G:O4'	2.09	0.53
23:BB:672:C:O2'	23:BB:673:C:H5'	2.09	0.53
23:BB:1528:A:H2'	23:BB:1529:G:O4'	2.09	0.53
23:BB:2379:G:H2'	23:BB:2380:C:C6	2.43	0.53
23:BB:2484:G:O2'	23:BB:2485:G:H5'	2.08	0.53
25:BC:12:ARG:HB2	25:BC:18:VAL:HG12	1.91	0.53
25:BC:63:ILE:O	25:BC:64:VAL:HG13	2.09	0.53
27:BE:3:LEU:HB2	27:BE:12:LEU:HD13	1.91	0.53
27:BE:132:LYS:HZ2	27:BE:132:LYS:HB2	1.74	0.53
36:BO:19:GLN:N	43:BW:76:ARG:HH12	2.01	0.53
40:BS:7:HIS:CD2	40:BS:8:ARG:H	2.27	0.53
46:BZ:17:SER:N	46:BZ:21:VAL:HG23	2.23	0.53
49:B2:34:ARG:HH11	49:B2:34:ARG:HG3	1.74	0.53
50:B3:24:LYS:HA	50:B3:45:PRO:CB	2.34	0.53
50:B3:41:ARG:CZ	50:B3:42:HIS:H	2.22	0.53
52:BI:27:LEU:HB2	52:BI:32:VAL:HG21	1.91	0.53
1:CA:474:G:H2'	1:CA:475:C:C6	2.44	0.53
1:CA:636:U:H2'	1:CA:637:C:C6	2.44	0.53
1:CA:846:G:N3	1:CA:846:G:H2'	2.24	0.53
1:CA:1068:G:N7	1:CA:1094:G:H2'	2.24	0.53
5:CF:3:HIS:CB	5:CF:92:THR:HA	2.29	0.53
8:CI:19:PHE:HD1	8:CI:63:TYR:HB3	1.73	0.53
8:CI:33:SER:HB2	8:CI:36:GLN:HG2	1.91	0.53
9:CJ:93:ALA:HB1	9:CJ:96:VAL:HG22	1.91	0.53
10:CK:60:PHE:O	10:CK:64:VAL:HG13	2.09	0.53
10:CK:70:ALA:CA	10:CK:73:VAL:HG22	2.36	0.53
11:CL:35:ARG:NE	11:CL:36:VAL:H	2.07	0.53
11:CL:49:ARG:CG	11:CL:89:LEU:HD21	2.36	0.53
14:CO:81:ILE:HD12	14:CO:87:ARG:HB2	1.91	0.53
23:DB:125:A:H4'	23:DB:126:A:OP2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:920:A:H2'	23:DB:921:C:H6	1.74	0.53
23:DB:1061:U:H4'	23:DB:1070:A:O3'	2.09	0.53
23:DB:1509:A:H5'	23:DB:1510:G:H5'	1.90	0.53
23:DB:1771:C:H2'	23:DB:1772:A:H8	1.73	0.53
23:DB:1923:U:H2'	23:DB:1924:C:C6	2.44	0.53
23:DB:2787:C:O2'	23:DB:2788:C:H5'	2.09	0.53
25:DC:136:VAL:HA	25:DC:165:ALA:CB	2.39	0.53
25:DC:145:MET:HG2	25:DC:152:GLN:HG2	1.91	0.53
25:DC:163:ILE:HG12	25:DC:173:LEU:CD2	2.38	0.53
26:DD:77:ARG:HB2	26:DD:77:ARG:CZ	2.38	0.53
26:DD:79:LEU:HG	26:DD:80:TRP:H	1.74	0.53
27:DE:46:GLN:HG3	27:DE:49:ARG:NH2	2.23	0.53
27:DE:144:GLU:HA	27:DE:166:LYS:HE2	1.90	0.53
27:DE:149:ILE:HD12	27:DE:152:GLU:OE2	2.09	0.53
34:DM:71:LYS:HA	34:DM:71:LYS:NZ	2.23	0.53
35:DN:67:PHE:O	35:DN:71:ARG:HA	2.09	0.53
39:DR:78:ARG:HH21	39:DR:90:ARG:HH21	1.57	0.53
44:DX:16:THR:OG1	44:DX:19:LEU:HB3	2.09	0.53
52:DI:83:ALA:HB3	52:DI:85:ILE:HG12	1.91	0.53
52:DI:99:LYS:HD3	52:DI:99:LYS:H	1.72	0.53
1:AA:275:G:C5'	16:AQ:15:LYS:HG2	2.39	0.52
1:AA:399:G:H2'	1:AA:400:C:C6	2.43	0.52
1:AA:411:A:O2'	1:AA:412:A:H4'	2.09	0.52
1:AA:1132:C:H2'	1:AA:1133:G:O4'	2.09	0.52
1:AA:1170:A:H2'	1:AA:1171:A:O4'	2.09	0.52
1:AA:1508:A:H2'	1:AA:1509:C:H6	1.73	0.52
3:AD:197:HIS:HA	3:AD:200:VAL:HG22	1.91	0.52
5:AF:55:HIS:O	5:AF:56:LYS:HG3	2.09	0.52
23:BB:718:A:H3'	23:BB:719:C:C6	2.44	0.52
23:BB:740:C:H5''	23:BB:1784:A:OP1	2.09	0.52
23:BB:854:C:O2'	23:BB:855:G:H5'	2.09	0.52
23:BB:1474:U:H2'	23:BB:1475:G:H5'	1.90	0.52
23:BB:1842:G:H2'	23:BB:1843:C:H6	1.74	0.52
23:BB:2147:A:H5'	23:BB:2148:G:C5'	2.39	0.52
23:BB:2195:U:H2'	23:BB:2196:C:C6	2.44	0.52
23:BB:2615:U:C1'	47:B0:6:LYS:HE3	2.28	0.52
23:BB:2740:A:H2'	23:BB:2741:A:C8	2.44	0.52
23:BB:2743:U:H2'	23:BB:2744:G:O4'	2.09	0.52
23:BB:2811:G:OP1	26:BD:61:THR:HB	2.09	0.52
25:BC:21:PRO:HG2	25:BC:202:ARG:NH1	2.23	0.52
25:BC:68:ARG:HD2	25:BC:127:ASN:ND2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:84:PRO:O	25:BC:86:ARG:N	2.39	0.52
27:BE:38:GLY:C	27:BE:40:ARG:H	2.12	0.52
29:BG:137:LYS:O	29:BG:140:ILE:HG13	2.09	0.52
32:BK:63:VAL:HB	32:BK:83:ALA:HB3	1.91	0.52
33:BL:77:ILE:HB	33:BL:110:VAL:CG2	2.28	0.52
34:BM:23:GLY:H	34:BM:96:ILE:HD12	1.75	0.52
34:BM:73:ILE:HG22	34:BM:74:THR:N	2.24	0.52
35:BN:19:ALA:C	35:BN:21:PHE:N	2.62	0.52
35:BN:22:ARG:NH1	35:BN:69:ARG:HA	2.24	0.52
38:BQ:23:TYR:O	38:BQ:24:TYR:HB2	2.09	0.52
39:BR:85:LYS:C	39:BR:87:GLN:H	2.13	0.52
45:BY:9:THR:OG1	45:BY:10:ARG:N	2.42	0.52
1:CA:22:G:H4'	1:CA:885:G:C8	2.45	0.52
1:CA:555:U:H2'	1:CA:556:C:H6	1.75	0.52
1:CA:860:A:H2'	1:CA:861:G:O4'	2.10	0.52
1:CA:954:G:H2'	1:CA:955:U:C6	2.44	0.52
1:CA:975:A:H1'	1:CA:1358:U:O2	2.07	0.52
1:CA:1190:G:H5'	2:CC:175:HIS:NE2	2.24	0.52
1:CA:1402:C:H2'	1:CA:1403:C:O4'	2.08	0.52
3:CD:64:TYR:CE2	3:CD:93:LEU:HB2	2.45	0.52
5:CF:92:THR:O	5:CF:93:LYS:HB2	2.08	0.52
11:CL:6:LEU:HB3	16:CQ:33:TYR:OH	2.09	0.52
23:DB:4:U:H2'	23:DB:5:A:H8	1.73	0.52
23:DB:131:A:H2'	23:DB:132:G:H8	1.75	0.52
23:DB:611:C:H2'	23:DB:612:G:O4'	2.10	0.52
23:DB:1219:U:H2'	23:DB:1220:G:H8	1.74	0.52
23:DB:1488:C:O2'	23:DB:1489:C:H5'	2.09	0.52
23:DB:1801:A:H5'	23:DB:2203:U:O2'	2.08	0.52
23:DB:2443:C:O2'	23:DB:2444:G:H5'	2.09	0.52
23:DB:2669:G:H2'	23:DB:2670:A:C8	2.44	0.52
24:DV:9:ARG:HE	24:DV:20:LEU:HD11	1.74	0.52
25:DC:268:ARG:O	25:DC:269:ARG:HB2	2.08	0.52
32:DK:70:ARG:O	32:DK:71:ARG:HG2	2.09	0.52
42:DU:51:LEU:C	42:DU:53:GLN:H	2.12	0.52
42:DU:96:LYS:O	42:DU:97:SER:HB3	2.08	0.52
44:DX:30:MET:H	44:DX:30:MET:CE	2.22	0.52
1:AA:320:A:H2'	1:AA:321:A:C8	2.44	0.52
1:AA:403:C:O2'	1:AA:404:G:H5'	2.08	0.52
1:AA:638:U:H2'	1:AA:639:G:O4'	2.08	0.52
1:AA:815:A:H4'	1:AA:817:C:C4	2.45	0.52
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1060:U:H5'	9:AJ:53:ILE:CG2	2.40	0.52
2:AC:146:LYS:HG3	2:AC:202:PHE:HD2	1.74	0.52
11:AL:22:ALA:HB2	11:AL:56:LEU:CD2	2.40	0.52
13:AN:9:GLU:O	13:AN:13:VAL:HG23	2.10	0.52
13:AN:30:ILE:C	13:AN:32:ASP:H	2.13	0.52
14:AO:6:ALA:O	14:AO:9:LYS:HB3	2.10	0.52
14:AO:70:LYS:NZ	14:AO:74:VAL:HG13	2.22	0.52
23:BB:131:A:H2'	23:BB:132:G:H8	1.73	0.52
23:BB:418:C:H2'	23:BB:419:U:H6	1.74	0.52
23:BB:615:U:C2	27:BE:38:GLY:HA3	2.44	0.52
23:BB:691:C:H4'	25:BC:42:ARG:NE	2.24	0.52
23:BB:943:A:OP1	33:BL:42:SER:HB3	2.09	0.52
23:BB:950:G:H2'	23:BB:951:C:H6	1.74	0.52
23:BB:1601:G:OP1	41:BT:62:VAL:HG21	2.10	0.52
23:BB:2734:A:C2'	23:BB:2735:G:H5'	2.39	0.52
25:BC:107:LYS:H	25:BC:194:VAL:CG2	2.20	0.52
25:BC:139:THR:CG2	25:BC:193:GLU:HB3	2.40	0.52
25:BC:209:ALA:HA	25:BC:213:ARG:CZ	2.39	0.52
27:BE:44:ARG:HD3	27:BE:44:ARG:N	2.24	0.52
28:BF:106:ALA:HB1	28:BF:136:ILE:HG23	1.90	0.52
31:BJ:72:LYS:HB2	31:BJ:90:GLU:HB2	1.91	0.52
31:BJ:109:LEU:O	31:BJ:111:LYS:HG3	2.09	0.52
33:BL:29:LYS:NZ	33:BL:31:GLY:HA3	2.24	0.52
36:BO:19:GLN:CA	43:BW:76:ARG:HH22	2.18	0.52
37:BP:52:ARG:CG	37:BP:54:LEU:HB2	2.40	0.52
38:BQ:111:LYS:HB2	39:BR:52:PRO:HB3	1.91	0.52
39:BR:78:ARG:HG2	39:BR:88:GLY:H	1.74	0.52
46:BZ:13:THR:HG23	46:BZ:25:ARG:HB3	1.91	0.52
50:B3:13:PHE:O	50:B3:14:LYS:HG2	2.09	0.52
52:BI:27:LEU:HD23	52:BI:27:LEU:N	2.17	0.52
1:CA:320:A:H2'	1:CA:321:A:C8	2.44	0.52
2:CC:172:VAL:O	2:CC:174:LEU:HD12	2.09	0.52
4:CE:37:VAL:HG12	4:CE:116:VAL:HG21	1.92	0.52
7:CH:13:ILE:HD11	7:CH:60:LEU:HD21	1.90	0.52
13:CN:19:TYR:HE2	13:CN:50:LEU:HD13	1.73	0.52
15:CP:22:ALA:CB	15:CP:32:PHE:HA	2.40	0.52
18:CS:22:VAL:HG22	18:CS:42:ASN:OD1	2.09	0.52
22:DA:47:C:H5'	36:DO:97:PHE:CZ	2.43	0.52
23:DB:204:A:H4'	23:DB:205:G:OP1	2.08	0.52
23:DB:300:A:H2'	23:DB:334:C:O2'	2.09	0.52
23:DB:359:G:H2'	23:DB:360:U:H5'	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:553:G:O2'	23:DB:554:U:H5'	2.09	0.52
23:DB:988:A:OP1	45:DY:10:ARG:HB3	2.09	0.52
23:DB:1545:A:H2'	23:DB:1546:G:O4'	2.09	0.52
23:DB:2101:A:O2'	23:DB:2102:G:H5'	2.09	0.52
23:DB:2266:A:H4'	23:DB:2267:A:C2	2.45	0.52
23:DB:2281:A:N6	43:DW:3:LYS:HE3	2.24	0.52
26:DD:34:VAL:HG11	26:DD:50:VAL:HG23	1.90	0.52
28:DF:18:GLU:C	28:DF:20:ASN:H	2.12	0.52
29:DG:14:VAL:HG12	29:DG:16:VAL:HG23	1.92	0.52
30:DH:54:LEU:HA	30:DH:57:LYS:HD2	1.92	0.52
31:DJ:4:PHE:HB2	31:DJ:5:THR:O	2.08	0.52
31:DJ:7:LYS:HD2	31:DJ:45:THR:OG1	2.09	0.52
32:DK:53:LYS:O	32:DK:56:ASP:HB2	2.09	0.52
36:DO:18:LEU:HD13	43:DW:76:ARG:NE	2.25	0.52
37:DP:25:VAL:O	37:DP:47:ILE:HG13	2.09	0.52
37:DP:108:ARG:HD3	37:DP:108:ARG:H	1.73	0.52
39:DR:6:GLN:HE21	39:DR:6:GLN:N	2.07	0.52
41:DT:34:VAL:HG22	41:DT:35:ALA:H	1.73	0.52
42:DU:60:LYS:HE3	42:DU:61:GLU:H	1.74	0.52
44:DX:44:LYS:HE3	44:DX:47:ARG:HB2	1.91	0.52
50:D3:37:THR:HA	50:D3:40:LYS:HD3	1.91	0.52
51:D4:15:LYS:HZ3	51:D4:22:VAL:HG12	1.74	0.52
1:AA:405:U:O4	3:AD:1:ALA:HA	2.09	0.52
1:AA:846:G:H2'	1:AA:846:G:N3	2.23	0.52
1:AA:889:A:H61	1:AA:907:A:H3'	1.74	0.52
1:AA:1308:U:OP1	12:AM:95:PRO:HA	2.09	0.52
6:AG:143:MET:O	6:AG:147:ASN:HB2	2.09	0.52
9:AJ:22:THR:HG23	9:AJ:23:ALA:N	2.23	0.52
9:AJ:55:PRO:O	9:AJ:56:HIS:HB3	2.10	0.52
10:AK:56:LYS:O	10:AK:58:THR:N	2.43	0.52
10:AK:124:LYS:CA	21:AU:34:ARG:HB3	2.29	0.52
11:AL:86:VAL:HG11	11:AL:89:LEU:HD23	1.90	0.52
15:AP:57:ILE:O	15:AP:61:VAL:HG22	2.09	0.52
20:AB:95:TRP:HH2	20:AB:100:LEU:HB2	1.75	0.52
23:BB:1187:G:H5''	39:BR:84:ARG:CD	2.39	0.52
23:BB:1395:A:H4'	23:BB:1397:U:C5	2.44	0.52
23:BB:1439:A:C5	23:BB:1552:A:N6	2.77	0.52
23:BB:1750:G:H2'	23:BB:1751:U:C6	2.45	0.52
23:BB:1785:A:H2'	23:BB:1787:A:N7	2.24	0.52
23:BB:1789:A:OP1	25:BC:219:VAL:HG12	2.09	0.52
23:BB:1842:G:H2'	23:BB:1843:C:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2732:G:H3'	23:BB:2733:A:H5'	1.91	0.52
28:BF:173:ASP:O	28:BF:173:ASP:CG	2.47	0.52
29:BG:126:THR:CG2	29:BG:128:THR:HG23	2.39	0.52
31:BJ:25:LEU:HD12	31:BJ:62:VAL:HG12	1.92	0.52
32:BK:84:CYS:O	32:BK:85:VAL:HB	2.10	0.52
38:BQ:92:LYS:O	38:BQ:94:LEU:N	2.42	0.52
38:BQ:93:ILE:HG23	38:BQ:94:LEU:N	2.19	0.52
40:BS:32:ALA:C	40:BS:33:LEU:HD22	2.29	0.52
41:BT:84:TYR:O	41:BT:85:VAL:HG22	2.08	0.52
44:BX:8:GLU:O	44:BX:10:SER:N	2.42	0.52
44:BX:40:SER:O	44:BX:42:LEU:HD12	2.09	0.52
46:BZ:30:HIS:HE1	46:BZ:49:ARG:HB2	1.74	0.52
1:CA:1026:G:H2'	1:CA:1027:C:C6	2.45	0.52
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.44	0.52
1:CA:1118:U:H2'	1:CA:1119:C:C6	2.44	0.52
2:CC:63:ILE:HG12	2:CC:65:VAL:CG2	2.39	0.52
3:CD:101:VAL:HG13	3:CD:106:PHE:HD2	1.74	0.52
4:CE:15:ILE:HG22	4:CE:16:ALA:H	1.74	0.52
7:CH:45:ILE:HD13	7:CH:60:LEU:HD11	1.89	0.52
8:CI:74:GLN:HE21	8:CI:74:GLN:CA	2.20	0.52
9:CJ:8:ILE:HG12	9:CJ:75:ASP:HA	1.90	0.52
9:CJ:56:HIS:H	13:CN:80:ARG:NH2	2.06	0.52
14:CO:36:ASN:HA	14:CO:39:GLN:HG3	1.90	0.52
14:CO:48:ASP:OD2	14:CO:51:SER:HB2	2.08	0.52
14:CO:63:ARG:HH21	14:CO:87:ARG:NH1	2.07	0.52
23:DB:189:G:H1	23:DB:205:G:HO2'	1.56	0.52
23:DB:575:A:O2'	23:DB:576:U:H5'	2.09	0.52
23:DB:587:C:H4'	23:DB:588:U:C6	2.44	0.52
23:DB:1259:G:H2'	23:DB:1260:A:C8	2.44	0.52
23:DB:1450:G:N2	23:DB:1452:G:N1	2.56	0.52
23:DB:1641:A:H2'	23:DB:1642:G:O4'	2.09	0.52
23:DB:1737:G:H5'	23:DB:1738:G:OP2	2.09	0.52
23:DB:2285:C:C5	48:D1:7:LYS:HE3	2.44	0.52
23:DB:2839:G:H2'	23:DB:2840:C:C6	2.43	0.52
26:DD:172:VAL:HB	26:DD:175:LEU:HD11	1.91	0.52
27:DE:76:PRO:HA	27:DE:82:GLY:O	2.10	0.52
31:DJ:64:VAL:HG21	31:DJ:90:GLU:OE1	2.08	0.52
32:DK:86:LEU:HB2	32:DK:95:ILE:HG23	1.91	0.52
32:DK:107:LEU:HG	32:DK:115:ILE:HG21	1.89	0.52
33:DL:109:LYS:HE2	33:DL:126:ARG:NH1	2.24	0.52
36:DO:25:ARG:HE	36:DO:94:ARG:HH22	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DS:25:ARG:HD2	40:DS:26:GLY:H	1.73	0.52
40:DS:48:LYS:O	40:DS:52:GLU:HG3	2.08	0.52
42:DU:59:GLU:HG2	42:DU:60:LYS:N	2.24	0.52
43:DW:28:GLU:N	43:DW:61:LYS:HB2	2.25	0.52
44:DX:25:GLN:NE2	44:DX:29:ARG:HH21	2.08	0.52
50:D3:2:LYS:HB2	50:D3:2:LYS:HZ2	1.72	0.52
1:AA:492:C:H2'	1:AA:493:A:H5''	1.92	0.52
1:AA:1103:C:C5'	20:AB:96:LEU:HD12	2.37	0.52
1:AA:1422:G:P	32:BK:54:LYS:HZ1	2.32	0.52
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.08	0.52
2:AC:6:PRO:HG3	2:AC:200:TRP:HE1	1.73	0.52
3:AD:54:LEU:HD22	3:AD:54:LEU:O	2.09	0.52
6:AG:114:SER:C	6:AG:118:ARG:HG3	2.30	0.52
7:AH:43:GLY:O	7:AH:63:LYS:HE3	2.09	0.52
10:AK:28:ASN:ND2	10:AK:29:THR:N	2.58	0.52
14:AO:2:LEU:HD23	14:AO:3:SER:N	2.24	0.52
16:AQ:18:LYS:HA	16:AQ:47:ASP:O	2.08	0.52
16:AQ:80:LYS:O	16:AQ:80:LYS:HE3	2.09	0.52
23:BB:15:G:O2'	23:BB:16:C:H5'	2.10	0.52
23:BB:167:A:H2'	23:BB:168:G:O4'	2.10	0.52
23:BB:784:G:C5'	25:BC:225:ASN:HD21	2.23	0.52
23:BB:1028:A:N6	23:BB:1125:G:H2'	2.24	0.52
23:BB:1736:U:H2'	23:BB:1737:G:O4'	2.09	0.52
23:BB:2104:C:H2'	23:BB:2105:U:C5	2.44	0.52
24:BV:9:ARG:HH12	24:BV:27:PRO:HA	1.74	0.52
26:BD:8:LYS:HD2	37:BP:5:LYS:NZ	2.24	0.52
37:BP:25:VAL:HG11	37:BP:86:LYS:O	2.09	0.52
37:BP:38:ARG:HH11	37:BP:39:LEU:N	2.06	0.52
39:BR:42:ALA:C	39:BR:44:GLY:N	2.60	0.52
40:BS:34:ASP:N	40:BS:37:THR:HG22	2.23	0.52
41:BT:34:VAL:CG1	41:BT:43:ILE:HD11	2.39	0.52
42:BU:38:ILE:CB	42:BU:62:ALA:HB3	2.40	0.52
46:BZ:15:SER:HG	46:BZ:23:LYS:HD3	1.74	0.52
52:BI:122:GLU:CD	52:BI:122:GLU:H	2.12	0.52
1:CA:280:C:O2	16:CQ:39:ARG:HG3	2.09	0.52
1:CA:492:C:H2'	1:CA:493:A:H5''	1.91	0.52
1:CA:545:C:O2'	1:CA:546:A:H5'	2.08	0.52
4:CE:65:LYS:NZ	4:CE:65:LYS:HB3	2.24	0.52
5:CF:64:VAL:HG12	5:CF:65:GLU:N	2.23	0.52
6:CG:134:VAL:O	6:CG:138:GLU:HG3	2.09	0.52
8:CI:78:ILE:O	8:CI:82:ILE:HG13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:37:ARG:H	9:CJ:76:ILE:HG12	1.74	0.52
11:CL:34:THR:OG1	11:CL:53:ARG:HB3	2.10	0.52
12:CM:102:LYS:HB2	12:CM:102:LYS:NZ	2.23	0.52
13:CN:5:MET:HG2	13:CN:8:ARG:HD2	1.92	0.52
19:CT:79:THR:O	19:CT:82:ILE:HG12	2.09	0.52
20:CB:23:ASN:HD22	20:CB:24:PRO:HD2	1.74	0.52
21:CU:3:ILE:CG1	21:CU:19:LYS:HB3	2.36	0.52
22:DA:13:G:H2'	22:DA:14:U:H5''	1.92	0.52
22:DA:43:C:H4'	28:DF:62:GLN:HE21	1.75	0.52
23:DB:90:U:H2'	23:DB:91:A:C2	2.44	0.52
23:DB:299:A:H2'	23:DB:300:A:C8	2.44	0.52
23:DB:363:G:H2'	23:DB:364:C:C6	2.45	0.52
23:DB:851:C:H2'	23:DB:852:U:H6	1.75	0.52
23:DB:860:U:O2'	23:DB:2267:A:H4'	2.09	0.52
23:DB:877:A:N6	23:DB:898:C:H2'	2.24	0.52
23:DB:1000:A:H2'	23:DB:1001:A:C8	2.45	0.52
23:DB:1292:G:H2'	23:DB:1293:C:C6	2.44	0.52
23:DB:2032:G:H21	26:DD:150:GLN:HB3	1.74	0.52
23:DB:2086:U:H2'	23:DB:2087:G:C8	2.44	0.52
23:DB:2471:A:O2'	23:DB:2472:G:O5'	2.28	0.52
23:DB:2794:C:H2'	23:DB:2795:C:C6	2.44	0.52
25:DC:94:LEU:HD12	25:DC:95:TYR:N	2.24	0.52
25:DC:201:LEU:O	25:DC:201:LEU:HD23	2.10	0.52
27:DE:21:ARG:HB3	27:DE:21:ARG:HH11	1.74	0.52
27:DE:164:LEU:HD13	27:DE:164:LEU:C	2.30	0.52
28:DF:39:VAL:HG13	28:DF:84:ILE:HG12	1.91	0.52
28:DF:59:ILE:HD13	28:DF:59:ILE:O	2.10	0.52
29:DG:67:ALA:O	29:DG:71:LEU:HG	2.09	0.52
30:DH:82:SER:C	30:DH:83:LYS:HD2	2.30	0.52
31:DJ:41:LYS:HG2	38:DQ:63:ARG:CZ	2.39	0.52
32:DK:98:ARG:HB3	32:DK:98:ARG:NH1	2.23	0.52
33:DL:90:VAL:CG1	33:DL:122:VAL:HG11	2.39	0.52
33:DL:107:PHE:CE2	33:DL:126:ARG:HB2	2.44	0.52
37:DP:6:GLN:OE1	37:DP:6:GLN:N	2.35	0.52
42:DU:41:VAL:HG23	42:DU:57:ILE:HG23	1.91	0.52
42:DU:57:ILE:HD13	42:DU:58:VAL:N	2.24	0.52
43:DW:38:ARG:HE	43:DW:40:ARG:CA	2.22	0.52
46:DZ:47:LYS:HB2	46:DZ:51:VAL:HG11	1.90	0.52
47:D0:36:LYS:CB	47:D0:41:HIS:HA	2.40	0.52
48:D1:47:ILE:O	48:D1:48:TYR:HB2	2.10	0.52
51:D4:34:LYS:HE3	51:D4:36:ARG:HH12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:36:C:H2'	1:AA:37:U:O4'	2.09	0.52
1:AA:997:U:O2'	1:AA:998:C:H5'	2.09	0.52
1:AA:1289:A:H2'	1:AA:1290:G:H5'	1.91	0.52
3:AD:122:ILE:O	3:AD:128:VAL:HG23	2.10	0.52
6:AG:110:ARG:HH22	6:AG:121:ASN:CB	2.23	0.52
10:AK:109:ILE:H	21:AU:5:VAL:HB	1.75	0.52
11:AL:35:ARG:CZ	11:AL:75:GLU:HB3	2.39	0.52
16:AQ:4:ILE:HD12	16:AQ:4:ILE:H	1.74	0.52
20:AB:95:TRP:CZ3	20:AB:171:ALA:HA	2.44	0.52
23:BB:125:A:H3'	23:BB:126:A:H5''	1.88	0.52
23:BB:142:A:H8	23:BB:142:A:OP2	1.93	0.52
23:BB:203:A:H2'	23:BB:204:A:C8	2.44	0.52
23:BB:587:C:H4'	23:BB:588:U:C6	2.44	0.52
23:BB:747:U:H4'	40:BS:89:ALA:HB2	1.91	0.52
23:BB:811:U:O2	23:BB:1250:G:H3'	2.10	0.52
23:BB:812:C:C5'	33:BL:32:GLY:HA2	2.39	0.52
23:BB:991:C:H2'	23:BB:992:C:H6	1.74	0.52
23:BB:1112:G:H5'	29:BG:2:ARG:NH2	2.22	0.52
23:BB:1573:G:H2'	23:BB:1574:C:H5'	1.91	0.52
23:BB:1681:G:N3	23:BB:1762:A:H2'	2.25	0.52
23:BB:1817:G:OP1	25:BC:62:ARG:NH2	2.43	0.52
23:BB:1945:G:H2'	23:BB:1946:U:C6	2.43	0.52
23:BB:2820:A:O5'	35:BN:4:ARG:HA	2.08	0.52
23:BB:2848:G:O2'	37:BP:96:LEU:HD22	2.10	0.52
25:BC:68:ARG:HD3	25:BC:103:ILE:HD12	1.91	0.52
27:BE:142:ALA:C	27:BE:143:LEU:HD12	2.29	0.52
27:BE:149:ILE:CG1	27:BE:186:VAL:HG13	2.39	0.52
30:BH:21:VAL:HG22	30:BH:22:LYS:N	2.21	0.52
43:BW:36:ILE:HG21	43:BW:68:PHE:HD2	1.75	0.52
48:B1:33:LEU:O	48:B1:34:GLU:HG2	2.10	0.52
50:B3:12:ARG:HB2	50:B3:12:ARG:CZ	2.38	0.52
1:CA:841:C:H3'	1:CA:843:U:OP2	2.10	0.52
3:CD:202:LEU:C	3:CD:204:SER:H	2.13	0.52
7:CH:10:LEU:HD11	7:CH:126:CYS:SG	2.48	0.52
8:CI:8:THR:OG1	8:CI:84:ARG:HG3	2.10	0.52
10:CK:30:ILE:HG22	10:CK:45:THR:HB	1.91	0.52
20:CB:187:ASP:HB3	20:CB:201:GLY:O	2.09	0.52
21:CU:8:ASN:HB2	21:CU:9:GLU:OE1	2.09	0.52
23:DB:26:G:OP2	40:DS:80:PRO:HG3	2.10	0.52
23:DB:721:A:H2'	23:DB:722:A:C8	2.45	0.52
23:DB:1264:A:H5'	47:D0:7:PRO:HG3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1374:G:H2'	23:DB:1375:U:C6	2.45	0.52
23:DB:1474:U:H2'	23:DB:1475:G:H5'	1.91	0.52
23:DB:1487:U:H2'	23:DB:1488:C:H6	1.75	0.52
23:DB:1517:G:O2'	23:DB:1518:C:H5'	2.08	0.52
23:DB:1854:A:N6	23:DB:1888:G:H1'	2.25	0.52
23:DB:2331:G:H2'	23:DB:2332:C:C6	2.45	0.52
23:DB:2471:A:O2'	23:DB:2472:G:C8	2.55	0.52
23:DB:2645:G:H4'	23:DB:2732:G:H2'	1.92	0.52
23:DB:2860:A:H8	23:DB:2860:A:O5'	1.92	0.52
24:DV:9:ARG:NE	24:DV:20:LEU:HD11	2.25	0.52
24:DV:43:ASP:O	24:DV:47:VAL:HG23	2.10	0.52
26:DD:6:GLY:HA2	26:DD:199:SER:O	2.09	0.52
26:DD:79:LEU:CG	26:DD:80:TRP:H	2.23	0.52
27:DE:141:MET:HG3	27:DE:185:LYS:HE3	1.90	0.52
28:DF:37:MET:HB2	28:DF:86:CYS:SG	2.49	0.52
28:DF:133:GLU:HG2	28:DF:149:ARG:O	2.08	0.52
28:DF:172:PHE:CD1	28:DF:172:PHE:N	2.75	0.52
29:DG:145:ALA:HA	29:DG:148:ARG:HG2	1.92	0.52
36:DO:104:GLN:O	36:DO:107:ALA:HB3	2.09	0.52
43:DW:54:ARG:HD2	43:DW:54:ARG:N	2.24	0.52
43:DW:55:ASP:CG	43:DW:56:HIS:H	2.13	0.52
1:AA:626:G:H2'	1:AA:627:G:H8	1.74	0.52
1:AA:712:A:O2'	1:AA:713:G:H5'	2.10	0.52
1:AA:1309:G:N7	12:AM:97:ARG:NH2	2.57	0.52
3:AD:183:ARG:HH22	3:AD:186:GLU:H	1.58	0.52
10:AK:111:ASP:HB3	21:AU:3:ILE:HD13	1.92	0.52
11:AL:56:LEU:HB3	11:AL:58:ASN:ND2	2.24	0.52
18:AS:62:THR:HB	18:AS:64:GLU:OE1	2.10	0.52
20:AB:53:LEU:HA	20:AB:56:LEU:HD23	1.92	0.52
20:AB:55:GLU:HG3	20:AB:197:PHE:CZ	2.45	0.52
20:AB:76:SER:OG	20:AB:92:ASN:HB2	2.10	0.52
20:AB:163:ILE:CD1	20:AB:209:VAL:HG12	2.38	0.52
21:AU:3:ILE:HA	21:AU:19:LYS:CG	2.37	0.52
22:BA:91:C:O2'	22:BA:92:C:H5'	2.09	0.52
23:BB:43:G:H2'	23:BB:44:A:O4'	2.10	0.52
23:BB:160:A:H2'	23:BB:161:A:C8	2.45	0.52
23:BB:355:U:H2'	23:BB:356:G:C8	2.44	0.52
23:BB:1055:G:HO2'	23:BB:1085:A:H2	1.55	0.52
23:BB:1083:U:C2	23:BB:1086:A:N1	2.78	0.52
23:BB:1220:G:H2'	23:BB:1221:C:C6	2.45	0.52
23:BB:1444:G:H2'	23:BB:1445:G:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1843:C:H5''	25:BC:252:LYS:HZ3	1.75	0.52
23:BB:2222:C:O2'	23:BB:2223:G:H5'	2.09	0.52
23:BB:2285:C:H41	48:B1:24:LYS:HZ2	1.58	0.52
25:BC:141:HIS:CG	25:BC:190:THR:HB	2.44	0.52
26:BD:154:LYS:NZ	26:BD:157:LYS:N	2.57	0.52
27:BE:43:THR:O	27:BE:43:THR:HG22	2.08	0.52
27:BE:132:LYS:HB2	27:BE:132:LYS:NZ	2.23	0.52
33:BL:80:SER:O	33:BL:116:VAL:HA	2.10	0.52
39:BR:64:VAL:HB	39:BR:98:ILE:HD12	1.90	0.52
40:BS:28:LYS:HB3	40:BS:71:VAL:HB	1.91	0.52
45:BY:37:ARG:HH11	45:BY:37:ARG:HG3	1.75	0.52
52:BI:79:LEU:HD11	52:BI:131:THR:OG1	2.08	0.52
1:CA:65:A:H2	1:CA:381:C:H2'	1.73	0.52
2:CC:86:LEU:O	2:CC:89:VAL:HG22	2.10	0.52
2:CC:121:SER:O	2:CC:125:ARG:HG3	2.09	0.52
2:CC:180:ASP:OD1	2:CC:203:LYS:HB2	2.09	0.52
4:CE:114:LEU:HD13	4:CE:122:VAL:HG21	1.91	0.52
8:CI:79:ARG:O	8:CI:79:ARG:HD2	2.10	0.52
11:CL:88:ASP:C	11:CL:89:LEU:HD22	2.29	0.52
14:CO:81:ILE:O	14:CO:85:GLY:N	2.41	0.52
22:DA:7:G:H4'	36:DO:29:HIS:NE2	2.25	0.52
23:DB:250:G:H4'	33:DL:60:ARG:HE	1.74	0.52
23:DB:1657:U:OP2	26:DD:141:ARG:HG3	2.09	0.52
23:DB:1821:A:H5'	25:DC:155:ARG:HH21	1.72	0.52
23:DB:2751:G:H5'	29:DG:3:VAL:CG2	2.38	0.52
23:DB:2849:U:H4'	23:DB:2850:A:C5'	2.39	0.52
27:DE:138:LEU:HD22	27:DE:187:VAL:HG11	1.92	0.52
28:DF:147:ARG:O	28:DF:147:ARG:HD2	2.09	0.52
31:DJ:19:ASP:CB	31:DJ:21:THR:HG23	2.39	0.52
31:DJ:58:ASN:C	31:DJ:60:ASP:H	2.13	0.52
42:DU:49:PRO:HG2	42:DU:50:ALA:H	1.75	0.52
47:D0:41:HIS:HB3	47:D0:46:GLY:HA3	1.90	0.52
48:D1:27:ARG:H	48:D1:27:ARG:HE	1.56	0.52
1:AA:16:A:O2'	4:AE:20:VAL:HG13	2.10	0.52
1:AA:120:A:H2'	1:AA:121:U:H5''	1.90	0.52
1:AA:177:G:P	19:AT:59:ARG:HE	2.33	0.52
1:AA:476:U:H2'	1:AA:477:C:H6	1.73	0.52
1:AA:936:C:H1'	1:AA:1382:C:H42	1.74	0.52
1:AA:1005:A:H3'	1:AA:1006:G:H8	1.74	0.52
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.75	0.52
6:AG:3:ARG:HB3	6:AG:3:ARG:CZ	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:93:LEU:HD13	8:AI:97:LEU:HD23	1.92	0.52
16:AQ:35:LYS:O	16:AQ:37:ILE:HG13	2.10	0.52
16:AQ:56:ASP:HB3	16:AQ:79:GLU:O	2.09	0.52
18:AS:49:ALA:HB1	18:AS:56:HIS:CB	2.30	0.52
20:AB:49:PHE:O	20:AB:53:LEU:HD23	2.10	0.52
23:BB:139:U:H5''	23:BB:140:C:C5	2.45	0.52
23:BB:173:A:H2'	23:BB:174:U:H6	1.75	0.52
23:BB:1113:U:H5''	29:BG:1:SER:CA	2.39	0.52
23:BB:1259:G:H2'	23:BB:1260:A:C8	2.45	0.52
23:BB:1374:G:H2'	23:BB:1375:U:C6	2.45	0.52
23:BB:2834:G:H1'	23:BB:2883:A:H61	1.74	0.52
25:BC:44:ASN:HA	25:BC:49:THR:O	2.09	0.52
26:BD:62:LYS:N	26:BD:63:PRO:HD2	2.25	0.52
26:BD:175:LEU:HD13	26:BD:189:VAL:HG11	1.92	0.52
27:BE:88:ARG:NH1	27:BE:88:ARG:HB2	2.24	0.52
27:BE:149:ILE:HG12	27:BE:186:VAL:HG22	1.90	0.52
28:BF:78:ILE:HG23	28:BF:82:TYR:HD1	1.74	0.52
30:BH:100:ALA:O	30:BH:103:VAL:HG22	2.10	0.52
33:BL:82:LEU:HD21	33:BL:92:LEU:CD1	2.38	0.52
34:BM:8:LYS:O	34:BM:9:PHE:C	2.47	0.52
36:BO:64:TYR:CD1	36:BO:74:VAL:HG21	2.45	0.52
37:BP:59:THR:O	37:BP:59:THR:HG22	2.10	0.52
37:BP:69:VAL:HG12	37:BP:70:GLU:N	2.24	0.52
40:BS:86:MET:HB2	40:BS:96:ILE:HD11	1.92	0.52
46:BZ:59:ARG:HG3	46:BZ:62:LYS:HB2	1.91	0.52
1:CA:900:A:O2'	1:CA:901:A:H5'	2.10	0.52
1:CA:1177:G:H3'	1:CA:1178:G:H8	1.75	0.52
1:CA:1363:A:H2'	1:CA:1363:A:N3	2.24	0.52
2:CC:174:LEU:HD21	2:CC:200:TRP:CD1	2.45	0.52
3:CD:57:LYS:HB2	3:CD:199:ILE:HB	1.92	0.52
17:CR:33:THR:HG22	17:CR:37:LYS:HG2	1.92	0.52
17:CR:61:ALA:HB3	17:CR:67:LEU:HD12	1.91	0.52
23:DB:64:A:H4'	41:DT:76:ARG:HD2	1.92	0.52
23:DB:64:A:H5''	41:DT:76:ARG:HG3	1.92	0.52
23:DB:197:A:H4'	23:DB:2069:G:OP2	2.10	0.52
23:DB:230:G:H2'	23:DB:231:A:C8	2.45	0.52
23:DB:1082:U:C2	23:DB:1086:A:C6	2.97	0.52
23:DB:1633:G:O2'	23:DB:1634:A:H5''	2.09	0.52
23:DB:1816:C:C5	25:DC:62:ARG:HD2	2.45	0.52
23:DB:2641:G:OP1	31:DJ:78:THR:HG22	2.10	0.52
23:DB:2729:G:H2'	23:DB:2730:C:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:112:LEU:O	27:DE:114:ARG:N	2.42	0.52
29:DG:17:LYS:O	29:DG:23:ILE:HA	2.09	0.52
31:DJ:21:THR:HG22	31:DJ:58:ASN:OD1	2.10	0.52
33:DL:35:HIS:CE1	39:DR:84:ARG:HB3	2.45	0.52
34:DM:81:ARG:HG3	34:DM:82:MET:HG2	1.92	0.52
40:DS:76:VAL:HG12	40:DS:103:ILE:HA	1.91	0.52
1:AA:71:A:N6	1:AA:99:C:H1'	2.24	0.52
1:AA:131:A:H2'	1:AA:132:C:H6	1.75	0.52
1:AA:195:A:H1'	1:AA:222:C:O2'	2.09	0.52
1:AA:279:A:H4'	1:AA:280:C:OP2	2.10	0.52
1:AA:474:G:H2'	1:AA:475:C:C6	2.45	0.52
1:AA:958:A:N1	18:AS:53:GLY:HA3	2.25	0.52
1:AA:1390:U:H2'	1:AA:1391:U:C6	2.45	0.52
5:AF:43:GLY:O	5:AF:58:HIS:HA	2.09	0.52
6:AG:19:SER:OG	6:AG:21:LEU:HG	2.10	0.52
8:AI:38:PHE:O	8:AI:41:GLU:HB2	2.09	0.52
15:AP:51:ARG:HB3	15:AP:51:ARG:HH11	1.71	0.52
18:AS:50:VAL:H	18:AS:57:VAL:H	1.57	0.52
23:BB:433:C:H2'	23:BB:434:U:C6	2.45	0.52
23:BB:582:A:H2'	23:BB:583:G:H8	1.75	0.52
23:BB:852:U:H2'	23:BB:853:C:C6	2.45	0.52
23:BB:1051:G:H2'	23:BB:1052:C:C6	2.45	0.52
23:BB:1739:A:H2'	23:BB:1740:G:C8	2.44	0.52
23:BB:2149:U:O2'	23:BB:2150:C:H5'	2.10	0.52
23:BB:2181:U:H2'	23:BB:2182:U:O4'	2.10	0.52
23:BB:2785:C:H2'	23:BB:2786:U:H6	1.73	0.52
25:BC:164:VAL:HB	25:BC:167:ASP:CG	2.29	0.52
26:BD:2:ILE:HG13	26:BD:3:GLY:N	2.23	0.52
31:BJ:36:LEU:HD11	31:BJ:122:LEU:HD23	1.92	0.52
31:BJ:57:LEU:HD12	31:BJ:128:ASN:C	2.30	0.52
35:BN:115:LEU:O	35:BN:115:LEU:HG	2.10	0.52
36:BO:58:ILE:HG13	36:BO:59:ALA:H	1.74	0.52
37:BP:90:ALA:HB3	37:BP:112:ARG:HA	1.92	0.52
38:BQ:69:ARG:HG3	38:BQ:70:GLN:N	2.23	0.52
38:BQ:111:LYS:O	38:BQ:115:ALA:HB2	2.10	0.52
39:BR:53:PHE:CB	39:BR:55:ASP:HB2	2.39	0.52
41:BT:31:VAL:O	41:BT:83:ALA:O	2.28	0.52
42:BU:59:GLU:O	42:BU:60:LYS:HB2	2.08	0.52
42:BU:94:PHE:CD2	42:BU:95:PHE:N	2.78	0.52
43:BW:23:LYS:HG3	43:BW:24:ARG:N	2.23	0.52
52:BI:116:MET:CE	52:BI:127:SER:HB2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:56:U:H2'	1:CA:57:G:C8	2.45	0.52
1:CA:337:G:H2'	1:CA:338:A:C8	2.45	0.52
1:CA:947:G:H2'	1:CA:948:C:H6	1.71	0.52
3:CD:71:PHE:HA	3:CD:74:TYR:HD2	1.74	0.52
3:CD:118:SER:HA	3:CD:130:ASN:HB2	1.91	0.52
6:CG:8:GLN:NE2	6:CG:9:ARG:H	2.07	0.52
8:CI:20:ILE:HD12	8:CI:85:ALA:HB3	1.92	0.52
12:CM:33:LEU:HD22	12:CM:38:ILE:HG21	1.92	0.52
13:CN:30:ILE:O	13:CN:44:VAL:HB	2.10	0.52
23:DB:27:G:H1'	23:DB:513:A:N6	2.25	0.52
23:DB:1819:A:OP1	25:DC:155:ARG:HB3	2.10	0.52
23:DB:2440:C:H5'	54:DB:3426:HOH:O	2.10	0.52
25:DC:29:PHE:CE1	25:DC:81:GLU:HG3	2.45	0.52
25:DC:32:LEU:HD13	25:DC:36:ASN:HD21	1.75	0.52
25:DC:51:ARG:HD3	25:DC:51:ARG:O	2.10	0.52
25:DC:163:ILE:HG22	25:DC:164:VAL:N	2.25	0.52
30:DH:3:VAL:HB	30:DH:37:VAL:HG21	1.90	0.52
30:DH:3:VAL:CB	30:DH:37:VAL:HG11	2.38	0.52
31:DJ:44:TYR:OH	31:DJ:49:ASP:O	2.28	0.52
31:DJ:69:ARG:HA	31:DJ:90:GLU:OE1	2.10	0.52
36:DO:72:ALA:HA	36:DO:109:ALA:HB2	1.91	0.52
37:DP:52:ARG:N	37:DP:60:VAL:HG11	2.25	0.52
39:DR:64:VAL:CG2	39:DR:100:GLY:HA2	2.40	0.52
41:DT:34:VAL:HG21	41:DT:43:ILE:CD1	2.35	0.52
44:DX:18:LEU:HA	44:DX:22:LEU:HD12	1.92	0.52
1:AA:275:G:H5'	16:AQ:15:LYS:HG2	1.92	0.52
1:AA:857:C:H2'	1:AA:858:G:O4'	2.10	0.52
2:AC:155:ARG:N	2:AC:162:ALA:HA	2.21	0.52
3:AD:96:ARG:O	3:AD:100:VAL:HG23	2.09	0.52
4:AE:74:ALA:HB1	4:AE:148:SER:HB3	1.91	0.52
6:AG:11:ILE:H	6:AG:11:ILE:HD12	1.75	0.52
7:AH:104:SER:O	7:AH:122:GLY:HA3	2.10	0.52
8:AI:11:ARG:HA	8:AI:105:ARG:HE	1.75	0.52
8:AI:24:ASN:O	8:AI:61:ASP:HA	2.09	0.52
8:AI:56:MET:SD	8:AI:57:VAL:N	2.82	0.52
10:AK:63:GLN:HB3	10:AK:94:SER:OG	2.10	0.52
11:AL:30:ARG:HH11	11:AL:30:ARG:HB3	1.75	0.52
23:BB:176:A:O2'	23:BB:177:G:H5'	2.10	0.52
23:BB:254:G:O6	50:B3:3:ILE:HG22	2.09	0.52
23:BB:328:U:H4'	42:BU:65:GLN:HG3	1.92	0.52
23:BB:877:A:H2	23:BB:900:A:N7	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1923:U:H2'	23:BB:1924:C:C6	2.45	0.52
23:BB:2014:A:P	40:BS:95:ARG:HH21	2.33	0.52
24:BV:6:ALA:HB1	24:BV:41:GLU:O	2.10	0.52
27:BE:88:ARG:HB2	27:BE:88:ARG:HH11	1.75	0.52
28:BF:59:ILE:HD11	28:BF:137:PHE:CG	2.45	0.52
28:BF:65:LEU:C	28:BF:67:THR:H	2.12	0.52
31:BJ:13:ARG:HH11	31:BJ:13:ARG:HG3	1.73	0.52
36:BO:68:LYS:H	36:BO:68:LYS:CD	2.19	0.52
40:BS:6:LYS:HA	40:BS:104:THR:HA	1.91	0.52
41:BT:66:LYS:N	41:BT:77:ARG:HA	2.24	0.52
43:BW:57:THR:O	43:BW:58:LEU:HB3	2.09	0.52
52:BI:85:ILE:HD12	52:BI:87:SER:O	2.10	0.52
1:CA:93:U:C2'	1:CA:94:G:H5'	2.40	0.52
1:CA:1461:G:H2'	1:CA:1462:C:C6	2.44	0.52
6:CG:135:LYS:HD3	6:CG:136:LYS:HE3	1.91	0.52
8:CI:32:ARG:HD3	8:CI:37:TYR:HD1	1.75	0.52
11:CL:82:ARG:HB2	11:CL:97:VAL:HG13	1.90	0.52
20:CB:216:VAL:C	20:CB:218:ALA:H	2.13	0.52
22:DA:14:U:H4'	22:DA:70:C:O2	2.09	0.52
23:DB:41:C:O2'	23:DB:42:A:H5'	2.10	0.52
23:DB:55:G:H2'	23:DB:56:A:H8	1.74	0.52
23:DB:458:G:H22	23:DB:469:G:H2'	1.72	0.52
23:DB:1082:U:H2'	23:DB:1083:U:O4'	2.10	0.52
23:DB:1821:A:H2'	23:DB:1822:C:C6	2.45	0.52
23:DB:2377:A:C2	36:DO:92:PHE:HE1	2.28	0.52
23:DB:2626:C:O2'	23:DB:2627:G:H5'	2.10	0.52
27:DE:47:LYS:HD2	27:DE:52:VAL:CG2	2.39	0.52
29:DG:148:ARG:HH21	29:DG:153:PRO:HD2	1.74	0.52
30:DH:99:ILE:HG13	30:DH:100:ALA:N	2.24	0.52
32:DK:34:GLY:O	32:DK:37:ASP:HB2	2.10	0.52
32:DK:80:ASP:OD1	37:DP:70:GLU:HB3	2.10	0.52
33:DL:44:GLY:HA2	33:DL:47:ARG:HH21	1.75	0.52
33:DL:123:ARG:HB2	33:DL:142:ILE:HA	1.92	0.52
34:DM:18:ARG:HD3	34:DM:18:ARG:H	1.75	0.52
34:DM:37:GLY:H	34:DM:97:GLN:HG3	1.74	0.52
36:DO:13:ARG:O	36:DO:17:LYS:HB2	2.10	0.52
40:DS:20:VAL:HB	40:DS:43:ALA:HB1	1.90	0.52
46:DZ:48:GLN:NE2	46:DZ:49:ARG:HB3	2.24	0.52
47:D0:41:HIS:CD2	47:D0:42:ILE:HG22	2.44	0.52
49:D2:3:ARG:HE	49:D2:4:THR:H	1.56	0.52
1:AA:56:U:H2'	1:AA:57:G:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:128:G:H2'	1:AA:129:A:C8	2.44	0.52
1:AA:545:C:O2'	1:AA:546:A:H5'	2.10	0.52
1:AA:1098:C:C2'	1:AA:1099:G:H5'	2.40	0.52
1:AA:1521:C:O2'	1:AA:1522:U:H5'	2.10	0.52
3:AD:107:GLY:HA2	3:AD:112:GLU:OE1	2.10	0.52
3:AD:186:GLU:O	3:AD:190:LEU:HD13	2.09	0.52
4:AE:81:GLN:HG2	4:AE:148:SER:HA	1.92	0.52
4:AE:109:ALA:CB	4:AE:135:VAL:HG23	2.39	0.52
10:AK:80:ASN:HD21	10:AK:107:THR:CG2	2.23	0.52
13:AN:27:LYS:HD2	13:AN:27:LYS:C	2.30	0.52
21:AU:14:ALA:H	21:AU:16:ARG:NH2	2.07	0.52
23:BB:6:A:HO2'	31:BJ:135:GLN:HB2	1.75	0.52
23:BB:136:G:H2'	23:BB:137:U:C6	2.44	0.52
23:BB:156:A:H2'	23:BB:157:C:C6	2.45	0.52
23:BB:337:C:H2'	23:BB:338:G:O4'	2.10	0.52
23:BB:660:C:H2'	23:BB:661:A:H8	1.74	0.52
23:BB:1444:G:H2'	23:BB:1445:G:C8	2.44	0.52
23:BB:1682:G:H2'	23:BB:1683:U:C6	2.45	0.52
23:BB:2333:A:O2'	36:BO:7:ARG:HD3	2.09	0.52
23:BB:2365:G:H4'	43:BW:65:LYS:HD3	1.91	0.52
23:BB:2491:U:H5''	23:BB:2570:G:C5'	2.40	0.52
23:BB:2669:G:H2'	23:BB:2670:A:C8	2.43	0.52
25:BC:208:GLY:C	25:BC:210:ALA:H	2.12	0.52
26:BD:128:ARG:C	26:BD:128:ARG:HE	2.13	0.52
27:BE:104:ALA:O	27:BE:105:LEU:HD23	2.09	0.52
27:BE:143:LEU:HD23	27:BE:185:LYS:HB2	1.92	0.52
29:BG:104:LEU:HB3	29:BG:106:LEU:HD13	1.92	0.52
30:BH:73:ASN:N	30:BH:73:ASN:ND2	2.52	0.52
35:BN:75:ILE:HD13	35:BN:75:ILE:O	2.10	0.52
36:BO:54:VAL:HG21	36:BO:78:VAL:HG11	1.91	0.52
37:BP:32:VAL:HB	37:BP:80:VAL:HG22	1.91	0.52
38:BQ:27:ARG:O	38:BQ:33:VAL:HG21	2.10	0.52
47:B0:16:ARG:HA	47:B0:19:ASP:OD2	2.09	0.52
1:CA:8:A:C6	3:CD:205:LYS:HA	2.45	0.52
1:CA:663:A:O2'	1:CA:664:G:H5'	2.10	0.52
1:CA:1513:A:H2'	1:CA:1514:G:C8	2.45	0.52
7:CH:100:ILE:HG13	7:CH:128:VAL:CG2	2.39	0.52
11:CL:85:ARG:NH1	11:CL:93:ARG:HB3	2.24	0.52
12:CM:106:ARG:HH11	12:CM:106:ARG:N	2.08	0.52
13:CN:30:ILE:HB	13:CN:44:VAL:HB	1.91	0.52
22:DA:115:A:H2'	22:DA:116:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:968:C:O2'	23:DB:969:G:H5'	2.10	0.52
23:DB:1139:G:O2'	23:DB:1140:C:H5'	2.10	0.52
23:DB:1175:A:C2'	23:DB:1176:U:H5'	2.39	0.52
23:DB:1412:U:H2'	23:DB:1413:A:H8	1.73	0.52
23:DB:1724:G:H2'	23:DB:1725:U:H6	1.75	0.52
23:DB:1904:G:H1'	23:DB:1927:A:N1	2.25	0.52
23:DB:2360:G:O2'	33:DL:61:LEU:HD11	2.10	0.52
23:DB:2678:C:H2'	23:DB:2679:A:H8	1.75	0.52
23:DB:2740:A:H2'	23:DB:2741:A:C8	2.45	0.52
25:DC:87:SER:O	25:DC:157:ALA:HB2	2.10	0.52
25:DC:140:VAL:HG11	25:DC:163:ILE:CD1	2.39	0.52
25:DC:208:GLY:HA2	25:DC:212:TRP:HB2	1.91	0.52
26:DD:56:LYS:HD3	26:DD:59:ARG:HD3	1.92	0.52
30:DH:75:LEU:HD23	30:DH:75:LEU:N	2.25	0.52
37:DP:7:LEU:HA	37:DP:10:GLU:CG	2.40	0.52
1:AA:272:C:H2'	1:AA:273:U:C6	2.45	0.51
1:AA:520:A:OP2	11:AL:47:ALA:HB1	2.09	0.51
1:AA:600:A:H2'	1:AA:601:G:H8	1.74	0.51
1:AA:644:U:H4'	7:AH:83:ARG:HH22	1.75	0.51
1:AA:922:G:H2'	1:AA:923:A:H8	1.75	0.51
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.45	0.51
6:AG:85:GLN:O	6:AG:86:VAL:C	2.49	0.51
10:AK:56:LYS:HD3	10:AK:56:LYS:H	1.75	0.51
10:AK:81:LEU:HD22	10:AK:104:PHE:HB3	1.92	0.51
16:AQ:24:ILE:HB	16:AQ:41:THR:HB	1.92	0.51
17:AR:60:ARG:HG3	17:AR:61:ALA:N	2.25	0.51
23:BB:26:G:H1'	23:BB:515:A:H61	1.74	0.51
23:BB:100:U:H2'	23:BB:100:U:OP1	2.10	0.51
23:BB:458:G:H5'	49:B2:39:ARG:O	2.10	0.51
23:BB:460:A:H2'	23:BB:461:C:O4'	2.10	0.51
23:BB:494:G:O2'	23:BB:495:G:H5'	2.09	0.51
23:BB:575:A:O2'	23:BB:576:U:H5'	2.10	0.51
23:BB:667:U:H2'	23:BB:668:A:O4'	2.10	0.51
23:BB:975:A:H1'	23:BB:990:A:C2	2.45	0.51
23:BB:1274:A:N3	23:BB:1297:C:H1'	2.25	0.51
23:BB:1405:U:H2'	23:BB:1406:U:H6	1.74	0.51
23:BB:1549:A:H2'	23:BB:1550:C:C6	2.45	0.51
23:BB:1722:A:H61	23:BB:1738:G:H1'	1.75	0.51
25:BC:63:ILE:HG21	25:BC:90:ILE:HD13	1.92	0.51
25:BC:119:VAL:HG22	25:BC:130:PRO:HG2	1.92	0.51
26:BD:5:VAL:HG21	26:BD:28:GLU:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:7:LYS:HA	26:BD:26:VAL:HG12	1.92	0.51
27:BE:130:LYS:HE2	27:BE:130:LYS:HA	1.91	0.51
31:BJ:18:VAL:O	31:BJ:57:LEU:HD23	2.09	0.51
36:BO:76:LYS:HE3	36:BO:80:GLU:HB2	1.91	0.51
37:BP:26:GLU:CB	37:BP:46:VAL:HG22	2.32	0.51
38:BQ:91:ARG:HG2	39:BR:10:LYS:CE	2.40	0.51
41:BT:12:ARG:NH2	44:BX:29:ARG:HH12	1.88	0.51
46:BZ:3:LYS:O	46:BZ:3:LYS:HG3	2.09	0.51
48:B1:9:LYS:HG2	50:B3:34:LYS:HZ3	1.73	0.51
50:B3:4:LYS:NZ	50:B3:59:ALA:H	2.07	0.51
50:B3:23:HIS:CD2	50:B3:23:HIS:H	2.27	0.51
1:CA:33:A:H2'	1:CA:34:C:H6	1.75	0.51
1:CA:110:C:H2'	1:CA:111:G:O4'	2.11	0.51
1:CA:157:U:O2'	1:CA:158:G:H5'	2.10	0.51
1:CA:214:C:H2'	1:CA:215:C:C6	2.44	0.51
1:CA:692:U:H2'	1:CA:694:A:OP2	2.10	0.51
1:CA:926:G:H5'	1:CA:927:G:C5'	2.39	0.51
1:CA:939:G:H5''	6:CG:101:ARG:HH22	1.75	0.51
1:CA:1026:G:H2'	1:CA:1027:C:O4'	2.10	0.51
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.74	0.51
1:CA:1252:A:H2'	1:CA:1253:G:O4'	2.11	0.51
2:CC:140:ALA:HB2	2:CC:148:ILE:HD12	1.91	0.51
8:CI:117:LEU:HD21	8:CI:123:ARG:HE	1.75	0.51
9:CJ:48:ARG:HB3	9:CJ:66:GLU:HG3	1.92	0.51
15:CP:54:LEU:HD13	15:CP:80:LYS:NZ	2.25	0.51
15:CP:75:ILE:HG23	15:CP:80:LYS:HD2	1.92	0.51
20:CB:40:ILE:HG21	20:CB:200:PRO:O	2.11	0.51
23:DB:16:C:O3'	47:D0:10:SER:HA	2.09	0.51
23:DB:455:C:C4	23:DB:472:A:H2'	2.45	0.51
23:DB:1571:A:H2'	23:DB:1572:A:C8	2.45	0.51
23:DB:1591:A:H2'	23:DB:1592:C:C6	2.45	0.51
23:DB:1657:U:OP1	26:DD:141:ARG:HB2	2.09	0.51
23:DB:1751:U:H2'	23:DB:1752:C:C6	2.46	0.51
23:DB:1791:A:H5'	25:DC:207:ALA:HA	1.91	0.51
23:DB:1844:C:H5'	25:DC:251:THR:HB	1.92	0.51
23:DB:1948:G:O2'	23:DB:1949:G:H5'	2.10	0.51
25:DC:27:LYS:HB3	25:DC:81:GLU:HA	1.92	0.51
28:DF:65:LEU:O	28:DF:66:ILE:HB	2.10	0.51
32:DK:76:VAL:HB	37:DP:74:GLN:HE21	1.75	0.51
33:DL:90:VAL:HG13	33:DL:90:VAL:O	2.10	0.51
35:DN:2:ARG:HG2	35:DN:3:HIS:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DO:7:ARG:O	36:DO:11:ALA:HB2	2.08	0.51
36:DO:26:LEU:O	36:DO:27:VAL:HG13	2.09	0.51
36:DO:38:GLN:HG3	36:DO:40:ILE:HD13	1.92	0.51
51:D4:32:LYS:O	51:D4:34:LYS:HG2	2.11	0.51
1:AA:736:C:H2'	1:AA:737:C:C6	2.45	0.51
1:AA:1122:U:H2'	1:AA:1123:U:C6	2.45	0.51
1:AA:1197:A:O2'	1:AA:1198:G:H5'	2.10	0.51
2:AC:110:LEU:O	2:AC:203:LYS:HE2	2.11	0.51
3:AD:18:LEU:HB2	3:AD:20:LEU:HD11	1.92	0.51
6:AG:14:ASP:OD2	6:AG:22:LEU:HD12	2.10	0.51
7:AH:76:ARG:HH11	7:AH:76:ARG:HG3	1.74	0.51
8:AI:99:LYS:HD3	8:AI:100:ALA:N	2.25	0.51
11:AL:95:HIS:HD1	11:AL:96:THR:N	2.09	0.51
23:BB:705:A:H61	23:BB:726:G:H1'	1.75	0.51
23:BB:1454:C:H5'	35:BN:63:ARG:NH2	2.19	0.51
23:BB:1889:A:H2'	23:BB:1890:A:C8	2.45	0.51
23:BB:2188:U:H2'	23:BB:2189:U:C6	2.44	0.51
23:BB:2305:U:H2'	23:BB:2306:C:C6	2.45	0.51
23:BB:2665:A:C2'	23:BB:2666:C:H5'	2.40	0.51
24:BV:77:VAL:CG2	24:BV:79:ARG:HE	2.23	0.51
25:BC:66:PHE:O	25:BC:68:ARG:HG2	2.10	0.51
25:BC:136:VAL:HA	25:BC:165:ALA:HA	1.92	0.51
26:BD:13:ARG:HB2	26:BD:21:SER:HG	1.75	0.51
26:BD:128:ARG:HH11	26:BD:144:GLY:HA3	1.75	0.51
28:BF:63:LYS:HE2	28:BF:64:PRO:CD	2.38	0.51
28:BF:99:PHE:C	28:BF:101:ARG:H	2.13	0.51
28:BF:126:ASN:ND2	28:BF:157:THR:H	2.09	0.51
30:BH:47:PHE:HE1	30:BH:51:ARG:NE	2.08	0.51
30:BH:83:LYS:HB2	30:BH:92:GLY:H	1.75	0.51
34:BM:53:MET:O	34:BM:54:THR:HG23	2.11	0.51
34:BM:126:ILE:HG13	34:BM:127:LYS:N	2.19	0.51
38:BQ:60:TRP:O	38:BQ:64:ILE:HG13	2.10	0.51
42:BU:5:ARG:CG	42:BU:6:ARG:H	2.24	0.51
1:CA:499:A:H4'	1:CA:500:G:OP1	2.09	0.51
1:CA:642:A:C5	7:CH:106:SER:HA	2.45	0.51
1:CA:952:U:H2'	1:CA:953:G:C8	2.43	0.51
3:CD:15:GLY:HA2	3:CD:34:GLU:HB2	1.92	0.51
3:CD:148:ALA:O	3:CD:151:GLN:HG2	2.11	0.51
6:CG:77:ARG:HD3	6:CG:79:VAL:CG2	2.39	0.51
12:CM:95:PRO:N	12:CM:108:ARG:HG2	2.25	0.51
20:CB:116:LEU:O	20:CB:119:GLN:HB2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CB:222:GLU:HG2	20:CB:222:GLU:O	2.10	0.51
23:DB:91:A:H1'	23:DB:92:U:C6	2.45	0.51
23:DB:110:G:O2'	23:DB:111:A:H5'	2.09	0.51
23:DB:222:A:N6	23:DB:232:G:H1'	2.25	0.51
23:DB:396:G:H2'	23:DB:397:U:H6	1.75	0.51
23:DB:417:C:H2'	23:DB:418:C:H6	1.74	0.51
23:DB:1400:U:H2'	23:DB:1401:G:C8	2.45	0.51
23:DB:1405:U:H2'	23:DB:1406:U:H6	1.75	0.51
23:DB:1592:C:H2'	23:DB:1593:A:H8	1.75	0.51
23:DB:1692:U:H2'	23:DB:1694:C:C5	2.45	0.51
23:DB:1754:A:OP1	37:DP:95:LYS:HB2	2.11	0.51
23:DB:1785:A:H2'	23:DB:1787:A:N7	2.26	0.51
23:DB:2025:C:H2'	23:DB:2026:U:H6	1.75	0.51
23:DB:2259:U:O2'	23:DB:2260:C:H5'	2.10	0.51
23:DB:2821:A:H2'	23:DB:2822:G:C8	2.45	0.51
26:DD:11:MET:O	26:DD:23:PRO:HD2	2.10	0.51
26:DD:14:ILE:HD12	37:DP:78:PRO:HG2	1.91	0.51
26:DD:42:ASN:O	26:DD:43:ASP:CB	2.58	0.51
26:DD:99:GLU:HA	26:DD:99:GLU:OE1	2.10	0.51
26:DD:138:LEU:CD1	26:DD:142:VAL:HB	2.40	0.51
26:DD:174:SER:HB2	26:DD:208:LYS:HD3	1.92	0.51
29:DG:36:LEU:HD21	29:DG:71:LEU:HD21	1.92	0.51
29:DG:102:ILE:O	29:DG:102:ILE:HG23	2.11	0.51
30:DH:3:VAL:O	30:DH:18:GLN:HA	2.10	0.51
31:DJ:123:LYS:N	31:DJ:123:LYS:HD2	2.25	0.51
33:DL:63:LYS:HG3	33:DL:64:PHE:N	2.25	0.51
34:DM:71:LYS:HZ1	34:DM:91:TYR:HB3	1.75	0.51
44:DX:47:ARG:HA	44:DX:50:VAL:HG23	1.91	0.51
45:DY:10:ARG:O	45:DY:11:SER:HB3	2.11	0.51
51:D4:25:VAL:O	51:D4:35:GLN:HB2	2.10	0.51
1:AA:840:C:C2'	1:AA:842:U:H5''	2.38	0.51
1:AA:1320:C:H41	18:AS:36:ARG:HE	1.57	0.51
1:AA:1477:U:H2'	1:AA:1478:U:C6	2.46	0.51
4:AE:14:LEU:HA	4:AE:36:THR:HG22	1.91	0.51
5:AF:100:SER:HA	17:AR:23:LYS:HD2	1.91	0.51
8:AI:51:LEU:HD23	8:AI:56:MET:CE	2.40	0.51
8:AI:90:ASP:O	8:AI:93:LEU:HG	2.09	0.51
10:AK:36:ARG:HG2	10:AK:37:GLN:H	1.74	0.51
12:AM:106:ARG:HD3	12:AM:110:GLY:O	2.09	0.51
15:AP:71:VAL:HA	15:AP:74:LEU:CG	2.39	0.51
23:BB:95:A:H1'	44:BX:41:HIS:ND1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:671:C:N4	33:BL:39:LYS:HE3	2.25	0.51
23:BB:948:C:H2'	23:BB:949:G:H8	1.76	0.51
23:BB:2364:C:H2'	23:BB:2365:G:O4'	2.11	0.51
23:BB:2412:A:H2'	23:BB:2413:G:O4'	2.10	0.51
23:BB:2599:G:N7	25:BC:234:GLY:HA2	2.25	0.51
24:BV:16:ALA:HA	24:BV:19:ARG:HE	1.76	0.51
24:BV:21:ARG:HE	24:BV:87:GLN:CB	2.23	0.51
26:BD:74:GLU:HA	26:BD:74:GLU:OE1	2.11	0.51
26:BD:83:ARG:HG2	26:BD:83:ARG:HH11	1.75	0.51
27:BE:6:LYS:HB2	27:BE:12:LEU:HD11	1.92	0.51
27:BE:141:MET:CG	27:BE:143:LEU:HB2	2.40	0.51
30:BH:44:ILE:O	30:BH:47:PHE:HD2	1.94	0.51
31:BJ:56:VAL:HG12	31:BJ:57:LEU:N	2.26	0.51
31:BJ:84:ILE:HG22	31:BJ:85:LYS:N	2.26	0.51
33:BL:39:LYS:HB3	33:BL:46:VAL:HG13	1.91	0.51
33:BL:92:LEU:HG	33:BL:96:LYS:HZ3	1.75	0.51
33:BL:120:VAL:O	33:BL:120:VAL:HG13	2.10	0.51
37:BP:59:THR:HG1	37:BP:76:HIS:CG	2.28	0.51
40:BS:42:LYS:O	40:BS:46:LEU:HG	2.09	0.51
43:BW:16:GLU:HA	43:BW:18:LYS:HE2	1.93	0.51
46:BZ:5:ILE:HD13	46:BZ:47:LYS:HB3	1.92	0.51
1:CA:75:G:H3'	1:CA:76:G:H8	1.75	0.51
1:CA:255:G:H2'	1:CA:256:U:C6	2.45	0.51
1:CA:513:C:H2'	1:CA:514:C:H6	1.75	0.51
1:CA:932:C:H2'	1:CA:933:G:C8	2.46	0.51
1:CA:1085:U:H3'	1:CA:1086:U:C6	2.45	0.51
3:CD:160:LEU:HD13	3:CD:160:LEU:C	2.30	0.51
4:CE:89:THR:C	4:CE:91:SER:N	2.64	0.51
14:CO:35:ILE:HD11	14:CO:58:MET:HB3	1.92	0.51
17:CR:62:ARG:HB3	17:CR:69:TYR:CE1	2.46	0.51
23:DB:441:U:H2'	23:DB:442:G:C8	2.44	0.51
23:DB:1441:G:H2'	23:DB:1442:U:H6	1.74	0.51
23:DB:1599:U:H2'	23:DB:1600:C:C6	2.45	0.51
23:DB:2665:A:C2'	23:DB:2666:C:H5'	2.40	0.51
23:DB:2683:C:H2'	23:DB:2684:U:C6	2.46	0.51
24:DV:82:TYR:HE1	24:DV:83:LYS:HE3	1.75	0.51
25:DC:155:ARG:HD3	25:DC:155:ARG:O	2.11	0.51
25:DC:243:PRO:HA	25:DC:249:VAL:CG2	2.33	0.51
25:DC:257:ARG:N	25:DC:261:ARG:CZ	2.74	0.51
26:DD:197:THR:HG23	26:DD:198:GLY:N	2.21	0.51
27:DE:132:LYS:H	27:DE:134:LEU:HD11	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:148:ILE:HA	27:DE:185:LYS:O	2.11	0.51
29:DG:72:ASN:O	29:DG:76:ILE:HG13	2.09	0.51
31:DJ:7:LYS:HD2	31:DJ:45:THR:CB	2.40	0.51
31:DJ:36:LEU:HD13	31:DJ:54:ILE:HD12	1.92	0.51
31:DJ:100:VAL:HG22	31:DJ:101:ILE:N	2.26	0.51
32:DK:16:ALA:H	32:DK:47:ILE:CG1	2.24	0.51
34:DM:54:THR:O	34:DM:55:ARG:C	2.48	0.51
34:DM:62:LYS:HB2	34:DM:104:GLU:CD	2.31	0.51
36:DO:4:LYS:O	36:DO:7:ARG:HG2	2.11	0.51
36:DO:36:TYR:O	36:DO:37:ALA:HB2	2.10	0.51
41:DT:47:VAL:HG13	41:DT:48:GLN:N	2.26	0.51
46:DZ:21:VAL:O	46:DZ:22:MET:HG2	2.10	0.51
51:D4:13:ASN:ND2	51:D4:13:ASN:N	2.58	0.51
51:D4:34:LYS:HE2	51:D4:36:ARG:NH2	2.21	0.51
52:DI:125:THR:O	52:DI:129:GLU:HG3	2.10	0.51
1:AA:255:G:H5'	16:AQ:17:GLU:O	2.10	0.51
1:AA:423:G:H2'	1:AA:424:G:O4'	2.09	0.51
1:AA:590:U:OP1	7:AH:30:LYS:HE2	2.10	0.51
1:AA:731:G:OP1	1:AA:766:A:H1'	2.10	0.51
1:AA:824:G:H2'	1:AA:825:A:H8	1.76	0.51
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.46	0.51
1:AA:1423:G:H2'	1:AA:1424:U:O4'	2.10	0.51
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.46	0.51
15:AP:51:ARG:C	15:AP:52:LEU:HD22	2.31	0.51
22:BA:42:C:C6	28:BF:65:LEU:HD13	2.46	0.51
23:BB:570:G:H2'	23:BB:2030:A:N7	2.26	0.51
23:BB:650:C:H5'	50:B3:22:LYS:HZ3	1.76	0.51
23:BB:709:U:H2'	23:BB:710:U:C6	2.44	0.51
23:BB:2307:G:H2'	23:BB:2307:G:N3	2.25	0.51
23:BB:2471:A:O2'	23:BB:2472:G:C8	2.55	0.51
23:BB:2516:A:O2'	23:BB:2517:C:H5'	2.11	0.51
26:BD:67:HIS:O	26:BD:71:ALA:HB3	2.10	0.51
26:BD:119:ALA:HA	26:BD:123:LYS:CE	2.34	0.51
28:BF:107:VAL:HB	28:BF:108:PRO:HD3	1.91	0.51
29:BG:15:ASP:O	29:BG:25:ILE:HA	2.11	0.51
29:BG:84:LYS:HB3	29:BG:132:LEU:HD12	1.93	0.51
30:BH:57:LYS:HE3	30:BH:61:VAL:HG23	1.91	0.51
34:BM:34:LYS:HA	34:BM:99:GLY:HA3	1.92	0.51
37:BP:77:SER:H	37:BP:78:PRO:CD	2.23	0.51
39:BR:42:ALA:HB3	39:BR:45:GLU:HB2	1.92	0.51
40:BS:90:LYS:HE3	40:BS:90:LYS:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:45:HIS:HA	43:BW:75:ASN:HB3	1.92	0.51
47:B0:46:GLY:O	47:B0:52:LYS:HB3	2.10	0.51
1:CA:684:U:O2'	10:CK:39:ASN:HB3	2.09	0.51
1:CA:716:A:N3	10:CK:119:GLY:HA2	2.26	0.51
1:CA:1176:A:H2'	1:CA:1177:G:O4'	2.11	0.51
1:CA:1299:A:N7	1:CA:1301:U:H1'	2.25	0.51
1:CA:1456:A:H2'	1:CA:1457:G:H8	1.75	0.51
2:CC:95:GLY:C	2:CC:96:VAL:HG22	2.30	0.51
11:CL:86:VAL:CG1	11:CL:89:LEU:HD23	2.40	0.51
13:CN:79:SER:O	13:CN:83:VAL:HG23	2.09	0.51
15:CP:52:LEU:HD21	15:CP:74:LEU:HB2	1.91	0.51
18:CS:39:ILE:HA	18:CS:43:MET:SD	2.50	0.51
20:CB:53:LEU:HD11	20:CB:219:THR:OG1	2.10	0.51
23:DB:212:G:H2'	23:DB:213:A:C8	2.46	0.51
23:DB:582:A:H2'	23:DB:583:G:H8	1.75	0.51
23:DB:967:U:H2'	23:DB:968:C:C6	2.45	0.51
23:DB:1196:C:H2'	23:DB:1197:G:H8	1.75	0.51
23:DB:2184:A:H2'	23:DB:2185:U:C5	2.45	0.51
23:DB:2216:G:H2'	23:DB:2217:G:C8	2.45	0.51
23:DB:2250:G:N7	34:DM:82:MET:SD	2.83	0.51
23:DB:2654:A:N1	23:DB:2665:A:H5''	2.26	0.51
25:DC:131:MET:HE1	25:DC:173:LEU:HD11	1.91	0.51
25:DC:237:ARG:HD2	25:DC:239:PHE:HE1	1.75	0.51
27:DE:192:ALA:HB1	27:DE:199:MET:CG	2.40	0.51
31:DJ:94:ALA:CB	31:DJ:95:ARG:HH21	2.24	0.51
32:DK:43:ILE:HD12	32:DK:43:ILE:N	2.25	0.51
36:DO:86:GLY:C	36:DO:88:LYS:H	2.12	0.51
37:DP:80:VAL:O	37:DP:80:VAL:CG1	2.58	0.51
38:DQ:63:ARG:O	38:DQ:66:ALA:HB3	2.10	0.51
40:DS:24:ILE:HG23	40:DS:35:ILE:HG21	1.92	0.51
1:AA:219:U:H2'	1:AA:220:G:C8	2.46	0.51
1:AA:610:U:O4'	1:AA:610:U:O2	2.28	0.51
1:AA:975:A:H5''	1:AA:976:G:O5'	2.10	0.51
1:AA:1247:U:O2'	1:AA:1248:A:H5'	2.10	0.51
2:AC:77:GLY:CA	2:AC:81:GLU:HB3	2.40	0.51
5:AF:32:ALA:HB1	5:AF:70:VAL:HG11	1.93	0.51
6:AG:30:MET:SD	6:AG:35:LYS:HB2	2.50	0.51
10:AK:92:ARG:HH11	10:AK:92:ARG:CB	2.23	0.51
11:AL:103:CYS:SG	11:AL:104:SER:N	2.83	0.51
11:AL:106:VAL:CG2	11:AL:116:TYR:HB3	2.40	0.51
15:AP:9:HIS:CE1	15:AP:29:ASN:HB2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:18:VAL:CG2	18:AS:43:MET:HG2	2.32	0.51
21:AU:38:GLU:C	21:AU:40:PRO:HD2	2.31	0.51
22:BA:21:G:O2'	22:BA:22:U:H5'	2.11	0.51
23:BB:185:G:H2'	23:BB:186:G:O4'	2.10	0.51
23:BB:236:C:O2'	23:BB:237:C:H5'	2.09	0.51
23:BB:611:C:H2'	23:BB:612:G:O4'	2.10	0.51
23:BB:649:G:N2	50:B3:44:ARG:HH22	2.09	0.51
23:BB:956:G:H1'	34:BM:81:ARG:HH22	1.76	0.51
23:BB:1231:U:H2'	23:BB:1232:G:H8	1.75	0.51
23:BB:1429:G:O2'	23:BB:1430:G:H5'	2.09	0.51
23:BB:1633:G:O2'	23:BB:1634:A:H5''	2.10	0.51
23:BB:1854:A:N6	23:BB:1888:G:H1'	2.25	0.51
23:BB:2210:U:N3	23:BB:2212:A:N7	2.58	0.51
23:BB:2297:A:H61	23:BB:2319:G:C3'	2.23	0.51
23:BB:2839:G:H2'	23:BB:2840:C:H6	1.75	0.51
23:BB:2869:G:H2'	23:BB:2870:C:C6	2.46	0.51
25:BC:143:VAL:HG12	25:BC:144:GLU:N	2.19	0.51
26:BD:12:THR:O	26:BD:13:ARG:HD2	2.11	0.51
26:BD:13:ARG:HA	26:BD:13:ARG:HH11	1.75	0.51
26:BD:16:THR:C	37:BP:80:VAL:HB	2.29	0.51
26:BD:108:ASP:CB	26:BD:173:GLN:HA	2.40	0.51
27:BE:150:THR:HB	27:BE:171:ASP:OD2	2.10	0.51
29:BG:34:ARG:HG3	29:BG:35:THR:N	2.25	0.51
30:BH:6:LEU:H	30:BH:16:GLY:N	2.09	0.51
33:BL:14:LYS:HA	33:BL:14:LYS:NZ	2.24	0.51
33:BL:93:ASN:O	33:BL:94:THR:HB	2.10	0.51
34:BM:69:PRO:CB	34:BM:93:VAL:HG12	2.37	0.51
36:BO:43:ASN:HA	36:BO:46:GLU:OE2	2.10	0.51
40:BS:71:VAL:HG22	40:BS:107:VAL:CG1	2.40	0.51
1:CA:33:A:H2'	1:CA:34:C:C6	2.46	0.51
1:CA:587:G:H4'	7:CH:3:GLN:HA	1.92	0.51
1:CA:600:A:H2'	1:CA:601:G:C8	2.46	0.51
1:CA:838:G:H2'	1:CA:839:C:O4'	2.10	0.51
1:CA:923:A:OP1	4:CE:25:LYS:HB3	2.10	0.51
1:CA:1053:G:H4'	1:CA:1054:C:H5'	1.92	0.51
2:CC:45:GLU:HG2	2:CC:85:LYS:NZ	2.25	0.51
2:CC:65:VAL:HG21	2:CC:90:VAL:HG11	1.93	0.51
6:CG:59:GLU:HA	6:CG:62:GLU:CD	2.30	0.51
9:CJ:41:PRO:O	9:CJ:42:LEU:HB2	2.10	0.51
9:CJ:82:LYS:C	9:CJ:84:VAL:H	2.14	0.51
13:CN:71:GLY:O	13:CN:79:SER:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:24:LYS:HD2	21:CU:25:ALA:N	2.12	0.51
22:DA:65:U:O2'	22:DA:66:A:H5'	2.10	0.51
23:DB:17:G:H2'	23:DB:18:U:C6	2.46	0.51
23:DB:215:G:H4'	23:DB:216:A:OP1	2.10	0.51
23:DB:286:U:H2'	23:DB:287:G:C8	2.46	0.51
23:DB:488:G:H1'	23:DB:492:A:H62	1.76	0.51
23:DB:1099:G:N7	52:DI:3:LYS:HD3	2.24	0.51
23:DB:1656:C:H2'	23:DB:1657:U:H6	1.76	0.51
23:DB:2090:A:H2'	46:DZ:49:ARG:NH2	2.25	0.51
23:DB:2247:A:H2'	23:DB:2248:C:H6	1.75	0.51
23:DB:2537:U:H2'	23:DB:2538:C:H6	1.76	0.51
25:DC:27:LYS:HG2	25:DC:81:GLU:N	2.24	0.51
25:DC:171:VAL:HG23	25:DC:182:LYS:HZ3	1.76	0.51
27:DE:188:MET:CE	27:DE:190:ALA:HB2	2.41	0.51
27:DE:189:THR:CG2	27:DE:194:LYS:HD3	2.40	0.51
28:DF:45:ASP:O	28:DF:46:LYS:HG3	2.09	0.51
28:DF:162:ASP:O	28:DF:166:ARG:HG3	2.10	0.51
34:DM:52:ALA:O	34:DM:55:ARG:HB2	2.09	0.51
36:DO:25:ARG:O	36:DO:26:LEU:HD12	2.10	0.51
41:DT:31:VAL:O	41:DT:32:LEU:HB2	2.09	0.51
42:DU:28:LEU:HD13	42:DU:31:GLY:N	2.25	0.51
42:DU:38:ILE:HG13	42:DU:62:ALA:HB1	1.93	0.51
43:DW:24:ARG:HB3	43:DW:59:PHE:CD2	2.46	0.51
47:D0:36:LYS:HB2	47:D0:41:HIS:ND1	2.24	0.51
49:D2:33:ARG:NE	49:D2:33:ARG:HA	2.26	0.51
50:D3:15:LYS:HD3	50:D3:19:GLY:HA2	1.93	0.51
1:AA:17:U:H2'	1:AA:18:C:H6	1.74	0.51
1:AA:33:A:H2'	1:AA:34:C:C6	2.46	0.51
1:AA:90:C:H2'	1:AA:91:U:H6	1.76	0.51
1:AA:266:G:O2'	1:AA:267:C:H3'	2.10	0.51
1:AA:1033:G:H2'	1:AA:1034:G:O4'	2.10	0.51
10:AK:83:VAL:HG21	10:AK:109:ILE:HG12	1.92	0.51
12:AM:18:LEU:O	12:AM:21:ILE:HG13	2.10	0.51
13:AN:17:ASP:HA	13:AN:21:ALA:HB2	1.92	0.51
17:AR:23:LYS:C	17:AR:25:ILE:H	2.14	0.51
17:AR:62:ARG:HD2	17:AR:69:TYR:CD2	2.46	0.51
23:BB:125:A:OP2	49:B2:19:ARG:NH2	2.44	0.51
23:BB:208:C:H2'	23:BB:209:C:C6	2.46	0.51
23:BB:523:C:O2'	23:BB:524:G:H5'	2.11	0.51
23:BB:1132:U:C5	31:BJ:85:LYS:HE2	2.46	0.51
23:BB:1164:C:H2'	23:BB:1165:A:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1571:A:H2'	23:BB:1572:A:C8	2.46	0.51
23:BB:2491:U:H5''	23:BB:2570:G:H5''	1.93	0.51
23:BB:2578:G:H1'	26:BD:145:SER:CB	2.20	0.51
24:BV:10:LYS:HG2	24:BV:11:GLU:HG3	1.93	0.51
26:BD:45:TYR:CZ	26:BD:83:ARG:HG3	2.45	0.51
27:BE:17:THR:O	27:BE:18:THR:HG22	2.10	0.51
27:BE:43:THR:HG1	27:BE:44:ARG:HH21	1.59	0.51
28:BF:66:ILE:HG22	28:BF:83:PRO:HB2	1.91	0.51
31:BJ:34:ARG:HD3	31:BJ:39:LYS:HB2	1.92	0.51
33:BL:62:PRO:C	50:B3:24:LYS:HD3	2.31	0.51
34:BM:84:LYS:H	34:BM:84:LYS:HZ2	1.58	0.51
34:BM:96:ILE:O	34:BM:97:GLN:HG3	2.10	0.51
36:BO:2:ASP:HA	36:BO:5:SER:O	2.10	0.51
38:BQ:39:ILE:HG23	39:BR:80:ARG:HD3	1.91	0.51
38:BQ:48:ASP:O	38:BQ:52:ARG:HB2	2.11	0.51
40:BS:29:VAL:HG21	40:BS:69:LEU:C	2.30	0.51
41:BT:5:GLU:CG	41:BT:6:ARG:H	2.23	0.51
43:BW:69:GLU:HG2	43:BW:69:GLU:O	2.10	0.51
46:BZ:58:ASP:CG	46:BZ:63:ARG:HH11	2.13	0.51
47:B0:32:THR:OG1	47:B0:42:ILE:HD12	2.10	0.51
49:B2:17:GLY:HA2	49:B2:21:ARG:HH12	1.76	0.51
1:CA:17:U:H2'	1:CA:18:C:H6	1.71	0.51
1:CA:36:C:H2'	1:CA:37:U:O4'	2.10	0.51
1:CA:472:U:H2'	1:CA:473:U:C6	2.46	0.51
1:CA:633:G:H2'	1:CA:634:C:C6	2.46	0.51
1:CA:674:G:H2'	1:CA:675:A:H8	1.74	0.51
1:CA:708:C:H2'	1:CA:709:U:C6	2.45	0.51
1:CA:1337:G:H5''	1:CA:1338:G:OP1	2.11	0.51
3:CD:58:GLN:HA	3:CD:58:GLN:NE2	2.21	0.51
5:CF:38:ARG:NH2	5:CF:63:ASN:HD21	2.08	0.51
16:CQ:68:LYS:O	16:CQ:70:LYS:N	2.43	0.51
20:CB:96:LEU:HD11	20:CB:146:SER:HB2	1.93	0.51
20:CB:172:ILE:CD1	20:CB:182:VAL:HG11	2.41	0.51
23:DB:20:C:O2'	23:DB:21:A:H5'	2.10	0.51
23:DB:2153:C:H2'	23:DB:2154:A:C8	2.45	0.51
23:DB:2439:A:C8	23:DB:2586:U:H4'	2.46	0.51
23:DB:2862:G:H2'	23:DB:2863:C:C6	2.45	0.51
24:DV:53:LYS:NZ	24:DV:53:LYS:HB3	2.26	0.51
27:DE:115:GLN:HG2	27:DE:184:ASP:O	2.10	0.51
29:DG:10:VAL:HG21	29:DG:44:HIS:NE2	2.26	0.51
29:DG:29:ASN:CB	29:DG:78:VAL:HA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:49:ASP:O	31:DJ:50:THR:CB	2.58	0.51
31:DJ:136:GLN:N	31:DJ:137:PRO:CD	2.74	0.51
32:DK:18:ARG:HB2	32:DK:45:GLU:CG	2.41	0.51
32:DK:61:VAL:CG1	32:DK:87:LEU:HD11	2.41	0.51
33:DL:25:SER:C	33:DL:27:LEU:N	2.63	0.51
33:DL:55:MET:CB	33:DL:56:PRO:HD3	2.38	0.51
35:DN:86:ARG:CZ	35:DN:117:ASP:HA	2.41	0.51
36:DO:35:ILE:CG1	36:DO:106:LEU:HD12	2.40	0.51
38:DQ:87:VAL:CB	39:DR:54:VAL:HG11	2.39	0.51
38:DQ:116:LEU:HD22	38:DQ:116:LEU:N	2.25	0.51
39:DR:86:GLN:HE21	39:DR:87:GLN:NE2	2.09	0.51
43:DW:60:ALA:HB3	43:DW:80:SER:CA	2.34	0.51
1:AA:49:U:O2'	1:AA:50:A:H2'	2.11	0.51
1:AA:979:C:H2'	1:AA:980:C:O4'	2.10	0.51
1:AA:1460:C:H2'	1:AA:1461:G:O4'	2.11	0.51
3:AD:58:GLN:OE1	3:AD:62:ARG:HG3	2.09	0.51
3:AD:71:PHE:O	3:AD:74:TYR:HB2	2.11	0.51
3:AD:115:GLN:HE21	3:AD:119:HIS:CE1	2.28	0.51
6:AG:45:ALA:HB2	6:AG:116:ALA:O	2.10	0.51
6:AG:72:VAL:HB	6:AG:144:ALA:HB3	1.92	0.51
11:AL:31:GLY:HA3	11:AL:54:VAL:CG1	2.41	0.51
12:AM:44:ILE:HD12	12:AM:45:SER:N	2.23	0.51
23:BB:969:G:H2'	23:BB:970:U:H6	1.73	0.51
23:BB:1061:U:H4'	23:BB:1070:A:O3'	2.11	0.51
23:BB:1164:C:H2'	23:BB:1165:A:H8	1.76	0.51
23:BB:1334:G:O2'	23:BB:1335:C:H5'	2.11	0.51
23:BB:1599:U:H2'	23:BB:1600:C:C6	2.45	0.51
23:BB:2186:G:H2'	23:BB:2187:U:O4'	2.09	0.51
23:BB:2455:G:H2'	23:BB:2456:C:C6	2.46	0.51
23:BB:2527:C:H1'	51:B4:1:MET:CB	2.40	0.51
23:BB:2600:A:H62	25:BC:235:GLU:HB3	1.75	0.51
24:BV:26:PHE:CE2	24:BV:44:HIS:HA	2.44	0.51
26:BD:142:VAL:C	26:BD:144:GLY:H	2.13	0.51
27:BE:138:LEU:HD21	27:BE:167:VAL:HG21	1.92	0.51
29:BG:25:ILE:O	29:BG:25:ILE:HG23	2.10	0.51
32:BK:85:VAL:O	32:BK:87:LEU:HD23	2.11	0.51
35:BN:30:ARG:HB3	35:BN:31:HIS:ND1	2.26	0.51
37:BP:29:VAL:O	37:BP:31:VAL:HG23	2.10	0.51
37:BP:80:VAL:O	37:BP:80:VAL:HG13	2.11	0.51
37:BP:83:ILE:HB	37:BP:85:VAL:HG23	1.93	0.51
38:BQ:92:LYS:O	38:BQ:93:ILE:CG2	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:29:ARG:HA	50:B3:33:THR:HG23	1.91	0.51
1:CA:219:U:H2'	1:CA:220:G:C8	2.46	0.51
1:CA:803:G:H2'	1:CA:804:U:C6	2.46	0.51
1:CA:980:C:H2'	1:CA:981:U:H5'	1.93	0.51
1:CA:1009:U:H2'	1:CA:1010:U:C5	2.46	0.51
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.76	0.51
1:CA:1082:A:O2'	1:CA:1083:U:H5'	2.11	0.51
1:CA:1234:C:H2'	1:CA:1235:U:C6	2.45	0.51
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.11	0.51
2:CC:11:LEU:HD22	2:CC:17:TRP:CD1	2.46	0.51
3:CD:13:ARG:O	3:CD:13:ARG:HG3	2.10	0.51
4:CE:67:ARG:HB2	4:CE:67:ARG:HH11	1.75	0.51
13:CN:26:LEU:HD12	13:CN:29:ILE:HD12	1.91	0.51
18:CS:18:VAL:C	18:CS:42:ASN:HD21	2.14	0.51
23:DB:416:U:H2'	23:DB:417:C:C6	2.45	0.51
23:DB:448:U:H5	23:DB:583:G:N2	2.08	0.51
23:DB:765:C:H2'	23:DB:766:U:C6	2.46	0.51
23:DB:811:U:H3'	33:DL:32:GLY:O	2.11	0.51
23:DB:832:U:H2'	23:DB:833:A:C8	2.46	0.51
23:DB:1227:G:OP2	38:DQ:15:LYS:HE2	2.11	0.51
23:DB:1444:G:H2'	23:DB:1445:G:C8	2.45	0.51
23:DB:1583:A:H4'	23:DB:1585:C:N3	2.26	0.51
23:DB:1817:G:H5''	25:DC:86:ARG:NH1	2.25	0.51
23:DB:2412:A:H2'	23:DB:2413:G:O4'	2.09	0.51
23:DB:2563:U:H5''	32:DK:27:GLY:H	1.76	0.51
25:DC:29:PHE:HE1	25:DC:81:GLU:HG3	1.75	0.51
25:DC:155:ARG:O	25:DC:157:ALA:N	2.43	0.51
25:DC:251:THR:O	25:DC:252:LYS:CB	2.56	0.51
26:DD:15:PHE:HA	37:DP:79:VAL:CG1	2.38	0.51
27:DE:187:VAL:HG23	27:DE:188:MET:H	1.75	0.51
28:DF:40:GLY:C	28:DF:41:GLU:HG3	2.30	0.51
28:DF:78:ILE:HG23	28:DF:82:TYR:HD1	1.75	0.51
30:DH:86:ASP:OD2	30:DH:89:LYS:HB2	2.11	0.51
31:DJ:7:LYS:HG3	31:DJ:48:VAL:CG2	2.41	0.51
31:DJ:45:THR:O	31:DJ:47:HIS:N	2.42	0.51
35:DN:63:ARG:HA	35:DN:80:PHE:CZ	2.45	0.51
42:DU:8:ASP:O	42:DU:10:VAL:N	2.44	0.51
48:D1:27:ARG:HB2	48:D1:31:GLU:HB3	1.93	0.51
1:AA:216:U:H2'	1:AA:217:C:C6	2.46	0.51
1:AA:300:A:H2'	1:AA:301:G:O4'	2.11	0.51
1:AA:408:A:H3'	1:AA:409:U:H6	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:642:A:H2'	1:AA:643:C:H6	1.76	0.51
1:AA:751:U:H2'	1:AA:752:G:O4'	2.11	0.51
1:AA:939:G:H4'	6:AG:101:ARG:NH2	2.25	0.51
1:AA:1190:G:O2'	2:AC:2:GLN:HB2	2.10	0.51
1:AA:1285:A:N6	1:AA:1355:G:H4'	2.26	0.51
1:AA:1434:A:H2'	1:AA:1435:G:C8	2.46	0.51
3:AD:131:ILE:O	3:AD:134:TYR:HB2	2.10	0.51
12:AM:27:THR:O	12:AM:30:LYS:HB3	2.11	0.51
20:AB:53:LEU:HD12	20:AB:219:THR:HG21	1.92	0.51
20:AB:67:LEU:HD11	20:AB:157:PRO:CB	2.30	0.51
23:BB:1292:G:H2'	23:BB:1293:C:C6	2.46	0.51
23:BB:2425:A:H5'	23:BB:2427:C:O4'	2.10	0.51
23:BB:2439:A:C8	23:BB:2586:U:H4'	2.46	0.51
23:BB:2483:C:H4'	34:BM:51:ARG:HH12	1.76	0.51
24:BV:80:HIS:CD2	24:BV:81:PRO:HD2	2.46	0.51
25:BC:53:ILE:HD13	25:BC:218:THR:CG2	2.39	0.51
26:BD:35:THR:HG22	26:BD:46:ARG:NH2	2.26	0.51
27:BE:153:LEU:HD11	27:BE:201:ALA:HA	1.93	0.51
28:BF:151:LEU:CD2	28:BF:153:ILE:HD11	2.36	0.51
29:BG:10:VAL:O	29:BG:10:VAL:HG13	2.11	0.51
32:BK:87:LEU:HA	32:BK:95:ILE:H	1.76	0.51
33:BL:67:THR:O	33:BL:68:SER:CB	2.59	0.51
34:BM:34:LYS:O	34:BM:124:LEU:HB2	2.11	0.51
34:BM:71:LYS:HZ3	34:BM:91:TYR:HD2	1.59	0.51
37:BP:61:ARG:NH2	37:BP:75:THR:HB	2.26	0.51
38:BQ:21:LYS:C	38:BQ:23:TYR:H	2.12	0.51
41:BT:3:ARG:HH21	41:BT:8:LEU:CD2	2.24	0.51
42:BU:44:HIS:HB2	42:BU:55:GLY:C	2.31	0.51
43:BW:59:PHE:HE2	43:BW:81:ILE:HD13	1.75	0.51
51:B4:9:LYS:O	51:B4:25:VAL:HG13	2.10	0.51
1:CA:195:A:H1'	1:CA:222:C:O2'	2.10	0.51
1:CA:626:G:H2'	1:CA:627:G:H8	1.75	0.51
1:CA:865:A:C2	1:CA:918:A:H4'	2.46	0.51
1:CA:1054:C:H1'	1:CA:1196:A:C5	2.46	0.51
1:CA:1226:C:C5	12:CM:102:LYS:HB3	2.46	0.51
2:CC:122:GLN:HB3	2:CC:127:VAL:HG11	1.92	0.51
6:CG:90:VAL:HG12	6:CG:91:ARG:H	1.76	0.51
8:CI:90:ASP:HB3	8:CI:93:LEU:HG	1.93	0.51
8:CI:98:ARG:HA	8:CI:103:VAL:CG2	2.40	0.51
15:CP:3:THR:HB	15:CP:66:THR:O	2.10	0.51
15:CP:54:LEU:HD22	15:CP:80:LYS:HZ2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DA:48:U:H2'	22:DA:49:C:H6	1.74	0.51
23:DB:138:U:H2'	23:DB:140:C:C6	2.46	0.51
23:DB:152:A:H2'	23:DB:153:U:C6	2.46	0.51
23:DB:310:A:H5''	42:DU:14:THR:HG21	1.91	0.51
23:DB:946:C:H2'	23:DB:947:A:C8	2.41	0.51
23:DB:1099:G:OP2	52:DI:3:LYS:HA	2.11	0.51
23:DB:1790:C:O2'	25:DC:207:ALA:HB2	2.11	0.51
23:DB:2379:G:H2'	23:DB:2380:C:C6	2.45	0.51
23:DB:2472:G:H2'	23:DB:2475:C:H42	1.76	0.51
27:DE:1:MET:HG3	27:DE:18:THR:HG1	1.74	0.51
28:DF:120:SER:HB3	28:DF:127:TYR:CE1	2.45	0.51
29:DG:148:ARG:HA	29:DG:161:VAL:CG1	2.41	0.51
31:DJ:98:GLU:CD	31:DJ:98:GLU:H	2.14	0.51
32:DK:20:MET:HG2	32:DK:21:CYS:O	2.11	0.51
33:DL:108:ALA:O	33:DL:109:LYS:HB2	2.11	0.51
37:DP:83:ILE:HG12	37:DP:85:VAL:HG23	1.92	0.51
41:DT:55:VAL:HG22	41:DT:56:GLU:N	2.23	0.51
44:DX:44:LYS:HG3	44:DX:47:ARG:CB	2.40	0.51
45:DY:37:ARG:HA	45:DY:37:ARG:CZ	2.41	0.51
1:AA:275:G:O5'	16:AQ:15:LYS:HG2	2.11	0.51
1:AA:309:A:H2'	1:AA:310:G:H8	1.76	0.51
1:AA:337:G:H2'	1:AA:338:A:C8	2.45	0.51
1:AA:711:G:O2'	1:AA:712:A:H5'	2.11	0.51
3:AD:64:TYR:H	3:AD:64:TYR:HD1	1.59	0.51
3:AD:116:LEU:HB3	3:AD:122:ILE:HD11	1.93	0.51
3:AD:172:VAL:HA	3:AD:178:GLU:O	2.11	0.51
6:AG:66:GLU:HA	6:AG:69:ARG:HE	1.75	0.51
8:AI:49:GLN:HE21	8:AI:79:ARG:HD2	1.75	0.51
10:AK:80:ASN:HD21	10:AK:107:THR:HG23	1.76	0.51
10:AK:88:PRO:HD3	21:AU:28:LEU:HD22	1.91	0.51
10:AK:125:LYS:O	10:AK:126:ARG:O	2.29	0.51
12:AM:106:ARG:CZ	12:AM:109:LYS:HD2	2.40	0.51
15:AP:40:ASN:HD21	15:AP:42:ILE:HG13	1.75	0.51
20:AB:101:THR:HG23	20:AB:102:ASN:H	1.75	0.51
21:AU:5:VAL:HG12	21:AU:6:ARG:N	2.25	0.51
21:AU:43:GLU:HA	21:AU:43:GLU:OE1	2.10	0.51
23:BB:443:A:H5''	27:BE:44:ARG:NH1	2.24	0.51
23:BB:443:A:OP1	27:BE:44:ARG:NH2	2.44	0.51
23:BB:445:C:O2'	23:BB:446:G:H5'	2.10	0.51
23:BB:1107:G:H2'	23:BB:1108:U:O4'	2.10	0.51
23:BB:1645:G:H5''	23:BB:1646:C:H5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2219:U:O2'	23:BB:2220:U:H5'	2.11	0.51
23:BB:2305:U:H3	28:BF:150:GLY:HA3	1.75	0.51
23:BB:2344:U:H4'	23:BB:2345:G:OP1	2.09	0.51
23:BB:2511:U:H2'	23:BB:2512:C:O4'	2.11	0.51
24:BV:23:ALA:O	24:BV:24:ASN:HB2	2.10	0.51
26:BD:124:ARG:NH2	26:BD:163:GLY:HA3	2.25	0.51
26:BD:206:ALA:C	26:BD:208:LYS:H	2.15	0.51
27:BE:44:ARG:O	27:BE:45:ALA:C	2.49	0.51
28:BF:126:ASN:OD1	28:BF:156:THR:HG23	2.11	0.51
30:BH:3:VAL:HB	30:BH:37:VAL:CG2	2.41	0.51
31:BJ:125:TYR:CE2	31:BJ:134:ALA:HB2	2.45	0.51
33:BL:56:PRO:O	33:BL:60:ARG:N	2.44	0.51
33:BL:63:LYS:HG3	50:B3:11:LYS:HZ2	1.76	0.51
33:BL:118:THR:N	33:BL:119:PRO:HD3	2.20	0.51
34:BM:42:THR:HG22	34:BM:45:GLN:HB2	1.93	0.51
35:BN:97:ILE:CD1	35:BN:113:ILE:HG12	2.41	0.51
46:BZ:59:ARG:HG3	46:BZ:62:LYS:CG	2.41	0.51
46:BZ:66:ILE:C	46:BZ:68:GLY:H	2.13	0.51
46:BZ:66:ILE:C	46:BZ:68:GLY:N	2.64	0.51
1:CA:34:C:H2'	1:CA:35:G:C8	2.46	0.51
1:CA:34:C:H2'	1:CA:35:G:H8	1.76	0.51
1:CA:1002:G:H2'	1:CA:1003:G:O4'	2.11	0.51
1:CA:1060:U:OP1	9:CJ:53:ILE:HD11	2.11	0.51
1:CA:1234:C:O2'	1:CA:1235:U:H5'	2.10	0.51
1:CA:1326:U:O2'	1:CA:1327:C:H5'	2.11	0.51
1:CA:1335:U:H5''	1:CA:1337:G:N2	2.26	0.51
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.45	0.51
5:CF:52:ASN:O	5:CF:53:LYS:HB3	2.10	0.51
17:CR:62:ARG:C	17:CR:64:LEU:H	2.14	0.51
23:DB:585:G:H2'	23:DB:1251:C:H42	1.76	0.51
23:DB:718:A:H3'	23:DB:719:C:H6	1.76	0.51
23:DB:794:A:H2'	23:DB:795:C:H6	1.71	0.51
23:DB:871:U:H2'	23:DB:872:U:C6	2.46	0.51
23:DB:1021:A:H61	23:DB:1142:A:H61	1.59	0.51
23:DB:1287:A:O2'	23:DB:1288:G:H5'	2.10	0.51
23:DB:2257:U:H5'	43:DW:5:ALA:CB	2.40	0.51
23:DB:2299:U:H2'	23:DB:2300:C:H6	1.76	0.51
23:DB:2783:U:H2'	23:DB:2784:U:H6	1.76	0.51
25:DC:156:SER:O	25:DC:158:GLY:N	2.43	0.51
30:DH:19:VAL:HG22	30:DH:20:ASN:H	1.75	0.51
31:DJ:23:LYS:O	31:DJ:25:LEU:HD13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:16:ALA:H	32:DK:47:ILE:HG13	1.75	0.51
33:DL:77:ILE:HD13	33:DL:110:VAL:CA	2.41	0.51
33:DL:77:ILE:H	33:DL:77:ILE:HD12	1.76	0.51
33:DL:107:PHE:HE2	33:DL:126:ARG:HB2	1.76	0.51
33:DL:118:THR:O	33:DL:120:VAL:HG23	2.11	0.51
33:DL:142:ILE:HD13	33:DL:142:ILE:O	2.11	0.51
34:DM:33:LEU:CD1	34:DM:124:LEU:HD22	2.34	0.51
34:DM:100:LYS:O	34:DM:101:VAL:HG23	2.11	0.51
38:DQ:69:ARG:HH11	38:DQ:69:ARG:CB	2.22	0.51
39:DR:80:ARG:HB3	39:DR:86:GLN:O	2.11	0.51
43:DW:42:THR:HG22	43:DW:67:LYS:O	2.10	0.51
50:D3:33:THR:HG23	50:D3:36:ALA:CB	2.41	0.51
1:AA:251:G:H4'	1:AA:252:U:H5'	1.93	0.51
1:AA:663:A:O2'	1:AA:664:G:H5'	2.11	0.51
1:AA:685:G:O4'	10:AK:40:ALA:HB3	2.11	0.51
1:AA:920:U:H2'	1:AA:921:U:H6	1.74	0.51
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.75	0.51
2:AC:78:LYS:HE3	2:AC:81:GLU:OE2	2.11	0.51
3:AD:169:TRP:HB3	3:AD:183:ARG:HH21	1.76	0.51
7:AH:60:LEU:HD12	7:AH:60:LEU:N	2.26	0.51
13:AN:11:LYS:HA	13:AN:11:LYS:HZ2	1.76	0.51
13:AN:27:LYS:HD2	13:AN:28:ALA:N	2.26	0.51
16:AQ:60:ILE:N	16:AQ:60:ILE:HD13	2.25	0.51
18:AS:35:ARG:HG2	18:AS:50:VAL:CG1	2.39	0.51
23:BB:1011:G:H5''	38:BQ:76:SER:OG	2.11	0.51
23:BB:1215:G:O2'	23:BB:1216:G:H5'	2.11	0.51
23:BB:1400:U:H2'	23:BB:1401:G:C8	2.46	0.51
23:BB:1568:G:C5'	25:BC:60:ALA:HB3	2.41	0.51
23:BB:2512:C:H2'	23:BB:2513:A:O4'	2.11	0.51
23:BB:2712:C:H3'	23:BB:2714:G:H5''	1.92	0.51
32:BK:14:SER:O	32:BK:52:VAL:HB	2.11	0.51
33:BL:55:MET:HG2	33:BL:56:PRO:CD	2.22	0.51
33:BL:81:ASP:HB3	33:BL:86:GLU:OE2	2.10	0.51
36:BO:1:MET:HG2	36:BO:2:ASP:H	1.76	0.51
42:BU:43:LYS:HD2	42:BU:44:HIS:N	2.26	0.51
47:B0:29:VAL:HB	47:B0:36:LYS:HD2	1.93	0.51
1:CA:75:G:H2'	1:CA:76:G:O4'	2.11	0.51
1:CA:693:G:H2'	1:CA:694:A:O4'	2.11	0.51
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.10	0.51
1:CA:1177:G:H3'	1:CA:1178:G:C8	2.46	0.51
1:CA:1426:G:H2'	1:CA:1427:C:H6	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:85:LYS:HG3	2:CC:86:LEU:N	2.26	0.51
2:CC:88:LYS:O	2:CC:92:ASP:HB2	2.11	0.51
5:CF:62:MET:HG3	5:CF:64:VAL:CG2	2.41	0.51
10:CK:70:ALA:HB1	10:CK:74:LYS:HB2	1.93	0.51
12:CM:55:LEU:O	12:CM:59:VAL:HG12	2.11	0.51
16:CQ:6:THR:HG23	16:CQ:59:GLU:OE1	2.11	0.51
20:CB:22:TRP:HA	20:CB:188:THR:HB	1.92	0.51
23:DB:277:G:H2'	23:DB:277:G:N3	2.26	0.51
23:DB:331:C:O2'	23:DB:332:A:H5'	2.11	0.51
23:DB:851:C:H2'	23:DB:852:U:C6	2.46	0.51
23:DB:863:A:H2'	23:DB:864:G:H8	1.76	0.51
23:DB:1022:G:N2	23:DB:1142:A:N1	2.59	0.51
23:DB:1213:A:N6	23:DB:1236:G:H1'	2.26	0.51
23:DB:1328:A:H2'	23:DB:1330:C:C4	2.46	0.51
23:DB:2649:C:H2'	23:DB:2650:U:H6	1.76	0.51
24:DV:21:ARG:NH2	24:DV:87:GLN:HB3	2.26	0.51
25:DC:136:VAL:C	25:DC:165:ALA:HA	2.32	0.51
33:DL:19:LEU:O	33:DL:21:ARG:HG2	2.09	0.51
33:DL:41:ARG:CZ	33:DL:41:ARG:HA	2.41	0.51
34:DM:83:GLY:O	34:DM:84:LYS:HB2	2.10	0.51
43:DW:57:THR:HG22	43:DW:77:LYS:HG2	1.93	0.51
43:DW:76:ARG:C	43:DW:78:PHE:H	2.14	0.51
1:AA:214:C:H2'	1:AA:215:C:H6	1.76	0.50
1:AA:613:C:H2'	1:AA:614:C:C6	2.46	0.50
1:AA:746:A:H2'	1:AA:747:A:C8	2.45	0.50
1:AA:1206:G:H4'	2:AC:192:TYR:HA	1.93	0.50
2:AC:21:TRP:HB3	2:AC:58:ARG:HB2	1.93	0.50
3:AD:98:ASP:CG	3:AD:132:ALA:HB1	2.30	0.50
15:AP:71:VAL:CA	15:AP:74:LEU:HG	2.41	0.50
20:AB:68:PHE:HA	20:AB:161:PHE:O	2.10	0.50
23:BB:532:A:H4'	23:BB:533:G:C8	2.46	0.50
23:BB:1132:U:H5''	31:BJ:85:LYS:NZ	2.25	0.50
23:BB:1312:U:OP2	41:BT:66:LYS:HG2	2.11	0.50
23:BB:2049:G:O2'	23:BB:2050:C:H5'	2.11	0.50
23:BB:2400:G:O2'	23:BB:2401:U:H5'	2.12	0.50
27:BE:143:LEU:HD21	27:BE:185:LYS:HD3	1.92	0.50
32:BK:104:THR:HB	32:BK:106:GLU:OE1	2.10	0.50
33:BL:38:GLN:H	33:BL:41:ARG:HD2	1.76	0.50
46:BZ:15:SER:CB	46:BZ:23:LYS:HD3	2.41	0.50
1:CA:179:A:H2'	1:CA:180:U:C6	2.47	0.50
1:CA:376:G:H4'	15:CP:5:ARG:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1060:U:H2'	1:CA:1061:G:C8	2.46	0.50
1:CA:1370:G:O2'	1:CA:1371:G:H5'	2.11	0.50
1:CA:1516:G:H2'	1:CA:1518:A:OP2	2.10	0.50
3:CD:2:ARG:HH11	3:CD:114:ARG:HD3	1.74	0.50
4:CE:89:THR:O	4:CE:91:SER:N	2.44	0.50
10:CK:122:PRO:HG2	21:CU:34:ARG:HA	1.92	0.50
14:CO:84:LEU:HB3	14:CO:86:LEU:HD13	1.93	0.50
20:CB:132:GLU:HA	20:CB:135:MET:HE3	1.93	0.50
21:CU:41:THR:HA	21:CU:45:LYS:HD3	1.92	0.50
23:DB:30:G:H2'	23:DB:31:C:H6	1.76	0.50
23:DB:419:U:H2'	23:DB:420:C:C6	2.46	0.50
23:DB:441:U:H2'	23:DB:442:G:H8	1.77	0.50
23:DB:1274:A:N3	23:DB:1297:C:H1'	2.26	0.50
23:DB:1400:U:H2'	23:DB:1401:G:H8	1.77	0.50
23:DB:1939:U:O2	23:DB:1967:C:H4'	2.11	0.50
23:DB:2306:C:H3'	23:DB:2307:G:H5''	1.91	0.50
23:DB:2683:C:OP1	37:DP:55:HIS:CG	2.64	0.50
25:DC:182:LYS:HG3	25:DC:264:LYS:NZ	2.26	0.50
26:DD:17:GLU:HG3	37:DP:80:VAL:CG1	2.36	0.50
27:DE:115:GLN:HG3	27:DE:184:ASP:OD2	2.10	0.50
27:DE:176:ASP:HB3	27:DE:179:SER:OG	2.11	0.50
28:DF:172:PHE:O	28:DF:173:ASP:C	2.49	0.50
31:DJ:41:LYS:HZ3	31:DJ:44:TYR:C	2.15	0.50
31:DJ:77:HIS:N	31:DJ:85:LYS:HE3	2.25	0.50
31:DJ:121:LYS:HE3	31:DJ:121:LYS:N	2.26	0.50
32:DK:35:VAL:HG21	32:DK:69:VAL:CG2	2.41	0.50
33:DL:18:ARG:HG3	33:DL:18:ARG:HH11	1.76	0.50
33:DL:99:ASN:C	33:DL:100:ILE:HG13	2.31	0.50
34:DM:5:LYS:HE3	34:DM:6:ARG:N	2.26	0.50
34:DM:133:LYS:CD	34:DM:134:THR:H	2.21	0.50
35:DN:72:ASP:OD1	35:DN:74:GLU:HB3	2.11	0.50
36:DO:40:ILE:HD13	36:DO:40:ILE:N	2.25	0.50
38:DQ:25:GLY:O	38:DQ:29:ARG:HG2	2.11	0.50
40:DS:81:SER:HB3	40:DS:99:ARG:HA	1.93	0.50
45:DY:6:ILE:O	45:DY:34:THR:HA	2.11	0.50
1:AA:208:U:H2'	1:AA:210:C:C5	2.45	0.50
1:AA:317:U:H2'	1:AA:318:G:H8	1.74	0.50
1:AA:642:A:H2'	1:AA:643:C:C6	2.45	0.50
1:AA:946:A:H2'	1:AA:947:G:H8	1.75	0.50
1:AA:1285:A:H62	1:AA:1355:G:H4'	1.76	0.50
1:AA:1490:U:H3'	1:AA:1491:G:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:110:MET:O	4:AE:113:VAL:HG22	2.10	0.50
6:AG:23:ALA:O	6:AG:26:VAL:HG22	2.11	0.50
9:AJ:41:PRO:O	9:AJ:42:LEU:HB2	2.12	0.50
20:AB:100:LEU:O	20:AB:178:LEU:HG	2.12	0.50
20:AB:113:LEU:O	20:AB:117:GLU:HG3	2.12	0.50
22:BA:58:A:H2'	22:BA:59:A:O4'	2.11	0.50
23:BB:125:A:H3'	23:BB:126:A:H5'	1.93	0.50
23:BB:172:A:O2'	23:BB:173:A:H5'	2.11	0.50
23:BB:298:G:H2'	23:BB:339:U:O4	2.12	0.50
23:BB:536:G:H4'	38:BQ:56:PHE:CZ	2.46	0.50
23:BB:1105:U:H2'	23:BB:1106:G:C8	2.46	0.50
23:BB:1373:A:H4'	23:BB:2212:A:N3	2.27	0.50
23:BB:1737:G:H5'	23:BB:1738:G:OP2	2.10	0.50
23:BB:2352:A:H2'	23:BB:2353:G:O4'	2.12	0.50
26:BD:51:THR:O	26:BD:52:THR:HB	2.11	0.50
26:BD:128:ARG:CZ	26:BD:130:GLN:CD	2.80	0.50
26:BD:128:ARG:HH12	26:BD:130:GLN:NE2	2.09	0.50
26:BD:170:VAL:HG21	26:BD:194:PRO:CG	2.42	0.50
26:BD:175:LEU:HB3	26:BD:189:VAL:CG1	2.41	0.50
28:BF:106:ALA:HB3	28:BF:136:ILE:HG23	1.92	0.50
34:BM:42:THR:HG23	34:BM:45:GLN:H	1.77	0.50
34:BM:112:LEU:HD12	34:BM:112:LEU:N	2.26	0.50
37:BP:2:ASN:HD22	37:BP:2:ASN:N	2.10	0.50
37:BP:61:ARG:NH2	37:BP:63:ILE:HD11	2.25	0.50
38:BQ:68:ALA:HB2	38:BQ:105:PHE:HZ	1.75	0.50
51:B4:12:ARG:H	51:B4:12:ARG:HD2	1.77	0.50
1:CA:366:A:O2'	1:CA:394:G:N2	2.45	0.50
1:CA:560:A:H4'	1:CA:561:U:H5''	1.92	0.50
1:CA:982:U:OP2	13:CN:62:ARG:NH2	2.43	0.50
1:CA:1202:U:H1'	13:CN:68:ARG:HD2	1.91	0.50
1:CA:1417:G:O2'	1:CA:1483:A:N6	2.44	0.50
3:CD:127:ARG:HD2	3:CD:127:ARG:H	1.76	0.50
5:CF:38:ARG:NH2	5:CF:96:VAL:HB	2.26	0.50
6:CG:29:LEU:HD11	6:CG:119:LEU:HD22	1.94	0.50
6:CG:74:VAL:HA	6:CG:86:VAL:O	2.11	0.50
10:CK:124:LYS:HD3	21:CU:34:ARG:HD3	1.93	0.50
18:CS:43:MET:C	18:CS:46:LEU:HD23	2.31	0.50
19:CT:49:ALA:O	19:CT:52:GLU:HB3	2.12	0.50
20:CB:40:ILE:CG2	20:CB:200:PRO:HB2	2.41	0.50
23:DB:197:A:N6	23:DB:2430:A:H2'	2.26	0.50
23:DB:458:G:H2'	23:DB:469:G:O6	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:943:A:P	33:DL:40:SER:HA	2.51	0.50
23:DB:1251:C:O2'	23:DB:1252:G:H3'	2.11	0.50
23:DB:1317:G:H2'	23:DB:1318:U:O4'	2.11	0.50
23:DB:1573:G:H2'	23:DB:1574:C:H5'	1.92	0.50
23:DB:2313:C:H2'	23:DB:2314:A:H8	1.75	0.50
25:DC:53:ILE:HD13	25:DC:218:THR:HG23	1.92	0.50
25:DC:123:ILE:HG12	25:DC:135:PRO:HD2	1.93	0.50
26:DD:5:VAL:HG21	26:DD:28:GLU:HA	1.92	0.50
29:DG:17:LYS:HZ2	29:DG:18:ILE:C	2.14	0.50
29:DG:171:LYS:HZ3	29:DG:174:LYS:N	2.05	0.50
32:DK:13:ASN:HD21	32:DK:98:ARG:HG2	1.76	0.50
33:DL:61:LEU:N	33:DL:62:PRO:CD	2.73	0.50
37:DP:47:ILE:CG2	37:DP:63:ILE:HG23	2.34	0.50
38:DQ:3:VAL:O	38:DQ:4:LYS:HG2	2.11	0.50
39:DR:10:LYS:HD3	39:DR:41:ILE:HD11	1.93	0.50
41:DT:2:ILE:HG12	41:DT:3:ARG:N	2.26	0.50
43:DW:33:GLY:O	43:DW:66:VAL:HG23	2.11	0.50
50:D3:40:LYS:O	50:D3:43:LEU:HD13	2.11	0.50
1:AA:764:C:H3'	1:AA:765:G:N2	2.25	0.50
2:AC:83:VAL:HG12	2:AC:87:ARG:HE	1.75	0.50
2:AC:149:LYS:HB3	2:AC:200:TRP:HB2	1.94	0.50
4:AE:37:VAL:HG11	4:AE:113:VAL:HG12	1.92	0.50
6:AG:61:PHE:O	6:AG:65:LEU:HD13	2.11	0.50
8:AI:32:ARG:NH2	8:AI:36:GLN:HG2	2.25	0.50
11:AL:48:LEU:H	11:AL:48:LEU:CD2	2.18	0.50
12:AM:106:ARG:HH11	12:AM:106:ARG:CA	2.24	0.50
20:AB:10:LYS:C	20:AB:12:GLY:H	2.14	0.50
20:AB:95:TRP:CE3	20:AB:171:ALA:HA	2.46	0.50
23:BB:1080:A:O2'	23:BB:1081:U:H5'	2.10	0.50
23:BB:1112:G:C4'	29:BG:2:ARG:HG2	2.32	0.50
23:BB:1287:A:O2'	23:BB:1288:G:H5'	2.12	0.50
23:BB:1747:U:H2'	23:BB:1748:C:C6	2.47	0.50
23:BB:2097:A:H2'	23:BB:2098:U:H6	1.77	0.50
23:BB:2336:A:H61	43:BW:69:GLU:HG3	1.74	0.50
23:BB:2666:C:O4'	23:BB:2666:C:O2	2.25	0.50
23:BB:2756:U:OP2	51:B4:19:ARG:HD3	2.12	0.50
23:BB:2840:C:H2'	23:BB:2841:C:C6	2.46	0.50
23:BB:2860:A:H8	23:BB:2860:A:O5'	1.93	0.50
23:BB:2879:A:H4'	23:BB:2880:C:OP1	2.12	0.50
24:BV:26:PHE:HZ	24:BV:47:VAL:HB	1.77	0.50
25:BC:220:ARG:HG3	25:BC:220:ARG:NH1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:102:ILE:O	29:BG:113:ASP:HA	2.11	0.50
35:BN:52:ILE:HG21	35:BN:94:TYR:CE2	2.46	0.50
37:BP:55:HIS:O	37:BP:57:ALA:N	2.44	0.50
40:BS:24:ILE:O	40:BS:74:ILE:HD12	2.11	0.50
40:BS:29:VAL:CG2	40:BS:71:VAL:HG23	2.41	0.50
43:BW:65:LYS:O	43:BW:66:VAL:HB	2.12	0.50
45:BY:4:ILE:O	45:BY:5:LYS:HB2	2.12	0.50
1:CA:607:A:H2'	1:CA:608:A:C8	2.45	0.50
1:CA:894:G:O2'	1:CA:895:G:H5'	2.12	0.50
1:CA:932:C:H2'	1:CA:933:G:H8	1.75	0.50
3:CD:27:ILE:C	3:CD:29:THR:H	2.15	0.50
9:CJ:85:ASP:CG	9:CJ:89:ARG:HB2	2.31	0.50
10:CK:12:ARG:HD3	10:CK:13:LYS:HZ1	1.76	0.50
10:CK:88:PRO:CD	21:CU:28:LEU:HD13	2.33	0.50
22:DA:75:G:N1	22:DA:102:G:N2	2.60	0.50
23:DB:99:U:O2	23:DB:99:U:O4'	2.27	0.50
23:DB:291:G:O2'	23:DB:292:U:H5'	2.11	0.50
23:DB:636:G:OP2	33:DL:126:ARG:NH2	2.44	0.50
23:DB:1083:U:H2'	23:DB:1085:A:OP2	2.11	0.50
23:DB:1138:G:H2'	23:DB:1139:G:O4'	2.12	0.50
23:DB:1143:A:N6	31:DJ:27:ARG:HA	2.26	0.50
23:DB:1287:A:H3'	23:DB:1288:G:N2	2.26	0.50
23:DB:1820:U:H5	25:DC:176:ARG:HH21	1.58	0.50
23:DB:2314:A:H2'	23:DB:2315:G:H8	1.77	0.50
25:DC:76:VAL:O	25:DC:93:VAL:HA	2.11	0.50
25:DC:244:VAL:HG23	25:DC:249:VAL:HG21	1.93	0.50
26:DD:14:ILE:HD12	37:DP:78:PRO:CG	2.41	0.50
32:DK:110:GLU:HA	32:DK:113:MET:HE3	1.94	0.50
33:DL:54:GLN:HB2	33:DL:57:LEU:HD23	1.94	0.50
33:DL:108:ALA:O	33:DL:109:LYS:HD3	2.12	0.50
34:DM:2:LEU:HB2	34:DM:47:GLU:HG2	1.92	0.50
35:DN:42:LYS:HZ2	35:DN:45:ARG:HD2	1.77	0.50
43:DW:67:LYS:HE3	43:DW:71:LYS:H	1.77	0.50
46:DZ:11:GLU:H	46:DZ:27:THR:CG2	2.25	0.50
49:D2:34:ARG:HD2	49:D2:43:THR:OG1	2.12	0.50
1:AA:22:G:H4'	1:AA:885:G:C8	2.47	0.50
1:AA:546:A:H4'	1:AA:548:G:O3'	2.12	0.50
1:AA:693:G:H2'	1:AA:694:A:O4'	2.10	0.50
1:AA:969:A:N3	1:AA:970:C:O2	2.45	0.50
2:AC:186:SER:O	2:AC:197:VAL:HG12	2.11	0.50
6:AG:94:ARG:HD3	6:AG:98:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:88:PRO:HA	10:AK:92:ARG:HD2	1.93	0.50
10:AK:122:PRO:HG2	21:AU:35:GLU:HG2	1.93	0.50
14:AO:78:THR:HA	14:AO:81:ILE:CD1	2.42	0.50
20:AB:37:VAL:HG22	20:AB:38:HIS:H	1.76	0.50
21:AU:29:ALA:HB1	21:AU:32:ARG:NH2	2.10	0.50
23:BB:37:C:O2'	27:BE:47:LYS:HG3	2.12	0.50
23:BB:207:A:H2'	23:BB:208:C:O4'	2.12	0.50
23:BB:224:U:O4	23:BB:420:C:H5'	2.12	0.50
23:BB:584:C:OP2	38:BQ:5:ARG:HB2	2.11	0.50
23:BB:643:A:C6	48:B1:42:VAL:HG22	2.46	0.50
23:BB:685:A:H1'	23:BB:688:U:O4	2.12	0.50
23:BB:827:U:H5'	23:BB:828:U:O5'	2.12	0.50
23:BB:1317:G:H2'	23:BB:1318:U:O4'	2.11	0.50
23:BB:1547:C:H2'	23:BB:1548:A:H8	1.75	0.50
23:BB:1564:C:O2'	23:BB:1565:C:H5'	2.10	0.50
23:BB:2820:A:H4'	35:BN:4:ARG:H	1.76	0.50
25:BC:136:VAL:O	25:BC:163:ILE:HB	2.12	0.50
26:BD:98:VAL:HA	26:BD:101:PHE:CZ	2.46	0.50
28:BF:97:GLU:O	28:BF:100:GLU:HG3	2.11	0.50
28:BF:109:ARG:CB	28:BF:136:ILE:HG13	2.41	0.50
28:BF:128:SER:HA	28:BF:154:THR:HG23	1.94	0.50
30:BH:57:LYS:HG3	30:BH:61:VAL:CG2	2.40	0.50
30:BH:83:LYS:HB2	30:BH:92:GLY:N	2.27	0.50
33:BL:116:VAL:HG12	33:BL:117:THR:H	1.75	0.50
34:BM:95:LEU:HD22	34:BM:98:PRO:HG3	1.94	0.50
37:BP:8:GLU:N	37:BP:8:GLU:OE1	2.45	0.50
39:BR:72:VAL:HG23	39:BR:73:LYS:N	2.27	0.50
42:BU:47:PRO:O	42:BU:49:PRO:HD3	2.11	0.50
52:BI:77:VAL:HA	52:BI:80:LYS:HE3	1.92	0.50
1:CA:1128:C:H4'	1:CA:1148:U:O2	2.11	0.50
1:CA:1438:G:O2'	1:CA:1439:G:H5'	2.11	0.50
2:CC:53:ARG:HG3	2:CC:113:LYS:HD3	1.93	0.50
2:CC:89:VAL:HG23	2:CC:90:VAL:N	2.26	0.50
2:CC:190:THR:HG22	2:CC:191:THR:H	1.76	0.50
13:CN:40:ARG:NH1	18:CS:6:LYS:H	2.10	0.50
15:CP:57:ILE:HD11	15:CP:75:ILE:HD11	1.93	0.50
18:CS:24:SER:HB2	18:CS:27:LYS:HZ1	1.77	0.50
23:DB:345:A:H1'	23:DB:346:A:H2	1.74	0.50
23:DB:359:G:C2'	23:DB:360:U:H5'	2.41	0.50
23:DB:919:U:O5'	23:DB:919:U:H6	1.95	0.50
23:DB:2140:G:H2'	23:DB:2141:G:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2511:U:H2'	23:DB:2512:C:O4'	2.11	0.50
23:DB:2657:A:H2'	23:DB:2658:C:O4'	2.12	0.50
26:DD:32:ASN:HD22	26:DD:94:GLN:HA	1.77	0.50
26:DD:116:LYS:HB2	26:DD:165:MET:CG	2.39	0.50
26:DD:157:LYS:NZ	31:DJ:80:HIS:HA	2.26	0.50
29:DG:102:ILE:HG22	29:DG:114:HIS:O	2.12	0.50
29:DG:175:LYS:HG2	29:DG:176:LYS:N	2.23	0.50
30:DH:46:PHE:O	30:DH:49:ALA:HB3	2.11	0.50
30:DH:115:VAL:HB	30:DH:132:PHE:CD1	2.44	0.50
31:DJ:25:LEU:HD13	31:DJ:25:LEU:N	2.26	0.50
31:DJ:78:THR:OG1	31:DJ:79:GLY:N	2.44	0.50
33:DL:124:GLY:H	33:DL:142:ILE:HB	1.76	0.50
34:DM:107:GLY:O	34:DM:109:PRO:HD2	2.12	0.50
35:DN:97:ILE:HG23	35:DN:113:ILE:CD1	2.41	0.50
37:DP:25:VAL:C	37:DP:27:VAL:H	2.14	0.50
37:DP:92:ARG:HD3	37:DP:110:LYS:O	2.12	0.50
42:DU:9:GLU:HB2	42:DU:71:ILE:CB	2.33	0.50
44:DX:27:ASN:C	44:DX:29:ARG:H	2.15	0.50
47:D0:42:ILE:O	47:D0:46:GLY:N	2.45	0.50
51:D4:26:ILE:HB	51:D4:35:GLN:HB2	1.92	0.50
52:DI:72:THR:HG23	52:DI:112:LYS:HD2	1.93	0.50
1:AA:33:A:H2'	1:AA:34:C:H6	1.77	0.50
1:AA:633:G:H2'	1:AA:634:C:C6	2.47	0.50
1:AA:838:G:H2'	1:AA:839:C:O4'	2.11	0.50
1:AA:840:C:C2	1:AA:842:U:H4'	2.47	0.50
1:AA:1101:A:N7	20:AB:170:ILE:HD12	2.26	0.50
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.76	0.50
1:AA:1452:C:H5'	1:AA:1453:G:C4	2.47	0.50
2:AC:141:MET:CE	2:AC:147:GLY:H	2.23	0.50
4:AE:92:ARG:HB3	4:AE:127:TYR:HB2	1.94	0.50
4:AE:155:LYS:HE3	7:AH:70:VAL:HG13	1.94	0.50
7:AH:8:ASP:OD2	7:AH:12:ARG:HD2	2.11	0.50
23:BB:62:U:H3'	23:BB:63:A:C8	2.44	0.50
23:BB:440:C:H2'	23:BB:441:U:H6	1.77	0.50
23:BB:584:C:OP2	38:BQ:5:ARG:HD3	2.12	0.50
23:BB:704:G:C2'	23:BB:726:G:H22	2.20	0.50
23:BB:1180:U:O2'	23:BB:1181:U:H5'	2.11	0.50
23:BB:1289:C:H2'	23:BB:1290:C:C6	2.46	0.50
23:BB:1676:A:H1'	26:BD:134:HIS:HB3	1.94	0.50
23:BB:1843:C:H5''	25:BC:252:LYS:HZ1	1.77	0.50
23:BB:2076:U:O4'	23:BB:2076:U:O2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2751:G:P	29:BG:3:VAL:HG13	2.51	0.50
23:BB:2874:C:H2'	23:BB:2875:C:C6	2.46	0.50
25:BC:71:ASP:C	25:BC:73:ILE:HD12	2.31	0.50
27:BE:176:ASP:OD1	27:BE:178:VAL:HG22	2.11	0.50
30:BH:81:ALA:CB	30:BH:147:VAL:H	2.24	0.50
31:BJ:13:ARG:NH1	31:BJ:13:ARG:HG3	2.26	0.50
33:BL:27:LEU:C	33:BL:29:LYS:N	2.62	0.50
33:BL:77:ILE:CD1	33:BL:92:LEU:HD22	2.41	0.50
38:BQ:112:ALA:HA	38:BQ:115:ALA:HB3	1.94	0.50
39:BR:33:VAL:O	39:BR:34:GLU:HB2	2.12	0.50
39:BR:65:ALA:O	39:BR:66:HIS:HB2	2.11	0.50
41:BT:9:LYS:HE3	44:BX:22:LEU:HD21	1.93	0.50
41:BT:33:LYS:HE3	41:BT:80:TRP:NE1	2.26	0.50
43:BW:16:GLU:N	43:BW:18:LYS:NZ	2.60	0.50
46:BZ:19:GLY:O	46:BZ:20:ASN:HB2	2.11	0.50
51:B4:22:VAL:HG11	51:B4:36:ARG:HE	1.75	0.50
1:CA:205:A:H2'	1:CA:206:C:C6	2.44	0.50
1:CA:746:A:H2'	1:CA:747:A:C8	2.46	0.50
1:CA:769:G:O2'	1:CA:770:C:H5'	2.12	0.50
1:CA:857:C:H2'	1:CA:858:G:O4'	2.10	0.50
1:CA:1157:A:H5'	1:CA:1158:C:C6	2.47	0.50
1:CA:1251:A:O2'	1:CA:1252:A:H5'	2.11	0.50
1:CA:1478:U:H2'	1:CA:1479:C:C6	2.46	0.50
8:CI:94:ARG:HB3	8:CI:98:ARG:HE	1.76	0.50
10:CK:17:ASP:OD1	10:CK:36:ARG:HG3	2.11	0.50
21:CU:36:PHE:O	21:CU:38:GLU:N	2.44	0.50
23:DB:274:C:H2'	23:DB:275:C:O4'	2.12	0.50
23:DB:437:U:O2'	23:DB:438:G:H5'	2.11	0.50
23:DB:1334:G:O2'	23:DB:1335:C:H5'	2.12	0.50
23:DB:1444:G:H2'	23:DB:1445:G:H8	1.75	0.50
23:DB:1560:G:H2'	23:DB:1561:C:C6	2.47	0.50
23:DB:1889:A:H2'	23:DB:1890:A:C8	2.47	0.50
23:DB:2636:C:H2'	23:DB:2637:U:C6	2.46	0.50
23:DB:2800:A:H2'	23:DB:2801:G:C1'	2.42	0.50
23:DB:2885:G:O6	47:D0:30:ASP:HB3	2.12	0.50
25:DC:43:ASN:OD1	25:DC:51:ARG:HD3	2.12	0.50
25:DC:50:THR:C	25:DC:51:ARG:HG3	2.32	0.50
25:DC:115:ILE:O	25:DC:116:GLN:HG3	2.12	0.50
26:DD:15:PHE:O	26:DD:16:THR:HG22	2.12	0.50
26:DD:173:GLN:HG3	26:DD:208:LYS:CB	2.42	0.50
32:DK:41:ILE:HG23	32:DK:42:THR:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:34:GLY:HA3	39:DR:85:LYS:CD	2.41	0.50
34:DM:93:VAL:O	34:DM:94:ALA:HB3	2.12	0.50
37:DP:52:ARG:CB	37:DP:60:VAL:HG11	2.42	0.50
37:DP:86:LYS:NZ	37:DP:88:ARG:HD3	2.26	0.50
42:DU:94:PHE:CD2	42:DU:100:GLU:HG2	2.47	0.50
47:D0:41:HIS:HB3	47:D0:47:TYR:H	1.77	0.50
51:D4:30:GLU:O	51:D4:32:LYS:N	2.45	0.50
1:AA:218:U:H2'	1:AA:219:U:H6	1.77	0.50
1:AA:1110:A:C2'	1:AA:1111:A:H5'	2.42	0.50
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.47	0.50
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.46	0.50
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.46	0.50
2:AC:154:GLY:HA2	2:AC:163:ARG:H	1.77	0.50
3:AD:2:ARG:O	3:AD:3:TYR:HB2	2.11	0.50
3:AD:112:GLU:OE2	3:AD:153:ARG:HD3	2.11	0.50
4:AE:89:THR:HG21	4:AE:134:ASN:ND2	2.27	0.50
5:AF:39:LEU:HD13	5:AF:40:GLU:H	1.77	0.50
8:AI:56:MET:HA	8:AI:59:LYS:HZ1	1.76	0.50
10:AK:110:THR:CG2	21:AU:4:LYS:HD2	2.40	0.50
20:AB:132:GLU:O	20:AB:136:ARG:HG3	2.11	0.50
23:BB:866:A:H61	23:BB:913:U:H4'	1.77	0.50
23:BB:1494:A:H2'	23:BB:1495:A:C8	2.46	0.50
23:BB:1591:A:H2'	23:BB:1592:C:C6	2.47	0.50
23:BB:1909:C:H2'	23:BB:1910:G:H8	1.76	0.50
23:BB:1999:C:O2'	23:BB:2000:C:H5'	2.11	0.50
23:BB:2073:C:O2'	23:BB:2074:U:H5'	2.11	0.50
23:BB:2297:A:N6	23:BB:2319:G:H3'	2.26	0.50
23:BB:2645:G:H4'	23:BB:2732:G:H2'	1.92	0.50
23:BB:2659:G:OP1	29:BG:157:LYS:HE2	2.12	0.50
23:BB:2729:G:H2'	23:BB:2730:C:H6	1.75	0.50
23:BB:2803:G:H2'	23:BB:2804:U:H6	1.76	0.50
25:BC:115:ILE:HG23	25:BC:126:GLY:O	2.12	0.50
26:BD:38:LYS:HG2	26:BD:39:ASP:N	2.19	0.50
26:BD:120:GLY:HA2	26:BD:162:ALA:HA	1.93	0.50
26:BD:142:VAL:O	26:BD:144:GLY:N	2.44	0.50
31:BJ:78:THR:HB	31:BJ:80:HIS:HD2	1.76	0.50
34:BM:34:LYS:HD3	34:BM:98:PRO:O	2.12	0.50
34:BM:65:ILE:HA	34:BM:101:VAL:HA	1.94	0.50
34:BM:71:LYS:C	34:BM:71:LYS:HD2	2.32	0.50
35:BN:22:ARG:HE	35:BN:69:ARG:HE	1.59	0.50
39:BR:3:ALA:HB3	39:BR:14:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:39:LEU:HD12	39:BR:60:LYS:N	2.26	0.50
40:BS:33:LEU:O	40:BS:35:ILE:N	2.45	0.50
42:BU:25:LYS:CG	42:BU:35:VAL:HA	2.42	0.50
42:BU:52:ASN:O	42:BU:54:PRO:HD3	2.11	0.50
43:BW:49:ASN:O	43:BW:50:VAL:HB	2.11	0.50
1:CA:237:G:O2'	1:CA:238:A:H5'	2.12	0.50
1:CA:300:A:H2'	1:CA:301:G:O4'	2.11	0.50
1:CA:751:U:H2'	1:CA:752:G:O4'	2.11	0.50
1:CA:940:C:H2'	1:CA:941:G:H8	1.77	0.50
1:CA:1003:G:N2	1:CA:1005:A:H5'	2.23	0.50
1:CA:1107:C:H4'	2:CC:172:VAL:HG23	1.92	0.50
1:CA:1250:A:H5''	8:CI:69:GLY:N	2.26	0.50
3:CD:37:PRO:HD2	3:CD:41:GLY:CA	2.41	0.50
3:CD:97:LEU:CB	3:CD:134:TYR:HB3	2.40	0.50
3:CD:130:ASN:HD22	3:CD:130:ASN:N	2.07	0.50
7:CH:77:VAL:O	7:CH:84:ILE:HD12	2.12	0.50
8:CI:10:ARG:HA	8:CI:14:SER:O	2.12	0.50
8:CI:30:ASN:HD21	8:CI:66:VAL:N	2.09	0.50
12:CM:52:ILE:HG13	12:CM:56:ARG:NH2	2.15	0.50
23:DB:153:U:H2'	23:DB:154:U:C6	2.46	0.50
23:DB:171:U:H2'	23:DB:172:A:H8	1.75	0.50
23:DB:466:A:H2'	23:DB:467:G:H5'	1.93	0.50
23:DB:521:U:H2'	23:DB:522:A:H8	1.75	0.50
23:DB:528:A:C2	23:DB:2042:A:H2'	2.47	0.50
23:DB:547:A:H62	23:DB:548:G:H21	1.59	0.50
23:DB:1006:C:H4'	31:DJ:34:ARG:HG3	1.93	0.50
23:DB:1300:G:H4'	23:DB:1301:A:O5'	2.11	0.50
23:DB:1739:A:H2'	23:DB:1740:G:C8	2.47	0.50
23:DB:2207:C:H2'	23:DB:2208:C:H6	1.77	0.50
23:DB:2386:A:H4'	43:DW:38:ARG:HD3	1.93	0.50
23:DB:2698:U:H2'	23:DB:2699:C:C6	2.47	0.50
25:DC:28:PRO:HB2	25:DC:79:ARG:HE	1.76	0.50
27:DE:123:LYS:NZ	27:DE:158:PHE:HA	2.27	0.50
28:DF:98:PHE:HB2	28:DF:101:ARG:HE	1.77	0.50
30:DH:35:LYS:HB2	30:DH:35:LYS:NZ	2.27	0.50
30:DH:135:HIS:HB3	30:DH:138:VAL:HB	1.92	0.50
32:DK:99:ILE:CD1	32:DK:115:ILE:HG13	2.41	0.50
33:DL:110:VAL:HG23	33:DL:131:ALA:CB	2.41	0.50
34:DM:50:ARG:HH21	34:DM:101:VAL:HG22	1.74	0.50
35:DN:87:PHE:CD1	35:DN:90:ARG:HB2	2.46	0.50
36:DO:35:ILE:O	36:DO:35:ILE:HG13	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:31:VAL:HG23	41:DT:83:ALA:O	2.11	0.50
46:DZ:3:LYS:HZ3	46:DZ:29:GLY:HA3	1.76	0.50
47:D0:26:SER:HB2	47:D0:38:LEU:CD2	2.35	0.50
48:D1:46:VAL:HG22	48:D1:47:ILE:N	2.22	0.50
1:AA:235:C:H2'	1:AA:236:A:C8	2.47	0.50
1:AA:237:G:O2'	1:AA:238:A:H5'	2.11	0.50
1:AA:806:C:H2'	1:AA:807:A:H8	1.77	0.50
3:AD:11:SER:HB2	3:AD:20:LEU:HD11	1.92	0.50
5:AF:6:ILE:HB	5:AF:89:VAL:HB	1.93	0.50
5:AF:12:PRO:HG3	5:AF:54:LEU:HG	1.94	0.50
6:AG:103:ILE:O	6:AG:107:ALA:HB2	2.11	0.50
8:AI:11:ARG:O	8:AI:11:ARG:HG3	2.10	0.50
10:AK:49:SER:HA	10:AK:68:ARG:HH21	1.77	0.50
11:AL:20:VAL:HG22	11:AL:94:TYR:CE1	2.46	0.50
16:AQ:23:ALA:HB1	16:AQ:40:THR:HG23	1.94	0.50
17:AR:40:PRO:HD2	17:AR:43:ILE:HD11	1.94	0.50
22:BA:15:A:H1'	22:BA:109:A:C8	2.46	0.50
23:BB:65:U:H2'	23:BB:66:C:C6	2.46	0.50
23:BB:161:A:H62	23:BB:165:A:H61	1.58	0.50
23:BB:355:U:H2'	23:BB:356:G:H8	1.77	0.50
23:BB:559:G:H1'	38:BQ:55:GLN:HE22	1.76	0.50
23:BB:1025:G:OP1	23:BB:1025:G:H8	1.94	0.50
23:BB:1313:U:H4'	23:BB:1332:G:H4'	1.92	0.50
23:BB:1360:G:H2'	23:BB:1361:G:H5'	1.92	0.50
23:BB:1560:G:H2'	23:BB:1561:C:C6	2.47	0.50
23:BB:1797:G:OP1	25:BC:251:THR:HG23	2.11	0.50
23:BB:1821:A:H5'	25:BC:155:ARG:NH2	2.27	0.50
23:BB:2247:A:H3'	54:BB:3265:HOH:O	2.11	0.50
23:BB:2263:C:H2'	23:BB:2264:C:H6	1.77	0.50
23:BB:2285:C:H41	48:B1:24:LYS:NZ	2.09	0.50
27:BE:13:THR:HG22	27:BE:119:ILE:HD12	1.94	0.50
31:BJ:10:THR:CB	31:BJ:13:ARG:HH22	2.25	0.50
32:BK:40:LYS:HA	32:BK:59:LYS:HA	1.94	0.50
33:BL:108:ALA:O	33:BL:109:LYS:HB3	2.11	0.50
36:BO:34:HIS:N	36:BO:34:HIS:ND1	2.60	0.50
37:BP:61:ARG:CZ	37:BP:61:ARG:HB2	2.41	0.50
39:BR:18:GLN:HA	39:BR:99:THR:HA	1.93	0.50
40:BS:29:VAL:C	40:BS:31:GLN:H	2.15	0.50
41:BT:93:LEU:HD22	41:BT:93:LEU:N	2.25	0.50
42:BU:34:ILE:HG23	42:BU:61:GLU:HB2	1.94	0.50
42:BU:78:LYS:HB3	42:BU:96:LYS:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:10:ARG:HH11	43:BW:10:ARG:HB3	1.76	0.50
1:CA:214:C:H2'	1:CA:215:C:H6	1.76	0.50
1:CA:664:G:N2	1:CA:741:G:H1	2.03	0.50
3:CD:36:ALA:C	3:CD:38:GLY:H	2.14	0.50
5:CF:92:THR:HG22	5:CF:93:LYS:H	1.77	0.50
8:CI:9:GLY:HA2	8:CI:80:HIS:HB3	1.93	0.50
9:CJ:8:ILE:HG13	9:CJ:73:LEU:O	2.11	0.50
10:CK:92:ARG:HD3	21:CU:20:ARG:HH22	1.77	0.50
13:CN:65:GLN:HB3	13:CN:82:LYS:HG2	1.92	0.50
16:CQ:58:VAL:HB	16:CQ:74:LEU:HD23	1.94	0.50
20:CB:72:LYS:O	20:CB:74:ALA:N	2.44	0.50
20:CB:132:GLU:HG2	20:CB:135:MET:HE2	1.94	0.50
23:DB:11:C:H2'	23:DB:12:U:C5'	2.39	0.50
23:DB:96:C:OP1	44:DX:41:HIS:HB2	2.12	0.50
23:DB:241:A:O3'	23:DB:242:G:H4'	2.12	0.50
23:DB:1024:G:C3'	23:DB:1025:G:H5''	2.30	0.50
23:DB:1480:C:H2'	23:DB:1481:U:C6	2.47	0.50
23:DB:1599:U:H2'	23:DB:1600:C:H6	1.76	0.50
23:DB:1979:U:O2'	23:DB:1980:G:H5'	2.11	0.50
27:DE:15:SER:O	27:DE:17:THR:HG22	2.12	0.50
27:DE:28:VAL:O	27:DE:32:VAL:HG23	2.12	0.50
28:DF:56:LEU:HD13	28:DF:88:VAL:CG2	2.40	0.50
29:DG:37:ASN:N	29:DG:40:VAL:HG21	2.26	0.50
30:DH:3:VAL:CG1	30:DH:37:VAL:HG11	2.42	0.50
31:DJ:131:ASN:C	31:DJ:133:ALA:N	2.65	0.50
34:DM:62:LYS:H	34:DM:104:GLU:CB	2.25	0.50
35:DN:3:HIS:HB3	35:DN:4:ARG:NH1	2.26	0.50
44:DX:12:GLU:HG2	44:DX:12:GLU:O	2.11	0.50
1:AA:205:A:H2'	1:AA:206:C:C6	2.43	0.50
1:AA:413:G:O6	3:AD:32:LYS:HE3	2.11	0.50
1:AA:807:A:H2'	1:AA:808:C:C6	2.47	0.50
1:AA:1172:C:H2'	1:AA:1173:U:H6	1.76	0.50
1:AA:1372:U:OP1	8:AI:72:SER:HB2	2.12	0.50
3:AD:51:GLY:O	3:AD:55:ARG:HB2	2.12	0.50
3:AD:77:GLU:O	3:AD:81:LEU:HG	2.11	0.50
4:AE:110:MET:SD	4:AE:110:MET:N	2.85	0.50
5:AF:98:GLU:HG2	5:AF:99:ALA:H	1.76	0.50
9:AJ:67:ILE:HG12	13:AN:94:GLY:O	2.11	0.50
11:AL:54:VAL:HG12	11:AL:56:LEU:HD12	1.93	0.50
12:AM:13:HIS:O	12:AM:16:ILE:HG22	2.11	0.50
12:AM:106:ARG:HE	12:AM:112:ARG:CG	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:7:THR:CG2	14:AO:30:LEU:HD11	2.38	0.50
20:AB:59:ILE:HD12	20:AB:60:ALA:N	2.27	0.50
20:AB:218:ALA:HA	20:AB:221:ARG:HE	1.76	0.50
22:BA:113:C:H2'	22:BA:114:C:O4'	2.11	0.50
23:BB:121:G:H4'	23:BB:149:A:H5'	1.94	0.50
23:BB:540:C:H2'	23:BB:541:A:H8	1.77	0.50
23:BB:1076:C:H4'	52:BI:94:LYS:HE3	1.94	0.50
23:BB:1184:U:O2'	23:BB:1185:G:H5'	2.11	0.50
23:BB:1692:U:H2'	23:BB:1694:C:C5	2.47	0.50
23:BB:1939:U:O2	23:BB:1967:C:H4'	2.11	0.50
23:BB:2195:U:H2'	23:BB:2196:C:H6	1.76	0.50
23:BB:2276:G:OP2	34:BM:83:GLY:HA3	2.12	0.50
23:BB:2301:C:O2'	23:BB:2302:U:H5'	2.11	0.50
23:BB:2386:A:H2'	23:BB:2387:U:C6	2.47	0.50
23:BB:2686:G:H2'	23:BB:2687:U:C6	2.47	0.50
25:BC:128:THR:CA	25:BC:190:THR:HA	2.39	0.50
25:BC:164:VAL:HG12	25:BC:164:VAL:O	2.12	0.50
27:BE:173:THR:O	27:BE:175:ILE:HG22	2.12	0.50
29:BG:51:PHE:HE2	29:BG:63:GLN:HE21	1.60	0.50
31:BJ:20:ALA:HB2	31:BJ:56:VAL:HG13	1.93	0.50
33:BL:63:LYS:N	50:B3:24:LYS:NZ	2.56	0.50
43:BW:36:ILE:HG21	43:BW:68:PHE:CD2	2.46	0.50
46:BZ:32:LEU:O	46:BZ:46:GLY:HA2	2.12	0.50
48:B1:34:GLU:N	48:B1:52:LYS:O	2.45	0.50
1:CA:15:G:N3	4:CE:23:THR:HG21	2.27	0.50
1:CA:167:A:O2'	1:CA:168:G:H5'	2.12	0.50
1:CA:890:G:O2'	1:CA:906:A:N6	2.45	0.50
1:CA:1163:A:H2'	1:CA:1164:G:H8	1.76	0.50
1:CA:1471:U:O2'	1:CA:1472:U:H5'	2.12	0.50
1:CA:1527:U:OP2	21:CU:38:GLU:HG3	2.11	0.50
3:CD:37:PRO:HD2	3:CD:41:GLY:HA3	1.94	0.50
11:CL:13:ARG:O	11:CL:14:LYS:HB3	2.11	0.50
16:CQ:13:SER:HB3	16:CQ:21:VAL:CB	2.34	0.50
16:CQ:74:LEU:HD22	16:CQ:75:VAL:H	1.76	0.50
20:CB:13:VAL:HG11	20:CB:207:ARG:HB3	1.94	0.50
23:DB:581:C:H2'	23:DB:582:A:C8	2.47	0.50
23:DB:1654:A:C4'	35:DN:1:MET:N	2.73	0.50
23:DB:2730:C:H4'	26:DD:174:SER:O	2.11	0.50
23:DB:2734:A:C2'	23:DB:2735:G:H5'	2.42	0.50
25:DC:164:VAL:O	25:DC:165:ALA:HB3	2.12	0.50
26:DD:1:MET:HB2	26:DD:81:GLU:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:148:GLN:CD	26:DD:148:GLN:N	2.65	0.50
26:DD:173:GLN:HE21	26:DD:208:LYS:HB2	1.77	0.50
27:DE:4:VAL:HA	27:DE:14:VAL:CG2	2.40	0.50
28:DF:103:ILE:HG21	28:DF:173:ASP:HA	1.93	0.50
28:DF:113:PHE:O	28:DF:114:ARG:HD3	2.12	0.50
35:DN:110:MET:O	35:DN:111:ALA:HB3	2.12	0.50
36:DO:90:VAL:HG22	36:DO:116:GLN:OE1	2.11	0.50
37:DP:112:ARG:H	37:DP:112:ARG:HE	1.60	0.50
39:DR:4:VAL:C	39:DR:41:ILE:HG21	2.32	0.50
39:DR:11:GLN:C	39:DR:21:ARG:HH22	2.15	0.50
42:DU:51:LEU:CG	42:DU:53:GLN:HB3	2.42	0.50
44:DX:17:GLU:HA	44:DX:21:LEU:CB	2.42	0.50
45:DY:1:ALA:CB	45:DY:37:ARG:HB3	2.42	0.50
49:D2:13:ASN:OD1	49:D2:17:GLY:HA3	2.12	0.50
1:AA:34:C:H2'	1:AA:35:G:C8	2.47	0.50
1:AA:98:A:H2'	1:AA:99:C:C6	2.47	0.50
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.12	0.50
5:AF:67:PRO:HG2	5:AF:70:VAL:HG22	1.92	0.50
16:AQ:18:LYS:HE3	16:AQ:48:GLU:HG2	1.93	0.50
18:AS:64:GLU:OE1	18:AS:65:MET:HG3	2.12	0.50
20:AB:9:LEU:HD11	20:AB:11:ALA:HB3	1.93	0.50
21:AU:37:TYR:C	21:AU:40:PRO:HD2	2.33	0.50
23:BB:156:A:H2'	23:BB:157:C:H6	1.76	0.50
23:BB:257:C:H2'	23:BB:258:G:O4'	2.12	0.50
23:BB:527:C:H4'	23:BB:527:C:OP1	2.10	0.50
23:BB:702:U:O2'	23:BB:703:U:H5'	2.12	0.50
23:BB:727:A:OP1	23:BB:1431:A:O2'	2.28	0.50
23:BB:1199:U:C1'	38:BQ:2:ARG:HB2	2.42	0.50
23:BB:1311:G:H21	23:BB:1603:A:H62	1.60	0.50
23:BB:1400:U:H2'	23:BB:1401:G:H8	1.77	0.50
23:BB:1541:C:H2'	23:BB:1542:U:C6	2.46	0.50
23:BB:1547:C:H2'	23:BB:1548:A:C8	2.47	0.50
23:BB:1656:C:H2'	23:BB:1657:U:H6	1.77	0.50
23:BB:1821:A:H5'	25:BC:155:ARG:HH21	1.76	0.50
23:BB:2192:U:H2'	23:BB:2193:G:O4'	2.12	0.50
23:BB:2247:A:O2'	23:BB:2248:C:H5'	2.12	0.50
23:BB:2441:U:O2'	23:BB:2442:C:H5'	2.12	0.50
25:BC:16:VAL:CA	25:BC:17:LYS:HE2	2.42	0.50
26:BD:16:THR:HG23	26:BD:17:GLU:N	2.21	0.50
26:BD:106:LYS:HZ1	26:BD:208:LYS:HD3	1.76	0.50
27:BE:6:LYS:HB2	27:BE:12:LEU:CD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:57:LYS:HA	27:BE:57:LYS:HE3	1.94	0.50
27:BE:141:MET:HG3	27:BE:143:LEU:HB2	1.93	0.50
28:BF:23:SER:C	28:BF:25:MET:H	2.14	0.50
30:BH:9:VAL:C	30:BH:11:ASN:H	2.14	0.50
33:BL:61:LEU:O	33:BL:62:PRO:O	2.29	0.50
34:BM:97:GLN:N	34:BM:98:PRO:CD	2.75	0.50
35:BN:45:ARG:HB2	35:BN:49:GLU:OE2	2.12	0.50
37:BP:31:VAL:HA	37:BP:81:ASP:HA	1.94	0.50
39:BR:39:LEU:HA	39:BR:60:LYS:O	2.12	0.50
40:BS:28:LYS:CB	40:BS:71:VAL:HB	2.42	0.50
41:BT:28:ASN:N	41:BT:28:ASN:ND2	2.58	0.50
41:BT:29:THR:HG22	41:BT:86:THR:HG22	1.94	0.50
46:BZ:35:ASP:C	46:BZ:42:PRO:HB3	2.32	0.50
52:BI:7:TYR:HB2	52:BI:59:THR:HA	1.93	0.50
1:CA:829:G:H4'	20:CB:24:PRO:HG3	1.93	0.50
1:CA:975:A:H61	9:CJ:50:THR:HB	1.77	0.50
1:CA:1023:U:H2'	1:CA:1024:G:C8	2.47	0.50
1:CA:1039:G:H2'	1:CA:1040:U:H6	1.77	0.50
2:CC:155:ARG:NH2	2:CC:160:GLU:HA	2.27	0.50
10:CK:121:ARG:HE	21:CU:34:ARG:HG2	1.77	0.50
16:CQ:13:SER:O	16:CQ:20:ILE:HG13	2.11	0.50
16:CQ:30:HIS:CE1	16:CQ:32:ILE:HG22	2.47	0.50
17:CR:58:ILE:O	17:CR:62:ARG:HG3	2.12	0.50
21:CU:19:LYS:C	21:CU:21:SER:H	2.15	0.50
23:DB:532:A:H5'	38:DQ:27:ARG:NH2	2.26	0.50
23:DB:729:G:H4'	23:DB:763:G:H5'	1.92	0.50
23:DB:1184:U:O2'	23:DB:1185:G:H5'	2.12	0.50
23:DB:1439:A:N7	23:DB:1440:U:C6	2.80	0.50
23:DB:1547:C:H2'	23:DB:1548:A:H8	1.75	0.50
23:DB:2261:C:H3'	43:DW:13:ARG:HD3	1.94	0.50
23:DB:2491:U:H5''	23:DB:2570:G:C5'	2.42	0.50
25:DC:156:SER:O	25:DC:194:VAL:O	2.30	0.50
26:DD:48:ILE:CA	26:DD:80:TRP:HB3	2.39	0.50
26:DD:96:ILE:HG22	26:DD:97:SER:H	1.76	0.50
26:DD:202:ILE:CG2	26:DD:204:LYS:HE3	2.41	0.50
27:DE:15:SER:HB3	27:DE:196:VAL:HG22	1.94	0.50
27:DE:154:ASP:OD2	27:DE:156:ASN:HB3	2.12	0.50
33:DL:77:ILE:HG12	33:DL:109:LYS:C	2.31	0.50
34:DM:35:ALA:HA	34:DM:124:LEU:HB3	1.93	0.50
34:DM:95:LEU:HD23	34:DM:95:LEU:H	1.76	0.50
35:DN:101:GLY:O	35:DN:102:PHE:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DO:41:ALA:HB3	36:DO:46:GLU:HA	1.93	0.50
37:DP:25:VAL:HG22	37:DP:89:GLY:O	2.12	0.50
40:DS:2:GLU:HB2	40:DS:108:SER:CA	2.40	0.50
40:DS:27:LYS:N	40:DS:70:LYS:O	2.45	0.50
41:DT:62:VAL:O	41:DT:63:VAL:HB	2.11	0.50
42:DU:39:ASN:CB	42:DU:59:GLU:HB2	2.42	0.50
44:DX:46:VAL:O	44:DX:49:ASP:HB3	2.11	0.50
49:D2:35:ARG:HH22	49:D2:43:THR:H	1.58	0.50
51:D4:14:CYS:HA	51:D4:27:CYS:HA	1.93	0.50
52:DI:4:VAL:HG22	52:DI:5:GLN:N	2.27	0.50
52:DI:89:SER:OG	52:DI:92:PRO:HA	2.12	0.50
1:AA:16:A:N1	1:AA:919:A:H2	2.10	0.49
1:AA:182:A:H1'	1:AA:183:C:C5	2.47	0.49
1:AA:971:G:OP1	1:AA:971:G:H3'	2.12	0.49
1:AA:1225:A:H4'	18:AS:77:ARG:HH22	1.75	0.49
2:AC:100:ILE:O	2:AC:100:ILE:HG23	2.11	0.49
4:AE:17:VAL:HA	4:AE:34:ALA:HA	1.93	0.49
11:AL:3:VAL:HG23	11:AL:4:ASN:OD1	2.11	0.49
11:AL:113:ARG:HA	11:AL:118:VAL:HG23	1.93	0.49
12:AM:89:ARG:NH1	12:AM:94:LEU:HD13	2.27	0.49
15:AP:5:ARG:H	15:AP:5:ARG:HD2	1.77	0.49
23:BB:295:G:O2'	23:BB:296:U:H5'	2.12	0.49
23:BB:671:C:H42	33:BL:39:LYS:HE3	1.76	0.49
23:BB:794:A:H2'	23:BB:795:C:H6	1.74	0.49
23:BB:988:A:OP2	45:BY:11:SER:HA	2.11	0.49
23:BB:1112:G:C5'	29:BG:2:ARG:HE	2.25	0.49
23:BB:1131:G:C1'	31:BJ:85:LYS:HZ1	2.25	0.49
23:BB:1255:U:C2'	27:BE:67:ARG:HB3	2.40	0.49
23:BB:1487:U:H2'	23:BB:1488:C:H6	1.75	0.49
23:BB:2258:C:OP2	43:BW:3:LYS:HG2	2.12	0.49
23:BB:2303:G:H2'	23:BB:2304:G:H5'	1.94	0.49
23:BB:2899:A:H2'	23:BB:2900:A:C8	2.47	0.49
24:BV:60:VAL:HG13	24:BV:72:VAL:O	2.12	0.49
26:BD:92:VAL:HG13	26:BD:93:GLY:N	2.23	0.49
26:BD:106:LYS:HA	26:BD:176:ASP:HA	1.93	0.49
27:BE:3:LEU:HB2	27:BE:12:LEU:HB2	1.94	0.49
29:BG:84:LYS:O	29:BG:132:LEU:HG	2.12	0.49
29:BG:154:GLU:OE1	29:BG:156:TYR:HB2	2.11	0.49
31:BJ:35:ARG:NH2	31:BJ:40:HIS:N	2.60	0.49
31:BJ:103:ILE:HG22	31:BJ:103:ILE:O	2.12	0.49
33:BL:82:LEU:HD12	33:BL:90:VAL:HG13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:67:VAL:CG2	34:BM:95:LEU:HD21	2.42	0.49
35:BN:9:GLN:HA	35:BN:17:ARG:NH1	2.27	0.49
35:BN:87:PHE:HB2	35:BN:94:TYR:CZ	2.47	0.49
47:B0:3:GLN:N	47:B0:3:GLN:NE2	2.60	0.49
48:B1:7:LYS:HD2	48:B1:8:ILE:O	2.12	0.49
49:B2:30:VAL:O	49:B2:33:ARG:HG3	2.11	0.49
1:CA:182:A:H1'	1:CA:183:C:C5	2.47	0.49
1:CA:840:C:C2'	1:CA:842:U:H5''	2.38	0.49
2:CC:108:PRO:C	2:CC:110:LEU:H	2.16	0.49
4:CE:149:PRO:HG2	4:CE:150:GLU:OE2	2.11	0.49
12:CM:95:PRO:HB2	12:CM:99:GLN:OE1	2.12	0.49
15:CP:22:ALA:HB2	15:CP:32:PHE:HA	1.93	0.49
15:CP:67:ILE:CG1	15:CP:71:VAL:HG13	2.40	0.49
16:CQ:25:GLU:HA	16:CQ:40:THR:HA	1.94	0.49
19:CT:54:GLN:N	19:CT:55:PRO:HD2	2.27	0.49
22:DA:43:C:C4'	28:DF:62:GLN:HE21	2.25	0.49
22:DA:78:A:H4'	34:DM:22:GLN:CD	2.32	0.49
23:DB:64:A:H5'	41:DT:76:ARG:NH1	2.11	0.49
23:DB:181:A:H2'	23:DB:182:A:C8	2.47	0.49
23:DB:311:A:H1'	23:DB:332:A:O4'	2.12	0.49
23:DB:1211:C:H4'	23:DB:1212:G:OP2	2.12	0.49
23:DB:1215:G:O2'	23:DB:1216:G:H5'	2.12	0.49
23:DB:1541:C:H2'	23:DB:1542:U:C6	2.47	0.49
23:DB:1750:G:H2'	23:DB:1751:U:C6	2.47	0.49
23:DB:1812:U:H2'	23:DB:1813:G:H8	1.77	0.49
23:DB:2512:C:H2'	23:DB:2513:A:O4'	2.11	0.49
23:DB:2531:A:OP1	29:DG:176:LYS:HA	2.11	0.49
26:DD:153:GLY:C	26:DD:155:VAL:N	2.64	0.49
28:DF:33:ILE:HG22	28:DF:34:THR:O	2.12	0.49
30:DH:1:MET:C	30:DH:21:VAL:HG22	2.33	0.49
30:DH:135:HIS:CG	30:DH:136:SER:N	2.79	0.49
37:DP:52:ARG:HA	37:DP:98:TYR:OH	2.11	0.49
37:DP:52:ARG:HG2	37:DP:53:GLY:N	2.27	0.49
37:DP:59:THR:HA	37:DP:76:HIS:HA	1.94	0.49
39:DR:69:GLY:CA	39:DR:97:LYS:H	2.19	0.49
40:DS:42:LYS:O	40:DS:45:VAL:HG13	2.12	0.49
41:DT:14:PRO:HA	41:DT:32:LEU:HD23	1.94	0.49
42:DU:42:LYS:H	42:DU:57:ILE:CD1	2.11	0.49
46:DZ:36:VAL:HG12	46:DZ:42:PRO:HB3	1.94	0.49
48:D1:22:THR:O	48:D1:23:THR:C	2.49	0.49
52:DI:92:PRO:O	52:DI:93:ASN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DI:108:ILE:HG22	52:DI:128:ILE:CD1	2.41	0.49
1:AA:370:C:O2'	1:AA:371:A:H5'	2.13	0.49
1:AA:677:U:H2'	1:AA:678:U:H6	1.77	0.49
1:AA:841:C:H3'	1:AA:843:U:OP2	2.11	0.49
2:AC:71:ARG:NH2	2:AC:74:ILE:HB	2.26	0.49
7:AH:29:SER:HB3	7:AH:32:LYS:HZ2	1.78	0.49
9:AJ:57:VAL:HG13	9:AJ:58:ASN:N	2.27	0.49
20:AB:114:LYS:HA	20:AB:117:GLU:OE1	2.12	0.49
23:BB:37:C:H2'	27:BE:46:GLN:HB3	1.94	0.49
23:BB:92:U:H2'	23:BB:93:G:O4'	2.12	0.49
23:BB:189:G:H2'	23:BB:205:G:H22	1.76	0.49
23:BB:689:A:H2'	23:BB:690:G:C8	2.47	0.49
23:BB:741:U:H2'	23:BB:742:A:C8	2.45	0.49
23:BB:1010:A:O2'	23:BB:1152:C:H1'	2.12	0.49
23:BB:1275:A:N3	23:BB:1275:A:C3'	2.75	0.49
23:BB:1562:U:H2'	23:BB:1563:U:C6	2.46	0.49
23:BB:2623:G:O2'	23:BB:2624:G:H5'	2.12	0.49
23:BB:2665:A:O2'	23:BB:2666:C:H5'	2.12	0.49
23:BB:2683:C:H2'	23:BB:2684:U:C6	2.47	0.49
25:BC:42:ARG:CG	25:BC:43:ASN:H	2.11	0.49
25:BC:248:GLY:HA3	25:BC:252:LYS:HE3	1.95	0.49
27:BE:43:THR:HG23	27:BE:44:ARG:CZ	2.42	0.49
29:BG:26:LYS:CA	29:BG:31:GLU:HG2	2.34	0.49
31:BJ:46:PRO:C	31:BJ:48:VAL:H	2.15	0.49
33:BL:133:ALA:HA	33:BL:136:GLU:OE2	2.12	0.49
35:BN:65:LEU:CD1	35:BN:68:ALA:HB3	2.42	0.49
40:BS:28:LYS:HB3	40:BS:71:VAL:CG2	2.43	0.49
40:BS:86:MET:HB2	40:BS:96:ILE:CD1	2.42	0.49
41:BT:29:THR:HG22	41:BT:86:THR:HA	1.94	0.49
42:BU:3:LYS:HB2	42:BU:3:LYS:NZ	2.28	0.49
42:BU:10:VAL:HG21	42:BU:25:LYS:HZ2	1.77	0.49
50:B3:11:LYS:HG2	50:B3:12:ARG:CG	2.39	0.49
51:B4:24:ARG:NH1	51:B4:36:ARG:HB2	2.24	0.49
1:CA:662:U:O2'	1:CA:836:G:H5''	2.12	0.49
1:CA:1131:G:C2'	1:CA:1132:C:H5'	2.42	0.49
2:CC:2:GLN:H	2:CC:2:GLN:HE21	1.61	0.49
3:CD:30:LYS:HB2	3:CD:30:LYS:NZ	2.27	0.49
3:CD:106:PHE:HD1	3:CD:158:LEU:HD21	1.76	0.49
7:CH:72:GLU:H	7:CH:129:ALA:HB2	1.76	0.49
14:CO:25:GLU:OE2	14:CO:76:ARG:HD3	2.11	0.49
20:CB:38:HIS:O	20:CB:39:ILE:HD13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CB:137:THR:HA	20:CB:140:LEU:CD1	2.42	0.49
21:CU:7:GLU:OE1	21:CU:11:PHE:HZ	1.95	0.49
23:DB:458:G:O2'	23:DB:469:G:N1	2.44	0.49
23:DB:651:G:H5'	50:D3:18:LYS:HE3	1.94	0.49
23:DB:685:A:H1'	23:DB:688:U:O4	2.12	0.49
23:DB:866:A:H61	23:DB:913:U:C1'	2.24	0.49
23:DB:910:A:H62	34:DM:15:GLY:HA3	1.78	0.49
23:DB:943:A:OP1	33:DL:41:ARG:HG2	2.12	0.49
23:DB:1311:G:H21	23:DB:1603:A:H62	1.60	0.49
23:DB:2032:G:N3	26:DD:150:GLN:HG2	2.27	0.49
23:DB:2076:U:O4'	23:DB:2076:U:O2	2.29	0.49
23:DB:2250:G:N2	23:DB:2496:C:H4'	2.27	0.49
23:DB:2461:A:H2'	23:DB:2462:C:H6	1.76	0.49
23:DB:2712:C:H3'	23:DB:2714:G:H5''	1.94	0.49
23:DB:2840:C:H2'	23:DB:2841:C:C6	2.47	0.49
23:DB:2900:A:H2'	23:DB:2901:C:H6	1.76	0.49
27:DE:47:LYS:C	27:DE:49:ARG:HG2	2.32	0.49
27:DE:199:MET:HG3	27:DE:200:LEU:H	1.77	0.49
31:DJ:49:ASP:O	31:DJ:50:THR:HB	2.12	0.49
31:DJ:51:GLY:N	31:DJ:118:MET:HE2	2.26	0.49
32:DK:63:VAL:HG22	32:DK:107:LEU:HD21	1.94	0.49
33:DL:115:GLU:C	33:DL:116:VAL:HG13	2.32	0.49
34:DM:40:ARG:NH1	34:DM:40:ARG:HG3	2.26	0.49
34:DM:127:LYS:HD3	34:DM:128:THR:N	2.25	0.49
39:DR:4:VAL:HA	39:DR:43:ASN:CG	2.32	0.49
39:DR:92:TRP:CE3	39:DR:93:PHE:N	2.80	0.49
41:DT:38:ALA:O	41:DT:42:GLU:HB3	2.13	0.49
42:DU:27:VAL:CB	42:DU:33:VAL:HG22	2.42	0.49
43:DW:47:GLY:HA2	43:DW:71:LYS:C	2.31	0.49
44:DX:41:HIS:CE1	44:DX:43:LEU:HB2	2.48	0.49
44:DX:55:THR:C	44:DX:57:LEU:H	2.14	0.49
46:DZ:66:ILE:HB	46:DZ:67:PRO:HD3	1.94	0.49
47:D0:32:THR:OG1	47:D0:33:SER:N	2.43	0.49
48:D1:24:LYS:HZ3	48:D1:24:LYS:CB	2.23	0.49
52:DI:52:LEU:HD22	52:DI:81:LYS:HD3	1.93	0.49
1:AA:16:A:H4'	4:AE:21:SER:H	1.76	0.49
1:AA:529:G:H22	11:AL:47:ALA:CB	2.24	0.49
1:AA:837:U:H2'	1:AA:838:G:H8	1.77	0.49
1:AA:1108:G:H5'	2:AC:175:HIS:CD2	2.47	0.49
2:AC:113:LYS:HG3	2:AC:117:ASP:OD2	2.13	0.49
2:AC:150:VAL:HG12	2:AC:151:GLU:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:84:ASN:HD22	3:AD:87:GLU:N	2.10	0.49
5:AF:100:SER:HA	17:AR:23:LYS:CE	2.42	0.49
8:AI:118:ARG:HH22	8:AI:122:ARG:NH2	2.10	0.49
15:AP:52:LEU:HG	15:AP:75:ILE:CG1	2.40	0.49
20:AB:150:ILE:HG13	20:AB:153:MET:CE	2.39	0.49
23:BB:589:U:H2'	23:BB:590:A:H8	1.76	0.49
23:BB:609:A:H2'	23:BB:610:C:O4'	2.12	0.49
23:BB:926:G:H2'	23:BB:927:A:C8	2.47	0.49
23:BB:2229:U:H2'	23:BB:2230:G:H8	1.75	0.49
23:BB:2398:U:H2'	23:BB:2399:G:H8	1.77	0.49
23:BB:2636:C:H2'	23:BB:2637:U:C6	2.47	0.49
23:BB:2700:A:H2'	23:BB:2701:U:H6	1.77	0.49
24:BV:6:ALA:HB3	24:BV:65:VAL:CG1	2.43	0.49
24:BV:21:ARG:NH2	24:BV:27:PRO:HG3	2.26	0.49
24:BV:78:GLN:HB2	24:BV:88:HIS:O	2.13	0.49
25:BC:242:HIS:N	25:BC:242:HIS:ND1	2.60	0.49
26:BD:13:ARG:HA	26:BD:13:ARG:NH1	2.27	0.49
26:BD:13:ARG:CZ	37:BP:8:GLU:HB3	2.43	0.49
26:BD:128:ARG:NE	26:BD:129:THR:O	2.45	0.49
29:BG:17:LYS:HB3	29:BG:24:THR:HG22	1.93	0.49
31:BJ:7:LYS:HD3	31:BJ:48:VAL:CB	2.39	0.49
32:BK:108:ARG:HH21	37:BP:36:LYS:HG3	1.77	0.49
33:BL:125:LEU:C	33:BL:126:ARG:HG3	2.31	0.49
33:BL:125:LEU:HA	33:BL:142:ILE:O	2.11	0.49
34:BM:8:LYS:HE2	34:BM:8:LYS:N	2.27	0.49
36:BO:1:MET:CG	36:BO:2:ASP:N	2.73	0.49
37:BP:45:VAL:HG21	37:BP:73:PHE:HD1	1.77	0.49
39:BR:42:ALA:HA	39:BR:54:VAL:HG13	1.94	0.49
40:BS:32:ALA:HA	40:BS:51:LEU:HD11	1.94	0.49
40:BS:47:VAL:O	40:BS:51:LEU:HB2	2.13	0.49
44:BX:12:GLU:HB2	44:BX:14:LEU:HD12	1.93	0.49
44:BX:59:GLU:C	44:BX:61:ALA:H	2.15	0.49
45:BY:8:GLN:O	45:BY:55:LYS:HE2	2.12	0.49
46:BZ:48:GLN:H	46:BZ:51:VAL:HB	1.78	0.49
47:B0:28:SER:O	47:B0:36:LYS:HB2	2.13	0.49
50:B3:3:ILE:N	50:B3:3:ILE:HD13	2.27	0.49
50:B3:41:ARG:HB3	50:B3:43:LEU:CD2	2.42	0.49
1:CA:83:C:H4'	1:CA:83:C:OP1	2.11	0.49
1:CA:309:A:H2'	1:CA:310:G:H8	1.77	0.49
1:CA:880:C:P	11:CL:4:ASN:HD22	2.36	0.49
1:CA:919:A:O2'	1:CA:920:U:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:930:C:H2'	1:CA:931:C:C6	2.47	0.49
1:CA:961:U:O2	1:CA:961:U:O4'	2.29	0.49
1:CA:1060:U:C5'	9:CJ:53:ILE:HG12	2.41	0.49
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.77	0.49
2:CC:85:LYS:HG3	2:CC:86:LEU:HD23	1.93	0.49
3:CD:59:LYS:O	3:CD:63:ILE:HG22	2.12	0.49
6:CG:90:VAL:HG13	6:CG:94:ARG:HD3	1.93	0.49
10:CK:24:ALA:HB2	10:CK:29:THR:HG23	1.93	0.49
12:CM:84:CYS:O	12:CM:88:LEU:HG	2.12	0.49
20:CB:57:ASN:ND2	20:CB:223:GLY:HA2	2.28	0.49
21:CU:16:ARG:HB3	21:CU:20:ARG:HD3	1.95	0.49
22:DA:94:A:OP1	24:DV:19:ARG:HD3	2.10	0.49
23:DB:506:G:H4'	23:DB:509:C:O2	2.12	0.49
23:DB:1098:A:C2'	52:DI:3:LYS:O	2.53	0.49
23:DB:1100:C:H41	52:DI:1:ALA:H1	1.60	0.49
23:DB:2278:A:H62	43:DW:10:ARG:C	2.16	0.49
23:DB:2393:U:O2'	23:DB:2394:C:H5'	2.12	0.49
23:DB:2879:A:H4'	23:DB:2880:C:OP1	2.11	0.49
23:DB:2888:C:H2'	23:DB:2889:C:H6	1.76	0.49
26:DD:1:MET:HB2	26:DD:81:GLU:CD	2.33	0.49
26:DD:154:LYS:C	26:DD:156:PHE:H	2.16	0.49
26:DD:154:LYS:O	26:DD:156:PHE:N	2.45	0.49
26:DD:172:VAL:O	26:DD:173:GLN:HB3	2.12	0.49
29:DG:168:VAL:O	29:DG:168:VAL:HG13	2.12	0.49
30:DH:4:ILE:CD1	30:DH:37:VAL:HG13	2.42	0.49
30:DH:72:ILE:HG22	30:DH:72:ILE:O	2.12	0.49
30:DH:109:GLU:O	30:DH:109:GLU:HG3	2.12	0.49
31:DJ:25:LEU:HD11	31:DJ:63:ALA:H	1.77	0.49
33:DL:64:PHE:CZ	50:D3:7:ARG:NH2	2.80	0.49
34:DM:24:THR:HG22	34:DM:25:ASP:N	2.27	0.49
35:DN:10:LEU:HG	35:DN:11:ASN:H	1.76	0.49
36:DO:25:ARG:HB3	36:DO:94:ARG:HH22	1.77	0.49
37:DP:54:LEU:HD22	37:DP:55:HIS:N	2.28	0.49
38:DQ:32:ARG:NH1	38:DQ:33:VAL:HG22	2.27	0.49
41:DT:47:VAL:HG22	41:DT:53:VAL:HG11	1.94	0.49
41:DT:53:VAL:HB	41:DT:87:LEU:HD21	1.93	0.49
42:DU:46:LYS:HD3	42:DU:53:GLN:HA	1.94	0.49
45:DY:7:THR:HA	45:DY:34:THR:HB	1.93	0.49
1:AA:90:C:H2'	1:AA:91:U:C6	2.46	0.49
1:AA:110:C:H2'	1:AA:111:G:O4'	2.12	0.49
1:AA:600:A:H2'	1:AA:601:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:685:G:O2'	1:AA:686:U:H5'	2.12	0.49
1:AA:1007:U:H2'	1:AA:1008:U:H6	1.77	0.49
2:AC:71:ARG:O	2:AC:74:ILE:HG22	2.11	0.49
6:AG:125:ASP:HB3	6:AG:130:LYS:CB	2.27	0.49
7:AH:10:LEU:HA	7:AH:74:ILE:HD11	1.95	0.49
12:AM:10:ASP:HA	12:AM:44:ILE:CD1	2.41	0.49
12:AM:78:ARG:HH12	18:AS:64:GLU:HG2	1.76	0.49
18:AS:12:LEU:O	18:AS:15:LEU:HB3	2.13	0.49
20:AB:107:ARG:HA	20:AB:110:ILE:CD1	2.42	0.49
23:BB:19:A:H2'	23:BB:20:C:H6	1.78	0.49
23:BB:323:C:H6	27:BE:164:LEU:HB3	1.77	0.49
23:BB:716:A:H2'	23:BB:717:C:O4'	2.11	0.49
23:BB:811:U:OP2	33:BL:31:GLY:HA2	2.13	0.49
23:BB:817:C:O2'	23:BB:839:U:H5''	2.12	0.49
23:BB:922:C:H2'	23:BB:923:G:H8	1.77	0.49
23:BB:1009:A:O2'	38:BQ:61:ILE:HD11	2.13	0.49
23:BB:1019:U:H2'	23:BB:1020:A:C8	2.47	0.49
23:BB:1230:A:H2'	23:BB:1231:U:H6	1.77	0.49
23:BB:1751:U:H2'	23:BB:1752:C:C6	2.47	0.49
23:BB:1917:U:H2'	23:BB:1918:A:H5'	1.93	0.49
23:BB:2196:C:O2'	23:BB:2197:U:H5'	2.12	0.49
23:BB:2322:A:N6	23:BB:2333:A:H62	2.10	0.49
23:BB:2465:C:O2'	23:BB:2466:C:H5'	2.11	0.49
23:BB:2484:G:H4'	34:BM:45:GLN:OE1	2.12	0.49
23:BB:2712:C:H2'	23:BB:2714:G:O3'	2.12	0.49
23:BB:2888:C:H2'	23:BB:2889:C:H6	1.76	0.49
25:BC:131:MET:O	25:BC:134:ILE:HB	2.13	0.49
25:BC:172:THR:O	25:BC:173:LEU:CB	2.60	0.49
26:BD:34:VAL:CG2	26:BD:93:GLY:HA3	2.42	0.49
26:BD:62:LYS:HE3	26:BD:62:LYS:N	2.27	0.49
26:BD:148:GLN:HB2	26:BD:151:THR:HG23	1.95	0.49
26:BD:170:VAL:HG22	26:BD:171:THR:N	2.27	0.49
28:BF:65:LEU:HD23	28:BF:87:LYS:HD2	1.94	0.49
30:BH:51:ARG:O	30:BH:54:LEU:HB2	2.12	0.49
33:BL:79:LEU:HD12	33:BL:79:LEU:N	2.27	0.49
33:BL:117:THR:OG1	33:BL:118:THR:N	2.45	0.49
34:BM:65:ILE:HG22	34:BM:101:VAL:HG12	1.94	0.49
38:BQ:92:LYS:O	38:BQ:94:LEU:HD22	2.11	0.49
48:B1:33:LEU:N	48:B1:52:LYS:HB3	2.27	0.49
49:B2:25:LYS:HE3	49:B2:25:LYS:N	2.28	0.49
1:CA:272:C:H2'	1:CA:273:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1244:G:H2'	1:CA:1245:C:H6	1.77	0.49
2:CC:2:GLN:HE21	2:CC:2:GLN:N	2.10	0.49
3:CD:89:LEU:HA	3:CD:92:LEU:HB2	1.93	0.49
6:CG:108:ARG:HA	6:CG:118:ARG:HE	1.77	0.49
13:CN:16:ALA:O	13:CN:20:PHE:N	2.46	0.49
15:CP:54:LEU:HA	15:CP:57:ILE:CG2	2.42	0.49
15:CP:57:ILE:C	15:CP:57:ILE:HD13	2.33	0.49
16:CQ:18:LYS:HA	16:CQ:47:ASP:O	2.13	0.49
18:CS:15:LEU:HA	18:CS:18:VAL:CG1	2.37	0.49
20:CB:55:GLU:HG3	20:CB:197:PHE:HZ	1.77	0.49
20:CB:111:LYS:O	20:CB:114:LYS:HB3	2.11	0.49
21:CU:3:ILE:HB	21:CU:18:PHE:CD2	2.48	0.49
23:DB:288:U:H2'	23:DB:289:G:H8	1.77	0.49
23:DB:483:A:H2'	23:DB:484:C:C5'	2.42	0.49
23:DB:609:A:H2'	23:DB:610:C:O4'	2.13	0.49
23:DB:643:A:H61	23:DB:2370:G:H1'	1.77	0.49
23:DB:679:C:O2'	23:DB:680:C:H5'	2.12	0.49
23:DB:737:C:O2'	23:DB:738:G:H5'	2.11	0.49
23:DB:1313:U:H4'	23:DB:1332:G:H4'	1.94	0.49
23:DB:1661:G:O2'	23:DB:1662:U:H5'	2.13	0.49
23:DB:1857:G:HO2'	23:DB:1858:A:H8	1.57	0.49
26:DD:59:ARG:HE	26:DD:63:PRO:CB	2.25	0.49
27:DE:116:ASP:O	27:DE:117:ARG:HD2	2.13	0.49
31:DJ:47:HIS:ND1	31:DJ:47:HIS:O	2.46	0.49
31:DJ:120:ARG:N	31:DJ:121:LYS:HZ2	2.10	0.49
33:DL:118:THR:HG23	33:DL:137:ALA:O	2.12	0.49
34:DM:50:ARG:NE	34:DM:53:MET:HE2	2.27	0.49
43:DW:45:HIS:HB2	43:DW:66:VAL:HG11	1.93	0.49
46:DZ:1:MET:HA	46:DZ:9:TYR:CD1	2.46	0.49
46:DZ:54:GLY:O	46:DZ:57:VAL:HB	2.12	0.49
1:AA:909:A:H2'	1:AA:910:C:O4'	2.11	0.49
1:AA:1432:G:OP1	37:BP:105:LYS:HB2	2.12	0.49
2:AC:115:VAL:CG1	2:AC:137:VAL:HG13	2.43	0.49
23:BB:15:G:H2'	23:BB:16:C:H6	1.76	0.49
23:BB:95:A:H4'	44:BX:40:SER:CB	2.40	0.49
23:BB:235:U:H2'	23:BB:236:C:C6	2.47	0.49
23:BB:446:G:OP2	38:BQ:2:ARG:HD2	2.12	0.49
23:BB:962:G:N2	34:BM:81:ARG:HH21	2.11	0.49
23:BB:1113:U:H5''	29:BG:2:ARG:H	1.76	0.49
23:BB:1188:U:H4'	39:BR:83:TYR:CB	2.42	0.49
23:BB:1424:G:H2'	23:BB:1425:G:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1629:U:O2	23:BB:2698:U:H5''	2.13	0.49
23:BB:1722:A:H2'	23:BB:1723:G:C8	2.47	0.49
23:BB:1791:A:H5'	25:BC:207:ALA:HA	1.93	0.49
23:BB:1993:U:H4'	26:BD:134:HIS:CE1	2.41	0.49
23:BB:2776:A:H4'	23:BB:2777:G:C5'	2.42	0.49
26:BD:38:LYS:HD3	26:BD:38:LYS:N	2.27	0.49
27:BE:170:ARG:HH21	27:BE:175:ILE:CD1	2.24	0.49
28:BF:16:MET:HE3	28:BF:21:TYR:HD1	1.77	0.49
28:BF:109:ARG:HG2	28:BF:136:ILE:HG13	1.95	0.49
30:BH:89:LYS:HZ1	30:BH:90:LEU:HB2	1.76	0.49
30:BH:147:VAL:HG12	30:BH:148:ALA:H	1.77	0.49
34:BM:74:THR:HA	34:BM:87:GLY:O	2.12	0.49
37:BP:109:ILE:O	37:BP:110:LYS:C	2.49	0.49
42:BU:38:ILE:O	42:BU:39:ASN:HB2	2.12	0.49
45:BY:6:ILE:N	45:BY:6:ILE:HD13	2.28	0.49
47:B0:28:SER:O	47:B0:32:THR:HG22	2.11	0.49
1:CA:89:U:O2'	1:CA:90:C:H5'	2.13	0.49
1:CA:235:C:H2'	1:CA:236:A:C8	2.47	0.49
1:CA:265:G:H2'	1:CA:267:C:H5	1.77	0.49
1:CA:764:C:H3'	1:CA:765:G:N2	2.24	0.49
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.48	0.49
2:CC:56:ILE:HD12	2:CC:56:ILE:N	2.28	0.49
4:CE:15:ILE:HG22	4:CE:16:ALA:N	2.27	0.49
8:CI:42:THR:O	8:CI:45:MET:HG2	2.12	0.49
8:CI:115:VAL:HG22	8:CI:116:GLY:H	1.78	0.49
10:CK:31:VAL:HG21	10:CK:66:ALA:CA	2.42	0.49
12:CM:64:VAL:HB	12:CM:65:GLU:OE2	2.13	0.49
16:CQ:17:GLU:C	16:CQ:19:SER:H	2.15	0.49
16:CQ:60:ILE:HD13	16:CQ:60:ILE:H	1.77	0.49
18:CS:27:LYS:HB3	18:CS:27:LYS:NZ	2.23	0.49
18:CS:62:THR:HG22	18:CS:65:MET:CE	2.42	0.49
19:CT:34:VAL:HG11	19:CT:78:LEU:HD13	1.93	0.49
20:CB:150:ILE:HG12	20:CB:150:ILE:O	2.13	0.49
23:DB:160:A:H2'	23:DB:161:A:C8	2.48	0.49
23:DB:372:G:N7	46:DZ:57:VAL:HG21	2.27	0.49
23:DB:765:C:H2'	23:DB:766:U:H6	1.77	0.49
23:DB:853:C:H2'	23:DB:854:C:H6	1.78	0.49
23:DB:1057:A:C8	23:DB:1086:A:C8	3.00	0.49
23:DB:1359:A:H2'	23:DB:1360:G:O4'	2.13	0.49
23:DB:1360:G:H2'	23:DB:1361:G:H5'	1.94	0.49
23:DB:1477:A:H2'	23:DB:1478:G:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1564:C:O2'	23:DB:1565:C:H5'	2.12	0.49
23:DB:1682:G:H2'	23:DB:1683:U:C6	2.47	0.49
23:DB:2455:G:H2'	23:DB:2456:C:C6	2.47	0.49
23:DB:2728:U:H5'	32:DK:70:ARG:NH2	2.27	0.49
23:DB:2732:G:H3'	23:DB:2733:A:H5'	1.94	0.49
25:DC:205:GLY:O	25:DC:206:LYS:HG2	2.12	0.49
26:DD:81:GLU:O	26:DD:82:PHE:HB2	2.13	0.49
27:DE:176:ASP:OD1	27:DE:177:PRO:HD2	2.12	0.49
28:DF:110:ILE:HG22	28:DF:111:ARG:N	2.27	0.49
29:DG:29:ASN:HB2	29:DG:78:VAL:HA	1.93	0.49
31:DJ:102:GLU:O	31:DJ:105:VAL:HG12	2.12	0.49
33:DL:141:LYS:O	33:DL:142:ILE:HD13	2.11	0.49
35:DN:73:ASN:HA	35:DN:76:VAL:CG1	2.42	0.49
35:DN:112:TYR:O	35:DN:113:ILE:HB	2.13	0.49
37:DP:38:ARG:HD2	37:DP:39:LEU:N	2.27	0.49
40:DS:64:ALA:HA	40:DS:110:ARG:HE	1.77	0.49
43:DW:18:LYS:HE3	43:DW:20:LEU:HD23	1.95	0.49
43:DW:43:LYS:O	43:DW:44:PHE:CB	2.55	0.49
52:DI:121:ILE:H	52:DI:121:ILE:CD1	2.25	0.49
1:AA:708:C:H2'	1:AA:709:U:C6	2.47	0.49
1:AA:1060:U:C5'	9:AJ:53:ILE:HG22	2.42	0.49
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.47	0.49
2:AC:78:LYS:H	2:AC:81:GLU:CB	2.25	0.49
8:AI:18:VAL:HG21	8:AI:82:ILE:CG1	2.43	0.49
19:AT:68:LYS:HG3	19:AT:69:ASN:ND2	2.27	0.49
20:AB:22:TRP:CG	20:AB:23:ASN:N	2.81	0.49
23:BB:296:U:H2'	23:BB:297:G:C8	2.48	0.49
23:BB:511:U:O5'	23:BB:511:U:H6	1.95	0.49
23:BB:831:G:O3'	33:BL:44:GLY:HA3	2.13	0.49
23:BB:1637:A:H2'	23:BB:1638:C:C6	2.47	0.49
23:BB:1710:G:H4'	23:BB:2858:C:O2	2.12	0.49
23:BB:2318:G:O2'	23:BB:2319:G:C2	2.65	0.49
23:BB:2634:A:H2'	23:BB:2635:A:C8	2.48	0.49
23:BB:2751:G:OP2	29:BG:3:VAL:HG22	2.12	0.49
23:BB:2848:G:C5	37:BP:96:LEU:HD23	2.48	0.49
26:BD:200:ASP:O	26:BD:201:LEU:HB2	2.13	0.49
30:BH:35:LYS:HD2	30:BH:35:LYS:H	1.76	0.49
32:BK:11:ALA:HB3	32:BK:85:VAL:HG23	1.94	0.49
32:BK:107:LEU:C	32:BK:109:SER:H	2.15	0.49
35:BN:101:GLY:H	35:BN:110:MET:HB2	1.78	0.49
38:BQ:13:HIS:O	38:BQ:17:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:16:ILE:HD11	38:BQ:31:TYR:CD1	2.47	0.49
42:BU:78:LYS:HB3	42:BU:96:LYS:CB	2.43	0.49
48:B1:15:GLY:HA3	48:B1:47:ILE:HD12	1.95	0.49
50:B3:12:ARG:HG2	50:B3:23:HIS:HB3	1.94	0.49
1:CA:8:A:H1'	4:CE:107:GLY:HA2	1.94	0.49
1:CA:21:G:H2'	1:CA:22:G:C8	2.48	0.49
1:CA:301:G:H2'	1:CA:302:G:H8	1.76	0.49
1:CA:537:G:H2'	1:CA:538:G:C8	2.48	0.49
1:CA:625:U:H4'	15:CP:16:PHE:CE2	2.47	0.49
1:CA:807:A:H2'	1:CA:808:C:C6	2.48	0.49
1:CA:1137:C:H1'	1:CA:1138:G:C2	2.47	0.49
1:CA:1308:U:P	12:CM:97:ARG:HD3	2.53	0.49
2:CC:105:VAL:HG12	2:CC:108:PRO:HD3	1.93	0.49
3:CD:32:LYS:HG3	3:CD:32:LYS:O	2.13	0.49
5:CF:18:VAL:O	5:CF:22:ILE:HG13	2.12	0.49
22:DA:63:C:H2'	22:DA:64:G:C8	2.48	0.49
23:DB:533:G:N3	38:DQ:40:LYS:HG2	2.27	0.49
23:DB:973:A:H1'	23:DB:1188:U:C6	2.47	0.49
23:DB:1531:C:H2'	23:DB:1532:A:H8	1.78	0.49
23:DB:2364:C:H2'	23:DB:2365:G:O4'	2.12	0.49
23:DB:2776:A:H4'	23:DB:2777:G:O5'	2.13	0.49
25:DC:229:HIS:CE1	25:DC:231:HIS:HE2	2.31	0.49
26:DD:96:ILE:HG22	26:DD:97:SER:N	2.27	0.49
26:DD:116:LYS:O	35:DN:2:ARG:HB3	2.12	0.49
26:DD:139:SER:O	26:DD:141:ARG:N	2.46	0.49
27:DE:85:PHE:O	27:DE:86:ALA:HB2	2.13	0.49
28:DF:98:PHE:CB	28:DF:101:ARG:HE	2.26	0.49
28:DF:133:GLU:O	28:DF:134:GLN:HB2	2.13	0.49
31:DJ:38:GLY:O	31:DJ:41:LYS:HD3	2.13	0.49
34:DM:71:LYS:NZ	34:DM:91:TYR:HB3	2.28	0.49
36:DO:18:LEU:HD22	43:DW:76:ARG:NH2	2.27	0.49
38:DQ:4:LYS:O	38:DQ:5:ARG:C	2.50	0.49
38:DQ:29:ARG:HH11	38:DQ:29:ARG:CA	2.25	0.49
38:DQ:109:VAL:O	38:DQ:113:LYS:HB2	2.12	0.49
39:DR:4:VAL:HG11	39:DR:46:GLU:OE2	2.12	0.49
41:DT:92:ASN:O	41:DT:93:LEU:HD12	2.11	0.49
45:DY:15:ARG:HD2	45:DY:53:MET:SD	2.53	0.49
1:AA:327:A:H1'	1:AA:329:A:O4'	2.13	0.49
1:AA:556:C:O2'	1:AA:557:G:H5'	2.11	0.49
1:AA:957:U:H3	1:AA:960:U:H5''	1.77	0.49
1:AA:1271:A:H2'	1:AA:1272:G:H8	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1409:C:N4	1:AA:1491:G:N1	2.54	0.49
6:AG:72:VAL:HB	6:AG:144:ALA:CB	2.41	0.49
8:AI:4:GLN:NE2	8:AI:21:LYS:HE3	2.28	0.49
11:AL:35:ARG:O	11:AL:52:CYS:HB2	2.13	0.49
12:AM:22:TYR:HB3	12:AM:69:ARG:HH22	1.78	0.49
20:AB:71:THR:CG2	20:AB:94:ARG:HH21	2.25	0.49
21:AU:29:ALA:HA	21:AU:32:ARG:HB2	1.94	0.49
22:BA:50:A:H5''	36:BO:68:LYS:HG3	1.94	0.49
23:BB:565:C:O2'	23:BB:566:U:H5'	2.13	0.49
23:BB:1351:C:O2'	23:BB:1571:A:H1'	2.12	0.49
23:BB:1652:A:H62	35:BN:11:ASN:HD21	1.61	0.49
23:BB:1684:G:H2'	23:BB:1685:C:C6	2.48	0.49
23:BB:2334:U:OP2	36:BO:7:ARG:HA	2.13	0.49
23:BB:2684:U:OP1	37:BP:59:THR:HG22	2.12	0.49
23:BB:2757:A:H2'	23:BB:2757:A:N3	2.26	0.49
26:BD:68:PHE:O	26:BD:70:LYS:N	2.40	0.49
26:BD:113:SER:O	26:BD:167:ASN:HA	2.13	0.49
26:BD:125:TRP:O	26:BD:126:ASN:HB2	2.12	0.49
30:BH:47:PHE:HE1	30:BH:51:ARG:CZ	2.25	0.49
31:BJ:120:ARG:O	31:BJ:122:LEU:N	2.37	0.49
34:BM:29:GLY:HA3	34:BM:104:GLU:OE2	2.12	0.49
36:BO:41:ALA:CB	36:BO:45:SER:HB3	2.43	0.49
37:BP:62:LYS:HG2	37:BP:74:GLN:OE1	2.13	0.49
39:BR:85:LYS:C	39:BR:87:GLN:N	2.66	0.49
1:CA:49:U:O2'	1:CA:50:A:H2'	2.13	0.49
1:CA:613:C:H2'	1:CA:614:C:C6	2.48	0.49
1:CA:1082:A:H2'	1:CA:1083:U:O4'	2.12	0.49
1:CA:1451:U:H5''	1:CA:1452:C:OP2	2.12	0.49
3:CD:141:VAL:HG12	3:CD:180:THR:CA	2.41	0.49
5:CF:68:GLN:HA	5:CF:71:ILE:HG22	1.94	0.49
11:CL:65:TYR:HB3	11:CL:95:HIS:CD2	2.47	0.49
12:CM:37:GLY:O	12:CM:38:ILE:HD13	2.12	0.49
13:CN:42:ASN:HA	13:CN:45:LEU:HD12	1.95	0.49
16:CQ:19:SER:O	16:CQ:20:ILE:HD12	2.13	0.49
19:CT:38:ILE:HD13	19:CT:85:LEU:HD23	1.95	0.49
20:CB:86:CYS:HB3	20:CB:88:GLN:CD	2.32	0.49
23:DB:581:C:H2'	23:DB:582:A:H8	1.77	0.49
23:DB:582:A:H2'	23:DB:583:G:C8	2.48	0.49
23:DB:921:C:H2'	23:DB:922:C:C6	2.47	0.49
23:DB:969:G:OP1	45:DY:17:PRO:HG3	2.13	0.49
23:DB:1722:A:H61	23:DB:1738:G:H1'	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2207:C:H2'	23:DB:2208:C:C6	2.46	0.49
23:DB:2256:G:H2'	23:DB:2257:U:H6	1.77	0.49
23:DB:2293:G:OP1	36:DO:13:ARG:NH2	2.46	0.49
23:DB:2586:U:H2'	23:DB:2587:A:C8	2.47	0.49
25:DC:104:LEU:HD13	25:DC:156:SER:HB3	1.94	0.49
26:DD:157:LYS:HZ2	31:DJ:80:HIS:HA	1.77	0.49
27:DE:153:LEU:HG	27:DE:173:THR:HB	1.94	0.49
33:DL:33:ARG:HB3	39:DR:85:LYS:HZ3	1.78	0.49
37:DP:25:VAL:O	37:DP:47:ILE:HB	2.13	0.49
37:DP:70:GLU:CD	37:DP:71:ARG:HE	2.14	0.49
45:DY:2:LYS:CE	45:DY:27:GLY:H	2.25	0.49
45:DY:30:ARG:N	45:DY:30:ARG:HD2	2.28	0.49
52:DI:19:PRO:HB2	52:DI:22:PRO:HD2	1.93	0.49
52:DI:37:PHE:CZ	52:DI:58:ILE:HD11	2.47	0.49
1:AA:157:U:O2'	1:AA:158:G:H5'	2.13	0.49
1:AA:252:U:H2'	1:AA:253:A:C8	2.48	0.49
1:AA:900:A:H2'	1:AA:901:A:C8	2.47	0.49
1:AA:1086:U:H4'	1:AA:1389:C:H5''	1.94	0.49
1:AA:1130:A:O2'	1:AA:1131:G:H5'	2.13	0.49
1:AA:1137:C:O2'	1:AA:1138:G:H5''	2.12	0.49
1:AA:1281:C:H5'	1:AA:1282:C:C5	2.48	0.49
2:AC:85:LYS:O	2:AC:89:VAL:HG23	2.13	0.49
3:AD:7:LYS:HG3	3:AD:20:LEU:HB2	1.94	0.49
3:AD:17:ASP:HB2	3:AD:27:ILE:HG23	1.94	0.49
3:AD:29:THR:O	3:AD:30:LYS:HB2	2.13	0.49
8:AI:34:LEU:HD11	8:AI:47:VAL:CG2	2.36	0.49
8:AI:87:MET:SD	8:AI:94:ARG:HG3	2.53	0.49
18:AS:51:HIS:HA	18:AS:55:GLN:O	2.13	0.49
20:AB:76:SER:HA	20:AB:92:ASN:HB2	1.94	0.49
20:AB:162:VAL:HG13	20:AB:184:ALA:CB	2.39	0.49
22:BA:74:U:H2'	22:BA:75:G:O4'	2.13	0.49
23:BB:125:A:H4'	49:B2:13:ASN:OD1	2.13	0.49
23:BB:141:G:N2	41:BT:2:ILE:HG13	2.27	0.49
23:BB:211:C:O2'	23:BB:212:G:H5'	2.13	0.49
23:BB:327:G:H2'	23:BB:328:U:C6	2.47	0.49
23:BB:679:C:O2'	23:BB:680:C:H5'	2.13	0.49
23:BB:877:A:C2	23:BB:900:A:N7	2.80	0.49
23:BB:1018:U:O2'	23:BB:1019:U:H5'	2.13	0.49
23:BB:1076:C:H4'	52:BI:94:LYS:CE	2.43	0.49
23:BB:1190:G:P	33:BL:41:ARG:HG2	2.52	0.49
23:BB:1269:A:H2'	23:BB:1270:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1818:U:H5''	25:BC:155:ARG:HG2	1.95	0.49
23:BB:2285:C:OP1	48:B1:26:LYS:HE3	2.12	0.49
25:BC:141:HIS:N	25:BC:193:GLU:OE2	2.46	0.49
25:BC:266:ILE:O	25:BC:266:ILE:HG13	2.13	0.49
26:BD:61:THR:H	26:BD:62:LYS:HE3	1.77	0.49
26:BD:118:PHE:HA	26:BD:164:GLN:HG3	1.93	0.49
29:BG:85:LYS:HB2	29:BG:164:ALA:HB2	1.94	0.49
34:BM:42:THR:HA	34:BM:92:TRP:HD1	1.73	0.49
39:BR:58:VAL:HG22	39:BR:59:ILE:N	2.28	0.49
46:BZ:49:ARG:O	46:BZ:51:VAL:HG23	2.13	0.49
49:B2:35:ARG:NH1	49:B2:39:ARG:HA	2.28	0.49
52:BI:49:GLU:HG2	52:BI:54:ILE:HD11	1.94	0.49
52:BI:75:ALA:CB	52:BI:131:THR:HG21	2.43	0.49
1:CA:409:U:OP2	3:CD:21:LYS:HE2	2.12	0.49
1:CA:577:G:O2'	1:CA:578:C:H5'	2.13	0.49
1:CA:708:C:H2'	1:CA:709:U:H6	1.78	0.49
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.95	0.49
1:CA:959:A:C6	1:CA:1222:G:H4'	2.48	0.49
1:CA:1001:C:H2'	1:CA:1002:G:H8	1.76	0.49
1:CA:1229:A:H2'	1:CA:1230:C:H6	1.78	0.49
1:CA:1373:G:H4'	6:CG:30:MET:HE3	1.93	0.49
16:CQ:83:LEU:N	16:CQ:83:LEU:HD22	2.28	0.49
17:CR:33:THR:CG2	17:CR:37:LYS:HG2	2.43	0.49
18:CS:43:MET:O	18:CS:46:LEU:HB2	2.12	0.49
20:CB:172:ILE:HD13	20:CB:182:VAL:HG11	1.94	0.49
20:CB:209:VAL:C	20:CB:213:LEU:HD12	2.33	0.49
21:CU:16:ARG:O	21:CU:18:PHE:N	2.46	0.49
23:DB:95:A:O2'	44:DX:43:LEU:HD23	2.12	0.49
23:DB:335:C:O2'	23:DB:336:C:H5'	2.13	0.49
23:DB:383:C:H41	23:DB:385:C:H2'	1.76	0.49
23:DB:526:A:N6	23:DB:2626:C:C4'	2.75	0.49
23:DB:572:A:H5''	23:DB:573:U:OP2	2.13	0.49
23:DB:898:C:C2'	23:DB:899:A:H5''	2.43	0.49
23:DB:1060:U:H5	52:DI:131:THR:CG2	2.19	0.49
23:DB:1081:U:C5'	52:DI:126:ARG:NH1	2.54	0.49
23:DB:1878:G:H2'	23:DB:1879:C:H6	1.76	0.49
23:DB:2360:G:O2'	33:DL:61:LEU:HD21	2.12	0.49
23:DB:2518:A:H2'	23:DB:2518:A:N3	2.27	0.49
23:DB:2748:A:H1'	29:DG:66:THR:OG1	2.13	0.49
23:DB:2752:C:H2'	23:DB:2753:A:O4'	2.13	0.49
23:DB:2758:A:C2'	23:DB:2759:G:H5'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2776:A:H4'	23:DB:2777:G:C5'	2.43	0.49
23:DB:2834:G:H1'	23:DB:2883:A:H61	1.76	0.49
25:DC:30:ALA:N	25:DC:31:PRO:HD3	2.27	0.49
25:DC:222:THR:HG21	25:DC:238:ASN:ND2	2.27	0.49
26:DD:117:GLY:O	26:DD:164:GLN:HA	2.13	0.49
27:DE:187:VAL:HG23	27:DE:188:MET:N	2.28	0.49
30:DH:37:VAL:HG12	30:DH:38:PRO:N	2.28	0.49
30:DH:94:ILE:CG2	30:DH:122:LEU:HG	2.39	0.49
31:DJ:15:TRP:HB2	31:DJ:139:VAL:CA	2.27	0.49
31:DJ:99:ARG:O	31:DJ:103:ILE:HG12	2.12	0.49
33:DL:91:ASP:O	33:DL:93:ASN:N	2.46	0.49
34:DM:40:ARG:HG3	34:DM:40:ARG:HH11	1.77	0.49
38:DQ:36:GLN:O	38:DQ:39:ILE:HG23	2.13	0.49
40:DS:7:HIS:NE2	40:DS:46:LEU:HD13	2.28	0.49
42:DU:34:ILE:HG21	42:DU:61:GLU:HA	1.94	0.49
1:AA:79:G:H2'	1:AA:80:A:O4'	2.13	0.49
1:AA:220:G:O2'	1:AA:221:C:H5'	2.12	0.49
1:AA:537:G:H2'	1:AA:538:G:H8	1.78	0.49
1:AA:806:C:H2'	1:AA:807:A:C8	2.48	0.49
1:AA:915:A:H2'	1:AA:916:U:H5'	1.94	0.49
1:AA:1142:G:H3'	1:AA:1143:G:H8	1.76	0.49
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.48	0.49
4:AE:111:ARG:O	4:AE:115:GLU:HG3	2.13	0.49
5:AF:88:MET:CE	5:AF:90:MET:HG3	2.43	0.49
6:AG:16:LYS:HD3	6:AG:16:LYS:C	2.34	0.49
7:AH:24:VAL:CG1	7:AH:60:LEU:HB2	2.43	0.49
8:AI:53:LEU:O	8:AI:53:LEU:HD13	2.12	0.49
16:AQ:10:ARG:NE	16:AQ:10:ARG:CA	2.76	0.49
16:AQ:10:ARG:NH2	16:AQ:11:VAL:HG23	2.27	0.49
20:AB:195:VAL:HG12	20:AB:197:PHE:H	1.78	0.49
23:BB:712:G:H2'	23:BB:713:G:O4'	2.12	0.49
23:BB:918:A:H2'	23:BB:919:U:H5'	1.95	0.49
23:BB:1714:U:H3'	23:BB:1715:G:H5'	1.95	0.49
23:BB:1719:G:O2'	23:BB:1720:U:H5'	2.13	0.49
23:BB:1919:A:H2'	23:BB:1920:C:H5'	1.95	0.49
23:BB:2047:C:OP1	47:B0:15:ARG:HD2	2.13	0.49
23:BB:2398:U:H2'	23:BB:2399:G:C8	2.48	0.49
23:BB:2518:A:N3	23:BB:2518:A:H2'	2.28	0.49
28:BF:103:ILE:HG13	28:BF:104:THR:H	1.77	0.49
30:BH:30:LEU:HD13	30:BH:35:LYS:HD3	1.95	0.49
33:BL:77:ILE:HG22	33:BL:78:ARG:NH2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:22:GLN:HG2	34:BM:23:GLY:N	2.28	0.49
34:BM:130:PHE:CD2	34:BM:131:VAL:HG22	2.47	0.49
35:BN:38:LEU:N	35:BN:39:PRO:CD	2.75	0.49
36:BO:8:ILE:HG23	36:BO:9:ARG:N	2.26	0.49
37:BP:85:VAL:O	37:BP:87:ARG:NH1	2.46	0.49
37:BP:91:VAL:HB	37:BP:113:LEU:HB2	1.93	0.49
38:BQ:92:LYS:CG	38:BQ:93:ILE:N	2.75	0.49
41:BT:58:VAL:HA	41:BT:85:VAL:HA	1.95	0.49
43:BW:44:PHE:HB3	43:BW:76:ARG:HG2	1.95	0.49
45:BY:16:LEU:CB	45:BY:17:PRO:HD3	2.26	0.49
48:B1:34:GLU:OE1	48:B1:36:LYS:HE2	2.13	0.49
49:B2:34:ARG:HE	49:B2:42:LEU:CD1	2.23	0.49
1:CA:208:U:C2'	1:CA:209:U:H5''	2.42	0.49
1:CA:500:G:H5''	11:CL:120:ARG:HH21	1.76	0.49
1:CA:782:A:H2'	1:CA:783:C:O4'	2.12	0.49
1:CA:985:C:H2'	1:CA:986:U:H6	1.76	0.49
1:CA:1121:U:H2'	1:CA:1122:U:C6	2.47	0.49
1:CA:1142:G:H2'	1:CA:1143:G:H8	1.78	0.49
1:CA:1229:A:H2'	1:CA:1230:C:C6	2.48	0.49
1:CA:1481:U:H2'	1:CA:1482:G:C8	2.47	0.49
2:CC:8:GLY:O	2:CC:11:LEU:HG	2.13	0.49
2:CC:154:GLY:HA2	2:CC:163:ARG:HG2	1.94	0.49
4:CE:43:GLY:O	4:CE:72:ASN:HA	2.13	0.49
5:CF:51:ILE:CD1	5:CF:86:ARG:HG3	2.43	0.49
6:CG:61:PHE:O	6:CG:62:GLU:C	2.49	0.49
12:CM:79:LEU:HA	12:CM:82:LEU:CG	2.40	0.49
13:CN:40:ARG:HG3	13:CN:40:ARG:HH11	1.78	0.49
18:CS:62:THR:HG22	18:CS:65:MET:HE2	1.95	0.49
23:DB:208:C:H2'	23:DB:209:C:H6	1.78	0.49
23:DB:968:C:H2'	23:DB:969:G:H8	1.77	0.49
23:DB:1163:G:HO2'	39:DR:92:TRP:HH2	1.60	0.49
23:DB:1791:A:H5''	25:DC:211:ARG:HE	1.77	0.49
23:DB:1909:C:H2'	23:DB:1910:G:H8	1.76	0.49
23:DB:1983:G:H4'	23:DB:2606:C:H4'	1.95	0.49
23:DB:2241:A:H2'	23:DB:2242:G:C8	2.48	0.49
24:DV:30:ILE:HB	24:DV:38:LEU:HB3	1.94	0.49
26:DD:29:VAL:HG22	26:DD:30:GLU:N	2.21	0.49
26:DD:32:ASN:O	26:DD:34:VAL:HG13	2.13	0.49
26:DD:156:PHE:CA	31:DJ:81:ILE:HG21	2.43	0.49
28:DF:41:GLU:O	28:DF:45:ASP:OD2	2.31	0.49
28:DF:71:LYS:HE2	28:DF:72:SER:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:10:VAL:HG12	29:DG:10:VAL:O	2.13	0.49
30:DH:81:ALA:HA	30:DH:147:VAL:O	2.13	0.49
30:DH:104:THR:HA	30:DH:108:VAL:H	1.77	0.49
31:DJ:4:PHE:CD1	31:DJ:5:THR:N	2.81	0.49
31:DJ:81:ILE:CG2	31:DJ:82:GLY:N	2.65	0.49
32:DK:9:ASN:O	32:DK:10:VAL:HG13	2.13	0.49
34:DM:54:THR:O	34:DM:57:VAL:N	2.44	0.49
34:DM:71:LYS:CE	34:DM:91:TYR:HB3	2.42	0.49
41:DT:12:ARG:HG2	41:DT:13:ALA:H	1.78	0.49
48:D1:49:LYS:NZ	48:D1:50:GLU:N	2.61	0.49
50:D3:51:LYS:HA	50:D3:51:LYS:HZ2	1.78	0.49
1:AA:265:G:H2'	1:AA:267:C:H5	1.78	0.49
1:AA:664:G:H5''	17:AR:52:ARG:NH2	2.27	0.49
1:AA:782:A:H2'	1:AA:783:C:O4'	2.13	0.49
1:AA:1018:G:H2'	1:AA:1019:A:C8	2.48	0.49
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.13	0.49
1:AA:1526:G:O2'	1:AA:1527:U:H5'	2.13	0.49
4:AE:45:VAL:HG23	4:AE:71:ILE:CG2	2.43	0.49
5:AF:67:PRO:O	5:AF:70:VAL:HG22	2.13	0.49
8:AI:43:ALA:C	8:AI:45:MET:H	2.16	0.49
8:AI:56:MET:HA	8:AI:59:LYS:HB2	1.94	0.49
12:AM:84:CYS:HA	18:AS:72:GLU:O	2.13	0.49
12:AM:89:ARG:HH11	12:AM:94:LEU:HD13	1.76	0.49
16:AQ:8:GLN:HB3	16:AQ:57:VAL:HG13	1.95	0.49
20:AB:206:ILE:O	20:AB:209:VAL:HG23	2.13	0.49
20:AB:215:ALA:O	20:AB:218:ALA:HB3	2.13	0.49
22:BA:52:A:H3'	22:BA:53:A:C8	2.47	0.49
22:BA:82:U:O2'	22:BA:83:G:H5'	2.12	0.49
23:BB:41:C:H2'	23:BB:42:A:H8	1.76	0.49
23:BB:299:A:N6	23:BB:322:A:H1'	2.28	0.49
23:BB:363:G:H2'	23:BB:364:C:H6	1.77	0.49
23:BB:651:G:H4'	50:B3:17:GLY:HA3	1.93	0.49
23:BB:757:G:H2'	23:BB:758:C:H5'	1.95	0.49
23:BB:847:U:O2	23:BB:847:U:O4'	2.29	0.49
23:BB:923:G:O2'	23:BB:924:G:H5'	2.13	0.49
23:BB:991:C:H2'	23:BB:992:C:C6	2.48	0.49
23:BB:1183:U:H2'	23:BB:1184:U:H6	1.78	0.49
23:BB:1430:G:H2'	23:BB:1431:A:C8	2.48	0.49
23:BB:2221:G:H2'	23:BB:2222:C:H6	1.78	0.49
23:BB:2649:C:H2'	23:BB:2650:U:H6	1.78	0.49
24:BV:17:SER:HB3	24:BV:21:ARG:HH12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BV:30:ILE:HD11	24:BV:63:ILE:HD12	1.94	0.49
25:BC:4:LYS:HG3	25:BC:5:CYS:SG	2.52	0.49
25:BC:115:ILE:HA	25:BC:126:GLY:CA	2.42	0.49
25:BC:140:VAL:HG23	25:BC:141:HIS:N	2.28	0.49
25:BC:179:GLU:CG	25:BC:266:ILE:HG22	2.40	0.49
27:BE:97:ASN:ND2	27:BE:97:ASN:N	2.61	0.49
28:BF:14:LYS:O	28:BF:18:GLU:HB3	2.13	0.49
28:BF:144:LYS:HG2	28:BF:144:LYS:O	2.13	0.49
29:BG:66:THR:O	29:BG:70:LEU:HB2	2.13	0.49
30:BH:29:PHE:H	30:BH:32:PRO:CG	2.25	0.49
30:BH:121:VAL:HG21	30:BH:128:HIS:HE2	1.78	0.49
31:BJ:7:LYS:HZ2	31:BJ:49:ASP:H	1.60	0.49
31:BJ:15:TRP:HB3	31:BJ:53:TYR:CE2	2.48	0.49
32:BK:36:GLY:HA2	32:BK:62:VAL:O	2.12	0.49
33:BL:63:LYS:HB2	50:B3:11:LYS:HZ1	1.76	0.49
33:BL:92:LEU:CG	33:BL:96:LYS:HZ3	2.25	0.49
33:BL:124:GLY:O	33:BL:125:LEU:HB2	2.13	0.49
34:BM:2:LEU:HB3	34:BM:4:PRO:HD2	1.94	0.49
34:BM:73:ILE:HD11	34:BM:92:TRP:N	2.28	0.49
34:BM:80:VAL:HG12	34:BM:81:ARG:N	2.27	0.49
35:BN:116:VAL:O	35:BN:117:ASP:HB2	2.13	0.49
37:BP:77:SER:CB	37:BP:78:PRO:HD3	2.42	0.49
40:BS:3:THR:HG23	40:BS:107:VAL:HG23	1.95	0.49
42:BU:44:HIS:ND1	42:BU:56:GLY:HA3	2.28	0.49
42:BU:96:LYS:HE2	42:BU:98:ASN:HB3	1.95	0.49
45:BY:9:THR:HB	45:BY:53:MET:O	2.12	0.49
1:CA:174:A:O2'	1:CA:175:C:H5'	2.12	0.49
1:CA:232:G:H1'	1:CA:262:A:N1	2.28	0.49
1:CA:1238:A:C2	1:CA:1241:G:N3	2.80	0.49
1:CA:1318:A:OP2	1:CA:1318:A:H8	1.95	0.49
1:CA:1426:G:H2'	1:CA:1427:C:C6	2.47	0.49
2:CC:63:ILE:HG12	2:CC:65:VAL:HG23	1.94	0.49
4:CE:19:ARG:CG	4:CE:20:VAL:H	2.20	0.49
6:CG:4:ARG:HB2	6:CG:4:ARG:NH1	2.27	0.49
9:CJ:85:ASP:HB2	9:CJ:89:ARG:NH2	2.28	0.49
10:CK:34:THR:CG2	10:CK:38:GLY:HA2	2.43	0.49
10:CK:110:THR:HB	21:CU:3:ILE:O	2.13	0.49
14:CO:87:ARG:HA	14:CO:87:ARG:HE	1.77	0.49
15:CP:57:ILE:CD1	15:CP:75:ILE:HD11	2.43	0.49
18:CS:38:THR:HG22	18:CS:39:ILE:H	1.78	0.49
21:CU:34:ARG:HH21	21:CU:36:PHE:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:136:G:C2	41:DT:3:ARG:CZ	2.96	0.49
23:DB:144:A:C2	41:DT:3:ARG:CZ	2.96	0.49
23:DB:1424:G:H2'	23:DB:1425:G:O4'	2.13	0.49
23:DB:1547:C:H2'	23:DB:1548:A:C8	2.47	0.49
23:DB:1549:A:H2'	23:DB:1550:C:C6	2.48	0.49
23:DB:1723:G:N7	23:DB:1737:G:N2	2.60	0.49
23:DB:2077:A:O2'	23:DB:2078:C:H5'	2.12	0.49
23:DB:2839:G:H2'	23:DB:2840:C:H6	1.76	0.49
25:DC:72:GLY:C	25:DC:73:ILE:HG13	2.33	0.49
25:DC:208:GLY:HA2	25:DC:212:TRP:HB3	1.95	0.49
26:DD:46:ARG:N	26:DD:82:PHE:HA	2.28	0.49
27:DE:146:VAL:HG11	27:DE:184:ASP:OD1	2.13	0.49
28:DF:28:PRO:HB2	28:DF:168:LEU:CD1	2.41	0.49
31:DJ:80:HIS:O	31:DJ:81:ILE:C	2.51	0.49
32:DK:105:ARG:O	32:DK:108:ARG:HB3	2.12	0.49
34:DM:90:GLU:CG	34:DM:91:TYR:N	2.76	0.49
36:DO:25:ARG:HE	36:DO:94:ARG:NH1	2.11	0.49
36:DO:105:ALA:HA	36:DO:108:ASP:OD1	2.13	0.49
43:DW:56:HIS:CD2	43:DW:58:LEU:H	2.30	0.49
44:DX:17:GLU:CD	44:DX:17:GLU:H	2.15	0.49
46:DZ:27:THR:OG1	46:DZ:28:VAL:N	2.46	0.49
52:DI:72:THR:HG23	52:DI:112:LYS:NZ	2.28	0.49
1:AA:5:U:H1'	1:AA:6:G:C2	2.48	0.48
1:AA:1060:U:H4'	9:AJ:54:SER:HB2	1.95	0.48
1:AA:1178:G:H2'	1:AA:1180:A:OP2	2.13	0.48
1:AA:1464:U:H2'	1:AA:1465:A:C8	2.48	0.48
4:AE:81:GLN:HE21	4:AE:147:ASN:C	2.17	0.48
5:AF:37:HIS:HE1	5:AF:65:GLU:HB2	1.73	0.48
6:AG:131:GLY:O	6:AG:134:VAL:HG12	2.13	0.48
6:AG:137:ARG:HG2	6:AG:141:HIS:CE1	2.48	0.48
8:AI:51:LEU:CD1	8:AI:82:ILE:HG21	2.42	0.48
8:AI:64:ILE:HG22	8:AI:65:THR:N	2.28	0.48
9:AJ:48:ARG:HA	9:AJ:66:GLU:HA	1.95	0.48
10:AK:15:VAL:HG11	10:AK:35:ASP:HB2	1.94	0.48
10:AK:52:ARG:O	10:AK:54:SER:N	2.46	0.48
10:AK:82:GLU:HG3	10:AK:107:THR:OG1	2.13	0.48
11:AL:35:ARG:HG3	11:AL:36:VAL:N	2.26	0.48
11:AL:58:ASN:N	11:AL:58:ASN:HD22	2.11	0.48
13:AN:59:GLN:NE2	13:AN:59:GLN:N	2.61	0.48
19:AT:60:GLN:CD	19:AT:60:GLN:N	2.67	0.48
20:AB:31:PHE:HA	20:AB:41:ASN:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:113:LEU:C	20:AB:113:LEU:HD23	2.33	0.48
22:BA:64:G:O2'	22:BA:65:U:H5'	2.11	0.48
23:BB:39:G:H2'	23:BB:40:U:H6	1.78	0.48
23:BB:208:C:H2'	23:BB:209:C:H6	1.78	0.48
23:BB:557:C:H2'	23:BB:558:U:C6	2.47	0.48
23:BB:932:U:H2'	23:BB:934:U:C4	2.48	0.48
23:BB:1133:A:H4'	23:BB:1134:A:H5''	1.95	0.48
23:BB:1309:G:H4'	49:B2:7:PRO:CG	2.43	0.48
23:BB:1666:G:C2'	23:BB:1667:G:H5'	2.43	0.48
23:BB:1666:G:O2'	23:BB:1667:G:H5'	2.12	0.48
23:BB:1723:G:N7	23:BB:1737:G:N2	2.61	0.48
23:BB:2657:A:H2'	23:BB:2658:C:O4'	2.13	0.48
23:BB:2776:A:H4'	23:BB:2777:G:O5'	2.13	0.48
27:BE:151:GLY:HA2	27:BE:171:ASP:HA	1.95	0.48
31:BJ:35:ARG:HH21	31:BJ:40:HIS:H	1.61	0.48
32:BK:103:VAL:HG22	32:BK:121:GLU:O	2.13	0.48
33:BL:64:PHE:H	50:B3:24:LYS:HD2	1.78	0.48
33:BL:85:VAL:N	33:BL:86:GLU:HG3	2.28	0.48
34:BM:86:LYS:HD2	34:BM:86:LYS:H	1.78	0.48
35:BN:28:LEU:HD22	35:BN:48:VAL:HG11	1.95	0.48
37:BP:13:LYS:HZ2	37:BP:15:ASP:HB2	1.78	0.48
37:BP:92:ARG:HH22	37:BP:110:LYS:HE2	1.77	0.48
38:BQ:52:ARG:CZ	38:BQ:55:GLN:HG2	2.44	0.48
42:BU:35:VAL:HG12	42:BU:36:GLU:N	2.27	0.48
1:CA:335:C:H2'	1:CA:336:A:H8	1.78	0.48
1:CA:1074:G:H2'	1:CA:1075:U:H6	1.78	0.48
1:CA:1302:C:H5''	1:CA:1303:C:OP2	2.13	0.48
1:CA:1480:A:H2'	1:CA:1481:U:C6	2.47	0.48
1:CA:1492:A:H3'	1:CA:1493:A:C5'	2.42	0.48
3:CD:169:TRP:CE3	3:CD:185:PRO:HB3	2.48	0.48
4:CE:11:GLN:OE1	4:CE:116:VAL:HA	2.12	0.48
4:CE:158:LYS:HB3	7:CH:63:LYS:HD3	1.93	0.48
7:CH:94:VAL:HG21	7:CH:127:TYR:HB2	1.95	0.48
7:CH:111:THR:H	7:CH:114:ALA:HB3	1.77	0.48
19:CT:2:ASN:O	19:CT:3:ILE:C	2.51	0.48
22:DA:114:C:O2'	36:DO:49:VAL:HG23	2.12	0.48
23:DB:32:C:O2'	23:DB:33:C:H5'	2.13	0.48
23:DB:491:G:H2'	23:DB:492:A:O4'	2.13	0.48
23:DB:699:A:H2'	23:DB:700:G:O4'	2.13	0.48
23:DB:723:C:H2'	23:DB:724:U:H6	1.77	0.48
23:DB:848:C:H2'	23:DB:849:A:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1269:A:H2'	23:DB:1270:C:C6	2.48	0.48
23:DB:1309:G:H5''	49:D2:9:VAL:HG13	1.95	0.48
23:DB:2250:G:H21	23:DB:2496:C:C4'	2.25	0.48
23:DB:2425:A:H5'	23:DB:2427:C:O4'	2.13	0.48
23:DB:2530:A:H5'	29:DG:176:LYS:O	2.13	0.48
25:DC:15:VAL:HG22	25:DC:15:VAL:O	2.13	0.48
25:DC:82:TYR:CD2	25:DC:84:PRO:HD3	2.47	0.48
26:DD:90:PHE:H	26:DD:92:VAL:HG22	1.78	0.48
27:DE:49:ARG:HG3	27:DE:52:VAL:CG2	2.43	0.48
27:DE:137:LYS:HA	27:DE:137:LYS:HZ2	1.76	0.48
28:DF:39:VAL:HG13	28:DF:84:ILE:CG1	2.43	0.48
28:DF:41:GLU:O	28:DF:42:ALA:C	2.51	0.48
29:DG:91:VAL:N	29:DG:159:LYS:HZ1	2.10	0.48
32:DK:10:VAL:HG21	32:DK:16:ALA:HB1	1.93	0.48
34:DM:50:ARG:HE	34:DM:53:MET:HE2	1.78	0.48
36:DO:35:ILE:HG12	36:DO:106:LEU:HD12	1.95	0.48
36:DO:56:LYS:HE2	36:DO:81:ARG:NE	2.07	0.48
37:DP:90:ALA:N	37:DP:112:ARG:NH2	2.58	0.48
37:DP:93:LYS:HB3	37:DP:96:LEU:HG	1.94	0.48
39:DR:86:GLN:O	39:DR:87:GLN:HB2	2.11	0.48
44:DX:12:GLU:O	44:DX:15:ASN:HB3	2.13	0.48
48:D1:19:PHE:CD2	48:D1:41:VAL:HG22	2.48	0.48
52:DI:45:THR:O	52:DI:48:ILE:HG22	2.12	0.48
1:AA:254:G:O2'	1:AA:255:G:H5'	2.13	0.48
2:AC:119:ILE:O	2:AC:123:LEU:HG	2.12	0.48
2:AC:135:ARG:C	2:AC:137:VAL:H	2.17	0.48
2:AC:150:VAL:HG12	2:AC:151:GLU:N	2.27	0.48
5:AF:54:LEU:HD13	5:AF:55:HIS:H	1.77	0.48
6:AG:14:ASP:OD1	6:AG:15:PRO:HD2	2.14	0.48
10:AK:125:LYS:O	21:AU:33:ARG:NH2	2.45	0.48
12:AM:15:VAL:HG13	12:AM:29:SER:OG	2.13	0.48
16:AQ:20:ILE:HG21	16:AQ:52:CYS:SG	2.53	0.48
19:AT:61:ALA:HA	19:AT:66:ILE:O	2.13	0.48
20:AB:162:VAL:HG21	20:AB:168:GLU:HB2	1.95	0.48
23:BB:273:G:H2'	23:BB:274:C:C6	2.48	0.48
23:BB:875:G:H2'	23:BB:876:C:O2	2.12	0.48
23:BB:1948:G:O2'	23:BB:1949:G:H5'	2.13	0.48
23:BB:2016:U:H2'	23:BB:2017:U:C6	2.47	0.48
23:BB:2821:A:H2'	23:BB:2822:G:C8	2.48	0.48
25:BC:130:PRO:HD2	25:BC:133:ASN:HD22	1.77	0.48
27:BE:9:GLN:CD	27:BE:120:VAL:HG13	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:78:TRP:HE3	27:BE:78:TRP:N	2.12	0.48
29:BG:89:VAL:HG21	29:BG:162:ARG:HE	1.77	0.48
29:BG:136:ASP:O	29:BG:140:ILE:HG23	2.13	0.48
30:BH:98:ASP:O	30:BH:102:ALA:HB2	2.13	0.48
31:BJ:43:GLU:O	31:BJ:44:TYR:C	2.50	0.48
32:BK:119:ALA:N	32:BK:120:PRO:CD	2.76	0.48
38:BQ:33:VAL:CG2	38:BQ:37:ALA:HB3	2.41	0.48
42:BU:46:LYS:HB3	42:BU:53:GLN:HB3	1.94	0.48
43:BW:28:GLU:C	43:BW:30:VAL:H	2.16	0.48
43:BW:44:PHE:CD2	43:BW:60:ALA:HB3	2.48	0.48
44:BX:14:LEU:CD2	44:BX:57:LEU:HB2	2.44	0.48
48:B1:9:LYS:HG2	50:B3:34:LYS:HZ1	1.76	0.48
52:BI:14:ALA:HB1	52:BI:50:LYS:HA	1.95	0.48
1:CA:56:U:H2'	1:CA:57:G:H8	1.78	0.48
1:CA:301:G:H2'	1:CA:302:G:C8	2.49	0.48
1:CA:736:C:H2'	1:CA:737:C:C6	2.47	0.48
1:CA:844:G:H21	1:CA:845:A:H62	1.61	0.48
1:CA:1248:A:H2'	1:CA:1249:C:H6	1.79	0.48
2:CC:128:MET:O	2:CC:130:ARG:N	2.40	0.48
3:CD:121:ALA:HA	3:CD:145:ARG:HG3	1.94	0.48
7:CH:107:LYS:HB3	7:CH:107:LYS:NZ	2.28	0.48
12:CM:21:ILE:HG22	12:CM:21:ILE:O	2.13	0.48
16:CQ:30:HIS:CG	16:CQ:33:TYR:HB2	2.47	0.48
16:CQ:46:HIS:CG	16:CQ:47:ASP:N	2.81	0.48
19:CT:66:ILE:HG22	19:CT:67:HIS:N	2.28	0.48
23:DB:247:G:H4'	23:DB:386:G:C4	2.49	0.48
23:DB:346:A:N7	23:DB:347:A:H1'	2.27	0.48
23:DB:351:C:H2'	23:DB:352:A:C8	2.48	0.48
23:DB:632:A:H5''	33:DL:69:ARG:HD3	1.95	0.48
23:DB:1027:A:H2	23:DB:2488:G:H4'	1.78	0.48
23:DB:1107:G:O2'	23:DB:1108:U:H5'	2.13	0.48
23:DB:1133:A:H2	23:DB:2038:G:H21	1.61	0.48
23:DB:1426:G:H8	23:DB:1426:G:OP2	1.95	0.48
23:DB:1986:C:O2'	23:DB:1987:A:H5'	2.13	0.48
23:DB:2241:A:O2'	23:DB:2242:G:H5'	2.12	0.48
23:DB:2597:G:H5''	25:DC:239:PHE:CB	2.38	0.48
23:DB:2756:U:C1'	23:DB:2757:A:H5''	2.42	0.48
23:DB:2756:U:H4'	23:DB:2757:A:OP1	2.12	0.48
24:DV:29:ILE:O	24:DV:91:PHE:HB2	2.14	0.48
24:DV:73:LYS:HB2	24:DV:92:VAL:HG13	1.95	0.48
27:DE:99:LYS:O	27:DE:99:LYS:HD2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:125:TYR:OH	31:DJ:134:ALA:HB2	2.13	0.48
35:DN:57:THR:O	35:DN:59:SER:N	2.46	0.48
35:DN:86:ARG:HD3	35:DN:94:TYR:OH	2.14	0.48
37:DP:47:ILE:HD13	37:DP:63:ILE:HG21	1.95	0.48
38:DQ:68:ALA:CB	38:DQ:73:ILE:HG21	2.43	0.48
39:DR:6:GLN:OE1	39:DR:38:VAL:HG22	2.13	0.48
40:DS:49:LYS:O	40:DS:52:GLU:HB2	2.13	0.48
47:D0:30:ASP:O	47:D0:31:LYS:HB2	2.12	0.48
1:AA:31:G:H2'	1:AA:48:C:H5	1.77	0.48
1:AA:56:U:H2'	1:AA:57:G:H8	1.77	0.48
1:AA:174:A:O2'	1:AA:175:C:H5'	2.13	0.48
1:AA:193:C:H2'	1:AA:194:C:C6	2.49	0.48
1:AA:391:G:HO2'	1:AA:482:A:H2	1.60	0.48
1:AA:537:G:H2'	1:AA:538:G:C8	2.47	0.48
1:AA:1002:G:N3	1:AA:1002:G:H2'	2.27	0.48
1:AA:1284:C:H3'	1:AA:1285:A:C5'	2.42	0.48
7:AH:11:THR:HG22	7:AH:15:ASN:ND2	2.29	0.48
10:AK:69:CYS:C	10:AK:71:ASP:N	2.66	0.48
12:AM:109:LYS:HG3	12:AM:110:GLY:N	2.28	0.48
20:AB:36:LYS:HE3	20:AB:36:LYS:N	2.27	0.48
20:AB:71:THR:HG23	20:AB:93:HIS:C	2.33	0.48
21:AU:8:ASN:O	21:AU:9:GLU:HB2	2.12	0.48
23:BB:162:U:O2'	23:BB:163:C:H5'	2.13	0.48
23:BB:286:U:H2'	23:BB:287:G:H8	1.78	0.48
23:BB:492:A:H2'	23:BB:493:G:O4'	2.12	0.48
23:BB:782:A:O2'	25:BC:223:ALA:HB1	2.13	0.48
23:BB:1177:G:H2'	23:BB:1178:C:H6	1.76	0.48
23:BB:1199:U:H1'	38:BQ:2:ARG:HB2	1.95	0.48
23:BB:1220:G:H2'	23:BB:1221:C:H6	1.77	0.48
23:BB:1287:A:H3'	23:BB:1288:G:N2	2.28	0.48
23:BB:1812:U:H2'	23:BB:1813:G:H8	1.78	0.48
23:BB:1878:G:H2'	23:BB:1879:C:H6	1.78	0.48
23:BB:1947:C:O2'	23:BB:1948:G:H5'	2.13	0.48
23:BB:2053:G:O2'	23:BB:2054:A:H5'	2.13	0.48
23:BB:2461:A:H2'	23:BB:2462:C:H6	1.78	0.48
23:BB:2648:G:H2'	23:BB:2649:C:C6	2.48	0.48
24:BV:26:PHE:HB2	24:BV:27:PRO:HD2	1.95	0.48
25:BC:29:PHE:HB2	25:BC:31:PRO:HD3	1.94	0.48
25:BC:163:ILE:HG22	25:BC:164:VAL:N	2.27	0.48
26:BD:5:VAL:HG11	26:BD:28:GLU:CA	2.40	0.48
26:BD:172:VAL:HG21	26:BD:175:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:44:ARG:N	27:BE:44:ARG:CD	2.75	0.48
28:BF:107:VAL:HG12	28:BF:113:PHE:CE1	2.47	0.48
28:BF:165:GLY:HA2	28:BF:168:LEU:HD11	1.95	0.48
30:BH:4:ILE:O	30:BH:37:VAL:HG12	2.14	0.48
33:BL:140:GLY:O	33:BL:141:LYS:O	2.32	0.48
39:BR:53:PHE:HB3	39:BR:55:ASP:CB	2.43	0.48
40:BS:48:LYS:O	40:BS:51:LEU:HB3	2.12	0.48
42:BU:27:VAL:HB	42:BU:33:VAL:HG13	1.95	0.48
43:BW:40:ARG:HG3	43:BW:40:ARG:HH11	1.78	0.48
43:BW:44:PHE:CE2	43:BW:80:SER:HA	2.49	0.48
51:B4:11:CYS:HB3	51:B4:14:CYS:SG	2.52	0.48
52:BI:19:PRO:HB2	52:BI:22:PRO:HD2	1.95	0.48
1:CA:252:U:H2'	1:CA:253:A:C8	2.49	0.48
6:CG:96:ASN:O	6:CG:100:MET:HG2	2.14	0.48
8:CI:6:TYR:HA	8:CI:18:VAL:O	2.13	0.48
8:CI:51:LEU:HD13	8:CI:56:MET:SD	2.53	0.48
10:CK:48:GLY:C	10:CK:50:GLY:H	2.15	0.48
10:CK:78:ILE:H	10:CK:78:ILE:CD1	2.18	0.48
15:CP:6:LEU:HB3	15:CP:17:TYR:HB3	1.94	0.48
22:DA:52:A:H2'	22:DA:53:A:C8	2.45	0.48
23:DB:302:C:H2'	23:DB:303:G:H8	1.77	0.48
23:DB:801:G:N7	27:DE:51:GLU:OE1	2.46	0.48
23:DB:869:G:H2'	23:DB:870:U:O4'	2.13	0.48
23:DB:1439:A:N7	23:DB:1440:U:N1	2.60	0.48
23:DB:1722:A:H2'	23:DB:1723:G:C8	2.48	0.48
23:DB:1824:G:OP1	25:DC:52:HIS:CE1	2.66	0.48
24:DV:44:HIS:O	24:DV:46:LYS:N	2.46	0.48
26:DD:180:VAL:HA	26:DD:187:LEU:HA	1.95	0.48
27:DE:14:VAL:HG12	27:DE:15:SER:N	2.28	0.48
28:DF:34:THR:HG22	28:DF:35:LEU:N	2.29	0.48
29:DG:100:ASN:HA	29:DG:116:LEU:HD11	1.96	0.48
30:DH:69:ALA:O	30:DH:73:ASN:N	2.47	0.48
31:DJ:5:THR:HG21	31:DJ:7:LYS:NZ	2.28	0.48
31:DJ:10:THR:O	31:DJ:11:VAL:HB	2.14	0.48
31:DJ:25:LEU:HD12	31:DJ:62:VAL:CA	2.43	0.48
33:DL:74:THR:O	33:DL:75:ALA:C	2.52	0.48
34:DM:5:LYS:HG3	34:DM:68:PHE:HE1	1.74	0.48
34:DM:117:PHE:HB2	34:DM:124:LEU:CD1	2.42	0.48
36:DO:15:ARG:CD	36:DO:18:LEU:HD12	2.43	0.48
39:DR:67:GLY:H	39:DR:98:ILE:N	2.11	0.48
39:DR:69:GLY:H	39:DR:97:LYS:CB	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:69:GLY:H	39:DR:97:LYS:CG	2.27	0.48
39:DR:77:PHE:O	39:DR:78:ARG:HG2	2.13	0.48
51:D4:36:ARG:HD2	51:D4:37:GLN:O	2.14	0.48
52:DI:59:THR:O	52:DI:59:THR:HG23	2.12	0.48
1:AA:179:A:H2'	1:AA:180:U:C6	2.48	0.48
1:AA:677:U:H2'	1:AA:678:U:C6	2.48	0.48
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.49	0.48
1:AA:1478:U:H2'	1:AA:1479:C:C6	2.48	0.48
1:AA:1506:U:H4'	10:AK:128:VAL:OXT	2.13	0.48
2:AC:178:ARG:O	2:AC:206:ILE:HA	2.14	0.48
9:AJ:41:PRO:O	9:AJ:71:LEU:HD13	2.13	0.48
9:AJ:55:PRO:HA	13:AN:80:ARG:HH22	1.78	0.48
9:AJ:88:MET:C	9:AJ:90:LEU:H	2.17	0.48
13:AN:12:ARG:HH11	13:AN:60:ARG:HH12	1.62	0.48
20:AB:9:LEU:H	20:AB:9:LEU:HD12	1.78	0.48
20:AB:162:VAL:HG11	20:AB:172:ILE:HG12	1.96	0.48
21:AU:26:GLY:C	21:AU:28:LEU:N	2.66	0.48
23:BB:116:C:H2'	23:BB:117:G:H8	1.79	0.48
23:BB:992:C:H2'	23:BB:993:G:C8	2.46	0.48
23:BB:1171:G:H2'	23:BB:1172:C:C1'	2.43	0.48
23:BB:1560:G:H2'	23:BB:1561:C:H6	1.78	0.48
23:BB:1661:G:O2'	23:BB:1662:U:H5'	2.13	0.48
23:BB:1729:U:C5	23:BB:1730:C:H1'	2.48	0.48
23:BB:1729:U:H2'	23:BB:1730:C:H4'	1.95	0.48
23:BB:1957:C:H2'	23:BB:1958:C:H6	1.77	0.48
23:BB:2052:A:H4'	26:BD:148:GLN:CG	2.43	0.48
23:BB:2185:U:H2'	23:BB:2186:G:H8	1.78	0.48
23:BB:2331:G:C5'	43:BW:70:VAL:HG13	2.43	0.48
23:BB:2783:U:H2'	23:BB:2784:U:H6	1.79	0.48
25:BC:168:GLY:O	25:BC:169:ALA:HB3	2.14	0.48
26:BD:86:GLU:CG	26:BD:87:GLY:H	2.26	0.48
27:BE:24:ASN:CG	27:BE:24:ASN:O	2.52	0.48
30:BH:82:SER:HB3	30:BH:90:LEU:CD2	2.43	0.48
33:BL:78:ARG:CG	33:BL:99:ASN:HB3	2.33	0.48
34:BM:41:LEU:HB2	34:BM:93:VAL:CG2	2.43	0.48
35:BN:1:MET:SD	35:BN:2:ARG:HD3	2.54	0.48
37:BP:11:GLN:O	37:BP:12:MET:HG3	2.13	0.48
37:BP:59:THR:HA	37:BP:76:HIS:HA	1.95	0.48
38:BQ:47:ARG:HH12	38:BQ:50:ARG:HD2	1.79	0.48
40:BS:106:VAL:HG12	40:BS:107:VAL:N	2.28	0.48
42:BU:2:ALA:C	42:BU:4:ILE:H	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:24:ARG:HD2	43:BW:59:PHE:HD1	1.77	0.48
44:BX:47:ARG:HG2	44:BX:47:ARG:O	2.13	0.48
46:BZ:8:LYS:HD2	46:BZ:9:TYR:N	2.28	0.48
50:B3:44:ARG:CB	50:B3:45:PRO:HD2	2.43	0.48
52:BI:116:MET:HE1	52:BI:124:MET:O	2.13	0.48
1:CA:26:A:H61	1:CA:558:G:H1'	1.79	0.48
1:CA:218:U:H2'	1:CA:219:U:H6	1.78	0.48
1:CA:1060:U:C4'	9:CJ:54:SER:HB2	2.40	0.48
1:CA:1221:G:OP1	18:CS:35:ARG:HD2	2.13	0.48
1:CA:1311:A:N6	18:CS:1:PRO:HD3	2.22	0.48
1:CA:1472:U:O2'	1:CA:1473:G:H5'	2.13	0.48
3:CD:197:HIS:O	3:CD:201:GLU:HG3	2.13	0.48
4:CE:82:HIS:CE1	4:CE:146:MET:HB2	2.48	0.48
8:CI:116:GLY:O	8:CI:117:LEU:HD23	2.13	0.48
10:CK:121:ARG:HE	21:CU:34:ARG:CD	2.26	0.48
11:CL:73:LEU:HD21	11:CL:103:CYS:HA	1.95	0.48
22:DA:35:C:O2'	22:DA:36:C:H5'	2.13	0.48
23:DB:144:A:N9	41:DT:3:ARG:HD3	2.28	0.48
23:DB:372:G:C8	46:DZ:57:VAL:HG21	2.48	0.48
23:DB:682:G:H5'	49:D2:26:ASN:ND2	2.28	0.48
23:DB:845:A:C6	23:DB:847:U:H1'	2.47	0.48
23:DB:870:U:O2'	23:DB:871:U:H5'	2.14	0.48
23:DB:1957:C:H2'	23:DB:1958:C:H6	1.78	0.48
23:DB:2082:A:N6	23:DB:2237:G:H1'	2.28	0.48
23:DB:2787:C:H4'	26:DD:61:THR:OG1	2.12	0.48
25:DC:84:PRO:C	25:DC:86:ARG:H	2.15	0.48
25:DC:207:ALA:HA	25:DC:211:ARG:HB3	1.95	0.48
28:DF:50:ASP:C	28:DF:52:ALA:N	2.65	0.48
28:DF:108:PRO:HB3	28:DF:113:PHE:CZ	2.48	0.48
29:DG:103:ASN:HA	29:DG:112:VAL:O	2.12	0.48
31:DJ:64:VAL:CG1	31:DJ:65:THR:H	2.17	0.48
32:DK:2:ILE:N	32:DK:33:ALA:HB3	2.27	0.48
32:DK:18:ARG:HB2	32:DK:45:GLU:HG3	1.95	0.48
33:DL:2:ARG:NH1	33:DL:6:LEU:HD13	2.28	0.48
37:DP:7:LEU:O	37:DP:11:GLN:HG2	2.13	0.48
37:DP:26:GLU:O	37:DP:27:VAL:C	2.51	0.48
38:DQ:111:LYS:HZ2	39:DR:52:PRO:HA	1.75	0.48
39:DR:18:GLN:CB	39:DR:99:THR:HA	2.40	0.48
40:DS:9:HIS:HA	40:DS:100:THR:OG1	2.13	0.48
51:D4:26:ILE:HB	51:D4:35:GLN:CB	2.43	0.48
1:AA:208:U:C2'	1:AA:209:U:H5''	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:321:A:O2'	1:AA:322:C:H5'	2.14	0.48
1:AA:426:U:H2'	1:AA:427:U:C6	2.48	0.48
1:AA:755:G:OP2	14:AO:64:LYS:HG2	2.13	0.48
1:AA:953:G:H2'	1:AA:954:G:O4'	2.14	0.48
1:AA:1397:C:H4'	1:AA:1398:A:OP2	2.13	0.48
2:AC:61:LYS:O	2:AC:97:PRO:HD2	2.14	0.48
2:AC:122:GLN:HE22	2:AC:136:ALA:HB1	1.78	0.48
8:AI:18:VAL:HG21	8:AI:82:ILE:HG13	1.95	0.48
8:AI:32:ARG:HD3	8:AI:37:TYR:HD1	1.77	0.48
15:AP:29:ASN:ND2	15:AP:29:ASN:N	2.60	0.48
23:BB:233:A:H61	23:BB:428:A:H61	1.61	0.48
23:BB:478:A:H5''	23:BB:479:A:OP2	2.13	0.48
23:BB:582:A:H2'	23:BB:583:G:C8	2.49	0.48
23:BB:807:U:O2'	23:BB:808:G:H5'	2.14	0.48
23:BB:825:A:H2'	23:BB:826:U:O4'	2.12	0.48
23:BB:1057:A:C8	23:BB:1086:A:C8	3.01	0.48
23:BB:1137:G:H2'	23:BB:1138:G:O4'	2.13	0.48
23:BB:1159:U:H2'	23:BB:1160:G:H8	1.78	0.48
23:BB:1168:G:H2'	23:BB:1169:A:O4'	2.13	0.48
23:BB:1563:U:H2'	23:BB:1564:C:C6	2.48	0.48
23:BB:2329:U:H2'	23:BB:2330:G:C8	2.49	0.48
25:BC:140:VAL:HA	25:BC:191:LEU:HA	1.95	0.48
25:BC:205:GLY:O	25:BC:206:LYS:HG2	2.14	0.48
29:BG:75:VAL:HG23	29:BG:76:ILE:N	2.28	0.48
30:BH:1:MET:N	30:BH:23:ALA:HB2	2.29	0.48
30:BH:128:HIS:CB	30:BH:144:VAL:HB	2.38	0.48
34:BM:62:LYS:CB	34:BM:104:GLU:HB2	2.43	0.48
34:BM:95:LEU:HD22	34:BM:98:PRO:CG	2.44	0.48
35:BN:99:LYS:CE	47:B0:39:ARG:HH12	2.27	0.48
37:BP:13:LYS:HE3	37:BP:77:SER:HB3	1.96	0.48
37:BP:77:SER:N	37:BP:78:PRO:CD	2.76	0.48
39:BR:53:PHE:HA	39:BR:54:VAL:HB	1.96	0.48
39:BR:76:LYS:HE3	39:BR:78:ARG:HD2	1.95	0.48
40:BS:4:ILE:HG22	40:BS:5:ALA:H	1.79	0.48
43:BW:45:HIS:CE1	43:BW:64:GLY:HA3	2.49	0.48
46:BZ:31:ASP:HA	46:BZ:47:LYS:O	2.14	0.48
51:B4:7:VAL:HG12	51:B4:8:LYS:H	1.79	0.48
1:CA:432:A:H2'	1:CA:433:G:H5'	1.96	0.48
1:CA:685:G:O2'	1:CA:686:U:H5'	2.14	0.48
1:CA:930:C:H2'	1:CA:931:C:H6	1.78	0.48
1:CA:966:G:H2'	1:CA:967:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1125:U:O2	1:CA:1126:U:H6	1.97	0.48
1:CA:1164:G:O2'	1:CA:1165:U:H5'	2.12	0.48
1:CA:1238:A:N3	1:CA:1241:G:H1'	2.29	0.48
1:CA:1343:G:H2'	1:CA:1344:C:H6	1.76	0.48
2:CC:178:ARG:HG2	2:CC:205:GLU:O	2.14	0.48
4:CE:89:THR:HG23	4:CE:90:GLY:N	2.29	0.48
6:CG:45:ALA:HB2	6:CG:116:ALA:HA	1.94	0.48
9:CJ:44:THR:HG21	9:CJ:70:HIS:ND1	2.29	0.48
10:CK:85:VAL:CG2	10:CK:92:ARG:HH12	2.26	0.48
12:CM:106:ARG:HH11	12:CM:106:ARG:HA	1.78	0.48
13:CN:26:LEU:HD21	13:CN:47:LEU:HG	1.95	0.48
23:DB:467:G:OP1	49:D2:33:ARG:HB3	2.13	0.48
23:DB:547:A:N3	23:DB:547:A:C2'	2.72	0.48
23:DB:827:U:H5'	23:DB:828:U:O5'	2.13	0.48
23:DB:850:U:H2'	23:DB:851:C:H6	1.78	0.48
23:DB:972:A:OP1	23:DB:974:G:H5'	2.12	0.48
23:DB:1560:G:H2'	23:DB:1561:C:H6	1.79	0.48
25:DC:90:ILE:O	25:DC:91:ALA:HB3	2.13	0.48
25:DC:136:VAL:HA	25:DC:165:ALA:CA	2.43	0.48
25:DC:142:ASN:HA	25:DC:153:LEU:HD21	1.96	0.48
26:DD:15:PHE:CA	37:DP:79:VAL:HG11	2.40	0.48
27:DE:116:ASP:CG	27:DE:185:LYS:HE2	2.33	0.48
28:DF:7:TYR:O	28:DF:12:VAL:HG23	2.13	0.48
28:DF:66:ILE:HG22	28:DF:66:ILE:O	2.12	0.48
28:DF:121:PHE:CE1	28:DF:166:ARG:HG2	2.49	0.48
29:DG:36:LEU:HD22	29:DG:40:VAL:HG11	1.96	0.48
31:DJ:58:ASN:O	31:DJ:60:ASP:N	2.42	0.48
31:DJ:81:ILE:HG13	31:DJ:83:GLY:H	1.78	0.48
34:DM:34:LYS:HG3	34:DM:98:PRO:O	2.12	0.48
38:DQ:30:VAL:O	38:DQ:31:TYR:HB2	2.14	0.48
39:DR:11:GLN:N	39:DR:21:ARG:NH2	2.61	0.48
42:DU:69:VAL:CG1	42:DU:77:GLY:HA2	2.41	0.48
52:DI:99:LYS:HD3	52:DI:99:LYS:N	2.28	0.48
1:AA:239:U:H5''	1:AA:239:U:H6	1.78	0.48
1:AA:560:A:H5'	1:AA:566:G:N2	2.28	0.48
1:AA:575:G:H4'	1:AA:576:C:O5'	2.13	0.48
1:AA:672:U:H2'	1:AA:673:A:H8	1.78	0.48
1:AA:723:U:O4'	21:AU:48:LYS:HD3	2.12	0.48
1:AA:911:U:H2'	1:AA:912:C:C6	2.49	0.48
1:AA:1456:A:H2'	1:AA:1457:G:O4'	2.14	0.48
1:AA:1504:G:H4'	1:AA:1505:G:C4	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:66:THR:HA	2:AC:101:ASN:O	2.14	0.48
3:AD:10:LEU:HD21	3:AD:62:ARG:CD	2.41	0.48
4:AE:41:GLY:HA2	4:AE:118:GLY:HA2	1.94	0.48
16:AQ:60:ILE:HB	16:AQ:72:TRP:HE3	1.78	0.48
23:BB:7:G:H2'	23:BB:8:C:O4'	2.13	0.48
23:BB:189:G:OP1	46:BZ:24:ILE:HD12	2.13	0.48
23:BB:580:U:O2'	23:BB:581:C:H5'	2.14	0.48
23:BB:587:C:H6	23:BB:587:C:O5'	1.97	0.48
23:BB:984:A:P	23:BB:985:C:H41	2.37	0.48
23:BB:1255:U:C2	27:BE:67:ARG:HA	2.48	0.48
23:BB:2354:C:C4'	43:BW:30:VAL:HG13	2.42	0.48
23:BB:2537:U:H2'	23:BB:2538:C:H6	1.76	0.48
23:BB:2671:G:H2'	23:BB:2672:U:C6	2.49	0.48
25:BC:38:LYS:HD3	25:BC:39:SER:O	2.12	0.48
25:BC:262:THR:O	25:BC:262:THR:HG23	2.13	0.48
26:BD:83:ARG:O	26:BD:84:LEU:HB3	2.13	0.48
33:BL:103:ILE:CD1	33:BL:105:ILE:H	2.24	0.48
34:BM:64:TRP:O	34:BM:102:LEU:N	2.47	0.48
35:BN:8:ARG:CZ	35:BN:46:ARG:HD2	2.44	0.48
36:BO:64:TYR:CE1	36:BO:74:VAL:HG21	2.49	0.48
37:BP:7:LEU:O	37:BP:11:GLN:HG2	2.13	0.48
37:BP:61:ARG:HH22	37:BP:63:ILE:HD11	1.77	0.48
38:BQ:21:LYS:HB3	38:BQ:23:TYR:CD1	2.48	0.48
41:BT:31:VAL:CG1	41:BT:82:LYS:HE3	2.44	0.48
43:BW:30:VAL:CG1	43:BW:31:LEU:N	2.76	0.48
46:BZ:5:ILE:HG23	46:BZ:63:ARG:HE	1.78	0.48
48:B1:20:TYR:O	48:B1:21:THR:HB	2.13	0.48
50:B3:7:ARG:HH21	50:B3:11:LYS:NZ	2.08	0.48
1:CA:235:C:H2'	1:CA:236:A:H8	1.78	0.48
1:CA:238:A:C2'	1:CA:239:U:H5''	2.44	0.48
1:CA:546:A:H4'	1:CA:548:G:O3'	2.13	0.48
1:CA:730:G:O6	14:CO:50:HIS:NE2	2.46	0.48
1:CA:766:A:H2	1:CA:1525:G:N3	2.11	0.48
1:CA:1174:G:O2'	1:CA:1175:G:H5'	2.13	0.48
1:CA:1278:G:H3'	1:CA:1279:G:H5'	1.95	0.48
1:CA:1426:G:O2'	1:CA:1427:C:H5'	2.13	0.48
5:CF:99:ALA:O	5:CF:100:SER:HB2	2.13	0.48
6:CG:17:PHE:HD2	6:CG:58:LEU:HD22	1.79	0.48
7:CH:77:VAL:CG2	7:CH:126:CYS:HA	2.44	0.48
8:CI:32:ARG:HD3	8:CI:37:TYR:CD1	2.48	0.48
9:CJ:17:LEU:CD1	9:CJ:96:VAL:HG13	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CB:76:SER:O	20:CB:80:LYS:HG2	2.14	0.48
22:DA:12:C:H4'	22:DA:15:A:N6	2.29	0.48
23:DB:905:A:O2'	23:DB:906:U:H5'	2.14	0.48
23:DB:918:A:H2'	23:DB:919:U:C5'	2.40	0.48
23:DB:1176:U:H2'	23:DB:1177:G:O4'	2.14	0.48
23:DB:1438:U:N3	23:DB:1552:A:N6	2.61	0.48
23:DB:1729:U:C5	23:DB:1730:C:H1'	2.49	0.48
23:DB:1747:U:H2'	23:DB:1748:C:C6	2.49	0.48
23:DB:1916:A:H2'	23:DB:1917:U:O4'	2.14	0.48
23:DB:2305:U:N3	28:DF:149:ARG:HB3	2.26	0.48
23:DB:2327:A:H2'	23:DB:2328:A:C8	2.49	0.48
23:DB:2336:A:HO2'	23:DB:2337:G:P	2.36	0.48
23:DB:2811:G:O2'	23:DB:2812:G:H5'	2.14	0.48
23:DB:2821:A:H5''	26:DD:167:ASN:HD21	1.79	0.48
24:DV:21:ARG:CZ	24:DV:87:GLN:HB3	2.44	0.48
25:DC:71:ASP:HA	25:DC:117:SER:OG	2.13	0.48
33:DL:90:VAL:O	33:DL:122:VAL:HG11	2.14	0.48
33:DL:122:VAL:HG12	33:DL:123:ARG:N	2.28	0.48
39:DR:6:GLN:NE2	39:DR:6:GLN:N	2.62	0.48
52:DI:1:ALA:C	52:DI:2:LYS:HD2	2.33	0.48
1:AA:333:U:H2'	1:AA:334:C:C6	2.49	0.48
1:AA:684:U:O2'	10:AK:39:ASN:HB3	2.14	0.48
1:AA:720:C:C5'	17:AR:40:PRO:HA	2.43	0.48
1:AA:1220:G:H4'	18:AS:33:TRP:O	2.14	0.48
7:AH:29:SER:HB3	7:AH:32:LYS:HG3	1.95	0.48
12:AM:67:ASP:CG	28:BF:111:ARG:HB3	2.34	0.48
15:AP:20:VAL:HG21	15:AP:32:PHE:CD2	2.49	0.48
20:AB:23:ASN:C	20:AB:23:ASN:HD22	2.16	0.48
20:AB:66:ILE:C	20:AB:67:LEU:HD13	2.34	0.48
22:BA:49:C:OP2	36:BO:30:ARG:NH2	2.47	0.48
23:BB:39:G:H2'	23:BB:40:U:C6	2.48	0.48
23:BB:350:G:H2'	23:BB:351:C:C6	2.49	0.48
23:BB:765:C:H2'	23:BB:766:U:C6	2.48	0.48
23:BB:898:C:N3	23:BB:899:A:N6	2.61	0.48
23:BB:1230:A:H2'	23:BB:1231:U:C6	2.49	0.48
23:BB:1430:G:H2'	23:BB:1431:A:H8	1.77	0.48
23:BB:1533:C:O2'	23:BB:1534:U:H5'	2.13	0.48
23:BB:1957:C:H2'	23:BB:1958:C:C6	2.48	0.48
23:BB:2373:G:H2'	23:BB:2374:C:C6	2.49	0.48
23:BB:2874:C:OP1	35:BN:5:LYS:HG2	2.13	0.48
24:BV:21:ARG:HE	24:BV:87:GLN:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:19:VAL:CG1	25:BC:20:ASN:H	2.18	0.48
25:BC:216:ARG:HB3	25:BC:217:PRO:HD2	1.94	0.48
26:BD:111:GLY:HA3	26:BD:194:PRO:O	2.13	0.48
26:BD:181:ASP:O	26:BD:184:ARG:HB3	2.13	0.48
32:BK:20:MET:O	32:BK:42:THR:N	2.47	0.48
33:BL:126:ARG:O	33:BL:127:VAL:HG13	2.13	0.48
34:BM:80:VAL:HG12	34:BM:81:ARG:HG2	1.95	0.48
37:BP:23:ASP:H	37:BP:93:LYS:CE	2.22	0.48
38:BQ:35:PHE:HB3	38:BQ:39:ILE:HD12	1.94	0.48
38:BQ:59:LEU:HD11	38:BQ:63:ARG:NH2	2.29	0.48
38:BQ:89:ILE:O	38:BQ:89:ILE:HG12	2.14	0.48
38:BQ:105:PHE:O	38:BQ:109:VAL:HG13	2.13	0.48
41:BT:69:ARG:N	41:BT:75:GLY:HA3	2.27	0.48
42:BU:2:ALA:C	42:BU:3:LYS:HD3	2.34	0.48
43:BW:35:ILE:HG13	43:BW:36:ILE:N	2.27	0.48
48:B1:37:LYS:NZ	48:B1:46:VAL:HA	2.29	0.48
1:CA:239:U:H5''	1:CA:239:U:H6	1.78	0.48
1:CA:303:A:H2'	1:CA:304:U:O4'	2.13	0.48
1:CA:333:U:H2'	1:CA:334:C:C6	2.48	0.48
1:CA:619:U:N3	3:CD:130:ASN:ND2	2.58	0.48
1:CA:844:G:N7	1:CA:846:G:N3	2.62	0.48
1:CA:1041:G:H2'	1:CA:1042:A:C8	2.48	0.48
2:CC:168:ARG:HG2	2:CC:169:GLU:H	1.78	0.48
3:CD:44:LYS:NZ	3:CD:46:ARG:HA	2.28	0.48
3:CD:107:GLY:O	3:CD:157:ALA:HB1	2.13	0.48
7:CH:35:ILE:HG22	7:CH:39:LEU:HD23	1.94	0.48
10:CK:70:ALA:C	10:CK:72:ALA:N	2.67	0.48
23:DB:321:U:OP2	27:DE:130:LYS:HA	2.14	0.48
23:DB:659:G:C5'	27:DE:95:LYS:HD3	2.44	0.48
23:DB:741:U:H2'	23:DB:742:A:C8	2.48	0.48
23:DB:866:A:N1	23:DB:913:U:H4'	2.29	0.48
23:DB:938:G:O2'	23:DB:939:G:H5'	2.13	0.48
23:DB:1047:G:H1'	23:DB:1110:G:N2	2.28	0.48
23:DB:1351:C:O2'	23:DB:1571:A:H1'	2.14	0.48
23:DB:1529:G:H2'	23:DB:1530:G:C8	2.49	0.48
23:DB:2636:C:H5'	26:DD:80:TRP:HZ2	1.79	0.48
25:DC:20:ASN:CB	25:DC:202:ARG:HD3	2.43	0.48
25:DC:193:GLU:C	25:DC:194:VAL:HG22	2.34	0.48
31:DJ:41:LYS:O	38:DQ:63:ARG:NH2	2.46	0.48
31:DJ:130:HIS:O	31:DJ:131:ASN:C	2.52	0.48
33:DL:3:LEU:HD23	33:DL:4:ASN:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:140:GLY:O	33:DL:142:ILE:N	2.47	0.48
37:DP:96:LEU:HD12	37:DP:96:LEU:N	2.29	0.48
38:DQ:44:TYR:O	38:DQ:48:ASP:N	2.44	0.48
38:DQ:47:ARG:HA	38:DQ:47:ARG:NH1	2.29	0.48
47:D0:12:ARG:HG3	47:D0:13:GLY:N	2.24	0.48
1:AA:333:U:H2'	1:AA:334:C:H6	1.79	0.48
1:AA:418:C:H2'	1:AA:419:C:H6	1.79	0.48
1:AA:434:U:O2	1:AA:434:U:H2'	2.14	0.48
1:AA:734:G:H2'	1:AA:735:C:C6	2.49	0.48
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.48	0.48
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.77	0.48
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.96	0.48
1:AA:1475:G:OP1	23:BB:1689:A:H1'	2.13	0.48
2:AC:77:GLY:O	2:AC:79:LYS:N	2.46	0.48
3:AD:69:ARG:HE	3:AD:69:ARG:CA	2.25	0.48
6:AG:58:LEU:HB3	6:AG:59:GLU:OE2	2.14	0.48
6:AG:142:ARG:C	6:AG:146:ALA:HB3	2.34	0.48
10:AK:83:VAL:CG2	10:AK:109:ILE:HG12	2.44	0.48
12:AM:33:LEU:HB3	12:AM:38:ILE:O	2.14	0.48
13:AN:74:ARG:O	13:AN:74:ARG:HD3	2.13	0.48
16:AQ:68:LYS:O	16:AQ:69:THR:CB	2.61	0.48
20:AB:160:LEU:O	20:AB:182:VAL:HA	2.14	0.48
23:BB:309:A:H1'	23:BB:329:G:N3	2.29	0.48
23:BB:1225:G:H5''	39:BR:78:ARG:HH22	1.78	0.48
23:BB:1295:C:H2'	23:BB:1296:G:C8	2.49	0.48
23:BB:2197:U:O2'	23:BB:2198:A:H2'	2.14	0.48
23:BB:2471:A:O2'	23:BB:2472:G:O5'	2.30	0.48
23:BB:2654:A:N1	23:BB:2665:A:H5''	2.28	0.48
23:BB:2743:U:H3'	23:BB:2744:G:H5''	1.96	0.48
23:BB:2819:G:H2'	23:BB:2821:A:N7	2.29	0.48
24:BV:77:VAL:HG13	34:BM:134:THR:O	2.13	0.48
26:BD:2:ILE:CG2	26:BD:204:LYS:HA	2.33	0.48
34:BM:73:ILE:HD13	34:BM:90:GLU:HG2	1.94	0.48
34:BM:73:ILE:CD1	34:BM:92:TRP:H	2.27	0.48
34:BM:108:VAL:HG23	34:BM:112:LEU:CD1	2.40	0.48
36:BO:26:LEU:HD13	36:BO:92:PHE:O	2.14	0.48
39:BR:47:VAL:C	39:BR:49:ILE:N	2.67	0.48
40:BS:27:LYS:H	40:BS:27:LYS:CD	2.22	0.48
40:BS:29:VAL:C	40:BS:31:GLN:N	2.67	0.48
41:BT:99:ALA:HB3	44:BX:30:MET:SD	2.54	0.48
44:BX:22:LEU:CD2	44:BX:25:GLN:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:34:ARG:NE	49:B2:42:LEU:HD13	2.26	0.48
1:CA:979:C:H2'	1:CA:980:C:O4'	2.13	0.48
1:CA:1238:A:C2	1:CA:1241:G:H1'	2.49	0.48
3:CD:11:SER:HA	3:CD:18:LEU:HD23	1.95	0.48
3:CD:78:ALA:HB1	3:CD:88:ASN:HB2	1.96	0.48
4:CE:33:THR:HB	4:CE:49:TYR:HE1	1.79	0.48
6:CG:55:LYS:HG3	6:CG:56:SER:N	2.29	0.48
6:CG:91:ARG:HB3	6:CG:92:PRO:HD2	1.95	0.48
8:CI:120:ALA:O	8:CI:121:ARG:HG2	2.13	0.48
15:CP:53:ASP:O	15:CP:57:ILE:HG22	2.13	0.48
18:CS:51:HIS:HB2	18:CS:56:HIS:CD2	2.49	0.48
19:CT:28:ARG:HA	19:CT:31:ILE:HD12	1.94	0.48
19:CT:66:ILE:HA	19:CT:70:LYS:HZ2	1.79	0.48
23:DB:28:A:O2'	23:DB:29:U:H5'	2.13	0.48
23:DB:143:C:O2	41:DT:3:ARG:HD2	2.14	0.48
23:DB:354:A:H2'	23:DB:355:U:C6	2.48	0.48
23:DB:396:G:H2'	23:DB:397:U:C6	2.48	0.48
23:DB:458:G:C5'	49:D2:39:ARG:HB2	2.30	0.48
23:DB:1099:G:C5'	52:DI:3:LYS:C	2.82	0.48
23:DB:1278:C:O2'	23:DB:1279:G:H5'	2.14	0.48
23:DB:1312:U:H5'	54:DB:3537:HOH:O	2.13	0.48
23:DB:1561:C:H2'	23:DB:1562:U:C6	2.48	0.48
23:DB:1957:C:H2'	23:DB:1958:C:C6	2.48	0.48
23:DB:1999:C:O2'	23:DB:2000:C:H5'	2.14	0.48
23:DB:2181:U:H2'	23:DB:2182:U:C6	2.48	0.48
23:DB:2240:U:O2'	23:DB:2241:A:H5'	2.12	0.48
23:DB:2243:U:O2	23:DB:2434:A:C2	2.67	0.48
23:DB:2400:G:O2'	23:DB:2401:U:H5'	2.13	0.48
23:DB:2444:G:P	27:DE:63:LYS:HZ3	2.37	0.48
23:DB:2665:A:O2'	23:DB:2666:C:H5'	2.13	0.48
23:DB:2771:C:H2'	23:DB:2772:C:H6	1.78	0.48
25:DC:216:ARG:O	25:DC:218:THR:N	2.46	0.48
26:DD:7:LYS:O	26:DD:198:GLY:HA2	2.14	0.48
26:DD:17:GLU:OE1	32:DK:73:ASP:HB3	2.12	0.48
27:DE:49:ARG:C	27:DE:51:GLU:H	2.16	0.48
33:DL:17:LYS:HG3	33:DL:18:ARG:H	1.79	0.48
33:DL:120:VAL:HG12	33:DL:122:VAL:CG2	2.42	0.48
35:DN:4:ARG:CD	35:DN:4:ARG:N	2.77	0.48
37:DP:29:VAL:HG22	37:DP:84:SER:HB2	1.95	0.48
37:DP:47:ILE:HG23	37:DP:63:ILE:HG12	1.95	0.48
39:DR:5:PHE:HB2	39:DR:37:GLU:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:30:ILE:O	41:DT:85:VAL:HG22	2.14	0.48
49:D2:16:HIS:CE1	49:D2:44:VAL:HA	2.49	0.48
50:D3:7:ARG:HH11	50:D3:7:ARG:CA	2.26	0.48
1:AA:72:A:H2'	1:AA:73:C:C6	2.47	0.48
1:AA:343:U:O2'	1:AA:344:A:H2'	2.14	0.48
1:AA:513:C:H2'	1:AA:514:C:C6	2.49	0.48
1:AA:577:G:O2'	1:AA:578:C:H5'	2.14	0.48
1:AA:1014:A:C2	1:AA:1219:A:H1'	2.49	0.48
2:AC:5:HIS:CD2	2:AC:7:ASN:HB2	2.49	0.48
4:AE:33:THR:O	4:AE:34:ALA:CB	2.61	0.48
4:AE:63:MET:O	4:AE:66:ALA:HB3	2.14	0.48
16:AQ:10:ARG:NH1	16:AQ:11:VAL:HB	2.28	0.48
19:AT:49:ALA:HA	19:AT:52:GLU:HB3	1.96	0.48
20:AB:45:THR:HA	20:AB:48:MET:HG3	1.95	0.48
22:BA:76:G:H2'	22:BA:77:U:O4'	2.13	0.48
23:BB:28:A:O2'	23:BB:583:G:H5'	2.14	0.48
23:BB:526:A:N6	23:BB:2626:C:H4'	2.29	0.48
23:BB:636:G:O6	33:BL:76:GLU:HG2	2.14	0.48
23:BB:974:G:O4'	23:BB:990:A:N6	2.47	0.48
23:BB:1141:U:OP1	31:BJ:27:ARG:HD3	2.13	0.48
23:BB:1144:A:O2'	23:BB:1145:C:H5'	2.13	0.48
23:BB:1450:G:N2	23:BB:1452:G:N1	2.55	0.48
23:BB:1708:C:H2'	23:BB:1709:U:H6	1.78	0.48
23:BB:2052:A:N3	23:BB:2052:A:H2'	2.29	0.48
23:BB:2213:U:H2'	23:BB:2214:C:H5'	1.96	0.48
23:BB:2472:G:H2'	23:BB:2475:C:H42	1.79	0.48
25:BC:16:VAL:O	25:BC:16:VAL:HG12	2.14	0.48
26:BD:4:LEU:HD23	26:BD:49:GLN:HG2	1.96	0.48
26:BD:84:LEU:O	26:BD:85:ALA:HB3	2.14	0.48
26:BD:170:VAL:HG11	26:BD:194:PRO:HB2	1.95	0.48
27:BE:72:SER:O	27:BE:73:ILE:HD13	2.14	0.48
30:BH:84:ALA:CA	30:BH:90:LEU:HG	2.39	0.48
32:BK:25:LEU:C	32:BK:27:GLY:H	2.16	0.48
35:BN:19:ALA:O	35:BN:21:PHE:N	2.47	0.48
35:BN:114:GLU:HG2	35:BN:115:LEU:N	2.25	0.48
43:BW:21:GLY:HA3	43:BW:32:ALA:HB1	1.96	0.48
1:CA:220:G:O2'	1:CA:221:C:H5'	2.13	0.48
1:CA:254:G:O2'	1:CA:255:G:H5'	2.13	0.48
1:CA:276:G:H5'	16:CQ:16:MET:SD	2.54	0.48
1:CA:471:U:H2'	1:CA:472:U:H6	1.78	0.48
1:CA:1036:A:H2'	1:CA:1037:C:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1325:C:O2'	1:CA:1326:U:H5'	2.13	0.48
3:CD:115:GLN:NE2	3:CD:153:ARG:HH22	2.11	0.48
5:CF:39:LEU:O	5:CF:39:LEU:HD22	2.14	0.48
23:DB:244:A:H2'	23:DB:245:G:O4'	2.14	0.48
23:DB:633:A:H2'	23:DB:634:C:H5'	1.95	0.48
23:DB:722:A:H2'	23:DB:723:C:O4'	2.13	0.48
23:DB:1196:C:H2'	23:DB:1197:G:C8	2.48	0.48
23:DB:1221:C:O2'	23:DB:1222:U:H5'	2.13	0.48
23:DB:1817:G:H5''	25:DC:86:ARG:HH11	1.78	0.48
23:DB:2052:A:OP1	26:DD:145:SER:HB3	2.13	0.48
23:DB:2229:U:H2'	23:DB:2230:G:H8	1.79	0.48
23:DB:2250:G:C5	34:DM:81:ARG:HG2	2.48	0.48
23:DB:2299:U:H2'	23:DB:2300:C:C6	2.49	0.48
23:DB:2712:C:H2'	23:DB:2714:G:O3'	2.13	0.48
25:DC:78:GLU:CD	25:DC:100:ARG:HH21	2.17	0.48
26:DD:8:LYS:NZ	37:DP:5:LYS:HG3	2.27	0.48
26:DD:174:SER:C	26:DD:175:LEU:HD12	2.34	0.48
28:DF:141:ASP:O	28:DF:142:TYR:HB3	2.14	0.48
30:DH:50:ARG:HD3	30:DH:54:LEU:HD12	1.95	0.48
31:DJ:61:LYS:O	31:DJ:62:VAL:HG13	2.13	0.48
31:DJ:106:LYS:C	31:DJ:108:MET:H	2.16	0.48
32:DK:105:ARG:HD3	32:DK:105:ARG:H	1.77	0.48
33:DL:62:PRO:HA	50:D3:12:ARG:HH11	1.78	0.48
36:DO:67:ASN:HD22	36:DO:68:LYS:N	2.12	0.48
36:DO:86:GLY:O	36:DO:88:LYS:N	2.46	0.48
37:DP:54:LEU:HD22	37:DP:55:HIS:H	1.78	0.48
39:DR:64:VAL:HG13	39:DR:65:ALA:N	2.29	0.48
40:DS:10:ALA:O	40:DS:11:ARG:HB3	2.14	0.48
42:DU:46:LYS:HA	42:DU:47:PRO:HD3	1.63	0.48
43:DW:72:GLY:C	43:DW:74:LYS:H	2.17	0.48
44:DX:28:LEU:HB3	44:DX:42:LEU:HG	1.95	0.48
49:D2:7:PRO:O	49:D2:8:SER:HB3	2.13	0.48
49:D2:39:ARG:HG3	49:D2:39:ARG:HH11	1.79	0.48
52:DI:85:ILE:HD12	52:DI:87:SER:O	2.14	0.48
1:AA:87:C:N3	1:AA:88:U:H1'	2.29	0.48
1:AA:109:A:H4'	1:AA:110:C:OP2	2.14	0.48
1:AA:462:G:H3'	1:AA:463:U:H5''	1.95	0.48
1:AA:541:G:H2'	1:AA:542:G:H8	1.79	0.48
1:AA:588:G:H5'	7:AH:2:MET:O	2.14	0.48
1:AA:719:C:H1'	17:AR:37:LYS:HE3	1.96	0.48
1:AA:1343:G:H2'	1:AA:1344:C:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:H4'	8:AI:121:ARG:HH11	1.79	0.48
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.79	0.48
1:AA:1473:G:O2'	23:BB:1702:G:H4'	2.14	0.48
2:AC:78:LYS:H	2:AC:81:GLU:HB3	1.79	0.48
3:AD:194:ILE:HD11	3:AD:199:ILE:HD11	1.95	0.48
4:AE:104:ILE:O	4:AE:104:ILE:HG23	2.14	0.48
9:AJ:80:THR:N	9:AJ:84:VAL:HG11	2.29	0.48
11:AL:80:LEU:O	11:AL:97:VAL:HG23	2.14	0.48
12:AM:58:GLU:HA	12:AM:61:LYS:HE2	1.94	0.48
20:AB:80:LYS:O	20:AB:84:LEU:N	2.47	0.48
22:BA:29:A:H3'	22:BA:30:C:C6	2.45	0.48
22:BA:94:A:H2'	22:BA:95:U:O4'	2.14	0.48
23:BB:639:U:H2'	23:BB:640:C:H6	1.79	0.48
23:BB:1081:U:C5'	52:BI:126:ARG:HD2	2.44	0.48
23:BB:1156:A:N6	38:BQ:47:ARG:CD	2.77	0.48
23:BB:1599:U:H2'	23:BB:1600:C:H6	1.78	0.48
23:BB:2152:G:H2'	23:BB:2153:C:C6	2.49	0.48
23:BB:2543:G:H2'	23:BB:2544:G:O4'	2.14	0.48
25:BC:174:ARG:HG3	25:BC:180:MET:SD	2.53	0.48
30:BH:1:MET:C	30:BH:21:VAL:HG12	2.34	0.48
30:BH:89:LYS:HZ2	30:BH:123:ARG:HD3	1.79	0.48
30:BH:100:ALA:HB1	30:BH:110:VAL:CG2	2.44	0.48
31:BJ:5:THR:HB	31:BJ:45:THR:HG23	1.96	0.48
31:BJ:43:GLU:HB3	38:BQ:99:VAL:HG12	1.96	0.48
31:BJ:49:ASP:O	31:BJ:50:THR:HB	2.14	0.48
33:BL:21:ARG:HB3	33:BL:21:ARG:NH1	2.28	0.48
33:BL:61:LEU:N	33:BL:61:LEU:HD13	2.28	0.48
33:BL:85:VAL:HG21	33:BL:98:ALA:N	2.16	0.48
34:BM:109:PRO:HA	34:BM:112:LEU:HD22	1.95	0.48
35:BN:17:ARG:O	35:BN:21:PHE:HB2	2.14	0.48
36:BO:53:THR:O	36:BO:54:VAL:C	2.52	0.48
42:BU:70:ALA:O	42:BU:72:PHE:N	2.47	0.48
47:B0:35:GLU:OE2	47:B0:43:THR:HG22	2.13	0.48
49:B2:30:VAL:HA	49:B2:33:ARG:HD2	1.96	0.48
52:BI:77:VAL:HG23	52:BI:78:LEU:N	2.29	0.48
1:CA:251:G:H4'	1:CA:252:U:H5'	1.94	0.48
1:CA:840:C:C2	1:CA:842:U:H4'	2.48	0.48
1:CA:920:U:H2'	1:CA:921:U:C6	2.49	0.48
1:CA:1000:A:O2'	1:CA:1001:C:H5'	2.14	0.48
1:CA:1129:C:H1'	1:CA:1146:A:N6	2.28	0.48
1:CA:1437:A:H2'	1:CA:1438:G:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1456:A:H2'	1:CA:1457:G:C8	2.49	0.48
2:CC:76:ILE:O	2:CC:83:VAL:HG23	2.13	0.48
6:CG:30:MET:HG3	6:CG:34:LYS:O	2.14	0.48
9:CJ:40:ILE:HD11	9:CJ:73:LEU:HB3	1.96	0.48
9:CJ:40:ILE:CG1	9:CJ:73:LEU:HB3	2.43	0.48
14:CO:62:ARG:NH1	14:CO:86:LEU:HD21	2.28	0.48
23:DB:106:C:H2'	23:DB:107:G:C8	2.49	0.48
23:DB:230:G:H2'	23:DB:231:A:H8	1.79	0.48
23:DB:561:G:H1'	38:DQ:40:LYS:HE2	1.96	0.48
23:DB:1091:G:O2'	23:DB:1092:C:H5'	2.14	0.48
23:DB:1210:G:H4'	23:DB:1211:C:OP2	2.14	0.48
23:DB:1289:C:H2'	23:DB:1290:C:C6	2.49	0.48
23:DB:1771:C:O2'	23:DB:1772:A:H5'	2.14	0.48
23:DB:1938:A:O2'	23:DB:1939:U:H5''	2.14	0.48
23:DB:2005:A:H5''	54:DB:3350:HOH:O	2.13	0.48
23:DB:2352:A:H2'	23:DB:2353:G:O4'	2.13	0.48
23:DB:2382:G:H1'	50:D3:38:LYS:NZ	2.29	0.48
23:DB:2398:U:H2'	23:DB:2399:G:C8	2.48	0.48
23:DB:2645:G:H3'	23:DB:2646:C:C5'	2.44	0.48
23:DB:2708:G:O2'	23:DB:2709:G:H5'	2.13	0.48
25:DC:84:PRO:O	25:DC:86:ARG:N	2.44	0.48
27:DE:120:VAL:O	27:DE:189:THR:HG21	2.14	0.48
28:DF:23:SER:C	28:DF:25:MET:H	2.17	0.48
29:DG:51:PHE:CE1	29:DG:53:PRO:HG3	2.48	0.48
29:DG:174:LYS:O	29:DG:175:LYS:HB2	2.14	0.48
30:DH:24:GLY:O	30:DH:26:ALA:N	2.47	0.48
33:DL:51:GLU:HG3	50:D3:58:ILE:HG22	1.96	0.48
36:DO:26:LEU:HD22	36:DO:93:ASP:HA	1.95	0.48
38:DQ:78:PHE:HE1	38:DQ:82:LEU:HD13	1.78	0.48
39:DR:6:GLN:CG	39:DR:7:SER:N	2.77	0.48
39:DR:76:LYS:O	39:DR:77:PHE:HB2	2.14	0.48
40:DS:39:THR:O	40:DS:39:THR:HG23	2.13	0.48
41:DT:31:VAL:HG13	41:DT:32:LEU:N	2.25	0.48
43:DW:33:GLY:C	43:DW:66:VAL:HG23	2.35	0.48
45:DY:4:ILE:HG12	45:DY:5:LYS:CG	2.41	0.48
49:D2:13:ASN:C	49:D2:15:SER:H	2.17	0.48
52:DI:121:ILE:HD11	52:DI:122:GLU:OE2	2.13	0.48
1:AA:87:C:H2'	1:AA:88:U:C4'	2.44	0.47
1:AA:238:A:C2'	1:AA:239:U:H5''	2.43	0.47
1:AA:608:A:H2'	1:AA:609:A:O4'	2.14	0.47
1:AA:659:U:H2'	1:AA:660:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1215:G:H5'	1:AA:1215:G:H8	1.78	0.47
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.49	0.47
1:AA:1448:C:H2'	1:AA:1449:C:H6	1.79	0.47
3:AD:94:GLU:CA	3:AD:103:ARG:HH22	2.27	0.47
4:AE:40:ASP:C	4:AE:42:ASN:H	2.17	0.47
5:AF:66:ALA:HB1	5:AF:67:PRO:HD2	1.96	0.47
9:AJ:87:LEU:HB3	9:AJ:88:MET:HE3	1.94	0.47
10:AK:15:VAL:HG21	10:AK:41:LEU:CD1	2.44	0.47
12:AM:11:HIS:O	12:AM:12:LYS:HG2	2.14	0.47
15:AP:12:LYS:C	15:AP:14:ARG:H	2.17	0.47
15:AP:29:ASN:N	15:AP:29:ASN:HD22	2.11	0.47
15:AP:67:ILE:HG13	15:AP:71:VAL:CG1	2.42	0.47
17:AR:70:THR:OG1	17:AR:71:ASP:N	2.46	0.47
20:AB:163:ILE:HG13	20:AB:185:ILE:HD11	1.96	0.47
23:BB:26:G:H2'	23:BB:27:G:C1'	2.44	0.47
23:BB:41:C:O2'	23:BB:42:A:H5'	2.13	0.47
23:BB:773:U:H4'	25:BC:47:ARG:HA	1.95	0.47
23:BB:1022:G:N2	23:BB:1142:A:C2	2.81	0.47
23:BB:1477:A:H2'	23:BB:1478:G:O4'	2.14	0.47
23:BB:1995:U:OP1	26:BD:129:THR:HG22	2.14	0.47
23:BB:2331:G:H2'	23:BB:2332:C:H6	1.79	0.47
23:BB:2512:C:O2'	26:BD:146:ILE:HG21	2.13	0.47
23:BB:2543:G:H5'	23:BB:2543:G:H8	1.79	0.47
23:BB:2761:A:H1'	29:BG:142:GLN:NE2	2.29	0.47
24:BV:44:HIS:O	24:BV:48:MET:HB3	2.14	0.47
25:BC:36:ASN:HB3	25:BC:63:ILE:HD13	1.96	0.47
25:BC:87:SER:O	25:BC:155:ARG:NH1	2.47	0.47
25:BC:179:GLU:OE2	25:BC:267:VAL:HG22	2.14	0.47
25:BC:216:ARG:NH1	25:BC:217:PRO:HD2	2.29	0.47
29:BG:5:LYS:HA	29:BG:5:LYS:HD2	1.71	0.47
32:BK:31:ARG:H	32:BK:31:ARG:HG2	1.44	0.47
33:BL:38:GLN:N	33:BL:41:ARG:CD	2.78	0.47
36:BO:20:GLU:HB3	36:BO:23:ALA:HB2	1.96	0.47
39:BR:43:ASN:C	39:BR:45:GLU:N	2.67	0.47
40:BS:20:VAL:O	40:BS:23:LEU:HB2	2.14	0.47
40:BS:34:ASP:HA	40:BS:37:THR:HG22	1.96	0.47
41:BT:50:LEU:HD22	41:BT:50:LEU:N	2.29	0.47
43:BW:44:PHE:CD1	43:BW:44:PHE:C	2.87	0.47
43:BW:46:ALA:O	43:BW:55:ASP:O	2.32	0.47
43:BW:56:HIS:CE1	43:BW:58:LEU:HB2	2.48	0.47
46:BZ:59:ARG:NE	46:BZ:62:LYS:HD2	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:51:ALA:C	48:B1:52:LYS:HD2	2.33	0.47
50:B3:16:THR:C	50:B3:18:LYS:H	2.16	0.47
1:CA:16:A:N1	1:CA:919:A:C2	2.82	0.47
1:CA:202:G:H2'	1:CA:203:G:H8	1.79	0.47
1:CA:216:U:H2'	1:CA:217:C:C6	2.49	0.47
1:CA:418:C:H2'	1:CA:419:C:H6	1.79	0.47
1:CA:989:U:O2'	1:CA:990:C:H5'	2.14	0.47
1:CA:1014:A:H2	1:CA:1219:A:H1'	1.77	0.47
1:CA:1307:U:H5'	12:CM:107:THR:HG21	1.95	0.47
1:CA:1517:G:H1'	23:DB:1919:A:O3'	2.14	0.47
10:CK:12:ARG:HB3	10:CK:13:LYS:NZ	2.29	0.47
10:CK:94:SER:HA	10:CK:97:ARG:HG3	1.95	0.47
11:CL:81:ILE:HD13	11:CL:96:THR:HG22	1.95	0.47
15:CP:5:ARG:O	15:CP:19:VAL:HA	2.14	0.47
20:CB:161:PHE:HA	20:CB:183:PHE:O	2.13	0.47
23:DB:615:U:C4	27:DE:36:ALA:HB2	2.48	0.47
23:DB:802:A:H4'	54:DB:3289:HOH:O	2.14	0.47
23:DB:908:C:O2'	23:DB:909:A:H5'	2.14	0.47
23:DB:930:G:H5'	23:DB:931:U:P	2.54	0.47
23:DB:1714:U:H3'	23:DB:1715:G:H5'	1.96	0.47
23:DB:2019:A:O3'	38:DQ:26:ALA:HB3	2.14	0.47
23:DB:2024:G:H5''	26:DD:154:LYS:HZ2	1.78	0.47
23:DB:2344:U:H4'	23:DB:2345:G:OP1	2.13	0.47
23:DB:2491:U:H5''	23:DB:2570:G:H5''	1.94	0.47
23:DB:2543:G:H8	23:DB:2543:G:H5'	1.79	0.47
23:DB:2641:G:O2'	23:DB:2642:G:H5'	2.14	0.47
23:DB:2728:U:H2'	23:DB:2729:G:H8	1.79	0.47
23:DB:2751:G:O2'	23:DB:2752:C:H5'	2.13	0.47
25:DC:162:GLN:HE22	25:DC:174:ARG:NH1	2.11	0.47
27:DE:183:PHE:C	27:DE:185:LYS:N	2.68	0.47
30:DH:110:VAL:HG23	30:DH:132:PHE:CE2	2.49	0.47
32:DK:43:ILE:HG12	32:DK:52:VAL:CG1	2.36	0.47
36:DO:15:ARG:NH1	43:DW:74:LYS:HE3	2.28	0.47
36:DO:17:LYS:O	36:DO:20:GLU:HG2	2.14	0.47
39:DR:47:VAL:HG13	39:DR:48:LYS:N	2.28	0.47
46:DZ:31:ASP:HB3	46:DZ:32:LEU:H	1.48	0.47
50:D3:54:LEU:HA	50:D3:57:VAL:HG12	1.96	0.47
51:D4:24:ARG:HE	51:D4:37:GLN:CB	2.27	0.47
52:DI:21:PRO:CB	52:DI:22:PRO:HD3	2.42	0.47
1:AA:255:G:H2'	1:AA:256:U:C6	2.48	0.47
1:AA:649:A:H2'	1:AA:650:G:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:864:A:H2'	1:AA:865:A:C8	2.49	0.47
1:AA:1038:C:H2'	1:AA:1039:G:C8	2.47	0.47
1:AA:1137:C:H1'	1:AA:1138:G:N2	2.29	0.47
1:AA:1313:U:H5'	18:AS:5:LYS:CG	2.33	0.47
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.49	0.47
2:AC:21:TRP:CD1	2:AC:58:ARG:HD2	2.49	0.47
2:AC:139:ASN:O	2:AC:143:LEU:HD22	2.14	0.47
15:AP:33:ILE:HD12	15:AP:33:ILE:N	2.29	0.47
16:AQ:24:ILE:O	16:AQ:40:THR:HA	2.14	0.47
18:AS:3:SER:O	18:AS:4:LEU:HG	2.14	0.47
20:AB:162:VAL:O	20:AB:184:ALA:HA	2.14	0.47
20:AB:172:ILE:O	20:AB:175:ALA:HB3	2.13	0.47
23:BB:38:A:H1'	27:BE:44:ARG:HA	1.95	0.47
23:BB:401:A:H2'	23:BB:402:A:C8	2.49	0.47
23:BB:1112:G:H5'	29:BG:2:ARG:NE	2.28	0.47
23:BB:1241:A:H2'	23:BB:1242:U:H5'	1.96	0.47
23:BB:1594:U:H2'	23:BB:1595:C:H6	1.75	0.47
25:BC:162:GLN:HE21	25:BC:162:GLN:HB3	1.53	0.47
26:BD:22:ILE:O	26:BD:23:PRO:O	2.32	0.47
26:BD:61:THR:HB	26:BD:62:LYS:CE	2.43	0.47
28:BF:75:GLY:O	28:BF:76:PHE:HB2	2.13	0.47
28:BF:102:LEU:C	28:BF:107:VAL:HG23	2.35	0.47
29:BG:104:LEU:HB3	29:BG:106:LEU:CD1	2.44	0.47
30:BH:69:ALA:CB	30:BH:140:ALA:HA	2.43	0.47
31:BJ:55:ILE:HA	31:BJ:122:LEU:O	2.14	0.47
33:BL:71:ALA:HB1	33:BL:74:THR:OG1	2.14	0.47
33:BL:85:VAL:CG1	33:BL:86:GLU:HG2	2.44	0.47
37:BP:91:VAL:HG12	37:BP:92:ARG:N	2.29	0.47
38:BQ:79:ILE:HA	38:BQ:82:LEU:HD12	1.96	0.47
40:BS:6:LYS:HB3	40:BS:104:THR:HA	1.95	0.47
43:BW:47:GLY:HA2	43:BW:67:LYS:HZ3	1.79	0.47
47:B0:3:GLN:HB2	47:B0:6:LYS:HE2	1.96	0.47
48:B1:46:VAL:HG22	48:B1:47:ILE:N	2.28	0.47
52:BI:81:LYS:HG3	52:BI:82:ALA:N	2.29	0.47
1:CA:389:A:N3	1:CA:389:A:H2'	2.29	0.47
1:CA:731:G:OP1	1:CA:766:A:H1'	2.13	0.47
1:CA:837:U:H2'	1:CA:838:G:H8	1.78	0.47
1:CA:1103:C:O2	20:CB:105:THR:HG21	2.14	0.47
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.15	0.47
3:CD:104:MET:HG3	3:CD:142:VAL:HG21	1.96	0.47
3:CD:152:SER:HA	3:CD:155:LYS:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:85:LYS:HG3	4:CE:94:PHE:HD2	1.78	0.47
4:CE:89:THR:CG2	4:CE:90:GLY:N	2.77	0.47
4:CE:154:ALA:HB1	7:CH:65:PHE:CZ	2.49	0.47
5:CF:51:ILE:HG23	5:CF:51:ILE:O	2.14	0.47
6:CG:106:ALA:HB1	6:CG:132:THR:OG1	2.14	0.47
6:CG:144:ALA:C	6:CG:146:ALA:N	2.67	0.47
19:CT:34:VAL:CG1	19:CT:78:LEU:HD22	2.44	0.47
23:DB:184:C:H2'	23:DB:185:G:C8	2.47	0.47
23:DB:934:U:H2'	23:DB:935:C:C6	2.49	0.47
23:DB:1098:A:O5'	52:DI:3:LYS:HB3	2.14	0.47
23:DB:1100:C:H2'	23:DB:1101:U:C6	2.49	0.47
23:DB:1594:U:H2'	23:DB:1595:C:H6	1.79	0.47
23:DB:1637:A:H2'	23:DB:1638:C:C6	2.49	0.47
23:DB:1745:A:H2'	23:DB:1746:A:C8	2.49	0.47
23:DB:1842:G:H2'	23:DB:1843:C:C6	2.49	0.47
23:DB:1958:C:O2'	23:DB:1959:G:H5'	2.15	0.47
23:DB:1971:U:O2	25:DC:237:ARG:HB2	2.14	0.47
23:DB:2443:C:H2'	23:DB:2444:G:C8	2.49	0.47
23:DB:2543:G:H2'	23:DB:2544:G:O4'	2.14	0.47
23:DB:2628:C:O2'	23:DB:2781:A:H2'	2.14	0.47
23:DB:2773:C:H5''	26:DD:169:ARG:HB2	1.95	0.47
23:DB:2839:G:O2'	35:DN:49:GLU:HG2	2.14	0.47
25:DC:30:ALA:N	25:DC:31:PRO:CD	2.77	0.47
25:DC:67:LYS:HG2	25:DC:149:LYS:O	2.14	0.47
25:DC:155:ARG:HG2	25:DC:155:ARG:HH21	1.79	0.47
25:DC:171:VAL:HB	25:DC:182:LYS:CB	2.39	0.47
26:DD:116:LYS:N	26:DD:116:LYS:HD2	2.29	0.47
27:DE:137:LYS:HA	27:DE:137:LYS:HZ3	1.78	0.47
31:DJ:25:LEU:HD12	31:DJ:62:VAL:CB	2.45	0.47
31:DJ:77:HIS:HA	31:DJ:85:LYS:HA	1.96	0.47
36:DO:26:LEU:O	36:DO:40:ILE:HD11	2.13	0.47
36:DO:45:SER:O	36:DO:47:VAL:N	2.47	0.47
38:DQ:49:ARG:NH1	38:DQ:52:ARG:NH1	2.62	0.47
39:DR:5:PHE:HB3	39:DR:12:HIS:NE2	2.29	0.47
39:DR:80:ARG:HD2	39:DR:85:LYS:CB	2.45	0.47
40:DS:71:VAL:HG22	40:DS:107:VAL:HG12	1.94	0.47
44:DX:55:THR:O	44:DX:57:LEU:N	2.44	0.47
46:DZ:36:VAL:O	46:DZ:36:VAL:HG23	2.14	0.47
52:DI:5:GLN:CB	52:DI:30:GLN:OE1	2.57	0.47
1:AA:539:A:H2'	1:AA:540:G:H8	1.78	0.47
1:AA:975:A:H4'	1:AA:976:G:OP2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1118:U:H1'	1:AA:1179:A:C5	2.50	0.47
1:AA:1258:G:C4	1:AA:1278:G:N2	2.82	0.47
1:AA:1432:G:C5'	37:BP:106:ALA:HB2	2.44	0.47
7:AH:64:TYR:CB	7:AH:69:ALA:HA	2.44	0.47
10:AK:63:GLN:O	10:AK:67:GLU:HB3	2.14	0.47
15:AP:39:PHE:HE2	15:AP:70:ARG:HH21	1.63	0.47
15:AP:39:PHE:CE1	15:AP:74:LEU:HD22	2.49	0.47
23:BB:1300:G:H4'	23:BB:1301:A:O5'	2.13	0.47
23:BB:1439:A:N7	23:BB:1440:U:C6	2.82	0.47
23:BB:1583:A:H4'	23:BB:1585:C:N3	2.29	0.47
23:BB:1771:C:O2'	23:BB:1772:A:H5'	2.14	0.47
23:BB:1789:A:H5'	25:BC:220:ARG:HH21	1.78	0.47
23:BB:2379:G:H5'	36:BO:20:GLU:OE1	2.13	0.47
23:BB:2692:G:O2'	23:BB:2693:G:H5'	2.14	0.47
28:BF:32:LYS:O	28:BF:156:THR:N	2.42	0.47
28:BF:107:VAL:HG11	28:BF:175:PRO:HB2	1.95	0.47
29:BG:37:ASN:HB3	29:BG:63:GLN:HE22	1.78	0.47
39:BR:23:GLU:HA	39:BR:96:VAL:HG13	1.97	0.47
41:BT:8:LEU:CA	44:BX:19:LEU:HD11	2.44	0.47
43:BW:64:GLY:O	43:BW:65:LYS:O	2.33	0.47
46:BZ:59:ARG:HE	46:BZ:62:LYS:CE	2.27	0.47
46:BZ:59:ARG:HG3	46:BZ:62:LYS:CB	2.44	0.47
48:B1:46:VAL:C	48:B1:47:ILE:HG12	2.34	0.47
1:CA:193:C:H2'	1:CA:194:C:C6	2.49	0.47
1:CA:280:C:N3	16:CQ:39:ARG:HA	2.29	0.47
1:CA:513:C:H2'	1:CA:514:C:C6	2.49	0.47
1:CA:563:A:H2'	1:CA:567:G:C8	2.50	0.47
1:CA:695:A:H5'	10:CK:52:ARG:HH22	1.79	0.47
1:CA:807:A:H1'	25:DC:4:LYS:HZ1	1.79	0.47
1:CA:940:C:H2'	1:CA:941:G:C8	2.49	0.47
1:CA:1434:A:H2'	1:CA:1435:G:C8	2.48	0.47
2:CC:145:ALA:HA	2:CC:203:LYS:HA	1.96	0.47
3:CD:95:GLY:HA3	3:CD:135:GLN:NE2	2.29	0.47
4:CE:99:SER:C	4:CE:101:GLY:H	2.17	0.47
10:CK:124:LYS:HB3	21:CU:33:ARG:NH1	2.29	0.47
13:CN:11:LYS:O	13:CN:15:LEU:HG	2.14	0.47
18:CS:43:MET:CB	18:CS:61:VAL:HG11	2.44	0.47
23:DB:51:G:H1'	23:DB:118:A:H61	1.79	0.47
23:DB:175:G:H2'	23:DB:176:A:H8	1.78	0.47
23:DB:493:G:O2'	23:DB:494:G:H5'	2.14	0.47
23:DB:511:U:H4'	23:DB:1235:G:H4'	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1050:A:H2'	23:DB:1051:G:O4'	2.15	0.47
23:DB:1081:U:C4'	52:DI:126:ARG:HH12	2.25	0.47
23:DB:1191:G:O2'	23:DB:1192:G:H5'	2.14	0.47
23:DB:1708:C:H2'	23:DB:1709:U:H6	1.79	0.47
23:DB:1973:G:H2'	23:DB:1974:C:H6	1.79	0.47
23:DB:2441:U:O2'	23:DB:2442:C:H5'	2.14	0.47
23:DB:2526:G:H21	51:D4:1:MET:HG2	1.80	0.47
23:DB:2751:G:OP2	29:DG:3:VAL:HB	2.14	0.47
25:DC:231:HIS:ND1	25:DC:242:HIS:ND1	2.62	0.47
26:DD:24:VAL:CG1	26:DD:193:VAL:HG21	2.44	0.47
26:DD:33:ARG:CB	26:DD:89:GLU:HB2	2.44	0.47
26:DD:83:ARG:O	26:DD:84:LEU:HB2	2.12	0.47
28:DF:177:ARG:O	28:DF:178:LYS:HB2	2.15	0.47
29:DG:6:ALA:HB3	29:DG:7:PRO:HD3	1.96	0.47
33:DL:14:LYS:HE2	33:DL:15:ALA:N	2.29	0.47
34:DM:32:GLY:O	34:DM:127:LYS:HB3	2.15	0.47
34:DM:68:PHE:HA	34:DM:69:PRO:HD2	1.79	0.47
39:DR:2:TYR:HD2	39:DR:46:GLU:O	1.98	0.47
41:DT:19:LYS:O	41:DT:22:THR:HG22	2.14	0.47
43:DW:58:LEU:HD11	43:DW:82:GLU:HB3	1.96	0.47
45:DY:23:LEU:HD21	45:DY:50:VAL:HG11	1.96	0.47
50:D3:7:ARG:HH12	50:D3:10:ALA:HB3	1.76	0.47
52:DI:4:VAL:O	52:DI:4:VAL:HG13	2.14	0.47
52:DI:23:VAL:HG12	52:DI:24:GLY:H	1.79	0.47
1:AA:182:A:H1'	1:AA:183:C:H5	1.79	0.47
1:AA:232:G:H1'	1:AA:262:A:N1	2.29	0.47
1:AA:1081:A:O2'	1:AA:1082:A:H5'	2.14	0.47
3:AD:93:LEU:O	3:AD:96:ARG:HB3	2.14	0.47
8:AI:12:LYS:N	8:AI:109:GLN:HE22	2.07	0.47
10:AK:22:ILE:CG2	10:AK:95:THR:HG21	2.35	0.47
12:AM:38:ILE:HG13	12:AM:55:LEU:CD2	2.41	0.47
14:AO:28:VAL:HG22	14:AO:65:LEU:HB3	1.96	0.47
17:AR:64:LEU:CB	17:AR:66:LEU:HG	2.44	0.47
20:AB:15:PHE:HD1	20:AB:16:GLY:H	1.61	0.47
22:BA:27:C:H3'	22:BA:28:C:H6	1.78	0.47
22:BA:112:G:O2'	22:BA:113:C:H5'	2.14	0.47
23:BB:152:A:H2'	23:BB:153:U:C6	2.49	0.47
23:BB:200:U:C5'	46:BZ:20:ASN:HB3	2.28	0.47
23:BB:209:C:H2'	23:BB:210:C:C6	2.49	0.47
23:BB:543:G:C2'	23:BB:544:C:H5''	2.38	0.47
23:BB:570:G:O2'	23:BB:571:U:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:822:G:H2'	23:BB:823:C:H6	1.79	0.47
23:BB:1517:G:O2'	23:BB:1518:C:H5'	2.14	0.47
23:BB:1936:A:H2	23:BB:1943:U:C5	2.32	0.47
23:BB:2147:A:H5'	23:BB:2148:G:C4'	2.44	0.47
23:BB:2336:A:HO2'	23:BB:2337:G:P	2.37	0.47
24:BV:41:GLU:C	24:BV:42:LEU:HD23	2.35	0.47
24:BV:80:HIS:HD2	24:BV:83:LYS:H	1.58	0.47
24:BV:80:HIS:CD2	24:BV:83:LYS:HB2	2.50	0.47
25:BC:13:ARG:O	25:BC:15:VAL:HG23	2.14	0.47
25:BC:46:GLY:O	25:BC:47:ARG:HB2	2.14	0.47
25:BC:59:GLN:O	25:BC:60:ALA:HB3	2.14	0.47
25:BC:141:HIS:O	25:BC:143:VAL:HG23	2.14	0.47
25:BC:258:SER:HB2	25:BC:261:ARG:NH1	2.30	0.47
26:BD:13:ARG:NH1	37:BP:8:GLU:HB3	2.30	0.47
26:BD:122:VAL:HG21	26:BD:141:ARG:HA	1.96	0.47
27:BE:28:VAL:O	27:BE:32:VAL:HG23	2.14	0.47
27:BE:121:VAL:HG12	27:BE:122:GLU:N	2.30	0.47
28:BF:35:LEU:O	28:BF:36:ASN:HB3	2.13	0.47
30:BH:114:GLU:O	30:BH:133:GLN:HB3	2.14	0.47
31:BJ:41:LYS:HZ3	31:BJ:46:PRO:HD3	1.79	0.47
33:BL:85:VAL:HG12	33:BL:86:GLU:CG	2.44	0.47
33:BL:96:LYS:O	33:BL:100:ILE:HD12	2.14	0.47
34:BM:42:THR:HG22	34:BM:45:GLN:HG2	1.96	0.47
36:BO:30:ARG:NH2	36:BO:102:ARG:HD2	2.29	0.47
40:BS:27:LYS:HD2	40:BS:27:LYS:N	2.23	0.47
42:BU:42:LYS:O	42:BU:57:ILE:HG13	2.14	0.47
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.50	0.47
3:CD:43:ARG:NH1	3:CD:43:ARG:HA	2.30	0.47
3:CD:71:PHE:CE2	3:CD:89:LEU:HD11	2.48	0.47
3:CD:101:VAL:HG13	3:CD:106:PHE:CD2	2.49	0.47
6:CG:147:ASN:C	6:CG:149:ALA:H	2.17	0.47
10:CK:109:ILE:H	10:CK:109:ILE:HD12	1.80	0.47
14:CO:76:ARG:O	14:CO:79:ARG:HB2	2.15	0.47
16:CQ:10:ARG:CZ	16:CQ:11:VAL:N	2.77	0.47
19:CT:42:ASP:OD2	19:CT:44:ALA:HB3	2.15	0.47
20:CB:158:ASP:HA	20:CB:180:ILE:HD12	1.97	0.47
21:CU:6:ARG:C	21:CU:7:GLU:HG2	2.34	0.47
22:DA:102:G:H2'	22:DA:103:U:C6	2.50	0.47
23:DB:518:G:H2'	23:DB:519:U:C6	2.50	0.47
23:DB:853:C:H2'	23:DB:854:C:C6	2.50	0.47
23:DB:1098:A:HO2'	52:DI:4:VAL:C	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1315:C:H2'	23:DB:1316:U:C6	2.50	0.47
23:DB:1432:G:O2'	23:DB:1433:A:H5'	2.14	0.47
23:DB:1719:G:O2'	23:DB:1720:U:H5'	2.14	0.47
23:DB:2087:G:H2'	23:DB:2088:A:C8	2.49	0.47
23:DB:2271:G:C2'	23:DB:2272:U:H5'	2.44	0.47
23:DB:2597:G:C5'	25:DC:239:PHE:HB2	2.37	0.47
23:DB:2860:A:H2'	23:DB:2861:U:O4'	2.15	0.47
24:DV:77:VAL:HG13	24:DV:89:ILE:CD1	2.44	0.47
25:DC:16:VAL:O	25:DC:17:LYS:HD2	2.14	0.47
25:DC:257:ARG:C	25:DC:261:ARG:HD2	2.35	0.47
28:DF:7:TYR:O	28:DF:11:VAL:HB	2.14	0.47
29:DG:8:VAL:HG21	29:DG:49:LEU:HB2	1.97	0.47
29:DG:71:LEU:O	29:DG:74:MET:HB2	2.14	0.47
31:DJ:41:LYS:HE2	31:DJ:46:PRO:HD3	1.95	0.47
34:DM:118:LYS:HB2	34:DM:118:LYS:NZ	2.30	0.47
37:DP:64:SER:HB2	37:DP:71:ARG:HH11	1.78	0.47
37:DP:108:ARG:HD3	37:DP:108:ARG:N	2.29	0.47
38:DQ:40:LYS:O	38:DQ:44:TYR:HB3	2.15	0.47
39:DR:18:GLN:CD	39:DR:18:GLN:N	2.68	0.47
41:DT:34:VAL:O	41:DT:81:LYS:HB3	2.14	0.47
1:AA:65:A:N3	1:AA:65:A:C2'	2.74	0.47
1:AA:708:C:H2'	1:AA:709:U:H6	1.80	0.47
4:AE:150:GLU:C	4:AE:152:VAL:H	2.16	0.47
6:AG:53:SER:HB2	6:AG:55:LYS:HZ2	1.78	0.47
7:AH:17:GLN:NE2	7:AH:69:ALA:HB1	2.28	0.47
9:AJ:88:MET:H	9:AJ:88:MET:CE	2.26	0.47
15:AP:26:ASN:OD1	15:AP:31:ARG:HB3	2.14	0.47
15:AP:33:ILE:HD12	15:AP:33:ILE:H	1.79	0.47
22:BA:30:C:H1'	22:BA:58:A:N1	2.29	0.47
22:BA:50:A:H5''	36:BO:68:LYS:CG	2.45	0.47
23:BB:173:A:H2'	23:BB:174:U:C6	2.48	0.47
23:BB:917:A:H2'	23:BB:918:A:O4'	2.14	0.47
23:BB:2070:A:H2'	23:BB:2071:A:C8	2.49	0.47
26:BD:13:ARG:NH1	37:BP:12:MET:SD	2.87	0.47
26:BD:150:GLN:C	26:BD:151:THR:HG22	2.35	0.47
27:BE:111:GLU:C	27:BE:113:VAL:H	2.16	0.47
27:BE:158:PHE:C	27:BE:160:ALA:H	2.17	0.47
30:BH:128:HIS:HB3	30:BH:144:VAL:CB	2.42	0.47
31:BJ:93:ILE:CD1	31:BJ:100:VAL:HG11	2.44	0.47
33:BL:64:PHE:CE1	50:B3:24:LYS:HB2	2.50	0.47
33:BL:95:LEU:H	33:BL:95:LEU:CD1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:36:VAL:CG1	34:BM:125:PRO:HD2	2.45	0.47
34:BM:38:ARG:HA	34:BM:96:ILE:O	2.14	0.47
34:BM:109:PRO:O	34:BM:112:LEU:HB2	2.14	0.47
39:BR:5:PHE:N	39:BR:12:HIS:CB	2.77	0.47
40:BS:6:LYS:HB2	40:BS:6:LYS:NZ	2.30	0.47
43:BW:2:HIS:CE1	43:BW:4:LYS:HB3	2.48	0.47
43:BW:16:GLU:O	43:BW:16:GLU:HG3	2.14	0.47
43:BW:16:GLU:CG	43:BW:37:VAL:HG22	2.39	0.47
50:B3:44:ARG:HB3	50:B3:45:PRO:CD	2.43	0.47
1:CA:109:A:H4'	1:CA:110:C:OP2	2.14	0.47
1:CA:824:G:H2'	1:CA:825:A:H8	1.78	0.47
1:CA:1252:A:H4'	1:CA:1369:C:H4'	1.96	0.47
1:CA:1312:G:H2'	1:CA:1313:U:H6	1.78	0.47
3:CD:61:ARG:HE	3:CD:68:GLU:N	2.13	0.47
3:CD:118:SER:C	3:CD:120:LYS:H	2.18	0.47
5:CF:48:ALA:H	17:CR:65:SER:HB2	1.79	0.47
7:CH:65:PHE:CD2	7:CH:66:GLN:HG2	2.50	0.47
10:CK:121:ARG:HE	21:CU:34:ARG:HD2	1.78	0.47
11:CL:29:LYS:O	11:CL:80:LEU:HD12	2.14	0.47
15:CP:61:VAL:CA	15:CP:65:ALA:HB3	2.44	0.47
15:CP:67:ILE:HD11	15:CP:71:VAL:HG22	1.96	0.47
16:CQ:44:HIS:HB2	16:CQ:69:THR:O	2.14	0.47
23:DB:581:C:O2'	23:DB:582:A:H5'	2.14	0.47
23:DB:705:A:N6	23:DB:726:G:O2'	2.48	0.47
23:DB:1692:U:H2'	23:DB:1694:C:C4	2.50	0.47
23:DB:1739:A:H2'	23:DB:1740:G:O4'	2.14	0.47
23:DB:2526:G:H2'	23:DB:2527:C:H6	1.76	0.47
23:DB:2671:G:H2'	23:DB:2672:U:C6	2.49	0.47
25:DC:10:PRO:O	25:DC:202:ARG:NH1	2.47	0.47
25:DC:155:ARG:HE	25:DC:157:ALA:CB	2.27	0.47
28:DF:39:VAL:HG12	28:DF:84:ILE:HG21	1.96	0.47
34:DM:64:TRP:HB2	34:DM:102:LEU:HB2	1.96	0.47
35:DN:47:VAL:O	35:DN:51:LEU:HG	2.15	0.47
37:DP:7:LEU:C	37:DP:7:LEU:HD23	2.35	0.47
41:DT:15:HIS:O	41:DT:16:VAL:CB	2.61	0.47
41:DT:55:VAL:HG23	41:DT:87:LEU:H	1.79	0.47
41:DT:55:VAL:CG2	41:DT:86:THR:H	2.27	0.47
42:DU:34:ILE:HG22	42:DU:62:ALA:O	2.13	0.47
50:D3:12:ARG:O	50:D3:13:PHE:CB	2.63	0.47
1:AA:301:G:H2'	1:AA:302:G:H8	1.79	0.47
1:AA:317:U:H2'	1:AA:318:G:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:607:A:H2'	1:AA:608:A:C8	2.50	0.47
1:AA:636:U:H2'	1:AA:637:C:H6	1.78	0.47
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.50	0.47
1:AA:1410:A:H2'	1:AA:1411:C:C6	2.50	0.47
3:AD:81:LEU:CD1	3:AD:92:LEU:HD21	2.45	0.47
3:AD:117:VAL:HG12	3:AD:130:ASN:C	2.35	0.47
5:AF:43:GLY:HA2	5:AF:58:HIS:CE1	2.49	0.47
9:AJ:22:THR:CG2	9:AJ:23:ALA:N	2.77	0.47
11:AL:90:PRO:C	11:AL:92:VAL:H	2.17	0.47
11:AL:106:VAL:HG22	11:AL:117:GLY:H	1.79	0.47
12:AM:78:ARG:HH22	12:AM:82:LEU:HD11	1.78	0.47
17:AR:46:THR:CG2	17:AR:51:GLN:HB2	2.43	0.47
20:AB:13:VAL:HG11	20:AB:207:ARG:HB2	1.95	0.47
20:AB:156:LEU:H	20:AB:156:LEU:HD12	1.80	0.47
21:AU:35:GLU:HB2	21:AU:37:TYR:CZ	2.50	0.47
23:BB:38:A:C4'	27:BE:46:GLN:HG3	2.45	0.47
23:BB:107:G:H21	23:BB:346:A:H62	1.61	0.47
23:BB:306:U:H2'	23:BB:307:G:O4'	2.14	0.47
23:BB:490:C:H3'	23:BB:491:G:H5''	1.96	0.47
23:BB:976:G:H5'	23:BB:1156:A:N6	2.30	0.47
23:BB:1501:G:O2'	23:BB:1502:A:H5'	2.15	0.47
23:BB:1526:C:H2'	23:BB:1527:G:O4'	2.13	0.47
23:BB:1692:U:H2'	23:BB:1694:C:C4	2.49	0.47
23:BB:2221:G:H2'	23:BB:2222:C:C6	2.50	0.47
23:BB:2443:C:H2'	23:BB:2444:G:C8	2.50	0.47
23:BB:2862:G:H2'	23:BB:2863:C:H6	1.79	0.47
24:BV:80:HIS:CA	24:BV:87:GLN:HE22	2.28	0.47
25:BC:16:VAL:HA	25:BC:17:LYS:HE2	1.95	0.47
25:BC:160:TYR:HA	25:BC:193:GLU:CG	2.45	0.47
25:BC:180:MET:HB2	25:BC:265:PHE:CB	2.40	0.47
26:BD:127:PHE:O	26:BD:128:ARG:HB2	2.14	0.47
26:BD:130:GLN:O	26:BD:140:HIS:ND1	2.48	0.47
27:BE:104:ALA:C	27:BE:105:LEU:HD23	2.35	0.47
27:BE:122:GLU:OE2	27:BE:152:GLU:HG3	2.14	0.47
29:BG:40:VAL:CG2	29:BG:53:PRO:HA	2.44	0.47
30:BH:29:PHE:H	30:BH:32:PRO:HD2	1.79	0.47
31:BJ:43:GLU:CB	38:BQ:99:VAL:HG12	2.45	0.47
31:BJ:100:VAL:HG22	31:BJ:101:ILE:N	2.27	0.47
33:BL:84:LYS:HA	33:BL:84:LYS:HE3	1.97	0.47
33:BL:94:THR:OG1	33:BL:103:ILE:HB	2.14	0.47
33:BL:109:LYS:HA	33:BL:126:ARG:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:116:VAL:HG12	33:BL:117:THR:HG23	1.97	0.47
34:BM:6:ARG:HG3	34:BM:7:THR:O	2.15	0.47
34:BM:42:THR:O	34:BM:44:ARG:N	2.41	0.47
35:BN:1:MET:CE	35:BN:2:ARG:HB2	2.45	0.47
35:BN:122:ALA:HA	47:B0:49:ARG:NH1	2.29	0.47
36:BO:8:ILE:C	36:BO:10:ARG:H	2.18	0.47
41:BT:26:LYS:HD2	41:BT:27:SER:HB2	1.97	0.47
42:BU:84:PHE:HA	42:BU:94:PHE:HD1	1.79	0.47
43:BW:44:PHE:O	43:BW:76:ARG:CA	2.63	0.47
47:B0:32:THR:HG22	47:B0:32:THR:O	2.13	0.47
1:CA:333:U:H2'	1:CA:334:C:H6	1.79	0.47
1:CA:343:U:O2'	1:CA:344:A:H2'	2.15	0.47
1:CA:454:G:O2'	1:CA:455:G:H5'	2.15	0.47
1:CA:628:G:H2'	1:CA:629:A:C8	2.50	0.47
1:CA:647:C:O2'	1:CA:648:A:H5'	2.15	0.47
1:CA:806:C:H2'	1:CA:807:A:H8	1.80	0.47
1:CA:807:A:H1'	25:DC:4:LYS:HZ2	1.78	0.47
1:CA:812:G:N3	1:CA:812:G:C2'	2.75	0.47
2:CC:177:LEU:H	2:CC:177:LEU:HD22	1.79	0.47
3:CD:64:TYR:CD2	3:CD:93:LEU:HB2	2.49	0.47
3:CD:144:ILE:HG23	3:CD:149:LYS:HE2	1.97	0.47
3:CD:171:GLU:HB2	3:CD:180:THR:HG21	1.97	0.47
6:CG:132:THR:O	6:CG:135:LYS:HB3	2.15	0.47
8:CI:103:VAL:HG23	8:CI:104:THR:N	2.29	0.47
23:DB:15:G:O2'	23:DB:16:C:H5'	2.14	0.47
23:DB:37:C:O2'	23:DB:38:A:H5'	2.15	0.47
23:DB:62:U:H3'	23:DB:63:A:C8	2.50	0.47
23:DB:123:G:H2'	23:DB:124:G:C8	2.49	0.47
23:DB:322:A:H5'	23:DB:340:A:O4'	2.14	0.47
23:DB:1513:U:O2'	23:DB:1514:G:H5'	2.15	0.47
23:DB:2700:A:H2'	23:DB:2701:U:H6	1.80	0.47
24:DV:57:TYR:HE2	24:DV:77:VAL:HG21	1.79	0.47
27:DE:53:THR:HB	27:DE:74:LYS:HZ3	1.79	0.47
27:DE:120:VAL:HG12	27:DE:121:VAL:N	2.29	0.47
29:DG:10:VAL:HG13	29:DG:14:VAL:HG12	1.95	0.47
30:DH:135:HIS:HD2	30:DH:138:VAL:HG23	1.80	0.47
32:DK:112:PHE:O	32:DK:114:LYS:N	2.45	0.47
33:DL:63:LYS:O	50:D3:11:LYS:HB2	2.15	0.47
37:DP:60:VAL:HB	37:DP:61:ARG:H	1.30	0.47
38:DQ:50:ARG:NH2	38:DQ:53:LYS:HE3	2.29	0.47
45:DY:18:LYS:O	45:DY:21:ALA:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:D0:25:THR:HG23	47:D0:25:THR:O	2.15	0.47
49:D2:12:ARG:HH21	49:D2:16:HIS:HB2	1.79	0.47
52:DI:7:TYR:HA	52:DI:59:THR:HA	1.95	0.47
52:DI:79:LEU:HB3	52:DI:137:LEU:HD12	1.96	0.47
1:AA:21:G:H2'	1:AA:22:G:C8	2.49	0.47
1:AA:78:A:O2'	1:AA:79:G:H5'	2.14	0.47
1:AA:147:G:H2'	1:AA:148:G:C8	2.49	0.47
1:AA:303:A:H2'	1:AA:304:U:O4'	2.14	0.47
1:AA:894:G:O2'	1:AA:895:G:H5'	2.15	0.47
1:AA:950:U:H2'	1:AA:951:G:C8	2.50	0.47
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.50	0.47
1:AA:1198:G:H2'	1:AA:1199:U:C6	2.50	0.47
2:AC:84:GLU:HA	2:AC:87:ARG:NH2	2.30	0.47
4:AE:35:LEU:HD23	4:AE:36:THR:N	2.30	0.47
5:AF:5:GLU:HG3	5:AF:63:ASN:OD1	2.15	0.47
6:AG:22:LEU:O	6:AG:26:VAL:HG13	2.14	0.47
6:AG:71:THR:HA	6:AG:90:VAL:HG22	1.96	0.47
9:AJ:35:GLN:H	9:AJ:78:GLU:HB3	1.80	0.47
10:AK:30:ILE:HG22	10:AK:45:THR:CA	2.41	0.47
10:AK:121:ARG:NH1	10:AK:121:ARG:HG3	2.29	0.47
12:AM:72:ILE:O	12:AM:76:ILE:HG13	2.15	0.47
13:AN:72:PHE:CE2	13:AN:77:GLY:HA2	2.49	0.47
14:AO:17:ASP:HB2	14:AO:18:ALA:H	1.59	0.47
18:AS:43:MET:O	18:AS:46:LEU:HB2	2.14	0.47
20:AB:82:ALA:O	20:AB:217:ALA:HB2	2.15	0.47
22:BA:54:G:H2'	22:BA:55:U:H6	1.79	0.47
22:BA:86:G:H3'	22:BA:87:U:H6	1.80	0.47
22:BA:89:U:O2	23:BB:958:U:H2'	2.15	0.47
23:BB:26:G:H1'	23:BB:514:A:H61	1.80	0.47
23:BB:64:A:N6	23:BB:91:A:N6	2.62	0.47
23:BB:230:G:H2'	23:BB:231:A:C8	2.48	0.47
23:BB:233:A:N6	23:BB:428:A:H61	2.12	0.47
23:BB:673:C:H5''	27:BE:76:PRO:HD2	1.96	0.47
23:BB:840:C:O2'	23:BB:841:G:H5'	2.15	0.47
23:BB:1059:G:N2	52:BI:130:GLY:HA3	2.29	0.47
23:BB:1156:A:N6	38:BQ:47:ARG:HD3	2.29	0.47
23:BB:1205:A:H4'	23:BB:1206:G:OP2	2.14	0.47
23:BB:1637:A:H2'	23:BB:1638:C:H6	1.80	0.47
23:BB:1790:C:H4'	25:BC:207:ALA:CB	2.45	0.47
23:BB:1986:C:O2'	23:BB:1987:A:H5'	2.14	0.47
23:BB:2019:A:O2'	38:BQ:32:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2053:G:H5'	26:BD:151:THR:O	2.14	0.47
23:BB:2083:G:H2'	23:BB:2084:C:C6	2.49	0.47
23:BB:2249:U:H4'	23:BB:2275:C:C5	2.50	0.47
23:BB:2261:C:OP2	43:BW:13:ARG:HB2	2.14	0.47
23:BB:2728:U:H2'	23:BB:2729:G:C8	2.50	0.47
23:BB:2773:C:O2'	23:BB:2774:C:H5'	2.15	0.47
24:BV:53:LYS:HD2	24:BV:54:ALA:N	2.29	0.47
24:BV:61:LEU:O	24:BV:71:LYS:HA	2.15	0.47
24:BV:72:VAL:O	24:BV:94:ALA:HB2	2.14	0.47
25:BC:27:LYS:HA	25:BC:79:ARG:HH12	1.78	0.47
25:BC:49:THR:O	25:BC:50:THR:HB	2.15	0.47
25:BC:208:GLY:O	25:BC:210:ALA:N	2.48	0.47
25:BC:222:THR:C	25:BC:224:MET:N	2.67	0.47
26:BD:15:PHE:HB3	26:BD:18:ASP:CB	2.45	0.47
26:BD:38:LYS:N	26:BD:38:LYS:CD	2.78	0.47
26:BD:184:ARG:O	26:BD:184:ARG:HG3	2.14	0.47
27:BE:119:ILE:HG23	27:BE:189:THR:O	2.15	0.47
29:BG:153:PRO:HG3	29:BG:160:GLY:C	2.35	0.47
30:BH:7:ASP:O	30:BH:9:VAL:HG23	2.14	0.47
30:BH:89:LYS:HZ3	30:BH:90:LEU:H	1.63	0.47
31:BJ:7:LYS:CE	31:BJ:48:VAL:HB	2.45	0.47
31:BJ:29:ALA:O	31:BJ:33:ALA:N	2.44	0.47
32:BK:108:ARG:HG3	32:BK:108:ARG:HH11	1.79	0.47
33:BL:78:ARG:HB2	33:BL:79:LEU:H	1.33	0.47
35:BN:57:THR:HG23	35:BN:58:ASP:H	1.80	0.47
36:BO:71:ALA:O	36:BO:74:VAL:HG23	2.14	0.47
37:BP:57:ALA:C	37:BP:59:THR:H	2.18	0.47
38:BQ:93:ILE:CG2	38:BQ:94:LEU:HD13	2.40	0.47
40:BS:17:VAL:HG21	40:BS:101:SER:OG	2.15	0.47
40:BS:102:HIS:HB2	40:BS:103:ILE:H	1.50	0.47
42:BU:5:ARG:HG2	42:BU:6:ARG:N	2.28	0.47
43:BW:16:GLU:O	43:BW:18:LYS:HD2	2.15	0.47
44:BX:9:LYS:HE3	44:BX:11:VAL:HG13	1.97	0.47
44:BX:45:GLN:H	44:BX:45:GLN:HE21	1.61	0.47
45:BY:50:VAL:O	45:BY:53:MET:HB2	2.15	0.47
46:BZ:59:ARG:CG	46:BZ:62:LYS:HB2	2.44	0.47
48:B1:15:GLY:CA	48:B1:47:ILE:HD12	2.44	0.47
49:B2:18:PHE:HB3	49:B2:19:ARG:H	1.62	0.47
52:BI:48:ILE:O	52:BI:49:GLU:HB3	2.14	0.47
52:BI:54:ILE:HG21	52:BI:70:THR:CG2	2.45	0.47
1:CA:179:A:H2'	1:CA:180:U:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:537:G:H2'	1:CA:538:G:H8	1.80	0.47
1:CA:602:A:O2'	1:CA:603:U:H5'	2.14	0.47
1:CA:673:A:H1'	17:CR:63:TYR:CD1	2.49	0.47
1:CA:806:C:H2'	1:CA:807:A:C8	2.49	0.47
1:CA:841:C:H6	1:CA:843:U:OP1	1.98	0.47
1:CA:1054:C:H1'	1:CA:1196:A:C6	2.50	0.47
1:CA:1122:U:H2'	1:CA:1123:U:C6	2.50	0.47
1:CA:1245:C:H2'	1:CA:1246:A:H8	1.79	0.47
1:CA:1251:A:O2'	1:CA:1370:G:H5'	2.15	0.47
1:CA:1277:C:H1'	1:CA:1282:C:O2	2.15	0.47
1:CA:1299:A:C5	1:CA:1301:U:H1'	2.50	0.47
1:CA:1319:A:P	18:CS:4:LEU:HD21	2.55	0.47
1:CA:1390:U:H2'	1:CA:1391:U:C6	2.50	0.47
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.75	0.47
1:CA:1438:G:C2'	1:CA:1439:G:H5'	2.45	0.47
2:CC:94:ALA:O	2:CC:96:VAL:N	2.48	0.47
2:CC:129:PHE:CE2	2:CC:156:LEU:HD13	2.50	0.47
2:CC:146:LYS:HD3	2:CC:203:LYS:O	2.15	0.47
3:CD:115:GLN:HE22	3:CD:153:ARG:HH22	1.62	0.47
5:CF:18:VAL:HG21	5:CF:58:HIS:ND1	2.30	0.47
6:CG:56:SER:HB3	6:CG:59:GLU:HG3	1.96	0.47
7:CH:71:VAL:O	7:CH:71:VAL:HG23	2.14	0.47
8:CI:103:VAL:HG23	8:CI:104:THR:H	1.79	0.47
9:CJ:36:VAL:HA	9:CJ:76:ILE:HG23	1.96	0.47
15:CP:19:VAL:HG13	15:CP:37:GLY:C	2.35	0.47
15:CP:67:ILE:HG12	15:CP:72:ALA:HB2	1.95	0.47
16:CQ:23:ALA:C	16:CQ:24:ILE:HD12	2.35	0.47
17:CR:20:ILE:O	17:CR:20:ILE:HG12	2.14	0.47
19:CT:50:PHE:O	19:CT:53:MET:HG3	2.13	0.47
19:CT:66:ILE:O	19:CT:70:LYS:HD3	2.14	0.47
22:DA:23:G:N2	22:DA:24:G:H1	2.13	0.47
23:DB:18:U:H5''	38:DQ:23:TYR:O	2.15	0.47
23:DB:46:G:H2'	23:DB:47:C:C6	2.49	0.47
23:DB:153:U:O5'	23:DB:153:U:H6	1.98	0.47
23:DB:279:A:H3'	23:DB:280:U:H6	1.79	0.47
23:DB:314:C:H2'	23:DB:315:G:H8	1.80	0.47
23:DB:562:U:C4	23:DB:2036:C:O4'	2.68	0.47
23:DB:579:G:H4'	23:DB:2017:U:H2'	1.97	0.47
23:DB:1098:A:O5'	52:DI:3:LYS:CG	2.61	0.47
23:DB:1438:U:H5'	23:DB:1516:G:O2'	2.14	0.47
23:DB:1494:A:H2'	23:DB:1495:A:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1729:U:H2'	23:DB:1730:C:H4'	1.96	0.47
23:DB:1745:A:H2'	23:DB:1746:A:H8	1.80	0.47
23:DB:1773:A:N6	25:DC:206:LYS:HE2	2.29	0.47
23:DB:1789:A:H5'	25:DC:220:ARG:NH2	2.29	0.47
23:DB:1791:A:C4'	25:DC:207:ALA:H	2.28	0.47
23:DB:1818:U:C3'	25:DC:155:ARG:HB2	2.44	0.47
23:DB:1842:G:H2'	23:DB:1843:C:H6	1.80	0.47
23:DB:2249:U:H4'	23:DB:2275:C:C5	2.50	0.47
23:DB:2270:A:H4'	43:DW:18:LYS:HD2	1.96	0.47
23:DB:2286:G:H1	48:D1:23:THR:HG21	1.80	0.47
23:DB:2643:G:H2'	23:DB:2644:G:O4'	2.15	0.47
23:DB:2659:G:N2	23:DB:2661:G:H5''	2.29	0.47
23:DB:2742:G:O2'	23:DB:2743:U:H5'	2.15	0.47
24:DV:48:MET:SD	24:DV:86:LEU:HD12	2.54	0.47
25:DC:53:ILE:CG1	25:DC:218:THR:HA	2.45	0.47
27:DE:158:PHE:HE2	27:DE:161:ALA:HB3	1.80	0.47
27:DE:163:ASN:H	27:DE:168:ASP:HA	1.80	0.47
27:DE:192:ALA:HB1	27:DE:199:MET:CB	2.45	0.47
28:DF:96:TRP:O	28:DF:100:GLU:HG3	2.14	0.47
28:DF:103:ILE:HD12	28:DF:104:THR:N	2.30	0.47
29:DG:18:ILE:HA	29:DG:22:VAL:O	2.14	0.47
29:DG:90:GLY:HA3	29:DG:159:LYS:HG2	1.97	0.47
29:DG:123:GLU:HG2	29:DG:131:VAL:HG13	1.96	0.47
30:DH:36:ALA:O	30:DH:37:VAL:HG23	2.15	0.47
30:DH:90:LEU:HD22	30:DH:122:LEU:O	2.15	0.47
30:DH:122:LEU:HD22	30:DH:146:VAL:HG22	1.97	0.47
31:DJ:76:HIS:O	31:DJ:77:HIS:O	2.33	0.47
34:DM:41:LEU:CD2	34:DM:46:ILE:HD11	2.44	0.47
34:DM:81:ARG:CG	34:DM:82:MET:HG2	2.45	0.47
34:DM:104:GLU:HB3	34:DM:105:MET:H	1.55	0.47
35:DN:42:LYS:NZ	35:DN:45:ARG:HD2	2.30	0.47
36:DO:115:LEU:HD12	36:DO:115:LEU:N	2.29	0.47
37:DP:29:VAL:HG23	37:DP:47:ILE:HD11	1.96	0.47
37:DP:92:ARG:HB2	37:DP:110:LYS:O	2.15	0.47
38:DQ:59:LEU:O	38:DQ:62:ALA:HB3	2.15	0.47
38:DQ:86:SER:C	38:DQ:88:GLU:H	2.18	0.47
39:DR:5:PHE:HD2	39:DR:12:HIS:CE1	2.33	0.47
39:DR:32:THR:HG22	39:DR:66:HIS:HB3	1.96	0.47
41:DT:19:LYS:HA	41:DT:19:LYS:HD2	1.54	0.47
44:DX:22:LEU:HD11	44:DX:47:ARG:NH2	2.30	0.47
45:DY:1:ALA:HB1	45:DY:37:ARG:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:D2:18:PHE:CD2	49:D2:18:PHE:N	2.82	0.47
52:DI:49:GLU:CB	52:DI:52:LEU:HD12	2.44	0.47
1:AA:948:C:O2'	1:AA:949:A:H5'	2.15	0.47
1:AA:986:U:H1'	18:AS:53:GLY:O	2.14	0.47
1:AA:1348:U:H2'	1:AA:1349:A:H8	1.80	0.47
2:AC:90:VAL:HG21	2:AC:98:ALA:HB3	1.97	0.47
9:AJ:8:ILE:H	9:AJ:75:ASP:HB2	1.80	0.47
10:AK:21:HIS:CE1	10:AK:34:THR:HG21	2.50	0.47
10:AK:60:PHE:HA	10:AK:63:GLN:OE1	2.14	0.47
11:AL:121:PRO:C	11:AL:123:ALA:H	2.18	0.47
12:AM:13:HIS:HB2	12:AM:16:ILE:HG22	1.97	0.47
13:AN:79:SER:O	13:AN:81:ILE:HD12	2.15	0.47
14:AO:70:LYS:HZ1	14:AO:74:VAL:CG1	2.25	0.47
20:AB:60:ALA:HB3	20:AB:223:GLY:HA3	1.95	0.47
23:BB:27:G:H1'	23:BB:513:A:H61	1.79	0.47
23:BB:1132:U:H6	31:BJ:85:LYS:HZ3	1.63	0.47
23:BB:1170:C:O2'	23:BB:1171:G:H5'	2.15	0.47
23:BB:1189:A:H2'	23:BB:1190:G:O4'	2.15	0.47
23:BB:1351:C:H4'	23:BB:1572:A:O4'	2.14	0.47
23:BB:1438:U:N3	23:BB:1552:A:N6	2.63	0.47
23:BB:1724:G:H2'	23:BB:1725:U:C6	2.50	0.47
23:BB:1754:A:OP2	37:BP:94:ALA:HB1	2.15	0.47
23:BB:1870:C:H3'	23:BB:1871:A:C8	2.49	0.47
23:BB:1965:C:H5''	23:BB:1966:A:H2'	1.96	0.47
23:BB:1999:C:H5''	23:BB:2723:C:O2'	2.14	0.47
23:BB:2230:G:H1'	46:BZ:30:HIS:HD2	1.80	0.47
23:BB:2425:A:H5''	23:BB:2426:A:H3'	1.97	0.47
23:BB:2617:U:H2'	23:BB:2618:G:C5'	2.45	0.47
23:BB:2617:U:O2'	23:BB:2618:G:H5'	2.15	0.47
23:BB:2800:A:C4	23:BB:2801:G:H1'	2.50	0.47
25:BC:10:PRO:CD	25:BC:202:ARG:HH12	2.27	0.47
25:BC:103:ILE:CG2	25:BC:104:LEU:N	2.77	0.47
26:BD:3:GLY:CA	26:BD:49:GLN:HE22	2.28	0.47
26:BD:4:LEU:CD2	26:BD:49:GLN:HG2	2.45	0.47
28:BF:67:THR:O	28:BF:83:PRO:HA	2.15	0.47
28:BF:133:GLU:O	28:BF:134:GLN:HB2	2.14	0.47
35:BN:46:ARG:O	35:BN:50:PRO:HG2	2.14	0.47
35:BN:106:ASP:O	35:BN:108:ALA:N	2.48	0.47
36:BO:46:GLU:C	36:BO:48:LEU:H	2.18	0.47
38:BQ:57:ARG:HA	38:BQ:60:TRP:CE3	2.46	0.47
38:BQ:101:ASP:OD2	38:BQ:104:ALA:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:28:LYS:HA	40:BS:31:GLN:HB2	1.95	0.47
44:BX:22:LEU:O	44:BX:23:ARG:C	2.53	0.47
46:BZ:58:ASP:HB3	46:BZ:59:ARG:H	1.27	0.47
46:BZ:59:ARG:HG3	46:BZ:62:LYS:HG3	1.97	0.47
52:BI:12:VAL:HG23	52:BI:41:PHE:CZ	2.50	0.47
1:CA:31:G:H2'	1:CA:48:C:H5	1.79	0.47
1:CA:123:U:H5''	1:CA:311:C:O2'	2.15	0.47
1:CA:317:U:H2'	1:CA:318:G:C8	2.49	0.47
1:CA:451:A:C5'	15:CP:70:ARG:HH22	2.20	0.47
1:CA:979:C:H41	1:CA:1360:A:H62	1.63	0.47
1:CA:1019:A:H2'	1:CA:1020:G:C8	2.50	0.47
1:CA:1298:U:H4'	1:CA:1299:A:C2	2.50	0.47
1:CA:1313:U:OP2	18:CS:5:LYS:HA	2.14	0.47
2:CC:156:LEU:HD12	2:CC:163:ARG:HG3	1.97	0.47
4:CE:152:VAL:HA	4:CE:155:LYS:HD3	1.96	0.47
10:CK:126:ARG:HG2	10:CK:126:ARG:NH1	2.30	0.47
11:CL:23:LEU:C	11:CL:25:ALA:N	2.68	0.47
11:CL:100:ALA:C	11:CL:103:CYS:HG	2.17	0.47
13:CN:82:LYS:HE2	13:CN:82:LYS:HA	1.96	0.47
16:CQ:43:LEU:HD12	16:CQ:43:LEU:N	2.29	0.47
22:DA:13:G:H4'	22:DA:15:A:H2'	1.96	0.47
23:DB:448:U:H2'	27:DE:79:ARG:CG	2.45	0.47
23:DB:639:U:H2'	23:DB:640:C:H6	1.79	0.47
23:DB:689:A:H2'	23:DB:690:G:C8	2.50	0.47
23:DB:852:U:O2'	23:DB:853:C:H5'	2.14	0.47
23:DB:1241:A:O4'	23:DB:1241:A:N3	2.48	0.47
23:DB:1409:U:O2'	23:DB:1410:G:H5'	2.14	0.47
23:DB:1537:G:H2'	23:DB:1538:G:C4'	2.45	0.47
23:DB:2199:A:H5''	23:DB:2200:C:OP2	2.14	0.47
23:DB:2391:G:P	50:D3:32:LEU:HG	2.55	0.47
23:DB:2617:U:O2'	23:DB:2618:G:H5'	2.15	0.47
23:DB:2634:A:H2'	23:DB:2635:A:C8	2.50	0.47
23:DB:2648:G:H2'	23:DB:2649:C:C6	2.49	0.47
23:DB:2673:G:H2'	23:DB:2674:G:C8	2.50	0.47
23:DB:2896:C:H2'	23:DB:2897:U:H6	1.80	0.47
25:DC:161:VAL:HG12	25:DC:161:VAL:O	2.15	0.47
25:DC:209:ALA:O	25:DC:213:ARG:NH1	2.47	0.47
26:DD:4:LEU:HD22	26:DD:4:LEU:H	1.78	0.47
28:DF:34:THR:O	28:DF:35:LEU:HD23	2.14	0.47
29:DG:93:TYR:N	29:DG:93:TYR:CD1	2.83	0.47
30:DH:125:THR:CA	30:DH:146:VAL:HB	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:19:ASP:HB3	31:DJ:21:THR:CG2	2.43	0.47
33:DL:51:GLU:HG3	50:D3:58:ILE:CG2	2.45	0.47
35:DN:44:LEU:HD12	35:DN:47:VAL:CG2	2.44	0.47
37:DP:79:VAL:HB	37:DP:80:VAL:H	1.57	0.47
39:DR:67:GLY:H	39:DR:98:ILE:H	1.62	0.47
40:DS:45:VAL:O	40:DS:47:VAL:HG23	2.15	0.47
42:DU:66:VAL:HG22	42:DU:67:SER:N	2.17	0.47
43:DW:48:ALA:HA	43:DW:54:ARG:N	2.30	0.47
46:DZ:55:GLY:HA2	46:DZ:59:ARG:HB2	1.96	0.47
47:D0:24:VAL:HG12	47:D0:24:VAL:O	2.14	0.47
52:DI:27:LEU:HD23	52:DI:27:LEU:N	2.17	0.47
52:DI:109:ALA:HA	52:DI:128:ILE:CD1	2.45	0.47
1:AA:563:A:H2'	1:AA:567:G:C8	2.50	0.47
1:AA:664:G:N2	1:AA:741:G:H1	2.02	0.47
1:AA:1018:G:H2'	1:AA:1019:A:H8	1.80	0.47
1:AA:1071:C:O2'	1:AA:1072:G:H5'	2.14	0.47
1:AA:1110:A:N7	1:AA:1111:A:N6	2.58	0.47
2:AC:75:VAL:HG12	2:AC:75:VAL:O	2.14	0.47
3:AD:147:LYS:H	3:AD:147:LYS:HE3	1.80	0.47
4:AE:108:GLY:H	4:AE:110:MET:CE	2.28	0.47
5:AF:38:ARG:HH21	5:AF:96:VAL:CG1	2.28	0.47
7:AH:87:ARG:O	7:AH:91:LEU:HG	2.14	0.47
9:AJ:18:ILE:HD12	9:AJ:72:ARG:HG3	1.97	0.47
15:AP:6:LEU:HD11	15:AP:71:VAL:HB	1.96	0.47
16:AQ:22:VAL:HG21	16:AQ:58:VAL:HG21	1.96	0.47
18:AS:4:LEU:N	18:AS:5:LYS:HE3	2.29	0.47
18:AS:37:SER:O	18:AS:69:LYS:HG2	2.15	0.47
20:AB:35:ASN:O	20:AB:36:LYS:HB2	2.13	0.47
23:BB:86:G:P	42:BU:29:SER:HB2	2.55	0.47
23:BB:100:U:H4'	42:BU:90:LYS:CD	2.44	0.47
23:BB:144:A:O2'	23:BB:145:C:H5'	2.15	0.47
23:BB:246:C:C2'	23:BB:247:G:H5'	2.45	0.47
23:BB:535:G:H3'	54:BB:3417:HOH:O	2.15	0.47
23:BB:832:U:O2'	33:BL:53:GLY:HA3	2.15	0.47
23:BB:863:A:H2'	23:BB:864:G:C8	2.50	0.47
23:BB:978:G:H2'	23:BB:979:A:H8	1.80	0.47
23:BB:1359:A:H2'	23:BB:1360:G:O4'	2.13	0.47
23:BB:2070:A:H2'	23:BB:2071:A:O4'	2.14	0.47
23:BB:2223:G:H2'	23:BB:2224:G:H5'	1.96	0.47
23:BB:2860:A:H2'	23:BB:2861:U:O4'	2.14	0.47
24:BV:2:PHE:CB	24:BV:61:LEU:HD22	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BV:2:PHE:HB2	24:BV:61:LEU:HD22	1.97	0.47
25:BC:156:SER:O	25:BC:194:VAL:O	2.32	0.47
27:BE:198:GLU:C	27:BE:200:LEU:N	2.69	0.47
28:BF:6:TYR:O	28:BF:11:VAL:HG23	2.15	0.47
28:BF:55:ASP:OD1	28:BF:148:VAL:HG11	2.15	0.47
31:BJ:35:ARG:CZ	31:BJ:40:HIS:HB2	2.45	0.47
31:BJ:58:ASN:HA	31:BJ:126:ALA:CA	2.44	0.47
32:BK:107:LEU:O	32:BK:107:LEU:HD12	2.14	0.47
33:BL:51:GLU:O	33:BL:51:GLU:HG3	2.15	0.47
34:BM:33:LEU:CD2	34:BM:124:LEU:HG	2.45	0.47
36:BO:76:LYS:HB2	36:BO:106:LEU:HD13	1.97	0.47
38:BQ:93:ILE:C	38:BQ:95:ALA:N	2.69	0.47
39:BR:35:PHE:HB2	39:BR:64:VAL:HG22	1.96	0.47
41:BT:30:ILE:CG2	41:BT:32:LEU:HD13	2.45	0.47
42:BU:60:LYS:HG3	42:BU:61:GLU:N	2.28	0.47
46:BZ:49:ARG:C	46:BZ:51:VAL:N	2.69	0.47
49:B2:35:ARG:O	49:B2:39:ARG:HA	2.15	0.47
50:B3:13:PHE:O	50:B3:13:PHE:CG	2.68	0.47
1:CA:586:C:C2'	1:CA:587:G:H5'	2.44	0.47
1:CA:948:C:OP1	12:CM:107:THR:HG22	2.15	0.47
1:CA:954:G:H2'	1:CA:955:U:H6	1.80	0.47
1:CA:1268:G:H2'	1:CA:1269:A:C8	2.50	0.47
1:CA:1492:A:H2'	1:CA:1492:A:N3	2.29	0.47
2:CC:61:LYS:HE2	2:CC:96:VAL:HG12	1.96	0.47
4:CE:80:LEU:CD2	4:CE:122:VAL:HG11	2.45	0.47
9:CJ:91:ASP:C	9:CJ:92:LEU:HD23	2.35	0.47
19:CT:19:HIS:CE1	19:CT:23:ARG:HG3	2.50	0.47
20:CB:101:THR:HG22	20:CB:174:GLU:OE1	2.14	0.47
21:CU:16:ARG:C	21:CU:18:PHE:H	2.18	0.47
23:DB:263:G:H2'	23:DB:264:C:O4'	2.15	0.47
23:DB:543:G:C6	23:DB:544:C:H1'	2.49	0.47
23:DB:570:G:O2'	23:DB:571:U:H5'	2.15	0.47
23:DB:757:G:H2'	23:DB:758:C:H5'	1.97	0.47
23:DB:876:C:H5'	23:DB:877:A:OP2	2.15	0.47
23:DB:1352:U:O2'	23:DB:1353:A:H5'	2.15	0.47
23:DB:1430:G:H2'	23:DB:1431:A:H8	1.80	0.47
23:DB:2207:C:O2'	23:DB:2208:C:H5'	2.15	0.47
23:DB:2281:A:H62	43:DW:3:LYS:CD	2.28	0.47
23:DB:2553:G:H2'	23:DB:2554:U:C4'	2.45	0.47
23:DB:2874:C:H2'	23:DB:2875:C:C6	2.50	0.47
25:DC:160:TYR:CD2	25:DC:193:GLU:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:159:LYS:HB3	26:DD:160:LYS:H	1.62	0.47
27:DE:21:ARG:NH1	27:DE:25:GLU:HB2	2.29	0.47
29:DG:40:VAL:HG13	29:DG:51:PHE:CE2	2.50	0.47
30:DH:129:GLU:H	30:DH:129:GLU:HG3	1.49	0.47
31:DJ:128:ASN:O	31:DJ:130:HIS:N	2.48	0.47
33:DL:81:ASP:HA	33:DL:84:LYS:CD	2.45	0.47
34:DM:108:VAL:HB	34:DM:111:GLU:HB2	1.95	0.47
37:DP:47:ILE:CG2	37:DP:49:ILE:HG13	2.45	0.47
38:DQ:47:ARG:C	38:DQ:51:GLN:HE21	2.18	0.47
39:DR:46:GLU:HB3	39:DR:47:VAL:H	1.58	0.47
42:DU:27:VAL:CA	42:DU:33:VAL:HG22	2.44	0.47
42:DU:28:LEU:HD12	42:DU:29:SER:N	2.30	0.47
43:DW:3:LYS:HA	43:DW:3:LYS:NZ	2.30	0.47
48:D1:26:LYS:HD3	48:D1:28:THR:H	1.80	0.47
1:AA:301:G:H2'	1:AA:302:G:C8	2.50	0.47
1:AA:878:A:C5'	7:AH:80:PRO:HG2	2.43	0.47
1:AA:901:A:H3'	1:AA:902:G:O4'	2.15	0.47
1:AA:916:U:H2'	1:AA:917:G:H8	1.80	0.47
1:AA:1057:G:H4'	2:AC:194:VAL:O	2.15	0.47
3:AD:170:LEU:HD12	3:AD:170:LEU:O	2.15	0.47
5:AF:71:ILE:HG13	5:AF:72:ASP:N	2.29	0.47
10:AK:92:ARG:NH2	10:AK:111:ASP:OD1	2.47	0.47
15:AP:36:VAL:O	15:AP:36:VAL:HG13	2.14	0.47
20:AB:95:TRP:CH2	20:AB:100:LEU:HB2	2.50	0.47
23:BB:256:A:H2'	23:BB:257:C:H6	1.80	0.47
23:BB:443:A:H2	23:BB:1245:G:N3	2.13	0.47
23:BB:1188:U:C2'	23:BB:1189:A:H5'	2.44	0.47
23:BB:1278:C:O2'	23:BB:1279:G:H5'	2.15	0.47
23:BB:1846:G:H2'	23:BB:1847:A:O4'	2.15	0.47
23:BB:1973:G:H2'	23:BB:1974:C:H6	1.80	0.47
23:BB:2220:U:O2'	23:BB:2221:G:H5'	2.15	0.47
23:BB:2309:A:C5	23:BB:2310:C:N3	2.83	0.47
23:BB:2438:U:O2'	23:BB:2439:A:H5''	2.15	0.47
23:BB:2653:U:H5	23:BB:2654:A:HO2'	1.62	0.47
24:BV:16:ALA:HA	24:BV:19:ARG:NE	2.29	0.47
25:BC:230:PRO:O	25:BC:231:HIS:HB3	2.15	0.47
26:BD:33:ARG:HG3	26:BD:93:GLY:CA	2.41	0.47
28:BF:82:TYR:HB3	28:BF:83:PRO:HD2	1.97	0.47
30:BH:49:ALA:O	30:BH:53:GLU:HB2	2.15	0.47
31:BJ:43:GLU:O	31:BJ:45:THR:N	2.48	0.47
31:BJ:58:ASN:C	31:BJ:60:ASP:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:7:MET:HE3	32:BK:20:MET:HB2	1.96	0.47
33:BL:13:LYS:CG	33:BL:14:LYS:H	2.28	0.47
34:BM:43:ALA:C	34:BM:45:GLN:N	2.68	0.47
34:BM:62:LYS:HB2	34:BM:104:GLU:HB2	1.96	0.47
34:BM:90:GLU:O	34:BM:91:TYR:HB2	2.14	0.47
34:BM:117:PHE:HB2	34:BM:124:LEU:HD21	1.97	0.47
35:BN:36:THR:O	35:BN:40:LYS:HB2	2.14	0.47
35:BN:65:LEU:HD12	35:BN:68:ALA:HB3	1.97	0.47
37:BP:29:VAL:O	37:BP:44:GLY:HA3	2.15	0.47
38:BQ:75:TYR:CZ	38:BQ:79:ILE:HD11	2.49	0.47
48:B1:10:LEU:HD21	48:B1:34:GLU:HG3	1.97	0.47
52:BI:72:THR:HB	52:BI:73:PRO:HD2	1.96	0.47
1:CA:619:U:H3	3:CD:130:ASN:HD21	1.57	0.47
1:CA:782:A:H4'	1:CA:1514:G:O2'	2.15	0.47
1:CA:1371:G:O3'	8:CI:70:GLY:HA3	2.15	0.47
3:CD:57:LYS:HD3	3:CD:58:GLN:N	2.30	0.47
10:CK:117:HIS:O	10:CK:118:ASN:HB2	2.14	0.47
12:CM:89:ARG:CB	12:CM:96:VAL:HG22	2.45	0.47
13:CN:50:LEU:N	13:CN:51:PRO:CD	2.75	0.47
19:CT:74:HIS:O	19:CT:78:LEU:HG	2.15	0.47
20:CB:145:ASN:HD22	20:CB:145:ASN:HA	1.55	0.47
20:CB:153:MET:C	20:CB:155:GLY:H	2.19	0.47
23:DB:448:U:H5	23:DB:583:G:C2	2.33	0.47
23:DB:534:U:C5'	38:DQ:41:ALA:HA	2.42	0.47
23:DB:622:G:H2'	23:DB:623:C:C6	2.50	0.47
23:DB:812:C:H2'	23:DB:813:U:H6	1.79	0.47
23:DB:825:A:H2'	23:DB:826:U:O4'	2.15	0.47
23:DB:1563:U:H2'	23:DB:1564:C:C6	2.50	0.47
23:DB:1919:A:H2'	23:DB:1920:C:H5'	1.95	0.47
23:DB:1936:A:H2	23:DB:1943:U:C5	2.33	0.47
23:DB:2188:U:H2'	23:DB:2189:U:O4'	2.14	0.47
23:DB:2567:G:H2'	23:DB:2568:U:C6	2.50	0.47
23:DB:2683:C:H2'	23:DB:2684:U:H6	1.80	0.47
23:DB:2803:G:H2'	23:DB:2804:U:H6	1.78	0.47
23:DB:2896:C:H2'	23:DB:2897:U:C6	2.49	0.47
30:DH:54:LEU:O	30:DH:58:LEU:HD23	2.15	0.47
34:DM:71:LYS:HZ2	34:DM:91:TYR:HA	1.80	0.47
43:DW:42:THR:HB	43:DW:75:ASN:ND2	2.29	0.47
43:DW:56:HIS:CG	43:DW:57:THR:H	2.33	0.47
47:D0:28:SER:HB3	47:D0:34:GLY:O	2.14	0.47
50:D3:38:LYS:HG3	50:D3:41:ARG:HH21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:34:C:H2'	1:AA:35:G:H8	1.79	0.46
1:AA:167:A:O2'	1:AA:168:G:H5'	2.15	0.46
1:AA:384:G:H2'	1:AA:385:C:H6	1.80	0.46
1:AA:421:U:H1'	2:AC:125:ARG:HH12	1.79	0.46
1:AA:471:U:H2'	1:AA:472:U:H6	1.80	0.46
1:AA:981:U:H4'	13:AN:60:ARG:CG	2.45	0.46
1:AA:1294:G:H2'	1:AA:1295:U:H6	1.79	0.46
2:AC:46:LEU:CD2	2:AC:75:VAL:HG13	2.44	0.46
2:AC:120:THR:HA	2:AC:123:LEU:HD12	1.96	0.46
2:AC:131:ARG:CZ	2:AC:131:ARG:HB3	2.45	0.46
6:AG:94:ARG:CD	6:AG:98:LEU:HD11	2.45	0.46
6:AG:139:ASP:HA	6:AG:142:ARG:HH12	1.81	0.46
7:AH:34:ALA:HB1	7:AH:109:VAL:HG21	1.97	0.46
8:AI:23:GLY:N	8:AI:60:LEU:HA	2.24	0.46
8:AI:40:ARG:HA	8:AI:44:ARG:HH21	1.81	0.46
9:AJ:6:ILE:HG12	9:AJ:102:LEU:CD1	2.45	0.46
15:AP:42:ILE:CG2	15:AP:43:ALA:H	2.20	0.46
16:AQ:10:ARG:NE	16:AQ:11:VAL:H	2.12	0.46
23:BB:288:U:O2'	23:BB:289:G:H5'	2.15	0.46
23:BB:1091:G:O2'	23:BB:1092:C:H5'	2.15	0.46
23:BB:1184:U:H2'	23:BB:1185:G:H8	1.80	0.46
23:BB:1413:A:H2'	23:BB:1414:C:C6	2.49	0.46
23:BB:2553:G:H2'	23:BB:2554:U:C4'	2.44	0.46
26:BD:154:LYS:NZ	31:BJ:81:ILE:HG21	2.30	0.46
27:BE:128:ALA:O	27:BE:157:LEU:HB2	2.15	0.46
28:BF:70:ARG:HA	28:BF:80:GLN:HE21	1.80	0.46
30:BH:4:ILE:H	30:BH:37:VAL:CB	2.25	0.46
32:BK:58:LEU:HB3	32:BK:89:ASN:ND2	2.29	0.46
33:BL:13:LYS:HG3	33:BL:14:LYS:H	1.80	0.46
33:BL:19:LEU:N	33:BL:19:LEU:HD22	2.30	0.46
33:BL:39:LYS:HB2	33:BL:46:VAL:HG22	1.97	0.46
33:BL:82:LEU:O	33:BL:117:THR:HG22	2.15	0.46
36:BO:8:ILE:CG2	36:BO:9:ARG:N	2.77	0.46
37:BP:47:ILE:CA	37:BP:63:ILE:HG23	2.45	0.46
41:BT:35:ALA:O	41:BT:81:LYS:HD3	2.15	0.46
42:BU:81:ARG:HA	42:BU:81:ARG:HH11	1.81	0.46
43:BW:19:ARG:NH2	43:BW:71:LYS:HD2	2.30	0.46
44:BX:38:GLN:HG2	44:BX:39:GLN:N	2.29	0.46
49:B2:35:ARG:HH12	49:B2:39:ARG:HG2	1.80	0.46
49:B2:44:VAL:HG23	49:B2:45:SER:N	2.24	0.46
1:CA:523:A:N1	11:CL:88:ASP:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1461:G:O2'	1:CA:1462:C:H5'	2.15	0.46
3:CD:61:ARG:HE	3:CD:68:GLU:CA	2.28	0.46
5:CF:3:HIS:NE2	5:CF:95:ALA:HB2	2.30	0.46
5:CF:8:PHE:HE1	5:CF:21:MET:HE1	1.79	0.46
6:CG:11:ILE:HG22	6:CG:12:LEU:N	2.30	0.46
9:CJ:66:GLU:O	13:CN:95:LEU:HA	2.15	0.46
10:CK:69:CYS:C	10:CK:73:VAL:HG22	2.36	0.46
13:CN:63:CYS:CB	13:CN:68:ARG:H	2.21	0.46
15:CP:67:ILE:HG13	15:CP:71:VAL:CG1	2.40	0.46
20:CB:206:ILE:HG22	20:CB:207:ARG:NH2	2.26	0.46
22:DA:92:C:O2'	22:DA:93:C:H5'	2.15	0.46
23:DB:327:G:H2'	23:DB:328:U:O4'	2.14	0.46
23:DB:398:C:OP1	46:DZ:49:ARG:NH1	2.48	0.46
23:DB:409:G:O2'	23:DB:410:G:H5'	2.15	0.46
23:DB:452:G:OP1	27:DE:53:THR:O	2.34	0.46
23:DB:532:A:H4'	23:DB:533:G:C8	2.50	0.46
23:DB:850:U:O2'	45:DY:22:THR:HG22	2.15	0.46
23:DB:1205:A:N7	27:DE:164:LEU:HD21	2.29	0.46
23:DB:2262:U:O4	43:DW:12:GLY:HA2	2.15	0.46
23:DB:2599:G:N7	25:DC:234:GLY:HA2	2.31	0.46
23:DB:2673:G:H2'	23:DB:2674:G:H8	1.80	0.46
25:DC:164:VAL:HB	25:DC:167:ASP:OD1	2.15	0.46
25:DC:172:THR:O	25:DC:182:LYS:HA	2.15	0.46
26:DD:8:LYS:HG3	37:DP:5:LYS:HZ2	1.79	0.46
26:DD:22:ILE:O	26:DD:22:ILE:CG1	2.63	0.46
26:DD:35:THR:HB	26:DD:48:ILE:CG1	2.45	0.46
26:DD:37:VAL:CB	26:DD:46:ARG:HB2	2.41	0.46
26:DD:46:ARG:CA	26:DD:82:PHE:HA	2.45	0.46
27:DE:85:PHE:O	27:DE:86:ALA:CB	2.63	0.46
34:DM:53:MET:HE3	34:DM:63:ILE:HD12	1.96	0.46
38:DQ:13:HIS:HB2	38:DQ:31:TYR:CE2	2.50	0.46
39:DR:4:VAL:N	39:DR:12:HIS:HB3	2.30	0.46
42:DU:11:ILE:HG22	42:DU:19:GLY:HA2	1.96	0.46
43:DW:67:LYS:HG2	43:DW:71:LYS:N	2.31	0.46
47:D0:50:GLY:O	47:D0:51:ARG:C	2.53	0.46
51:D4:2:LYS:HA	51:D4:36:ARG:O	2.15	0.46
51:D4:15:LYS:C	51:D4:17:VAL:N	2.68	0.46
1:AA:437:U:H5''	3:AD:151:GLN:NE2	2.29	0.46
1:AA:552:U:H2'	1:AA:553:A:C8	2.50	0.46
1:AA:1016:A:H5'	1:AA:1218:C:H4'	1.97	0.46
1:AA:1131:G:O2'	1:AA:1132:C:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:205:GLU:HB2	2:AC:206:ILE:H	1.51	0.46
4:AE:19:ARG:O	4:AE:20:VAL:HB	2.14	0.46
5:AF:18:VAL:HG21	5:AF:58:HIS:CG	2.49	0.46
5:AF:70:VAL:HA	5:AF:73:GLU:HG3	1.96	0.46
7:AH:40:LYS:HA	7:AH:45:ILE:HG13	1.97	0.46
7:AH:51:GLU:O	7:AH:56:PRO:HA	2.16	0.46
12:AM:53:ASP:OD1	12:AM:56:ARG:HD2	2.15	0.46
19:AT:70:LYS:HB2	19:AT:70:LYS:NZ	2.31	0.46
21:AU:3:ILE:CA	21:AU:19:LYS:HG2	2.39	0.46
22:BA:49:C:O2'	22:BA:50:A:H5'	2.14	0.46
23:BB:139:U:C4	41:BT:1:MET:HB2	2.50	0.46
23:BB:943:A:OP2	33:BL:42:SER:HB3	2.15	0.46
23:BB:993:G:HO2'	39:BR:93:PHE:HE2	1.60	0.46
23:BB:1080:A:H2'	23:BB:1081:U:C6	2.48	0.46
23:BB:1081:U:H5'	52:BI:126:ARG:HD2	1.97	0.46
23:BB:1396:U:O2	23:BB:1396:U:O4'	2.34	0.46
23:BB:1399:C:H2'	23:BB:1400:U:C6	2.50	0.46
23:BB:1439:A:N7	23:BB:1440:U:N1	2.63	0.46
23:BB:1529:G:H2'	23:BB:1530:G:C8	2.50	0.46
23:BB:1541:C:H2'	23:BB:1542:U:O4'	2.16	0.46
24:BV:63:ILE:HG22	24:BV:65:VAL:HG13	1.97	0.46
25:BC:75:ALA:HB2	25:BC:95:TYR:CE1	2.50	0.46
25:BC:212:TRP:C	25:BC:214:GLY:H	2.18	0.46
25:BC:227:VAL:HG12	25:BC:228:ASP:N	2.29	0.46
26:BD:108:ASP:HB3	26:BD:173:GLN:HA	1.96	0.46
26:BD:130:GLN:HG2	26:BD:138:LEU:CD1	2.45	0.46
26:BD:172:VAL:O	26:BD:173:GLN:HB2	2.16	0.46
26:BD:175:LEU:CD2	26:BD:190:LYS:HB3	2.45	0.46
27:BE:153:LEU:HA	27:BE:171:ASP:O	2.15	0.46
31:BJ:78:THR:C	31:BJ:80:HIS:H	2.19	0.46
31:BJ:124:VAL:O	31:BJ:125:TYR:HB2	2.16	0.46
32:BK:12:ASP:HB3	32:BK:85:VAL:HG13	1.97	0.46
33:BL:14:LYS:HZ3	33:BL:14:LYS:CA	2.24	0.46
35:BN:7:GLY:O	35:BN:8:ARG:CB	2.63	0.46
35:BN:29:VAL:HB	35:BN:75:ILE:HG12	1.96	0.46
38:BQ:32:ARG:HD2	38:BQ:32:ARG:C	2.36	0.46
40:BS:76:VAL:HG12	40:BS:103:ILE:HA	1.97	0.46
46:BZ:3:LYS:CD	46:BZ:6:HIS:HB3	2.44	0.46
1:CA:114:U:H2'	1:CA:115:G:C8	2.51	0.46
1:CA:182:A:H1'	1:CA:183:C:H5	1.80	0.46
1:CA:325:A:H2'	1:CA:326:G:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:538:G:P	11:CL:111:GLN:HB2	2.55	0.46
1:CA:599:C:H4'	7:CH:121:GLY:C	2.36	0.46
1:CA:742:G:O2'	1:CA:743:A:H5'	2.16	0.46
1:CA:1028:C:H2'	1:CA:1029:U:C6	2.50	0.46
1:CA:1453:G:H2'	1:CA:1454:G:O4'	2.16	0.46
3:CD:94:GLU:HG2	3:CD:190:LEU:HD21	1.97	0.46
4:CE:95:MET:HG3	4:CE:124:ALA:CB	2.45	0.46
10:CK:16:SER:OG	10:CK:79:LYS:HB2	2.14	0.46
12:CM:56:ARG:HH11	12:CM:56:ARG:HG3	1.80	0.46
14:CO:32:THR:HG23	14:CO:62:ARG:NH1	2.30	0.46
18:CS:56:HIS:CD2	18:CS:56:HIS:N	2.83	0.46
19:CT:67:HIS:CG	19:CT:68:LYS:H	2.33	0.46
20:CB:89:PHE:HB3	20:CB:149:GLY:O	2.15	0.46
23:DB:810:U:C2	33:DL:37:GLY:HA2	2.51	0.46
23:DB:1163:G:O2'	23:DB:1164:C:H5'	2.15	0.46
23:DB:1365:A:OP2	46:DZ:9:TYR:HE2	1.97	0.46
23:DB:1430:G:H2'	23:DB:1431:A:C8	2.50	0.46
23:DB:2216:G:H2'	23:DB:2217:G:H8	1.80	0.46
23:DB:2247:A:H2'	23:DB:2248:C:C6	2.50	0.46
23:DB:2443:C:H2'	23:DB:2444:G:H8	1.80	0.46
23:DB:2718:G:OP1	37:DP:100:ARG:HG3	2.15	0.46
23:DB:2773:C:O2'	23:DB:2774:C:H5'	2.14	0.46
23:DB:2828:G:O2'	23:DB:2829:A:H5'	2.15	0.46
23:DB:2862:G:H2'	23:DB:2863:C:H6	1.80	0.46
25:DC:54:GLY:H	25:DC:216:ARG:HG3	1.80	0.46
25:DC:172:THR:O	25:DC:173:LEU:HB2	2.15	0.46
26:DD:193:VAL:O	26:DD:193:VAL:HG23	2.15	0.46
27:DE:24:ASN:N	27:DE:110:SER:HB2	2.30	0.46
27:DE:143:LEU:HD22	27:DE:143:LEU:H	1.77	0.46
27:DE:172:ALA:O	27:DE:173:THR:HB	2.14	0.46
29:DG:61:TRP:HA	29:DG:61:TRP:CE3	2.49	0.46
33:DL:3:LEU:HD22	33:DL:4:ASN:OD1	2.15	0.46
35:DN:7:GLY:O	35:DN:8:ARG:HB2	2.14	0.46
37:DP:23:ASP:H	37:DP:93:LYS:HE2	1.79	0.46
39:DR:4:VAL:HB	39:DR:41:ILE:HG21	1.96	0.46
40:DS:11:ARG:HH11	40:DS:11:ARG:HG3	1.81	0.46
42:DU:35:VAL:HG13	42:DU:37:GLY:H	1.81	0.46
44:DX:22:LEU:HD22	44:DX:25:GLN:CD	2.35	0.46
52:DI:100:ILE:CG2	52:DI:104:GLN:HB2	2.45	0.46
1:AA:26:A:H61	1:AA:558:G:H1'	1.81	0.46
1:AA:123:U:H5''	1:AA:311:C:O2'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:692:U:H2'	1:AA:694:A:OP2	2.15	0.46
1:AA:767:A:H2'	1:AA:768:A:C8	2.50	0.46
1:AA:1085:U:H3'	1:AA:1086:U:C5	2.51	0.46
1:AA:1430:A:H2'	1:AA:1431:A:O4'	2.16	0.46
2:AC:49:ALA:HB1	2:AC:75:VAL:CG2	2.40	0.46
2:AC:171:ARG:NH1	2:AC:173:PRO:HG3	2.31	0.46
3:AD:94:GLU:HA	3:AD:94:GLU:OE2	2.14	0.46
5:AF:75:GLU:O	5:AF:79:ARG:HG2	2.14	0.46
7:AH:29:SER:HB3	7:AH:32:LYS:CG	2.46	0.46
7:AH:65:PHE:CD2	7:AH:66:GLN:HG3	2.51	0.46
9:AJ:5:ARG:HD3	9:AJ:5:ARG:N	2.29	0.46
9:AJ:89:ARG:HA	9:AJ:89:ARG:NE	2.31	0.46
13:AN:60:ARG:HE	13:AN:62:ARG:CZ	2.28	0.46
18:AS:4:LEU:O	18:AS:6:LYS:N	2.48	0.46
18:AS:10:ILE:HD11	18:AS:15:LEU:HD13	1.96	0.46
20:AB:128:LEU:HD13	20:AB:129:THR:H	1.80	0.46
21:AU:13:VAL:CG1	21:AU:14:ALA:H	2.21	0.46
22:BA:10:G:H2'	22:BA:11:C:O4'	2.16	0.46
23:BB:279:A:H61	23:BB:361:G:H1'	1.76	0.46
23:BB:416:U:H2'	23:BB:417:C:H6	1.79	0.46
23:BB:1172:C:H2'	23:BB:1173:U:O4'	2.14	0.46
23:BB:1606:C:H5''	23:BB:1607:C:OP1	2.15	0.46
23:BB:1774:C:H2'	23:BB:1774:C:O2	2.15	0.46
23:BB:1938:A:O2'	23:BB:1939:U:H5''	2.15	0.46
23:BB:2266:A:C4'	23:BB:2267:A:N7	2.78	0.46
23:BB:2305:U:O4	28:BF:37:MET:HA	2.16	0.46
23:BB:2620:C:C4'	26:BD:161:MET:HG3	2.45	0.46
23:BB:2623:G:N2	47:B0:18:HIS:NE2	2.63	0.46
25:BC:42:ARG:CG	25:BC:43:ASN:N	2.73	0.46
25:BC:78:GLU:CB	25:BC:92:LEU:HD23	2.45	0.46
25:BC:139:THR:HG22	25:BC:193:GLU:HB3	1.98	0.46
25:BC:155:ARG:NE	25:BC:157:ALA:HB3	2.23	0.46
25:BC:179:GLU:HB2	25:BC:266:ILE:HG22	1.96	0.46
25:BC:220:ARG:HA	25:BC:220:ARG:CZ	2.45	0.46
26:BD:49:GLN:O	26:BD:78:GLY:HA2	2.15	0.46
28:BF:171:ALA:N	28:BF:173:ASP:OD1	2.48	0.46
30:BH:1:MET:HA	30:BH:21:VAL:O	2.15	0.46
31:BJ:34:ARG:CG	31:BJ:39:LYS:HD2	2.44	0.46
32:BK:63:VAL:HB	32:BK:83:ALA:HB1	1.98	0.46
32:BK:85:VAL:O	32:BK:85:VAL:HG12	2.14	0.46
34:BM:64:TRP:HB3	34:BM:102:LEU:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:22:GLY:CA	37:BP:91:VAL:HG13	2.43	0.46
37:BP:23:ASP:O	37:BP:25:VAL:N	2.48	0.46
37:BP:24:THR:HG21	37:BP:111:GLU:CG	2.38	0.46
37:BP:31:VAL:HA	37:BP:81:ASP:HB3	1.97	0.46
38:BQ:90:ASP:OD1	39:BR:54:VAL:HG11	2.15	0.46
39:BR:58:VAL:HG22	39:BR:59:ILE:HG23	1.96	0.46
43:BW:23:LYS:HZ2	43:BW:24:ARG:HG2	1.78	0.46
43:BW:43:LYS:O	43:BW:45:HIS:N	2.47	0.46
44:BX:43:LEU:HA	44:BX:47:ARG:HB3	1.96	0.46
46:BZ:24:ILE:HG12	46:BZ:25:ARG:N	2.28	0.46
46:BZ:31:ASP:O	46:BZ:32:LEU:HB3	2.15	0.46
1:CA:138:G:O2'	1:CA:139:A:H5'	2.14	0.46
1:CA:627:G:H2'	1:CA:628:G:C8	2.50	0.46
1:CA:956:U:H2'	1:CA:957:U:C6	2.50	0.46
1:CA:1118:U:O2'	1:CA:1119:C:H5'	2.15	0.46
1:CA:1281:C:H5'	1:CA:1282:C:C5	2.46	0.46
2:CC:127:VAL:HB	2:CC:128:MET:CE	2.46	0.46
3:CD:44:LYS:O	3:CD:44:LYS:HD3	2.15	0.46
3:CD:105:GLY:HA3	3:CD:158:LEU:HD23	1.98	0.46
4:CE:89:THR:HG22	4:CE:91:SER:N	2.22	0.46
6:CG:49:LEU:C	6:CG:51:GLN:H	2.17	0.46
7:CH:17:GLN:HG3	7:CH:71:VAL:CG2	2.44	0.46
9:CJ:37:ARG:NE	9:CJ:37:ARG:C	2.69	0.46
12:CM:79:LEU:HD12	12:CM:80:MET:N	2.30	0.46
16:CQ:64:ARG:HH11	16:CQ:64:ARG:CB	2.27	0.46
18:CS:18:VAL:HG22	18:CS:42:ASN:ND2	2.31	0.46
22:DA:75:G:H1	22:DA:102:G:N2	2.12	0.46
23:DB:37:C:H1'	27:DE:45:ALA:HB2	1.97	0.46
23:DB:90:U:OP2	23:DB:91:A:H3'	2.16	0.46
23:DB:1076:C:O2'	23:DB:1077:A:H5'	2.16	0.46
23:DB:2186:G:H2'	23:DB:2187:U:O4'	2.16	0.46
23:DB:2398:U:H2'	23:DB:2399:G:H8	1.80	0.46
25:DC:220:ARG:HA	25:DC:220:ARG:NE	2.29	0.46
26:DD:4:LEU:CD1	26:DD:79:LEU:HD22	2.45	0.46
27:DE:99:LYS:O	27:DE:103:GLY:N	2.44	0.46
29:DG:88:LEU:HG	29:DG:161:VAL:HB	1.96	0.46
32:DK:4:GLU:OE2	32:DK:23:LYS:HD2	2.16	0.46
36:DO:25:ARG:CB	36:DO:94:ARG:HH22	2.28	0.46
37:DP:25:VAL:CG1	37:DP:88:ARG:N	2.66	0.46
37:DP:61:ARG:HH22	37:DP:63:ILE:HD11	1.80	0.46
38:DQ:34:ALA:O	38:DQ:37:ALA:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:68:ALA:HB1	38:DQ:73:ILE:HG21	1.97	0.46
38:DQ:87:VAL:HB	39:DR:54:VAL:CG1	2.43	0.46
38:DQ:87:VAL:HB	39:DR:54:VAL:HG21	1.96	0.46
39:DR:3:ALA:HB1	39:DR:12:HIS:CD2	2.50	0.46
40:DS:21:ALA:HB1	40:DS:74:ILE:CD1	2.38	0.46
41:DT:11:LEU:HA	41:DT:34:VAL:HA	1.98	0.46
50:D3:21:PHE:HE1	50:D3:56:LEU:HB3	1.81	0.46
51:D4:24:ARG:HH21	51:D4:37:GLN:HB2	1.81	0.46
1:AA:591:U:H2'	1:AA:592:G:H8	1.79	0.46
1:AA:746:A:H2'	1:AA:747:A:H8	1.80	0.46
1:AA:841:C:H6	1:AA:843:U:OP1	1.99	0.46
1:AA:1494:G:O2'	1:AA:1495:U:H5'	2.15	0.46
2:AC:11:LEU:HD22	2:AC:17:TRP:CD1	2.50	0.46
2:AC:71:ARG:O	2:AC:75:VAL:HG23	2.14	0.46
2:AC:76:ILE:C	2:AC:82:ASP:HB2	2.36	0.46
3:AD:43:ARG:HB3	3:AD:44:LYS:H	1.49	0.46
3:AD:167:PRO:HB2	3:AD:170:LEU:HG	1.97	0.46
7:AH:64:TYR:CA	7:AH:70:VAL:HG23	2.45	0.46
8:AI:51:LEU:HD23	8:AI:56:MET:HE3	1.97	0.46
19:AT:74:HIS:O	19:AT:78:LEU:HB2	2.16	0.46
23:BB:131:A:O2'	23:BB:132:G:H5'	2.15	0.46
23:BB:144:A:H2'	23:BB:145:C:O4'	2.15	0.46
23:BB:581:C:H2'	23:BB:582:A:C8	2.51	0.46
23:BB:878:A:OP1	23:BB:899:A:N6	2.47	0.46
23:BB:946:C:P	54:BB:3389:HOH:O	2.72	0.46
23:BB:1082:U:H2'	23:BB:1083:U:O4'	2.16	0.46
23:BB:1295:C:H2'	23:BB:1296:G:H8	1.81	0.46
23:BB:1476:U:HO2'	23:BB:1477:A:H8	1.62	0.46
23:BB:1537:G:H2'	23:BB:1538:G:C4'	2.46	0.46
23:BB:1789:A:H2'	23:BB:1790:C:C6	2.51	0.46
23:BB:1843:C:H4'	25:BC:250:GLN:HB3	1.96	0.46
23:BB:1971:U:H1'	25:BC:238:ASN:HD22	1.81	0.46
23:BB:2395:C:O5'	23:BB:2395:C:H6	1.98	0.46
23:BB:2751:G:N2	29:BG:1:SER:HB3	2.31	0.46
23:BB:2896:C:H2'	23:BB:2897:U:H6	1.81	0.46
25:BC:24:HIS:HB2	25:BC:27:LYS:HE3	1.96	0.46
26:BD:135:GLY:C	26:BD:137:SER:N	2.68	0.46
26:BD:138:LEU:O	26:BD:139:SER:C	2.53	0.46
27:BE:44:ARG:CG	27:BE:45:ALA:H	2.28	0.46
28:BF:56:LEU:HD13	28:BF:86:CYS:HB3	1.98	0.46
28:BF:136:ILE:C	28:BF:138:PRO:HD3	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:165:GLY:HA2	28:BF:168:LEU:CG	2.46	0.46
30:BH:4:ILE:HD11	30:BH:39:ALA:HA	1.97	0.46
31:BJ:74:TYR:O	31:BJ:87:ALA:HA	2.15	0.46
31:BJ:125:TYR:OH	31:BJ:133:ALA:HB3	2.15	0.46
32:BK:8:LEU:O	32:BK:19:VAL:HG23	2.16	0.46
32:BK:58:LEU:CB	32:BK:89:ASN:HD21	2.28	0.46
33:BL:85:VAL:O	33:BL:85:VAL:HG13	2.15	0.46
33:BL:91:ASP:HB2	33:BL:123:ARG:HD2	1.97	0.46
34:BM:119:LEU:N	34:BM:119:LEU:HD22	2.30	0.46
34:BM:131:VAL:HG23	34:BM:132:THR:H	1.80	0.46
38:BQ:34:ALA:O	38:BQ:38:VAL:HG12	2.16	0.46
38:BQ:53:LYS:HD2	38:BQ:53:LYS:H	1.80	0.46
40:BS:79:GLY:O	40:BS:80:PRO:C	2.54	0.46
41:BT:8:LEU:H	41:BT:8:LEU:CD2	2.19	0.46
50:B3:14:LYS:O	50:B3:21:PHE:HB3	2.16	0.46
1:CA:434:U:O2	1:CA:434:U:H2'	2.15	0.46
1:CA:608:A:H2'	1:CA:609:A:O4'	2.15	0.46
1:CA:636:U:H2'	1:CA:637:C:H6	1.80	0.46
1:CA:719:C:O2'	17:CR:37:LYS:HG3	2.16	0.46
1:CA:1021:A:H2'	1:CA:1022:A:C1'	2.45	0.46
1:CA:1375:A:H2'	1:CA:1376:U:C6	2.50	0.46
1:CA:1483:A:H2'	1:CA:1484:C:O4'	2.16	0.46
2:CC:85:LYS:O	2:CC:89:VAL:HG13	2.15	0.46
8:CI:29:ILE:HG23	8:CI:29:ILE:O	2.16	0.46
9:CJ:57:VAL:HG13	9:CJ:58:ASN:N	2.31	0.46
13:CN:31:SER:O	13:CN:40:ARG:HD3	2.15	0.46
16:CQ:57:VAL:HB	16:CQ:79:GLU:HB2	1.98	0.46
20:CB:14:HIS:CG	20:CB:15:PHE:N	2.81	0.46
23:DB:409:G:H2'	23:DB:410:G:C8	2.51	0.46
23:DB:506:G:H1'	23:DB:507:A:C8	2.50	0.46
23:DB:704:G:HO2'	23:DB:726:G:N2	2.12	0.46
23:DB:1666:G:C2'	23:DB:1667:G:H5'	2.46	0.46
23:DB:1684:G:H2'	23:DB:1685:C:H6	1.80	0.46
23:DB:1946:U:H2'	23:DB:1947:C:C6	2.50	0.46
23:DB:2061:G:H5''	23:DB:2503:A:N1	2.30	0.46
23:DB:2561:U:O2'	32:DK:23:LYS:HG2	2.15	0.46
23:DB:2799:A:H4'	23:DB:2800:A:C8	2.51	0.46
25:DC:50:THR:O	25:DC:51:ARG:C	2.52	0.46
25:DC:53:ILE:HG21	25:DC:218:THR:CA	2.44	0.46
25:DC:107:LYS:HE3	25:DC:108:GLY:H	1.79	0.46
26:DD:110:THR:HB	26:DD:202:ILE:HB	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:17:THR:OG1	27:DE:18:THR:N	2.48	0.46
29:DG:19:ASN:HB3	29:DG:22:VAL:HB	1.97	0.46
30:DH:84:ALA:HA	30:DH:89:LYS:O	2.15	0.46
31:DJ:15:TRP:CD2	31:DJ:138:GLN:HB2	2.49	0.46
33:DL:101:ILE:HG22	33:DL:101:ILE:O	2.15	0.46
33:DL:110:VAL:HG23	33:DL:131:ALA:HB1	1.97	0.46
34:DM:20:LEU:HD13	34:DM:38:ARG:CG	2.44	0.46
35:DN:48:VAL:HA	35:DN:51:LEU:HD12	1.97	0.46
37:DP:29:VAL:HG13	37:DP:84:SER:HB2	1.96	0.46
38:DQ:94:LEU:HA	38:DQ:97:ILE:HG12	1.98	0.46
39:DR:39:LEU:H	39:DR:61:ALA:CB	2.26	0.46
42:DU:46:LYS:HG2	42:DU:52:ASN:O	2.14	0.46
43:DW:28:GLU:HA	43:DW:28:GLU:OE1	2.16	0.46
50:D3:4:LYS:HD3	50:D3:59:ALA:HA	1.97	0.46
1:AA:299:G:H2'	1:AA:300:A:C8	2.51	0.46
1:AA:335:C:H2'	1:AA:336:A:H8	1.78	0.46
1:AA:366:A:O2'	1:AA:394:G:N2	2.49	0.46
1:AA:389:A:H2'	1:AA:389:A:N3	2.30	0.46
1:AA:628:G:H2'	1:AA:629:A:C8	2.51	0.46
1:AA:1109:C:N4	1:AA:1110:A:N6	2.62	0.46
1:AA:1121:U:H2'	1:AA:1122:U:O4'	2.15	0.46
1:AA:1527:U:O2'	1:AA:1528:U:H5'	2.16	0.46
2:AC:24:ASN:O	2:AC:26:LYS:N	2.49	0.46
6:AG:110:ARG:HH12	6:AG:122:GLU:N	2.13	0.46
6:AG:130:LYS:N	6:AG:134:VAL:HG11	2.31	0.46
11:AL:49:ARG:HH12	11:AL:88:ASP:CB	2.28	0.46
15:AP:3:THR:HG22	15:AP:66:THR:HB	1.98	0.46
16:AQ:20:ILE:CG1	16:AQ:45:VAL:HB	2.43	0.46
17:AR:63:TYR:C	17:AR:65:SER:H	2.19	0.46
21:AU:40:PRO:O	21:AU:42:THR:N	2.48	0.46
23:BB:32:C:H5'	23:BB:1238:G:OP1	2.14	0.46
23:BB:904:G:H2'	23:BB:905:A:H8	1.81	0.46
23:BB:1114:C:H2'	23:BB:1115:G:C8	2.50	0.46
23:BB:1190:G:OP1	33:BL:41:ARG:HG2	2.15	0.46
23:BB:2226:C:H2'	23:BB:2227:A:O4'	2.16	0.46
23:BB:2299:U:H2'	23:BB:2300:C:C6	2.50	0.46
23:BB:2828:G:O2'	23:BB:2829:A:H5'	2.14	0.46
24:BV:4:ILE:HG22	24:BV:63:ILE:HG23	1.96	0.46
24:BV:82:TYR:CB	34:BM:36:VAL:HG12	2.45	0.46
25:BC:181:ARG:NH2	25:BC:260:LYS:HZ2	2.10	0.46
26:BD:4:LEU:O	26:BD:5:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:150:GLN:O	26:BD:151:THR:HG22	2.15	0.46
27:BE:88:ARG:HA	27:BE:89:PRO:HD3	1.71	0.46
30:BH:5:LEU:O	30:BH:6:LEU:HB3	2.16	0.46
30:BH:89:LYS:HE3	30:BH:123:ARG:HB2	1.96	0.46
31:BJ:45:THR:CG2	38:BQ:63:ARG:HH22	2.28	0.46
32:BK:10:VAL:HG11	32:BK:15:GLY:O	2.15	0.46
33:BL:80:SER:OG	33:BL:116:VAL:HG13	2.15	0.46
33:BL:92:LEU:HD21	33:BL:96:LYS:NZ	2.30	0.46
34:BM:3:GLN:CB	34:BM:46:ILE:HB	2.46	0.46
34:BM:36:VAL:CA	34:BM:97:GLN:HG2	2.45	0.46
37:BP:52:ARG:HH11	37:BP:54:LEU:HB2	1.79	0.46
40:BS:71:VAL:CG2	40:BS:107:VAL:HG12	2.43	0.46
41:BT:88:LYS:HG2	41:BT:89:GLU:N	2.23	0.46
43:BW:74:LYS:O	43:BW:75:ASN:CB	2.64	0.46
1:CA:552:U:H2'	1:CA:553:A:C8	2.51	0.46
1:CA:1329:A:H5''	12:CM:25:GLY:N	2.30	0.46
4:CE:40:ASP:CG	4:CE:44:ARG:HB2	2.36	0.46
6:CG:63:VAL:CG1	6:CG:126:ALA:HB1	2.45	0.46
7:CH:17:GLN:HE21	7:CH:71:VAL:HG22	1.81	0.46
11:CL:34:THR:CB	11:CL:53:ARG:HB3	2.46	0.46
11:CL:75:GLU:OE2	11:CL:76:HIS:N	2.48	0.46
11:CL:110:LYS:O	11:CL:113:ARG:HG3	2.15	0.46
12:CM:53:ASP:HA	12:CM:56:ARG:HH21	1.81	0.46
14:CO:83:ARG:C	14:CO:84:LEU:HD12	2.35	0.46
15:CP:28:ARG:HD3	15:CP:29:ASN:OD1	2.16	0.46
16:CQ:82:VAL:O	16:CQ:83:LEU:HD13	2.15	0.46
20:CB:148:GLY:C	20:CB:150:ILE:H	2.19	0.46
23:DB:136:G:H2'	23:DB:137:U:H6	1.76	0.46
23:DB:976:G:H4'	23:DB:1156:A:N7	2.30	0.46
23:DB:999:U:O2'	23:DB:1000:A:H5'	2.15	0.46
23:DB:1028:A:N6	23:DB:1125:G:H2'	2.30	0.46
23:DB:1651:G:H4'	35:DN:39:PRO:HG2	1.97	0.46
23:DB:1846:G:H2'	23:DB:1847:A:O4'	2.15	0.46
23:DB:2261:C:N4	43:DW:10:ARG:NH2	2.64	0.46
25:DC:32:LEU:HD12	25:DC:33:LEU:O	2.15	0.46
25:DC:83:ASP:OD2	25:DC:86:ARG:NE	2.49	0.46
26:DD:204:LYS:CB	26:DD:205:PRO:HD2	2.43	0.46
27:DE:147:LEU:HB2	27:DE:183:PHE:CD1	2.51	0.46
28:DF:92:GLY:O	28:DF:95:MET:HG2	2.16	0.46
28:DF:98:PHE:HA	28:DF:101:ARG:NE	2.29	0.46
28:DF:100:GLU:O	28:DF:102:LEU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:75:VAL:O	29:DG:79:THR:HG22	2.16	0.46
29:DG:148:ARG:HA	29:DG:161:VAL:HG13	1.98	0.46
31:DJ:34:ARG:CD	31:DJ:39:LYS:HD3	2.26	0.46
35:DN:38:LEU:O	35:DN:41:ALA:HB3	2.16	0.46
36:DO:55:GLU:O	36:DO:56:LYS:C	2.54	0.46
37:DP:1:SER:O	37:DP:2:ASN:C	2.54	0.46
37:DP:38:ARG:HH11	37:DP:39:LEU:N	2.13	0.46
38:DQ:88:GLU:HA	39:DR:53:PHE:HB3	1.96	0.46
1:AA:284:C:H2'	1:AA:285:C:H6	1.81	0.46
1:AA:662:U:O2'	1:AA:836:G:H5''	2.15	0.46
1:AA:844:G:H21	1:AA:845:A:H62	1.61	0.46
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.81	0.46
1:AA:1367:C:O2'	1:AA:1368:A:H5'	2.14	0.46
1:AA:1432:G:H8	1:AA:1432:G:OP2	1.97	0.46
2:AC:8:GLY:HA2	2:AC:11:LEU:CG	2.41	0.46
3:AD:1:ALA:O	3:AD:67:LEU:HD21	2.16	0.46
3:AD:117:VAL:HG12	3:AD:130:ASN:CA	2.45	0.46
5:AF:42:TRP:CZ2	5:AF:61:LEU:HD23	2.51	0.46
7:AH:31:LEU:O	7:AH:35:ILE:HG13	2.15	0.46
9:AJ:80:THR:HG22	9:AJ:81:GLU:H	1.81	0.46
12:AM:3:ILE:HA	12:AM:56:ARG:HG2	1.98	0.46
13:AN:10:VAL:HG12	13:AN:11:LYS:NZ	2.31	0.46
15:AP:7:ALA:HB1	15:AP:29:ASN:CB	2.45	0.46
22:BA:26:C:H2'	22:BA:27:C:C6	2.50	0.46
22:BA:100:G:H5''	23:BB:915:C:O2'	2.15	0.46
23:BB:215:G:H4'	23:BB:216:A:OP1	2.16	0.46
23:BB:341:C:O2'	23:BB:342:A:H5'	2.16	0.46
23:BB:442:G:N2	27:BE:46:GLN:HE21	2.10	0.46
23:BB:622:G:H2'	23:BB:623:C:C6	2.50	0.46
23:BB:834:G:H4'	33:BL:59:ARG:HH22	1.80	0.46
23:BB:1592:C:H2'	23:BB:1593:A:H8	1.80	0.46
23:BB:1704:C:O2'	23:BB:1705:A:H5'	2.16	0.46
23:BB:2645:G:H3'	23:BB:2646:C:C5'	2.42	0.46
23:BB:2650:U:H2'	23:BB:2651:C:H6	1.81	0.46
23:BB:2752:C:H2'	23:BB:2753:A:O4'	2.15	0.46
23:BB:2788:C:H2'	23:BB:2789:C:C6	2.50	0.46
23:BB:2868:A:H2'	23:BB:2869:G:C8	2.50	0.46
23:BB:2896:C:H2'	23:BB:2897:U:C6	2.50	0.46
26:BD:170:VAL:CG2	26:BD:194:PRO:HG2	2.44	0.46
27:BE:147:LEU:HB3	27:BE:183:PHE:CD2	2.50	0.46
28:BF:87:LYS:O	28:BF:88:VAL:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:33:ALA:HB3	32:BK:39:ILE:HD11	1.96	0.46
32:BK:108:ARG:HH21	37:BP:36:LYS:CB	2.29	0.46
33:BL:78:ARG:CZ	33:BL:110:VAL:HG11	2.46	0.46
33:BL:117:THR:HG21	33:BL:120:VAL:HG11	1.97	0.46
33:BL:117:THR:C	33:BL:118:THR:HG22	2.36	0.46
34:BM:67:VAL:O	34:BM:67:VAL:HG13	2.15	0.46
34:BM:96:ILE:HD13	34:BM:97:GLN:N	2.31	0.46
35:BN:114:GLU:O	35:BN:115:LEU:HB3	2.15	0.46
37:BP:84:SER:O	37:BP:85:VAL:C	2.53	0.46
42:BU:25:LYS:HA	42:BU:35:VAL:N	2.31	0.46
46:BZ:65:ASN:O	46:BZ:69:SER:HB2	2.16	0.46
47:B0:11:LYS:O	47:B0:12:ARG:HB3	2.15	0.46
49:B2:42:LEU:HG	49:B2:43:THR:N	2.31	0.46
50:B3:48:MET:SD	50:B3:51:LYS:HE3	2.55	0.46
1:CA:538:G:H2'	1:CA:539:A:C8	2.51	0.46
1:CA:1030:U:H4'	1:CA:1031:C:OP2	2.16	0.46
1:CA:1039:G:H2'	1:CA:1040:U:C6	2.51	0.46
1:CA:1271:A:H5'	1:CA:1314:C:OP1	2.15	0.46
1:CA:1275:A:H2'	1:CA:1276:G:O4'	2.16	0.46
1:CA:1302:C:H4'	1:CA:1303:C:OP1	2.14	0.46
1:CA:1312:G:O6	18:CS:1:PRO:HA	2.15	0.46
3:CD:93:LEU:HA	3:CD:96:ARG:HG3	1.98	0.46
4:CE:109:ALA:HB3	4:CE:135:VAL:HG11	1.96	0.46
5:CF:18:VAL:N	5:CF:19:PRO:HD2	2.30	0.46
6:CG:55:LYS:HG3	6:CG:56:SER:H	1.81	0.46
8:CI:56:MET:O	8:CI:58:GLU:HG2	2.15	0.46
12:CM:3:ILE:O	12:CM:56:ARG:HD3	2.15	0.46
12:CM:95:PRO:HD3	12:CM:108:ARG:HG2	1.96	0.46
13:CN:9:GLU:OE2	13:CN:60:ARG:HB3	2.15	0.46
13:CN:21:ALA:N	13:CN:24:ALA:HB2	2.30	0.46
23:DB:144:A:C2	41:DT:3:ARG:NH2	2.84	0.46
23:DB:358:U:H2'	23:DB:359:G:H8	1.78	0.46
23:DB:491:G:C2	23:DB:492:A:H1'	2.51	0.46
23:DB:663:G:OP1	33:DL:27:LEU:HD13	2.16	0.46
23:DB:1018:U:O2'	23:DB:1019:U:H5'	2.15	0.46
23:DB:1300:G:H5'	23:DB:1301:A:N3	2.30	0.46
23:DB:1351:C:H4'	23:DB:1572:A:O4'	2.16	0.46
23:DB:2259:U:O4'	23:DB:2427:C:H2'	2.15	0.46
23:DB:2291:U:H2'	23:DB:2292:U:H6	1.77	0.46
23:DB:2383:G:N7	50:D3:35:LYS:HD3	2.31	0.46
28:DF:50:ASP:C	28:DF:52:ALA:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:4:ALA:O	29:DG:5:LYS:HB2	2.15	0.46
29:DG:36:LEU:HB3	29:DG:40:VAL:HG21	1.97	0.46
31:DJ:62:VAL:HG11	31:DJ:101:ILE:HD11	1.98	0.46
31:DJ:130:HIS:O	31:DJ:132:HIS:N	2.49	0.46
33:DL:59:ARG:O	33:DL:60:ARG:HD2	2.16	0.46
33:DL:122:VAL:CG1	33:DL:123:ARG:N	2.79	0.46
34:DM:92:TRP:HD1	34:DM:93:VAL:N	2.14	0.46
35:DN:8:ARG:HA	35:DN:43:GLU:OE2	2.16	0.46
37:DP:86:LYS:HZ2	37:DP:88:ARG:HD3	1.81	0.46
42:DU:4:ILE:HG13	42:DU:25:LYS:HG2	1.97	0.46
46:DZ:48:GLN:HE21	46:DZ:49:ARG:H	1.63	0.46
47:D0:27:LEU:O	47:D0:38:LEU:HD22	2.16	0.46
52:DI:72:THR:OG1	52:DI:73:PRO:HD2	2.15	0.46
1:AA:235:C:H2'	1:AA:236:A:H8	1.78	0.46
1:AA:244:U:O4	1:AA:906:A:H1'	2.16	0.46
1:AA:1085:U:H3'	1:AA:1086:U:H5	1.80	0.46
1:AA:1180:A:P	8:AI:98:ARG:HH22	2.38	0.46
2:AC:126:ARG:HH22	2:AC:190:THR:CG2	2.28	0.46
2:AC:146:LYS:HG3	2:AC:202:PHE:CD2	2.51	0.46
3:AD:99:ASN:ND2	3:AD:110:ARG:NE	2.64	0.46
4:AE:108:GLY:N	4:AE:110:MET:SD	2.89	0.46
6:AG:35:LYS:O	6:AG:39:GLU:HG2	2.16	0.46
9:AJ:67:ILE:CG1	13:AN:95:LEU:HD13	2.45	0.46
10:AK:12:ARG:HD2	10:AK:12:ARG:N	2.30	0.46
10:AK:52:ARG:HD2	10:AK:53:GLY:H	1.80	0.46
12:AM:2:ARG:HH22	28:BF:142:TYR:HB3	1.81	0.46
20:AB:158:ASP:O	20:AB:181:PRO:HD2	2.15	0.46
22:BA:25:U:H5''	22:BA:26:C:OP1	2.15	0.46
23:BB:198:C:O2'	23:BB:199:A:H5''	2.16	0.46
23:BB:533:G:H2'	23:BB:534:U:C6	2.51	0.46
23:BB:812:C:H2'	23:BB:813:U:H6	1.81	0.46
23:BB:908:C:O2'	23:BB:909:A:H5'	2.16	0.46
23:BB:968:C:H4'	45:BY:16:LEU:HD23	1.98	0.46
23:BB:1064:C:O2'	23:BB:1065:U:H5'	2.16	0.46
23:BB:1480:C:H2'	23:BB:1481:U:C6	2.50	0.46
23:BB:1568:G:H5'	25:BC:60:ALA:HB3	1.97	0.46
23:BB:1917:U:C2'	23:BB:1918:A:H5'	2.45	0.46
24:BV:77:VAL:HG21	24:BV:79:ARG:NH2	2.27	0.46
24:BV:82:TYR:N	24:BV:82:TYR:CD2	2.83	0.46
25:BC:53:ILE:CD1	25:BC:218:THR:HG23	2.45	0.46
25:BC:70:LYS:HE3	25:BC:99:GLU:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:251:THR:O	25:BC:252:LYS:HB2	2.16	0.46
27:BE:25:GLU:O	27:BE:26:ALA:C	2.53	0.46
27:BE:111:GLU:O	27:BE:113:VAL:HG12	2.14	0.46
27:BE:134:LEU:HD22	27:BE:138:LEU:HG	1.96	0.46
27:BE:178:VAL:HG23	27:BE:179:SER:N	2.31	0.46
28:BF:3:LEU:HA	28:BF:6:TYR:CD1	2.51	0.46
29:BG:40:VAL:HG22	29:BG:53:PRO:HA	1.98	0.46
29:BG:71:LEU:HA	29:BG:74:MET:HG3	1.98	0.46
30:BH:29:PHE:N	30:BH:32:PRO:CG	2.79	0.46
30:BH:103:VAL:HG21	30:BH:110:VAL:HG13	1.97	0.46
34:BM:3:GLN:HE22	34:BM:5:LYS:HB2	1.81	0.46
34:BM:24:THR:HG23	34:BM:25:ASP:OD1	2.16	0.46
34:BM:124:LEU:N	34:BM:124:LEU:HD23	2.31	0.46
37:BP:13:LYS:CE	37:BP:77:SER:HB3	2.46	0.46
38:BQ:78:PHE:CE1	38:BQ:82:LEU:HD21	2.51	0.46
40:BS:29:VAL:HG21	40:BS:70:LYS:N	2.30	0.46
41:BT:8:LEU:HD23	41:BT:8:LEU:N	2.27	0.46
41:BT:64:LYS:CB	41:BT:77:ARG:HD3	2.39	0.46
42:BU:10:VAL:HG21	42:BU:25:LYS:NZ	2.31	0.46
42:BU:43:LYS:HZ3	42:BU:45:GLN:N	2.14	0.46
43:BW:48:ALA:HA	43:BW:54:ARG:HA	1.98	0.46
46:BZ:30:HIS:O	46:BZ:48:GLN:NE2	2.49	0.46
1:CA:659:U:H2'	1:CA:660:C:C6	2.51	0.46
2:CC:61:LYS:O	2:CC:96:VAL:HB	2.15	0.46
4:CE:67:ARG:HB2	4:CE:67:ARG:NH1	2.30	0.46
6:CG:24:LYS:HA	6:CG:27:ASN:HD22	1.81	0.46
8:CI:48:ARG:HA	8:CI:51:LEU:HD12	1.97	0.46
11:CL:100:ALA:O	11:CL:101:LEU:C	2.54	0.46
23:DB:538:A:N6	23:DB:555:G:O2'	2.49	0.46
23:DB:587:C:O5'	23:DB:587:C:H6	1.97	0.46
23:DB:780:G:H21	23:DB:783:A:H62	1.63	0.46
23:DB:962:G:H21	34:DM:81:ARG:HD3	1.81	0.46
23:DB:1108:U:H2'	23:DB:1109:C:H6	1.81	0.46
23:DB:1275:A:N3	23:DB:1275:A:C3'	2.75	0.46
23:DB:1433:A:H2'	23:DB:1434:A:O4'	2.15	0.46
23:DB:2382:G:H1'	50:D3:38:LYS:CE	2.46	0.46
23:DB:2636:C:O5'	26:DD:80:TRP:NE1	2.39	0.46
23:DB:2653:U:H5	23:DB:2654:A:HO2'	1.64	0.46
23:DB:2899:A:H2'	23:DB:2900:A:H8	1.79	0.46
24:DV:28:ALA:HB1	24:DV:89:ILE:O	2.16	0.46
25:DC:64:VAL:HB	25:DC:65:ASP:H	1.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:115:GLN:HG2	27:DE:116:ASP:H	1.81	0.46
28:DF:100:GLU:C	28:DF:102:LEU:N	2.68	0.46
28:DF:135:ILE:O	28:DF:137:PHE:N	2.45	0.46
32:DK:17:ARG:HB2	32:DK:45:GLU:HB2	1.97	0.46
32:DK:120:PRO:O	32:DK:121:GLU:HB2	2.16	0.46
34:DM:2:LEU:O	34:DM:3:GLN:HG2	2.16	0.46
35:DN:56:LYS:HD3	35:DN:57:THR:OG1	2.15	0.46
36:DO:25:ARG:NE	36:DO:94:ARG:HH12	2.11	0.46
38:DQ:88:GLU:HB3	39:DR:53:PHE:HD1	1.81	0.46
41:DT:48:GLN:HG3	41:DT:49:LYS:N	2.30	0.46
41:DT:68:LYS:HB2	41:DT:68:LYS:HZ2	1.81	0.46
42:DU:9:GLU:OE1	42:DU:71:ILE:HG13	2.16	0.46
42:DU:11:ILE:HB	42:DU:69:VAL:CG2	2.44	0.46
43:DW:73:PRO:C	43:DW:74:LYS:HD2	2.36	0.46
44:DX:31:GLN:O	44:DX:32:ALA:CB	2.62	0.46
44:DX:31:GLN:HE21	44:DX:31:GLN:CA	2.28	0.46
50:D3:4:LYS:CG	50:D3:61:LEU:HB2	2.45	0.46
1:AA:36:C:HO2'	1:AA:37:U:H5'	1.81	0.46
1:AA:155:A:H2'	1:AA:156:C:O4'	2.16	0.46
1:AA:522:C:H41	11:AL:49:ARG:NH2	2.09	0.46
1:AA:627:G:H2'	1:AA:628:G:C8	2.51	0.46
1:AA:950:U:H2'	1:AA:951:G:H8	1.81	0.46
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.33	0.46
1:AA:1272:G:H2'	1:AA:1273:C:C6	2.50	0.46
1:AA:1446:A:C2'	1:AA:1447:A:H5''	2.46	0.46
3:AD:117:VAL:HG22	3:AD:122:ILE:HG13	1.97	0.46
3:AD:163:GLN:HB2	3:AD:164:ARG:HH12	1.80	0.46
4:AE:89:THR:HG21	4:AE:134:ASN:HD21	1.81	0.46
8:AI:44:ARG:O	8:AI:47:VAL:HG22	2.15	0.46
8:AI:49:GLN:N	8:AI:50:PRO:HD2	2.30	0.46
14:AO:6:ALA:O	14:AO:10:ILE:HG22	2.16	0.46
15:AP:43:ALA:H	15:AP:46:LYS:HD2	1.81	0.46
20:AB:116:LEU:CD1	20:AB:139:GLU:HB3	2.44	0.46
20:AB:204:ASP:CG	20:AB:205:ALA:N	2.63	0.46
22:BA:63:C:H2'	22:BA:64:G:C8	2.49	0.46
23:BB:198:C:H2'	23:BB:199:A:H5''	1.97	0.46
23:BB:199:A:N6	23:BB:2433:A:H2'	2.31	0.46
23:BB:702:U:H2'	23:BB:703:U:C6	2.51	0.46
23:BB:959:A:O2'	23:BB:960:A:H5'	2.15	0.46
23:BB:1054:A:H2'	23:BB:1055:G:C8	2.50	0.46
23:BB:1081:U:O2'	23:BB:1082:U:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1256:G:H21	27:BE:77:ILE:CG2	2.29	0.46
23:BB:1745:A:H2'	23:BB:1746:A:C8	2.51	0.46
23:BB:2568:U:H2'	23:BB:2569:G:O4'	2.15	0.46
23:BB:2747:G:H2'	23:BB:2748:A:C8	2.51	0.46
23:BB:2771:C:H2'	23:BB:2772:C:H6	1.81	0.46
23:BB:2880:C:O2	35:BN:93:GLY:HA3	2.15	0.46
24:BV:80:HIS:CD2	24:BV:82:TYR:H	2.23	0.46
25:BC:81:GLU:O	25:BC:90:ILE:HG22	2.15	0.46
25:BC:107:LYS:HB2	25:BC:194:VAL:CG1	2.27	0.46
25:BC:242:HIS:N	25:BC:243:PRO:HD3	2.30	0.46
28:BF:103:ILE:HA	28:BF:107:VAL:HG21	1.98	0.46
29:BG:89:VAL:HG21	29:BG:162:ARG:NE	2.30	0.46
31:BJ:122:LEU:HD12	31:BJ:123:LYS:N	2.30	0.46
31:BJ:124:VAL:HG12	31:BJ:125:TYR:O	2.16	0.46
34:BM:73:ILE:HD11	34:BM:92:TRP:CB	2.46	0.46
34:BM:73:ILE:HD13	34:BM:90:GLU:OE2	2.15	0.46
37:BP:62:LYS:HE2	37:BP:74:GLN:NE2	2.30	0.46
37:BP:77:SER:H	37:BP:78:PRO:HD2	1.81	0.46
39:BR:31:GLU:O	39:BR:32:THR:HB	2.14	0.46
41:BT:20:ALA:C	41:BT:22:THR:H	2.19	0.46
42:BU:35:VAL:C	42:BU:36:GLU:HG2	2.35	0.46
43:BW:35:ILE:CG2	43:BW:36:ILE:H	2.15	0.46
47:B0:42:ILE:HD13	47:B0:47:TYR:CE1	2.50	0.46
48:B1:31:GLU:CG	48:B1:32:LYS:H	2.20	0.46
50:B3:27:ASN:OD1	50:B3:28:LEU:N	2.49	0.46
1:CA:212:G:H2'	1:CA:213:G:C8	2.46	0.46
1:CA:299:G:H2'	1:CA:300:A:C8	2.50	0.46
1:CA:649:A:H2'	1:CA:650:G:O4'	2.15	0.46
1:CA:1057:G:H5''	2:CC:153:SER:HB2	1.97	0.46
1:CA:1295:U:H2'	1:CA:1296:C:O4'	2.16	0.46
2:CC:58:ARG:HA	2:CC:63:ILE:HA	1.97	0.46
2:CC:166:TRP:HE1	2:CC:168:ARG:CB	2.25	0.46
6:CG:24:LYS:O	6:CG:28:ILE:HG12	2.16	0.46
6:CG:98:LEU:HA	6:CG:101:ARG:HB3	1.98	0.46
11:CL:79:ILE:C	11:CL:101:LEU:HD12	2.36	0.46
11:CL:111:GLN:HB3	11:CL:112:ALA:H	1.64	0.46
13:CN:30:ILE:HB	13:CN:44:VAL:CG2	2.46	0.46
23:DB:131:A:H2'	23:DB:132:G:C8	2.50	0.46
23:DB:297:G:H5''	42:DU:92:VAL:CG1	2.44	0.46
23:DB:439:A:O2'	23:DB:440:C:H5'	2.16	0.46
23:DB:580:U:O2'	23:DB:581:C:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:622:G:H2'	23:DB:623:C:H6	1.81	0.46
23:DB:877:A:H2	23:DB:900:A:N7	2.13	0.46
23:DB:1062:G:H2'	23:DB:1063:G:H8	1.81	0.46
23:DB:1205:A:N7	27:DE:164:LEU:HD11	2.31	0.46
23:DB:1278:C:H2'	23:DB:1279:G:H8	1.81	0.46
23:DB:1322:A:C2'	23:DB:1323:C:H5'	2.46	0.46
23:DB:1381:G:O2'	23:DB:1382:G:H5'	2.16	0.46
23:DB:1947:C:O2'	23:DB:1948:G:H5'	2.16	0.46
23:DB:2208:C:H2'	23:DB:2209:G:C8	2.51	0.46
23:DB:2722:G:O2'	35:DN:4:ARG:CZ	2.64	0.46
23:DB:2839:G:H4'	35:DN:49:GLU:CG	2.45	0.46
25:DC:104:LEU:O	25:DC:106:PRO:HD3	2.16	0.46
25:DC:107:LYS:HG2	25:DC:194:VAL:CG1	2.46	0.46
25:DC:229:HIS:CE1	25:DC:231:HIS:NE2	2.83	0.46
26:DD:33:ARG:CZ	26:DD:86:GLU:HG2	2.46	0.46
26:DD:90:PHE:H	26:DD:92:VAL:CG2	2.28	0.46
27:DE:17:THR:HG23	27:DE:18:THR:N	2.31	0.46
28:DF:69:ALA:HB3	28:DF:81:GLY:N	2.26	0.46
29:DG:16:VAL:HG12	29:DG:17:LYS:N	2.31	0.46
32:DK:13:ASN:ND2	32:DK:98:ARG:HG2	2.30	0.46
32:DK:70:ARG:HA	32:DK:75:SER:O	2.15	0.46
33:DL:90:VAL:HG22	33:DL:92:LEU:HD13	1.97	0.46
34:DM:43:ALA:HB3	34:DM:91:TYR:CG	2.51	0.46
36:DO:9:ARG:O	36:DO:12:THR:HG22	2.15	0.46
36:DO:102:ARG:O	36:DO:105:ALA:HB3	2.15	0.46
37:DP:87:ARG:HH11	37:DP:87:ARG:HG2	1.80	0.46
40:DS:21:ALA:O	40:DS:74:ILE:HD11	2.16	0.46
42:DU:3:LYS:H	42:DU:27:VAL:HG21	1.81	0.46
42:DU:43:LYS:CB	42:DU:43:LYS:HZ2	2.29	0.46
43:DW:28:GLU:H	43:DW:61:LYS:HB2	1.81	0.46
43:DW:56:HIS:HA	43:DW:77:LYS:CE	2.39	0.46
48:D1:50:GLU:HG2	48:D1:51:ALA:N	2.31	0.46
52:DI:78:LEU:HD23	52:DI:81:LYS:HE2	1.98	0.46
52:DI:109:ALA:CA	52:DI:128:ILE:HD12	2.46	0.46
1:AA:114:U:H2'	1:AA:115:G:C8	2.50	0.46
1:AA:123:U:OP1	1:AA:312:C:H5'	2.16	0.46
1:AA:489:C:H2'	1:AA:490:C:C6	2.51	0.46
1:AA:601:G:H2'	1:AA:602:A:C8	2.51	0.46
1:AA:844:G:N7	1:AA:846:G:N3	2.63	0.46
1:AA:1256:A:O4'	1:AA:1278:G:N2	2.49	0.46
1:AA:1425:U:H2'	1:AA:1426:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:112:ALA:HB2	2:AC:182:ASP:O	2.16	0.46
2:AC:131:ARG:HH22	2:AC:135:ARG:NH1	2.14	0.46
3:AD:64:TYR:CD1	3:AD:64:TYR:N	2.84	0.46
3:AD:123:MET:HG3	3:AD:127:ARG:C	2.36	0.46
5:AF:5:GLU:HA	5:AF:63:ASN:HA	1.97	0.46
9:AJ:80:THR:H	9:AJ:84:VAL:CG1	2.29	0.46
15:AP:4:ILE:HA	15:AP:20:VAL:O	2.15	0.46
15:AP:26:ASN:ND2	15:AP:31:ARG:HB3	2.31	0.46
19:AT:23:ARG:HB2	19:AT:65:LEU:HD11	1.98	0.46
20:AB:79:VAL:HG13	20:AB:90:PHE:HD1	1.79	0.46
21:AU:40:PRO:HG2	21:AU:41:THR:N	2.27	0.46
23:BB:24:G:O2'	23:BB:25:U:H5'	2.16	0.46
23:BB:137:U:H2'	23:BB:138:U:O4'	2.15	0.46
23:BB:285:G:O2'	23:BB:286:U:H5'	2.15	0.46
23:BB:550:C:H2'	23:BB:550:C:O2	2.16	0.46
23:BB:711:G:H2'	23:BB:712:G:O4'	2.15	0.46
23:BB:872:U:H1'	34:BM:68:PHE:CZ	2.51	0.46
23:BB:993:G:O2'	23:BB:994:C:H5'	2.15	0.46
23:BB:1173:U:O2	23:BB:1177:G:C2	2.69	0.46
23:BB:1710:G:H2'	23:BB:1711:A:H8	1.81	0.46
23:BB:1739:A:H2'	23:BB:1740:G:O4'	2.16	0.46
23:BB:1813:G:N2	25:BC:51:ARG:HG2	2.27	0.46
23:BB:1853:A:N1	23:BB:2087:G:H1'	2.30	0.46
23:BB:1979:U:C2'	23:BB:1980:G:H5'	2.46	0.46
23:BB:2028:U:H2'	23:BB:2029:G:C8	2.51	0.46
23:BB:2063:C:O2	23:BB:2450:A:N1	2.49	0.46
23:BB:2105:U:H2'	23:BB:2106:U:C6	2.51	0.46
23:BB:2673:G:H2'	23:BB:2674:G:H8	1.81	0.46
24:BV:44:HIS:O	24:BV:46:LYS:N	2.49	0.46
25:BC:28:PRO:HD2	25:BC:79:ARG:HH22	1.81	0.46
25:BC:53:ILE:HG21	25:BC:218:THR:CG2	2.45	0.46
25:BC:229:HIS:ND1	25:BC:230:PRO:CD	2.79	0.46
26:BD:106:LYS:HZ3	26:BD:208:LYS:HD3	1.77	0.46
29:BG:17:LYS:HD2	29:BG:24:THR:HG22	1.98	0.46
29:BG:25:ILE:HG21	29:BG:74:MET:HB3	1.98	0.46
30:BH:130:VAL:HG21	30:BH:144:VAL:HG23	1.98	0.46
32:BK:119:ALA:N	32:BK:120:PRO:HD3	2.31	0.46
35:BN:113:ILE:CG2	35:BN:114:GLU:N	2.79	0.46
36:BO:17:LYS:HE3	36:BO:43:ASN:CB	2.44	0.46
37:BP:24:THR:O	37:BP:26:GLU:N	2.49	0.46
38:BQ:47:ARG:NE	38:BQ:47:ARG:HA	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:92:LYS:O	38:BQ:93:ILE:HG22	2.16	0.46
39:BR:14:VAL:HG12	39:BR:15:SER:N	2.31	0.46
40:BS:103:ILE:HG23	40:BS:104:THR:H	1.80	0.46
41:BT:85:VAL:CG2	41:BT:85:VAL:O	2.62	0.46
45:BY:15:ARG:N	45:BY:15:ARG:NE	2.58	0.46
46:BZ:59:ARG:HH21	46:BZ:62:LYS:HZ2	1.61	0.46
1:CA:327:A:H1'	1:CA:329:A:O4'	2.15	0.46
1:CA:1095:U:H2'	1:CA:1096:C:H6	1.81	0.46
1:CA:1119:C:H2'	1:CA:1120:C:C6	2.51	0.46
1:CA:1328:C:H5''	12:CM:27:THR:HG21	1.97	0.46
1:CA:1367:C:H5''	8:CI:115:VAL:CG2	2.39	0.46
2:CC:129:PHE:CD2	2:CC:129:PHE:C	2.89	0.46
3:CD:18:LEU:HD11	3:CD:59:LYS:HG3	1.97	0.46
3:CD:75:TYR:HA	3:CD:89:LEU:HD13	1.98	0.46
3:CD:96:ARG:O	3:CD:99:ASN:HB3	2.16	0.46
4:CE:111:ARG:HH11	4:CE:111:ARG:HG2	1.80	0.46
6:CG:144:ALA:O	6:CG:146:ALA:N	2.46	0.46
7:CH:104:SER:O	7:CH:122:GLY:HA3	2.15	0.46
8:CI:87:MET:HB2	8:CI:94:ARG:HH21	1.80	0.46
8:CI:115:VAL:HG21	9:CJ:62:ARG:HG3	1.98	0.46
12:CM:63:VAL:O	12:CM:68:LEU:HD12	2.16	0.46
15:CP:44:SER:C	15:CP:46:LYS:N	2.68	0.46
18:CS:50:VAL:HG21	18:CS:70:LEU:HG	1.98	0.46
20:CB:209:VAL:HG23	20:CB:210:THR:H	1.81	0.46
21:CU:8:ASN:HB2	21:CU:9:GLU:OE2	2.15	0.46
21:CU:17:ARG:H	21:CU:17:ARG:CD	2.19	0.46
22:DA:67:G:O2'	22:DA:68:C:H5'	2.16	0.46
23:DB:312:G:H2'	23:DB:313:G:H8	1.81	0.46
23:DB:361:G:H2'	23:DB:362:A:H8	1.80	0.46
23:DB:587:C:H5''	33:DL:29:LYS:NZ	2.30	0.46
23:DB:931:U:H3	23:DB:1166:G:N2	2.14	0.46
23:DB:1131:G:N7	23:DB:2025:C:H4'	2.31	0.46
23:DB:1341:G:H1'	41:DT:59:ASN:HB3	1.97	0.46
23:DB:1533:C:O2'	23:DB:1534:U:H5'	2.15	0.46
23:DB:2563:U:H4'	32:DK:27:GLY:HA2	1.97	0.46
25:DC:4:LYS:HG3	25:DC:5:CYS:SG	2.56	0.46
25:DC:22:GLU:CD	25:DC:202:ARG:HE	2.19	0.46
25:DC:192:GLY:O	25:DC:194:VAL:HG22	2.15	0.46
26:DD:18:ASP:C	26:DD:20:VAL:N	2.69	0.46
26:DD:124:ARG:HH11	26:DD:124:ARG:HB3	1.80	0.46
29:DG:90:GLY:CA	29:DG:159:LYS:HG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:96:ALA:O	29:DG:102:ILE:HG13	2.15	0.46
30:DH:99:ILE:O	30:DH:103:VAL:HG12	2.16	0.46
31:DJ:62:VAL:O	31:DJ:69:ARG:NH2	2.49	0.46
32:DK:2:ILE:HA	32:DK:33:ALA:H	1.81	0.46
32:DK:6:THR:O	32:DK:20:MET:HG3	2.16	0.46
35:DN:29:VAL:HG11	35:DN:79:LEU:HD21	1.98	0.46
36:DO:26:LEU:HD13	36:DO:92:PHE:O	2.16	0.46
38:DQ:60:TRP:CZ3	38:DQ:93:ILE:HG22	2.51	0.46
40:DS:9:HIS:O	40:DS:10:ALA:CB	2.63	0.46
40:DS:42:LYS:HE2	40:DS:45:VAL:HG11	1.98	0.46
41:DT:68:LYS:HG3	41:DT:74:ILE:O	2.15	0.46
41:DT:88:LYS:H	41:DT:88:LYS:HG3	1.49	0.46
42:DU:51:LEU:HG	42:DU:53:GLN:HB3	1.98	0.46
43:DW:60:ALA:CB	43:DW:80:SER:HA	2.37	0.46
49:D2:21:ARG:HG3	49:D2:31:LEU:HD11	1.98	0.46
50:D3:28:LEU:HD13	50:D3:33:THR:HG21	1.98	0.46
50:D3:33:THR:CG2	50:D3:40:LYS:HD2	2.45	0.46
52:DI:129:GLU:O	52:DI:133:ARG:HG3	2.16	0.46
1:AA:22:G:O2'	1:AA:23:C:H5'	2.16	0.46
1:AA:212:G:H2'	1:AA:213:G:C8	2.47	0.46
1:AA:325:A:H2'	1:AA:326:G:O4'	2.16	0.46
1:AA:664:G:H5''	17:AR:52:ARG:CZ	2.46	0.46
1:AA:751:U:H4'	14:AO:23:SER:HA	1.97	0.46
1:AA:778:G:O2'	1:AA:779:C:H5'	2.16	0.46
1:AA:792:A:H1'	1:AA:794:A:N7	2.31	0.46
1:AA:1342:C:H5'	8:AI:127:SER:HA	1.98	0.46
1:AA:1348:U:H2'	1:AA:1349:A:C8	2.51	0.46
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.81	0.46
1:AA:1494:G:H2'	1:AA:1495:U:C6	2.50	0.46
3:AD:32:LYS:HB3	3:AD:35:GLN:HE21	1.81	0.46
4:AE:57:ALA:O	4:AE:60:GLN:HB2	2.16	0.46
9:AJ:33:GLY:HA3	9:AJ:83:THR:OG1	2.16	0.46
9:AJ:57:VAL:HG22	9:AJ:58:ASN:H	1.80	0.46
10:AK:121:ARG:HG3	10:AK:121:ARG:HH11	1.79	0.46
14:AO:78:THR:HA	14:AO:81:ILE:CG1	2.46	0.46
15:AP:40:ASN:HA	15:AP:41:PRO:HD3	1.73	0.46
23:BB:188:G:OP1	46:BZ:11:GLU:HA	2.16	0.46
23:BB:329:G:H1	42:BU:16:LYS:NZ	2.12	0.46
23:BB:572:A:H5''	23:BB:573:U:OP2	2.15	0.46
23:BB:729:G:H2'	23:BB:1775:U:H1'	1.98	0.46
23:BB:954:G:P	34:BM:17:ASN:HB2	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2489:U:O2'	23:BB:2490:G:H5'	2.16	0.46
23:BB:2811:G:H5'	26:BD:62:LYS:HD2	1.98	0.46
23:BB:2877:G:H2'	23:BB:2878:U:C6	2.51	0.46
25:BC:46:GLY:O	25:BC:47:ARG:CB	2.64	0.46
25:BC:156:SER:O	25:BC:157:ALA:C	2.54	0.46
26:BD:17:GLU:HA	37:BP:80:VAL:HG11	1.97	0.46
27:BE:177:PRO:HA	27:BE:180:LEU:HD12	1.97	0.46
29:BG:90:GLY:HA3	29:BG:93:TYR:CD2	2.51	0.46
30:BH:68:ARG:O	30:BH:72:ILE:HG22	2.15	0.46
31:BJ:19:ASP:C	31:BJ:21:THR:H	2.19	0.46
34:BM:31:PHE:HE2	34:BM:110:GLU:HG2	1.81	0.46
37:BP:59:THR:HG23	37:BP:76:HIS:CE1	2.51	0.46
45:BY:47:ILE:HG23	45:BY:54:VAL:HG11	1.98	0.46
48:B1:9:LYS:N	48:B1:9:LYS:HD2	2.31	0.46
49:B2:13:ASN:OD1	49:B2:18:PHE:HB3	2.16	0.46
49:B2:41:ARG:O	49:B2:42:LEU:HB3	2.14	0.46
50:B3:54:LEU:HD23	50:B3:54:LEU:HA	1.86	0.46
1:CA:26:A:N6	1:CA:558:G:H1'	2.30	0.46
1:CA:230:G:O2'	1:CA:231:U:H5'	2.16	0.46
1:CA:462:G:H3'	1:CA:463:U:H5''	1.96	0.46
1:CA:864:A:H2'	1:CA:865:A:C8	2.51	0.46
1:CA:975:A:C2'	1:CA:976:G:OP2	2.64	0.46
1:CA:1080:A:C4'	4:CE:20:VAL:HG21	2.44	0.46
1:CA:1200:C:C4'	1:CA:1201:A:H5'	2.46	0.46
2:CC:15:LYS:NZ	2:CC:16:PRO:HD2	2.30	0.46
2:CC:120:THR:OG1	2:CC:197:VAL:HG21	2.16	0.46
6:CG:129:ASN:HB3	6:CG:134:VAL:HG21	1.97	0.46
8:CI:112:ARG:O	8:CI:114:LYS:HD2	2.16	0.46
11:CL:85:ARG:HA	11:CL:93:ARG:HA	1.98	0.46
14:CO:49:HIS:O	14:CO:52:ARG:HB3	2.16	0.46
15:CP:21:VAL:O	15:CP:33:ILE:HB	2.15	0.46
18:CS:8:PRO:O	18:CS:9:PHE:HB2	2.14	0.46
19:CT:66:ILE:HG23	19:CT:70:LYS:CG	2.46	0.46
23:DB:126:A:O5'	49:D2:18:PHE:HE1	1.99	0.46
23:DB:817:C:O2'	23:DB:839:U:H5''	2.15	0.46
23:DB:844:A:C2	23:DB:845:A:N1	2.84	0.46
23:DB:856:G:H21	43:DW:22:VAL:HG11	1.80	0.46
23:DB:957:C:O2'	23:DB:958:U:H5''	2.16	0.46
23:DB:1099:G:C5'	52:DI:4:VAL:HB	2.29	0.46
23:DB:1818:U:OP1	25:DC:155:ARG:HG2	2.16	0.46
23:DB:1917:U:C2'	23:DB:1918:A:H5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2090:A:C2'	46:DZ:49:ARG:CZ	2.94	0.46
23:DB:2306:C:H3'	23:DB:2307:G:C5'	2.44	0.46
23:DB:2568:U:H2'	23:DB:2569:G:O4'	2.16	0.46
24:DV:78:GLN:NE2	24:DV:88:HIS:HB3	2.30	0.46
25:DC:33:LEU:HD22	25:DC:34:GLU:H	1.80	0.46
25:DC:47:ARG:HB3	25:DC:48:ILE:H	1.53	0.46
25:DC:89:ASN:HB2	25:DC:105:ALA:HB3	1.97	0.46
26:DD:129:THR:O	26:DD:140:HIS:HA	2.16	0.46
27:DE:58:LYS:HA	27:DE:59:PRO:HD3	1.63	0.46
28:DF:148:VAL:HG12	28:DF:148:VAL:O	2.15	0.46
28:DF:177:ARG:NH2	28:DF:178:LYS:HA	2.31	0.46
30:DH:4:ILE:O	30:DH:5:LEU:HD22	2.16	0.46
30:DH:80:ILE:HD12	30:DH:80:ILE:N	2.30	0.46
31:DJ:81:ILE:CG1	31:DJ:82:GLY:N	2.60	0.46
31:DJ:122:LEU:O	31:DJ:123:LYS:HB2	2.16	0.46
32:DK:11:ALA:O	32:DK:100:PHE:N	2.46	0.46
33:DL:4:ASN:O	33:DL:5:THR:HG22	2.15	0.46
33:DL:19:LEU:O	33:DL:21:ARG:N	2.45	0.46
33:DL:57:LEU:HB3	50:D3:54:LEU:HD22	1.97	0.46
34:DM:57:VAL:O	34:DM:58:LYS:HG2	2.16	0.46
34:DM:86:LYS:HE3	34:DM:87:GLY:N	2.31	0.46
50:D3:36:ALA:O	50:D3:38:LYS:N	2.47	0.46
1:AA:382:A:H2'	1:AA:383:A:C8	2.51	0.45
1:AA:512:U:H2'	1:AA:513:C:C6	2.51	0.45
1:AA:812:G:OP1	1:AA:812:G:H4'	2.16	0.45
1:AA:947:G:H2'	1:AA:948:C:C6	2.51	0.45
1:AA:1171:A:O2'	1:AA:1172:C:H5'	2.15	0.45
1:AA:1252:A:H2'	1:AA:1253:G:H5''	1.98	0.45
2:AC:33:ASP:O	2:AC:37:LYS:HE2	2.16	0.45
2:AC:72:PRO:HG2	2:AC:73:GLY:H	1.81	0.45
3:AD:81:LEU:HD11	3:AD:92:LEU:HD21	1.97	0.45
6:AG:14:ASP:CG	6:AG:15:PRO:HD2	2.35	0.45
6:AG:132:THR:HA	6:AG:135:LYS:HB3	1.97	0.45
11:AL:98:ARG:CB	11:AL:116:TYR:HA	2.46	0.45
12:AM:75:SER:O	12:AM:78:ARG:HB3	2.16	0.45
13:AN:20:PHE:CG	13:AN:24:ALA:HB2	2.51	0.45
14:AO:80:LEU:HD23	14:AO:80:LEU:C	2.36	0.45
18:AS:61:VAL:HA	18:AS:65:MET:SD	2.56	0.45
22:BA:52:A:H3'	22:BA:53:A:H8	1.80	0.45
23:BB:154:U:H2'	23:BB:155:A:H8	1.81	0.45
23:BB:621:A:H2'	23:BB:622:G:O4'	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:850:U:H2'	23:BB:851:C:C6	2.51	0.45
23:BB:995:C:O2	31:BJ:3:THR:HG23	2.16	0.45
23:BB:1203:U:O2'	33:BL:14:LYS:HE2	2.16	0.45
23:BB:1260:A:O2'	23:BB:1261:C:H5'	2.15	0.45
23:BB:1394:U:O2'	23:BB:1395:A:H5'	2.16	0.45
23:BB:1804:C:O2'	23:BB:1805:A:H5'	2.15	0.45
23:BB:2227:A:O3'	25:BC:258:SER:HA	2.16	0.45
23:BB:2261:C:O2'	23:BB:2262:U:H5'	2.15	0.45
23:BB:2308:G:H5'	23:BB:2309:A:C5'	2.44	0.45
25:BC:250:GLN:O	25:BC:251:THR:HB	2.15	0.45
26:BD:138:LEU:O	26:BD:142:VAL:HG22	2.16	0.45
26:BD:141:ARG:HH11	26:BD:141:ARG:CG	2.29	0.45
27:BE:113:VAL:HG13	27:BE:114:ARG:H	1.82	0.45
27:BE:117:ARG:HA	27:BE:188:MET:SD	2.56	0.45
29:BG:23:ILE:HG13	29:BG:24:THR:N	2.30	0.45
29:BG:29:ASN:N	29:BG:29:ASN:ND2	2.61	0.45
30:BH:128:HIS:CG	30:BH:144:VAL:HB	2.51	0.45
31:BJ:41:LYS:HG2	31:BJ:42:ALA:N	2.30	0.45
31:BJ:50:THR:OG1	31:BJ:51:GLY:N	2.47	0.45
31:BJ:85:LYS:HD3	31:BJ:85:LYS:HA	1.78	0.45
33:BL:81:ASP:O	33:BL:82:LEU:C	2.54	0.45
35:BN:98:LEU:HB2	35:BN:112:TYR:HE1	1.81	0.45
37:BP:13:LYS:NZ	37:BP:15:ASP:HB2	2.31	0.45
38:BQ:47:ARG:HH22	38:BQ:50:ARG:CG	2.29	0.45
42:BU:10:VAL:O	42:BU:11:ILE:HD13	2.15	0.45
52:BI:92:PRO:O	52:BI:93:ASN:HB2	2.16	0.45
1:CA:8:A:C5	3:CD:205:LYS:HA	2.51	0.45
1:CA:432:A:C2'	1:CA:433:G:H5'	2.46	0.45
1:CA:815:A:N6	1:CA:1509:C:H1'	2.29	0.45
2:CC:128:MET:SD	2:CC:132:ALA:N	2.89	0.45
5:CF:59:TYR:N	5:CF:59:TYR:CD1	2.85	0.45
6:CG:65:LEU:CD2	6:CG:69:ARG:HH21	2.29	0.45
6:CG:125:ASP:O	6:CG:129:ASN:ND2	2.49	0.45
7:CH:82:LEU:HD21	11:CL:3:VAL:HG21	1.97	0.45
18:CS:63:ASP:HB3	28:DF:114:ARG:NH2	2.20	0.45
20:CB:101:THR:HG22	20:CB:174:GLU:CD	2.36	0.45
23:DB:40:U:H2'	23:DB:41:C:C6	2.51	0.45
23:DB:279:A:C2	23:DB:280:U:H1'	2.51	0.45
23:DB:771:G:O2'	23:DB:772:C:H5'	2.16	0.45
23:DB:848:C:H2'	23:DB:849:A:C8	2.51	0.45
23:DB:1165:A:H2'	23:DB:1166:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1173:U:H2'	23:DB:1174:U:C6	2.51	0.45
23:DB:1272:A:N7	23:DB:1618:A:H1'	2.31	0.45
23:DB:1295:C:H2'	23:DB:1296:G:C8	2.50	0.45
23:DB:1313:U:H2'	23:DB:1313:U:O2	2.14	0.45
23:DB:1526:C:H2'	23:DB:1527:G:O4'	2.15	0.45
23:DB:1903:G:H5''	25:DC:239:PHE:CD2	2.51	0.45
23:DB:2270:A:H4'	43:DW:18:LYS:CB	2.46	0.45
23:DB:2348:U:O2'	23:DB:2349:G:H5'	2.16	0.45
23:DB:2800:A:C4	23:DB:2801:G:H1'	2.51	0.45
23:DB:2801:G:H2'	23:DB:2802:G:C8	2.51	0.45
25:DC:95:TYR:CE2	25:DC:101:ARG:HG3	2.48	0.45
26:DD:81:GLU:HG3	26:DD:82:PHE:N	2.30	0.45
27:DE:153:LEU:HG	27:DE:172:ALA:O	2.17	0.45
28:DF:36:ASN:HD22	28:DF:87:LYS:H	1.63	0.45
28:DF:135:ILE:HD11	28:DF:139:GLU:H	1.81	0.45
30:DH:135:HIS:HB3	30:DH:138:VAL:CG2	2.46	0.45
33:DL:89:VAL:HG21	33:DL:123:ARG:CZ	2.46	0.45
35:DN:35:LYS:HD2	35:DN:110:MET:HB3	1.97	0.45
42:DU:24:VAL:HB	42:DU:34:ILE:O	2.16	0.45
47:D0:36:LYS:HG2	47:D0:37:HIS:O	2.16	0.45
50:D3:7:ARG:NH1	50:D3:7:ARG:O	2.48	0.45
50:D3:49:VAL:HG13	50:D3:50:SER:N	2.32	0.45
52:DI:23:VAL:CG1	52:DI:27:LEU:HD21	2.45	0.45
52:DI:54:ILE:HD11	52:DI:71:LYS:C	2.36	0.45
1:AA:87:C:C2	1:AA:88:U:H1'	2.51	0.45
1:AA:491:G:H2'	1:AA:492:C:C6	2.51	0.45
1:AA:551:U:O2'	1:AA:552:U:H5'	2.16	0.45
1:AA:620:C:C6	3:AD:131:ILE:HD13	2.51	0.45
1:AA:734:G:O2'	17:AR:59:LYS:HD3	2.17	0.45
1:AA:968:A:H5'	1:AA:968:A:N3	2.31	0.45
1:AA:982:U:H4'	1:AA:983:A:O4'	2.16	0.45
1:AA:1124:G:H5''	9:AJ:38:GLY:HA3	1.97	0.45
1:AA:1211:U:H1'	1:AA:1213:A:C2	2.52	0.45
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.81	0.45
2:AC:131:ARG:HH22	2:AC:135:ARG:CZ	2.30	0.45
5:AF:38:ARG:HH21	5:AF:96:VAL:HG11	1.81	0.45
8:AI:15:ALA:O	8:AI:66:VAL:HA	2.16	0.45
8:AI:56:MET:HA	8:AI:59:LYS:NZ	2.31	0.45
8:AI:64:ILE:HD13	8:AI:78:ILE:HG21	1.98	0.45
9:AJ:73:LEU:CD1	9:AJ:75:ASP:HB3	2.47	0.45
11:AL:50:LYS:HE2	11:AL:50:LYS:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:10:ASP:HA	12:AM:44:ILE:HD11	1.98	0.45
17:AR:20:ILE:HG23	17:AR:53:GLN:NE2	2.32	0.45
18:AS:39:ILE:CG2	18:AS:65:MET:HB3	2.46	0.45
19:AT:4:LYS:HD2	19:AT:5:SER:H	1.79	0.45
19:AT:10:ALA:O	19:AT:13:SER:HB3	2.17	0.45
19:AT:49:ALA:O	19:AT:52:GLU:HB3	2.16	0.45
20:AB:21:TYR:O	20:AB:22:TRP:O	2.34	0.45
23:BB:12:U:O2	23:BB:2626:C:H4'	2.17	0.45
23:BB:264:C:C2'	23:BB:265:A:H5''	2.46	0.45
23:BB:274:C:H2'	23:BB:275:C:C6	2.52	0.45
23:BB:1049:C:O2'	23:BB:1050:A:H5'	2.16	0.45
23:BB:1300:G:H5'	23:BB:1301:A:N3	2.31	0.45
23:BB:2574:G:O2'	26:BD:151:THR:HG21	2.16	0.45
23:BB:2673:G:H2'	23:BB:2674:G:C8	2.51	0.45
23:BB:2776:A:H4'	23:BB:2777:G:H5''	1.97	0.45
25:BC:63:ILE:HG21	25:BC:90:ILE:CD1	2.46	0.45
25:BC:219:VAL:O	25:BC:220:ARG:NE	2.48	0.45
26:BD:17:GLU:HB2	37:BP:80:VAL:CG2	2.44	0.45
26:BD:178:VAL:O	26:BD:179:ARG:HG3	2.15	0.45
27:BE:120:VAL:HG12	27:BE:121:VAL:HG23	1.99	0.45
30:BH:5:LEU:O	30:BH:6:LEU:CB	2.65	0.45
32:BK:99:ILE:CG2	32:BK:119:ALA:HB2	2.46	0.45
32:BK:108:ARG:HE	37:BP:36:LYS:HB2	1.81	0.45
35:BN:99:LYS:HE2	47:B0:39:ARG:O	2.16	0.45
36:BO:1:MET:CG	36:BO:3:LYS:HE3	2.47	0.45
37:BP:18:SER:OG	37:BP:21:PRO:HD3	2.17	0.45
39:BR:62:GLU:N	39:BR:62:GLU:OE1	2.49	0.45
41:BT:89:GLU:N	41:BT:89:GLU:CD	2.69	0.45
41:BT:93:LEU:H	41:BT:93:LEU:CD2	2.26	0.45
43:BW:42:THR:HB	43:BW:66:VAL:H	1.81	0.45
48:B1:29:LYS:O	48:B1:30:PRO:C	2.55	0.45
52:BI:79:LEU:CD1	52:BI:131:THR:OG1	2.64	0.45
52:BI:83:ALA:CA	52:BI:100:ILE:HD11	2.46	0.45
1:CA:251:G:H4'	1:CA:252:U:C5'	2.47	0.45
1:CA:321:A:O2'	1:CA:322:C:H5'	2.16	0.45
1:CA:397:A:H5'	1:CA:398:U:OP1	2.16	0.45
1:CA:734:G:H2'	1:CA:735:C:C6	2.51	0.45
1:CA:839:C:O2'	1:CA:840:C:H5'	2.17	0.45
1:CA:1387:G:H2'	1:CA:1388:C:H6	1.81	0.45
2:CC:72:PRO:HB2	2:CC:76:ILE:HG12	1.98	0.45
2:CC:113:LYS:HA	2:CC:184:ASN:ND2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:189:HIS:CD2	2:CC:194:VAL:HG22	2.52	0.45
5:CF:11:HIS:NE2	5:CF:13:ASP:HB3	2.31	0.45
7:CH:29:SER:O	7:CH:30:LYS:C	2.54	0.45
8:CI:56:MET:C	8:CI:58:GLU:H	2.19	0.45
9:CJ:67:ILE:O	9:CJ:67:ILE:HG23	2.16	0.45
19:CT:36:ALA:O	19:CT:40:ALA:N	2.50	0.45
22:DA:66:A:O2'	22:DA:67:G:H8	1.99	0.45
23:DB:151:C:H2'	23:DB:152:A:H8	1.78	0.45
23:DB:208:C:H2'	23:DB:209:C:C6	2.52	0.45
23:DB:302:C:H2'	23:DB:303:G:C8	2.50	0.45
23:DB:552:U:O2'	23:DB:553:G:H5'	2.17	0.45
23:DB:662:G:H4'	33:DL:25:SER:OG	2.17	0.45
23:DB:822:G:H2'	23:DB:823:C:H6	1.80	0.45
23:DB:1128:G:N7	23:DB:2490:G:H5'	2.31	0.45
23:DB:1315:C:H2'	23:DB:1316:U:H6	1.81	0.45
23:DB:1525:A:H2'	23:DB:1526:C:C6	2.51	0.45
23:DB:1616:A:H4'	23:DB:1617:C:OP2	2.17	0.45
23:DB:1764:C:H2'	23:DB:1765:U:C6	2.51	0.45
23:DB:1820:U:H4'	23:DB:1821:A:OP2	2.16	0.45
23:DB:1820:U:O2'	25:DC:157:ALA:HB3	2.16	0.45
23:DB:1821:A:C5'	25:DC:155:ARG:HH21	2.28	0.45
23:DB:2028:U:H2'	23:DB:2029:G:C8	2.52	0.45
23:DB:2090:A:N3	46:DZ:49:ARG:NH2	2.64	0.45
23:DB:2092:U:H5	23:DB:2226:C:OP2	1.99	0.45
23:DB:2220:U:H2'	23:DB:2221:G:C8	2.50	0.45
23:DB:2284:A:O2'	23:DB:2288:A:N6	2.48	0.45
23:DB:2425:A:H5''	23:DB:2426:A:H3'	1.98	0.45
23:DB:2623:G:O2'	23:DB:2624:G:H5'	2.16	0.45
23:DB:2751:G:N2	29:DG:2:ARG:HD2	2.31	0.45
23:DB:2877:G:H2'	23:DB:2878:U:C6	2.52	0.45
25:DC:68:ARG:HD2	25:DC:127:ASN:HD21	1.79	0.45
28:DF:39:VAL:HG12	28:DF:40:GLY:H	1.81	0.45
29:DG:137:LYS:O	29:DG:140:ILE:HB	2.16	0.45
31:DJ:58:ASN:OD1	31:DJ:128:ASN:HA	2.17	0.45
31:DJ:133:ALA:C	31:DJ:135:GLN:N	2.69	0.45
32:DK:99:ILE:HD13	32:DK:115:ILE:HG13	1.97	0.45
34:DM:15:GLY:O	34:DM:16:ARG:O	2.33	0.45
37:DP:25:VAL:HG12	37:DP:27:VAL:N	2.23	0.45
39:DR:6:GLN:NE2	39:DR:6:GLN:H	2.14	0.45
41:DT:31:VAL:HG22	41:DT:32:LEU:N	2.30	0.45
42:DU:78:LYS:HA	42:DU:96:LYS:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:1:MET:HG3	44:DX:6:LEU:HA	1.98	0.45
45:DY:21:ALA:O	45:DY:24:LEU:HB2	2.16	0.45
45:DY:43:ILE:HD11	45:DY:47:ILE:HD11	1.97	0.45
47:D0:47:TYR:HB3	47:D0:52:LYS:N	2.32	0.45
52:DI:54:ILE:O	52:DI:54:ILE:HG23	2.16	0.45
1:AA:136:C:H1'	15:AP:1:MET:HE1	1.98	0.45
1:AA:473:U:C2	1:AA:474:G:N7	2.85	0.45
1:AA:674:G:H2'	1:AA:675:A:C8	2.49	0.45
1:AA:820:U:H4'	1:AA:821:G:OP2	2.16	0.45
1:AA:828:U:H2'	1:AA:829:G:O5'	2.16	0.45
1:AA:1315:U:H3'	1:AA:1316:G:C8	2.51	0.45
2:AC:14:VAL:HG23	2:AC:15:LYS:HG2	1.98	0.45
3:AD:160:LEU:HD22	3:AD:161:ALA:N	2.31	0.45
5:AF:53:LYS:HZ2	5:AF:54:LEU:N	2.14	0.45
10:AK:88:PRO:HA	10:AK:92:ARG:CD	2.47	0.45
19:AT:54:GLN:N	19:AT:55:PRO:CD	2.80	0.45
20:AB:102:ASN:OD1	20:AB:105:THR:HG22	2.16	0.45
23:BB:18:U:O2	23:BB:554:U:H5''	2.16	0.45
23:BB:129:C:H2'	23:BB:130:C:H6	1.81	0.45
23:BB:514:A:O2'	23:BB:515:A:H5'	2.16	0.45
23:BB:656:G:H2'	23:BB:657:U:C6	2.52	0.45
23:BB:988:A:H4'	23:BB:1155:A:N1	2.31	0.45
23:BB:1184:U:H2'	23:BB:1185:G:C8	2.51	0.45
23:BB:1190:G:OP1	33:BL:41:ARG:CD	2.64	0.45
23:BB:1710:G:H2'	23:BB:1711:A:C8	2.51	0.45
23:BB:1826:G:H2'	23:BB:1827:U:H6	1.81	0.45
23:BB:1921:G:O2'	23:BB:1922:G:H5'	2.16	0.45
23:BB:2250:G:H8	23:BB:2250:G:O5'	1.98	0.45
23:BB:2354:C:H4'	43:BW:30:VAL:CG1	2.45	0.45
23:BB:2633:G:H2'	23:BB:2634:A:O4'	2.17	0.45
25:BC:145:MET:H	25:BC:145:MET:HG2	1.35	0.45
26:BD:13:ARG:O	26:BD:15:PHE:N	2.49	0.45
26:BD:20:VAL:HG23	26:BD:21:SER:H	1.81	0.45
26:BD:98:VAL:HA	26:BD:101:PHE:HE1	1.80	0.45
27:BE:85:PHE:O	27:BE:86:ALA:C	2.55	0.45
28:BF:38:GLY:O	28:BF:39:VAL:C	2.54	0.45
28:BF:107:VAL:HB	28:BF:108:PRO:CD	2.46	0.45
29:BG:71:LEU:HA	29:BG:74:MET:CG	2.46	0.45
31:BJ:81:ILE:CG1	31:BJ:82:GLY:N	2.80	0.45
33:BL:85:VAL:HG13	33:BL:86:GLU:HG2	1.98	0.45
34:BM:31:PHE:HA	34:BM:128:THR:CG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:76:LYS:CG	36:BO:110:ALA:HB2	2.46	0.45
37:BP:78:PRO:C	37:BP:79:VAL:HG23	2.36	0.45
38:BQ:33:VAL:O	38:BQ:34:ALA:C	2.55	0.45
38:BQ:91:ARG:HA	38:BQ:91:ARG:HD2	1.78	0.45
39:BR:39:LEU:CD1	39:BR:60:LYS:HB2	2.44	0.45
39:BR:68:ARG:HD2	39:BR:70:GLU:CD	2.37	0.45
41:BT:57:VAL:HG12	41:BT:58:VAL:H	1.82	0.45
46:BZ:6:HIS:H	46:BZ:51:VAL:HG13	1.82	0.45
1:CA:234:C:H2'	1:CA:235:C:C6	2.52	0.45
1:CA:1260:G:HO2'	1:CA:1261:A:H8	1.59	0.45
1:CA:1280:A:O4'	9:CJ:43:PRO:HG3	2.16	0.45
1:CA:1427:C:O2'	1:CA:1428:A:H5'	2.16	0.45
2:CC:51:VAL:HB	2:CC:68:HIS:O	2.16	0.45
4:CE:17:VAL:HG22	4:CE:17:VAL:O	2.17	0.45
5:CF:47:LEU:HD22	17:CR:65:SER:OG	2.15	0.45
8:CI:17:ARG:O	8:CI:65:THR:N	2.50	0.45
9:CJ:11:LYS:HE3	9:CJ:99:GLN:NE2	2.31	0.45
10:CK:14:GLN:HA	10:CK:77:GLY:HA3	1.97	0.45
11:CL:68:GLY:HA3	11:CL:106:VAL:CG2	2.33	0.45
12:CM:95:PRO:CD	12:CM:108:ARG:HG2	2.46	0.45
15:CP:74:LEU:O	15:CP:78:VAL:HG12	2.16	0.45
18:CS:26:ASP:OD2	18:CS:46:LEU:HA	2.15	0.45
20:CB:69:VAL:HB	20:CB:162:VAL:CB	2.46	0.45
20:CB:86:CYS:SG	20:CB:87:ASP:N	2.89	0.45
20:CB:130:LYS:HE2	20:CB:130:LYS:N	2.32	0.45
22:DA:32:U:H4'	22:DA:52:A:N6	2.31	0.45
23:DB:346:A:H2'	23:DB:347:A:O4'	2.17	0.45
23:DB:1051:G:H2'	23:DB:1052:C:H6	1.82	0.45
23:DB:1149:G:H2'	23:DB:1150:C:H6	1.73	0.45
23:DB:1735:A:H2'	23:DB:1736:U:C6	2.52	0.45
23:DB:2051:A:H4'	26:DD:145:SER:HB2	1.98	0.45
23:DB:2228:G:OP1	25:DC:257:ARG:HB2	2.16	0.45
23:DB:2467:C:O4'	34:DM:118:LYS:HD2	2.17	0.45
23:DB:2720:U:H2'	23:DB:2721:A:C8	2.51	0.45
24:DV:26:PHE:CE1	24:DV:42:LEU:HD12	2.51	0.45
25:DC:87:SER:N	25:DC:155:ARG:HH12	2.14	0.45
25:DC:235:GLU:CG	25:DC:236:GLY:H	2.29	0.45
29:DG:39:ALA:HA	29:DG:54:ARG:HD2	1.97	0.45
30:DH:5:LEU:HD11	30:DH:9:VAL:HG22	1.98	0.45
31:DJ:50:THR:N	31:DJ:118:MET:HE1	2.27	0.45
33:DL:21:ARG:HG2	33:DL:21:ARG:H	1.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:79:LEU:HG	33:DL:111:ILE:O	2.15	0.45
35:DN:96:ARG:CZ	35:DN:98:LEU:HD21	2.46	0.45
37:DP:4:ILE:HA	37:DP:7:LEU:HD13	1.98	0.45
37:DP:33:GLU:OE1	37:DP:35:SER:N	2.49	0.45
43:DW:30:VAL:HG12	43:DW:31:LEU:N	2.31	0.45
46:DZ:33:ASN:C	46:DZ:34:LEU:HD23	2.36	0.45
1:AA:448:A:H2'	1:AA:449:G:C8	2.51	0.45
1:AA:647:C:O2'	1:AA:648:A:H5'	2.16	0.45
1:AA:687:A:C2	1:AA:704:A:C5	3.05	0.45
1:AA:807:A:O2'	25:BC:4:LYS:HB2	2.17	0.45
1:AA:1148:U:H5''	8:AI:8:THR:HG23	1.99	0.45
4:AE:82:HIS:CD2	7:AH:95:MET:HG3	2.51	0.45
10:AK:22:ILE:HD13	10:AK:95:THR:CG2	2.46	0.45
13:AN:63:CYS:HB2	13:AN:79:SER:OG	2.17	0.45
20:AB:9:LEU:HD22	20:AB:11:ALA:N	2.24	0.45
20:AB:174:GLU:O	20:AB:178:LEU:HD23	2.16	0.45
21:AU:40:PRO:C	21:AU:42:THR:N	2.69	0.45
22:BA:54:G:O2'	22:BA:55:U:H5'	2.16	0.45
23:BB:102:U:H4'	23:BB:103:A:OP2	2.14	0.45
23:BB:170:U:O2'	23:BB:171:U:H5'	2.16	0.45
23:BB:175:G:H2'	23:BB:176:A:C8	2.52	0.45
23:BB:233:A:H61	23:BB:428:A:N6	2.13	0.45
23:BB:729:G:H4'	23:BB:763:G:C5'	2.46	0.45
23:BB:744:U:OP1	26:BD:136:ASN:O	2.35	0.45
23:BB:1017:G:H2'	23:BB:1018:U:C6	2.52	0.45
23:BB:1062:G:H2'	23:BB:1063:G:H8	1.81	0.45
23:BB:1152:C:H3'	54:BB:3241:HOH:O	2.15	0.45
23:BB:1347:A:H2'	23:BB:1348:C:O4'	2.17	0.45
23:BB:1433:A:H2'	23:BB:1434:A:O4'	2.15	0.45
23:BB:1515:A:H5'	23:BB:1557:C:C5'	2.45	0.45
23:BB:1567:G:H5''	25:BC:84:PRO:HG3	1.99	0.45
23:BB:1796:U:O2'	25:BC:251:THR:HA	2.16	0.45
23:BB:1946:U:H2'	23:BB:1947:C:C6	2.52	0.45
23:BB:2393:U:O2'	23:BB:2394:C:H5'	2.16	0.45
23:BB:2674:G:H4'	32:BK:30:ARG:CG	2.42	0.45
23:BB:2750:A:H3'	29:BG:3:VAL:HG22	1.98	0.45
25:BC:204:LEU:HD12	25:BC:211:ARG:HD3	1.97	0.45
27:BE:149:ILE:HG13	27:BE:149:ILE:O	2.15	0.45
28:BF:2:LYS:O	28:BF:3:LEU:CB	2.64	0.45
29:BG:130:ILE:HG21	29:BG:147:LEU:HD13	1.97	0.45
30:BH:62:LEU:HG	30:BH:137:GLU:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:100:VAL:O	31:BJ:102:GLU:N	2.49	0.45
31:BJ:130:HIS:HB3	31:BJ:131:ASN:H	1.60	0.45
32:BK:28:SER:O	32:BK:29:HIS:HB2	2.15	0.45
32:BK:62:VAL:HA	32:BK:83:ALA:O	2.15	0.45
33:BL:110:VAL:HB	33:BL:126:ARG:CZ	2.46	0.45
34:BM:42:THR:HG23	34:BM:45:GLN:N	2.30	0.45
36:BO:9:ARG:HA	36:BO:12:THR:CG2	2.45	0.45
37:BP:93:LYS:HD2	37:BP:96:LEU:HD12	1.99	0.45
40:BS:3:THR:CG2	40:BS:107:VAL:HG23	2.47	0.45
41:BT:15:HIS:HB2	41:BT:31:VAL:HB	1.98	0.45
41:BT:71:GLY:C	41:BT:72:GLN:HG3	2.37	0.45
42:BU:64:ILE:HD13	42:BU:65:GLN:H	1.82	0.45
46:BZ:30:HIS:HB2	46:BZ:31:ASP:H	1.48	0.45
47:B0:28:SER:O	47:B0:29:VAL:HB	2.16	0.45
50:B3:21:PHE:CD1	50:B3:21:PHE:N	2.84	0.45
50:B3:57:VAL:HG13	50:B3:58:ILE:N	2.31	0.45
1:CA:674:G:H2'	1:CA:675:A:C8	2.52	0.45
1:CA:1219:A:H2'	1:CA:1220:G:H8	1.81	0.45
1:CA:1238:A:H2	1:CA:1241:G:N3	2.12	0.45
1:CA:1382:C:H2'	1:CA:1383:C:H6	1.81	0.45
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.81	0.45
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.16	0.45
2:CC:83:VAL:HA	2:CC:86:LEU:CD1	2.46	0.45
5:CF:82:ASP:OD1	25:DC:166:ARG:HD2	2.17	0.45
8:CI:6:TYR:OH	8:CI:8:THR:HG22	2.17	0.45
10:CK:121:ARG:NE	21:CU:34:ARG:HD2	2.31	0.45
19:CT:73:ARG:HG3	19:CT:74:HIS:H	1.79	0.45
20:CB:96:LEU:HB2	20:CB:99:MET:HG3	1.97	0.45
20:CB:209:VAL:HG23	20:CB:210:THR:N	2.32	0.45
22:DA:64:G:H2'	22:DA:65:U:C6	2.51	0.45
23:DB:656:G:H2'	23:DB:657:U:C6	2.51	0.45
23:DB:969:G:H2'	23:DB:970:U:H6	1.78	0.45
23:DB:1022:G:N2	23:DB:1142:A:C2	2.84	0.45
23:DB:1188:U:O2'	23:DB:1189:A:H5'	2.16	0.45
23:DB:1413:A:H2'	23:DB:1414:C:C6	2.51	0.45
23:DB:1511:G:H2'	23:DB:1512:C:H6	1.82	0.45
23:DB:1561:C:H2'	23:DB:1562:U:H6	1.80	0.45
23:DB:1585:C:H2'	23:DB:1586:A:O4'	2.16	0.45
23:DB:2260:C:O2'	23:DB:2261:C:H5'	2.17	0.45
23:DB:2581:G:H2'	23:DB:2581:G:N3	2.32	0.45
23:DB:2597:G:OP1	25:DC:239:PHE:CG	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:42:ARG:CZ	25:DC:44:ASN:HB2	2.46	0.45
26:DD:61:THR:HG23	26:DD:62:LYS:HD3	1.99	0.45
29:DG:11:PRO:CD	29:DG:14:VAL:HG21	2.44	0.45
29:DG:36:LEU:HD23	29:DG:67:ALA:HB1	1.99	0.45
31:DJ:95:ARG:N	31:DJ:95:ARG:NE	2.64	0.45
44:DX:1:MET:CB	44:DX:6:LEU:HA	2.43	0.45
1:AA:191:G:H2'	1:AA:192:A:C8	2.52	0.45
1:AA:230:G:O2'	1:AA:231:U:H5'	2.15	0.45
1:AA:586:C:C2'	1:AA:587:G:H5'	2.46	0.45
1:AA:1231:G:H2'	1:AA:1232:U:H6	1.80	0.45
1:AA:1300:G:O2'	1:AA:1301:U:P	2.75	0.45
2:AC:41:TYR:HA	2:AC:44:LYS:HD3	1.98	0.45
3:AD:100:VAL:HA	3:AD:103:ARG:HD2	1.99	0.45
5:AF:51:ILE:O	5:AF:51:ILE:HG23	2.17	0.45
7:AH:9:MET:HE3	7:AH:32:LYS:HB3	1.98	0.45
9:AJ:42:LEU:HB2	9:AJ:71:LEU:HD13	1.99	0.45
13:AN:25:GLU:O	13:AN:29:ILE:HG13	2.16	0.45
18:AS:31:ARG:HG3	18:AS:56:HIS:HE2	1.81	0.45
20:AB:56:LEU:O	20:AB:59:ILE:HG13	2.16	0.45
20:AB:101:THR:HG23	20:AB:102:ASN:N	2.32	0.45
22:BA:100:G:N2	23:BB:863:A:O3'	2.50	0.45
22:BA:114:C:H2'	22:BA:115:A:H8	1.80	0.45
23:BB:28:A:H1'	23:BB:513:A:C2	2.52	0.45
23:BB:106:C:H2'	23:BB:107:G:H8	1.82	0.45
23:BB:1376:C:H5''	54:BB:3500:HOH:O	2.16	0.45
23:BB:1735:A:H2'	23:BB:1736:U:C6	2.52	0.45
23:BB:1881:C:H2'	23:BB:1882:U:O4'	2.16	0.45
23:BB:2354:C:O3'	43:BW:30:VAL:HG13	2.16	0.45
23:BB:2886:A:C2	23:BB:2887:A:N7	2.84	0.45
28:BF:12:VAL:HG13	28:BF:27:VAL:CG2	2.42	0.45
33:BL:6:LEU:HD22	33:BL:6:LEU:N	2.32	0.45
33:BL:38:GLN:HA	33:BL:41:ARG:CZ	2.47	0.45
34:BM:42:THR:O	34:BM:43:ALA:HB3	2.16	0.45
38:BQ:33:VAL:CG1	38:BQ:34:ALA:H	2.19	0.45
39:BR:4:VAL:O	39:BR:4:VAL:HG13	2.16	0.45
41:BT:3:ARG:HH21	41:BT:8:LEU:HD22	1.80	0.45
41:BT:6:ARG:C	41:BT:8:LEU:N	2.68	0.45
41:BT:57:VAL:HG12	41:BT:58:VAL:N	2.32	0.45
47:B0:31:LYS:NZ	47:B0:49:ARG:HA	2.31	0.45
50:B3:7:ARG:NH2	50:B3:11:LYS:NZ	2.62	0.45
1:CA:560:A:H5'	1:CA:566:G:N2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:627:G:H2'	1:CA:628:G:H8	1.82	0.45
1:CA:903:G:H2'	1:CA:904:U:H6	1.80	0.45
1:CA:1143:G:O2'	1:CA:1144:G:H5'	2.17	0.45
1:CA:1287:A:H2'	1:CA:1288:A:H8	1.81	0.45
1:CA:1358:U:OP2	13:CN:74:ARG:HG3	2.17	0.45
3:CD:25:ARG:HH11	3:CD:25:ARG:CB	2.29	0.45
4:CE:17:VAL:HA	4:CE:33:THR:O	2.16	0.45
8:CI:71:ILE:H	8:CI:71:ILE:HG13	1.64	0.45
9:CJ:8:ILE:HG22	9:CJ:100:ILE:HG22	1.98	0.45
22:DA:13:G:C2'	22:DA:14:U:H5''	2.46	0.45
23:DB:534:U:H5'	38:DQ:41:ALA:CB	2.47	0.45
23:DB:910:A:C8	34:DM:16:ARG:HB3	2.52	0.45
23:DB:960:A:C4'	23:DB:2457:U:H4'	2.47	0.45
23:DB:1487:U:H2'	23:DB:1488:C:C6	2.51	0.45
23:DB:1637:A:H2'	23:DB:1638:C:H6	1.82	0.45
23:DB:1820:U:N3	25:DC:197:ALA:HB1	2.27	0.45
23:DB:1821:A:H5'	25:DC:155:ARG:NH2	2.32	0.45
23:DB:2034:U:H5''	54:DB:3318:HOH:O	2.15	0.45
23:DB:2045:C:H5''	47:D0:14:MET:SD	2.57	0.45
23:DB:2329:U:H2'	23:DB:2330:G:C8	2.51	0.45
24:DV:2:PHE:HB3	24:DV:50:MET:SD	2.57	0.45
24:DV:32:GLY:O	24:DV:93:ARG:HB3	2.17	0.45
25:DC:38:LYS:O	25:DC:60:ALA:HA	2.16	0.45
25:DC:243:PRO:CB	25:DC:248:GLY:HA2	2.44	0.45
26:DD:117:GLY:HA3	35:DN:1:MET:CA	2.46	0.45
27:DE:10:SER:C	27:DE:12:LEU:N	2.70	0.45
29:DG:171:LYS:HD3	29:DG:174:LYS:CD	2.38	0.45
30:DH:12:LEU:HD22	30:DH:19:VAL:CG1	2.47	0.45
31:DJ:45:THR:HG22	31:DJ:47:HIS:H	1.81	0.45
33:DL:63:LYS:H	50:D3:12:ARG:CD	2.29	0.45
34:DM:33:LEU:HD21	34:DM:124:LEU:HB2	1.98	0.45
35:DN:41:ALA:HB1	35:DN:113:ILE:CD1	2.44	0.45
37:DP:58:PHE:N	37:DP:58:PHE:CD2	2.85	0.45
42:DU:48:VAL:HG13	42:DU:51:LEU:HA	1.99	0.45
42:DU:91:LYS:HD3	42:DU:93:ARG:HE	1.81	0.45
46:DZ:32:LEU:N	46:DZ:32:LEU:HD22	2.31	0.45
50:D3:7:ARG:HH12	50:D3:11:LYS:HG2	1.81	0.45
51:D4:10:LEU:HB2	51:D4:25:VAL:HG21	1.98	0.45
1:AA:22:G:H2'	1:AA:23:C:C6	2.52	0.45
1:AA:138:G:O2'	1:AA:139:A:H5'	2.17	0.45
1:AA:463:U:H5'	1:AA:464:U:OP2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:766:A:H2	1:AA:1525:G:N3	2.15	0.45
1:AA:1348:U:H4'	8:AI:121:ARG:NH1	2.31	0.45
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.52	0.45
1:AA:1462:C:H2'	1:AA:1463:U:C6	2.52	0.45
2:AC:59:PRO:HD2	2:AC:62:SER:O	2.17	0.45
2:AC:90:VAL:HA	2:AC:93:ILE:HG21	1.97	0.45
3:AD:29:THR:OG1	3:AD:30:LYS:HD3	2.17	0.45
4:AE:40:ASP:O	4:AE:42:ASN:N	2.45	0.45
14:AO:11:VAL:HA	14:AO:26:VAL:HG13	1.98	0.45
20:AB:119:GLN:HA	20:AB:124:THR:HG23	1.97	0.45
20:AB:187:ASP:CG	20:AB:188:THR:N	2.70	0.45
23:BB:48:G:H4'	23:BB:52:A:O4'	2.16	0.45
23:BB:64:A:N6	23:BB:91:A:H61	2.14	0.45
23:BB:527:C:C5'	23:BB:2779:U:H3	2.29	0.45
23:BB:720:U:H2'	23:BB:721:A:H8	1.77	0.45
23:BB:729:G:H4'	23:BB:763:G:H5'	1.98	0.45
23:BB:1032:A:OP1	51:B4:8:LYS:HB3	2.17	0.45
23:BB:1259:G:O2'	23:BB:1260:A:H5'	2.17	0.45
23:BB:2071:A:H2'	23:BB:2072:C:C6	2.51	0.45
23:BB:2099:U:H2'	23:BB:2100:G:H8	1.81	0.45
23:BB:2183:A:H2'	23:BB:2184:A:C8	2.52	0.45
23:BB:2567:G:H2'	23:BB:2568:U:C6	2.51	0.45
23:BB:2643:G:H2'	23:BB:2644:G:O4'	2.16	0.45
23:BB:2675:A:N1	23:BB:2732:G:O6	2.50	0.45
23:BB:2693:G:O2'	23:BB:2694:G:H5'	2.17	0.45
23:BB:2811:G:O2'	23:BB:2812:G:H5'	2.16	0.45
25:BC:53:ILE:CG1	25:BC:218:THR:HG23	2.47	0.45
25:BC:78:GLU:HB3	25:BC:92:LEU:HD23	1.99	0.45
25:BC:140:VAL:C	25:BC:193:GLU:HB2	2.36	0.45
26:BD:157:LYS:O	26:BD:157:LYS:HG3	2.15	0.45
29:BG:89:VAL:HB	29:BG:160:GLY:H	1.82	0.45
33:BL:59:ARG:HE	50:B3:54:LEU:HD12	1.81	0.45
37:BP:93:LYS:CB	37:BP:96:LEU:HD12	2.47	0.45
38:BQ:21:LYS:HD2	38:BQ:23:TYR:HE1	1.81	0.45
39:BR:41:ILE:O	39:BR:41:ILE:HD12	2.17	0.45
47:B0:26:SER:CB	47:B0:38:LEU:HD12	2.46	0.45
52:BI:116:MET:SD	52:BI:124:MET:HB2	2.56	0.45
1:CA:22:G:H2'	1:CA:23:C:H6	1.82	0.45
1:CA:619:U:H3	3:CD:130:ASN:HD22	1.62	0.45
1:CA:672:U:H2'	1:CA:673:A:H8	1.79	0.45
1:CA:1036:A:H2'	1:CA:1037:C:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1131:G:H2'	1:CA:1132:C:H5'	1.97	0.45
1:CA:1330:U:H2'	1:CA:1331:G:O4'	2.16	0.45
1:CA:1475:G:OP1	23:DB:1689:A:H1'	2.17	0.45
3:CD:117:VAL:HG12	3:CD:130:ASN:CA	2.46	0.45
10:CK:110:THR:HG22	21:CU:4:LYS:HA	1.99	0.45
12:CM:106:ARG:HH12	12:CM:109:LYS:HD2	1.80	0.45
15:CP:40:ASN:HD21	15:CP:42:ILE:CG1	2.28	0.45
16:CQ:60:ILE:HB	16:CQ:73:THR:O	2.16	0.45
17:CR:20:ILE:O	17:CR:20:ILE:HG23	2.17	0.45
17:CR:28:LEU:C	17:CR:30:ASN:N	2.70	0.45
20:CB:95:TRP:HZ2	20:CB:100:LEU:HD13	1.80	0.45
20:CB:101:THR:HG23	20:CB:102:ASN:N	2.31	0.45
20:CB:156:LEU:HG	20:CB:157:PRO:HD2	1.99	0.45
23:DB:82:U:H5''	23:DB:296:U:H5''	1.97	0.45
23:DB:235:U:H2'	23:DB:236:C:H6	1.78	0.45
23:DB:873:C:H4'	34:DM:64:TRP:CZ3	2.52	0.45
23:DB:1005:C:H2'	23:DB:1006:C:H6	1.81	0.45
23:DB:1027:A:N3	23:DB:2488:G:H5''	2.32	0.45
23:DB:1275:A:H2	23:DB:1645:G:H21	1.59	0.45
23:DB:1459:G:C2'	23:DB:1460:U:H5'	2.47	0.45
23:DB:1666:G:O2'	23:DB:1667:G:H5'	2.15	0.45
23:DB:1774:C:O2	23:DB:1774:C:H2'	2.16	0.45
23:DB:1851:U:H2'	23:DB:1852:U:C6	2.52	0.45
23:DB:1914:C:H3'	23:DB:1914:C:OP2	2.17	0.45
23:DB:2022:U:O2'	23:DB:2617:U:H5'	2.15	0.45
23:DB:2387:U:O2'	43:DW:37:VAL:HG11	2.17	0.45
23:DB:2570:G:O2'	23:DB:2571:U:H5'	2.17	0.45
24:DV:29:ILE:HG13	24:DV:30:ILE:N	2.32	0.45
27:DE:4:VAL:HG13	27:DE:5:LEU:N	2.25	0.45
27:DE:46:GLN:NE2	27:DE:48:THR:HB	2.32	0.45
27:DE:136:GLN:HA	27:DE:139:LYS:CG	2.46	0.45
27:DE:190:ALA:HB3	27:DE:193:VAL:CG2	2.44	0.45
29:DG:23:ILE:O	29:DG:23:ILE:HG13	2.17	0.45
30:DH:108:VAL:CG1	30:DH:110:VAL:HB	2.47	0.45
33:DL:18:ARG:HH22	33:DL:21:ARG:HD3	1.81	0.45
34:DM:5:LYS:HD2	34:DM:8:LYS:NZ	2.31	0.45
35:DN:100:CYS:SG	47:D0:43:THR:HG21	2.57	0.45
40:DS:2:GLU:CB	40:DS:108:SER:HA	2.44	0.45
40:DS:43:ALA:C	40:DS:45:VAL:H	2.19	0.45
40:DS:72:THR:HG23	40:DS:73:LYS:H	1.81	0.45
40:DS:74:ILE:CG2	40:DS:105:VAL:HG23	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:36:VAL:HA	46:DZ:42:PRO:HA	1.98	0.45
47:D0:42:ILE:HG21	47:D0:45:ASP:OD2	2.17	0.45
52:DI:79:LEU:HD23	52:DI:108:ILE:CD1	2.46	0.45
1:AA:295:C:H2'	1:AA:296:U:C6	2.52	0.45
1:AA:373:A:H1'	1:AA:481:G:H1'	1.99	0.45
1:AA:429:U:H4'	1:AA:430:A:O5'	2.16	0.45
1:AA:812:G:N3	1:AA:812:G:C2'	2.75	0.45
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.16	0.45
1:AA:1239:A:H1'	1:AA:1241:G:C5	2.52	0.45
2:AC:176:THR:O	2:AC:179:ALA:HB3	2.17	0.45
3:AD:25:ARG:HD3	3:AD:26:ALA:N	2.31	0.45
4:AE:45:VAL:HG12	4:AE:116:VAL:HG23	1.98	0.45
5:AF:79:ARG:HH21	5:AF:87:SER:HB2	1.81	0.45
6:AG:71:THR:O	6:AG:72:VAL:HG13	2.17	0.45
6:AG:144:ALA:C	6:AG:146:ALA:N	2.70	0.45
8:AI:10:ARG:HA	8:AI:77:ALA:HB1	1.98	0.45
10:AK:70:ALA:HA	10:AK:74:LYS:HD3	1.99	0.45
10:AK:88:PRO:HD3	21:AU:28:LEU:CD2	2.47	0.45
16:AQ:66:LEU:HD11	16:AQ:73:THR:HG22	1.98	0.45
18:AS:18:VAL:HG13	18:AS:19:GLU:N	2.32	0.45
18:AS:20:LYS:HB3	18:AS:20:LYS:HZ2	1.82	0.45
20:AB:147:LEU:O	20:AB:151:LYS:HG3	2.17	0.45
21:AU:3:ILE:CG1	21:AU:19:LYS:HG2	2.46	0.45
21:AU:5:VAL:HG22	21:AU:19:LYS:NZ	2.31	0.45
23:BB:743:A:C2'	23:BB:744:U:H5'	2.46	0.45
23:BB:1409:U:O2'	23:BB:1410:G:H5'	2.16	0.45
23:BB:1438:U:H5'	23:BB:1516:G:O2'	2.17	0.45
23:BB:1534:U:O2'	23:BB:1535:A:H8	2.00	0.45
23:BB:1561:C:H2'	23:BB:1562:U:C6	2.52	0.45
23:BB:2093:G:H2'	23:BB:2094:A:H8	1.82	0.45
23:BB:2152:G:H2'	23:BB:2153:C:H6	1.82	0.45
23:BB:2249:U:H4'	23:BB:2275:C:H5	1.82	0.45
23:BB:2291:U:H5''	23:BB:2380:C:H1'	1.98	0.45
23:BB:2306:C:H42	28:BF:38:GLY:N	2.15	0.45
23:BB:2316:G:H2'	23:BB:2317:A:H8	1.81	0.45
23:BB:2576:G:H22	26:BD:149:ASN:HD21	1.62	0.45
23:BB:2618:G:N2	26:BD:155:VAL:HG21	2.22	0.45
23:BB:2659:G:N2	23:BB:2661:G:H5''	2.32	0.45
23:BB:2700:A:H2'	23:BB:2701:U:C6	2.52	0.45
23:BB:2733:A:C8	23:BB:2733:A:H3'	2.52	0.45
24:BV:4:ILE:O	24:BV:63:ILE:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:88:GLU:CG	26:BD:89:GLU:N	2.80	0.45
26:BD:117:GLY:N	26:BD:165:MET:HB3	2.32	0.45
27:BE:144:GLU:C	27:BE:146:VAL:H	2.18	0.45
28:BF:99:PHE:C	28:BF:101:ARG:N	2.69	0.45
28:BF:135:ILE:HD12	28:BF:140:ILE:HD12	1.98	0.45
32:BK:23:LYS:HG3	32:BK:24:VAL:H	1.81	0.45
33:BL:21:ARG:HB3	33:BL:21:ARG:CZ	2.47	0.45
33:BL:30:THR:CB	33:BL:36:LYS:HB2	2.44	0.45
33:BL:103:ILE:HD11	33:BL:105:ILE:HD13	1.99	0.45
40:BS:56:ALA:C	40:BS:58:ALA:N	2.70	0.45
44:BX:24:GLU:HG3	44:BX:43:LEU:HD11	1.97	0.45
48:B1:4:ILE:H	48:B1:4:ILE:HG13	1.58	0.45
48:B1:5:ARG:HH11	48:B1:5:ARG:HB3	1.82	0.45
50:B3:59:ALA:O	50:B3:60:CYS:HB2	2.17	0.45
52:BI:14:ALA:CB	52:BI:50:LYS:HA	2.47	0.45
1:CA:22:G:H2'	1:CA:23:C:C6	2.52	0.45
1:CA:99:C:H2'	54:CA:1944:HOH:O	2.16	0.45
1:CA:402:G:H2'	1:CA:403:C:H6	1.81	0.45
1:CA:666:G:H5'	1:CA:726:C:H1'	1.98	0.45
1:CA:767:A:H2'	1:CA:768:A:C8	2.52	0.45
1:CA:923:A:O2'	1:CA:924:C:H5'	2.16	0.45
2:CC:29:ALA:HB2	13:CN:75:LYS:O	2.17	0.45
5:CF:29:ILE:HG21	5:CF:64:VAL:CG1	2.42	0.45
6:CG:74:VAL:HG21	6:CG:143:MET:HG2	1.99	0.45
8:CI:122:ARG:HH11	8:CI:122:ARG:HG2	1.81	0.45
14:CO:70:LYS:HB2	14:CO:77:TYR:CG	2.51	0.45
18:CS:14:LEU:HD12	18:CS:15:LEU:H	1.80	0.45
18:CS:30:LEU:O	18:CS:49:ALA:HB3	2.17	0.45
20:CB:102:ASN:HD21	20:CB:105:THR:HB	1.82	0.45
21:CU:3:ILE:HD11	21:CU:19:LYS:HD3	1.98	0.45
23:DB:956:G:N2	23:DB:959:A:H3'	2.32	0.45
23:DB:1098:A:C2'	52:DI:4:VAL:CA	2.91	0.45
23:DB:1476:U:HO2'	23:DB:1477:A:H8	1.61	0.45
23:DB:1824:G:H2'	23:DB:1825:U:H6	1.82	0.45
26:DD:60:VAL:HG23	26:DD:63:PRO:HG2	1.99	0.45
26:DD:118:PHE:CA	26:DD:164:GLN:HG2	2.46	0.45
26:DD:122:VAL:CA	26:DD:128:ARG:HG3	2.38	0.45
27:DE:141:MET:HB3	27:DE:185:LYS:HZ1	1.82	0.45
28:DF:166:ARG:O	28:DF:169:LEU:N	2.50	0.45
31:DJ:53:TYR:HA	31:DJ:121:LYS:HB3	1.99	0.45
37:DP:5:LYS:C	37:DP:7:LEU:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:28:LYS:HZ2	37:DP:44:GLY:N	2.13	0.45
39:DR:11:GLN:CA	39:DR:21:ARG:HH22	2.29	0.45
40:DS:68:ASP:C	40:DS:69:LEU:HD22	2.37	0.45
41:DT:87:LEU:HD13	41:DT:93:LEU:HD13	1.99	0.45
42:DU:28:LEU:C	42:DU:28:LEU:CD1	2.85	0.45
43:DW:57:THR:O	43:DW:59:PHE:N	2.50	0.45
45:DY:2:LYS:HB2	45:DY:36:GLU:O	2.16	0.45
45:DY:45:GLY:HA2	45:DY:48:ASN:HD22	1.81	0.45
47:D0:40:HIS:ND1	47:D0:41:HIS:O	2.44	0.45
49:D2:12:ARG:HH21	49:D2:16:HIS:CB	2.30	0.45
51:D4:32:LYS:HE3	51:D4:33:HIS:ND1	2.32	0.45
1:AA:501:C:O2'	1:AA:502:A:H5'	2.17	0.45
1:AA:1010:U:H2'	1:AA:1011:C:C6	2.51	0.45
1:AA:1197:A:P	1:AA:1197:A:H3'	2.57	0.45
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.81	0.45
1:AA:1410:A:H2'	1:AA:1411:C:H6	1.81	0.45
1:AA:1432:G:H5''	37:BP:106:ALA:HB2	1.98	0.45
6:AG:42:VAL:O	6:AG:46:LEU:HB2	2.15	0.45
8:AI:51:LEU:HD12	8:AI:51:LEU:N	2.32	0.45
8:AI:112:ARG:HB2	8:AI:112:ARG:HH11	1.77	0.45
12:AM:49:GLU:O	12:AM:53:ASP:HB3	2.17	0.45
13:AN:50:LEU:CG	13:AN:51:PRO:HD3	2.46	0.45
14:AO:24:THR:HB	14:AO:69:LEU:HD21	1.98	0.45
20:AB:27:LYS:C	20:AB:29:PHE:H	2.21	0.45
20:AB:67:LEU:HD23	20:AB:160:LEU:HG	1.99	0.45
23:BB:522:A:H2'	23:BB:523:C:C6	2.52	0.45
23:BB:711:G:O2'	23:BB:712:G:H5'	2.16	0.45
23:BB:873:C:H2'	23:BB:874:G:H8	1.82	0.45
23:BB:1081:U:H4'	52:BI:123:ALA:HB1	1.99	0.45
23:BB:1313:U:O2	23:BB:1313:U:H2'	2.16	0.45
23:BB:1733:G:H2'	23:BB:1734:G:H8	1.82	0.45
23:BB:2759:G:H4'	29:BG:34:ARG:HH22	1.81	0.45
24:BV:80:HIS:HB3	24:BV:83:LYS:O	2.17	0.45
25:BC:70:LYS:HG2	25:BC:71:ASP:N	2.32	0.45
25:BC:171:VAL:HA	25:BC:183:VAL:O	2.17	0.45
25:BC:225:ASN:H	25:BC:226:PRO:HD3	1.82	0.45
27:BE:87:ALA:O	27:BE:88:ARG:HG3	2.16	0.45
29:BG:136:ASP:OD1	29:BG:138:GLN:HB3	2.17	0.45
33:BL:91:ASP:CB	33:BL:123:ARG:HD2	2.47	0.45
36:BO:21:LEU:O	36:BO:42:PRO:HB3	2.17	0.45
39:BR:7:SER:CB	39:BR:21:ARG:HH22	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:47:VAL:HG22	39:BR:48:LYS:HG2	1.97	0.45
39:BR:58:VAL:HG13	39:BR:59:ILE:HG12	1.98	0.45
42:BU:23:LYS:H	42:BU:36:GLU:HG3	1.81	0.45
42:BU:49:PRO:HG2	42:BU:49:PRO:O	2.17	0.45
46:BZ:3:LYS:HD2	46:BZ:6:HIS:HB3	1.98	0.45
49:B2:12:ARG:O	49:B2:18:PHE:CG	2.70	0.45
52:BI:116:MET:HE2	52:BI:124:MET:HA	1.99	0.45
1:CA:5:U:H1'	1:CA:6:G:C2	2.52	0.45
1:CA:232:G:H2'	1:CA:233:C:O4'	2.16	0.45
1:CA:255:G:H5'	16:CQ:17:GLU:O	2.17	0.45
1:CA:426:U:H2'	1:CA:427:U:C6	2.52	0.45
1:CA:687:A:C2	1:CA:704:A:C5	3.05	0.45
1:CA:1135:U:H4'	1:CA:1136:C:OP1	2.16	0.45
1:CA:1503:A:C8	1:CA:1531:A:H1'	2.51	0.45
2:CC:143:LEU:HD22	2:CC:143:LEU:H	1.80	0.45
4:CE:108:GLY:O	4:CE:111:ARG:HB3	2.16	0.45
6:CG:113:LYS:HE2	6:CG:113:LYS:HA	1.98	0.45
9:CJ:15:HIS:O	9:CJ:18:ILE:HG22	2.16	0.45
15:CP:28:ARG:C	15:CP:30:GLY:H	2.20	0.45
21:CU:33:ARG:HB3	21:CU:34:ARG:H	1.60	0.45
22:DA:6:G:O2'	22:DA:7:G:H5'	2.16	0.45
22:DA:14:U:O2'	22:DA:107:G:H1'	2.16	0.45
22:DA:113:C:O2'	36:DO:47:VAL:HA	2.16	0.45
23:DB:24:G:H1'	40:DS:77:ASP:HB3	1.98	0.45
23:DB:105:C:H2'	23:DB:106:C:C6	2.52	0.45
23:DB:149:A:H2'	23:DB:150:U:C6	2.51	0.45
23:DB:544:C:O2'	23:DB:545:U:O4'	2.35	0.45
23:DB:948:C:H2'	23:DB:949:G:H8	1.81	0.45
23:DB:1120:G:H2'	23:DB:1121:C:C6	2.52	0.45
23:DB:1902:C:H2'	23:DB:1903:G:H5'	1.99	0.45
23:DB:2733:A:H3'	23:DB:2733:A:C8	2.51	0.45
24:DV:24:ASN:HB3	24:DV:45:ASP:OD1	2.17	0.45
25:DC:175:LEU:H	25:DC:175:LEU:HG	1.45	0.45
26:DD:33:ARG:HB2	26:DD:33:ARG:NH1	2.29	0.45
27:DE:116:ASP:OD1	27:DE:118:LEU:HD21	2.16	0.45
27:DE:139:LYS:HA	27:DE:143:LEU:HD21	1.98	0.45
29:DG:119:GLY:C	29:DG:120:ILE:HG13	2.37	0.45
31:DJ:135:GLN:OE1	31:DJ:135:GLN:HA	2.16	0.45
33:DL:77:ILE:HD12	33:DL:77:ILE:N	2.31	0.45
34:DM:53:MET:HA	34:DM:112:LEU:CD2	2.46	0.45
34:DM:57:VAL:HG12	34:DM:58:LYS:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DM:80:VAL:HG12	34:DM:81:ARG:H	1.82	0.45
36:DO:72:ALA:O	36:DO:76:LYS:HG3	2.17	0.45
36:DO:92:PHE:CG	36:DO:93:ASP:N	2.84	0.45
38:DQ:10:ARG:O	38:DQ:14:LYS:HB2	2.17	0.45
39:DR:11:GLN:HB3	39:DR:21:ARG:NH2	2.32	0.45
39:DR:14:VAL:HG21	39:DR:19:THR:HG23	1.99	0.45
40:DS:29:VAL:HG21	40:DS:69:LEU:C	2.37	0.45
40:DS:84:ARG:HB3	40:DS:96:ILE:CG2	2.46	0.45
42:DU:15:GLY:C	42:DU:17:ASP:H	2.20	0.45
42:DU:48:VAL:O	42:DU:49:PRO:C	2.50	0.45
43:DW:31:LEU:O	43:DW:32:ALA:HB3	2.17	0.45
44:DX:7:ARG:C	44:DX:8:GLU:HG3	2.35	0.45
46:DZ:33:ASN:HB3	46:DZ:46:GLY:CA	2.33	0.45
46:DZ:36:VAL:HG12	46:DZ:42:PRO:CB	2.47	0.45
1:AA:267:C:OP2	16:AQ:68:LYS:HD2	2.17	0.45
1:AA:432:A:H2'	1:AA:433:G:H5'	1.99	0.45
1:AA:692:U:H5	10:AK:27:ASN:HD22	1.64	0.45
1:AA:734:G:N2	17:AR:63:TYR:CE2	2.84	0.45
1:AA:890:G:O2'	1:AA:906:A:N6	2.49	0.45
1:AA:927:G:O2'	1:AA:928:G:H5'	2.16	0.45
1:AA:1110:A:H2'	1:AA:1111:A:H5'	1.99	0.45
2:AC:89:VAL:C	2:AC:91:ALA:H	2.19	0.45
2:AC:131:ARG:HB3	2:AC:131:ARG:NH1	2.31	0.45
5:AF:64:VAL:CG1	5:AF:65:GLU:H	2.15	0.45
8:AI:24:ASN:CA	8:AI:26:LYS:HZ2	2.30	0.45
8:AI:115:VAL:HG21	9:AJ:62:ARG:HB2	1.98	0.45
9:AJ:89:ARG:HA	9:AJ:89:ARG:CZ	2.47	0.45
11:AL:119:LYS:HG3	11:AL:119:LYS:O	2.16	0.45
14:AO:27:GLN:O	14:AO:31:LEU:HD23	2.16	0.45
22:BA:74:U:H2'	22:BA:75:G:C8	2.51	0.45
22:BA:76:G:H2'	22:BA:77:U:H6	1.82	0.45
23:BB:129:C:H2'	23:BB:130:C:C6	2.51	0.45
23:BB:425:G:H2'	23:BB:426:C:H6	1.82	0.45
23:BB:670:A:P	33:BL:47:ARG:HD3	2.57	0.45
23:BB:704:G:O2'	23:BB:727:A:N6	2.49	0.45
23:BB:710:U:H2'	23:BB:711:G:H8	1.82	0.45
23:BB:760:G:H4'	23:BB:1776:G:OP1	2.16	0.45
23:BB:780:G:H21	23:BB:783:A:H62	1.64	0.45
23:BB:948:C:H2'	23:BB:949:G:C8	2.52	0.45
23:BB:1328:A:H2'	23:BB:1330:C:C4	2.52	0.45
23:BB:1352:U:O2'	23:BB:1353:A:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1353:A:H2'	23:BB:1354:A:C8	2.52	0.45
23:BB:1733:G:H2'	23:BB:1734:G:C8	2.51	0.45
23:BB:2223:G:C2'	23:BB:2224:G:H5'	2.47	0.45
25:BC:21:PRO:HG2	25:BC:202:ARG:HH11	1.81	0.45
25:BC:242:HIS:N	25:BC:242:HIS:HD1	2.15	0.45
27:BE:72:SER:C	27:BE:73:ILE:HD13	2.37	0.45
27:BE:145:ASP:C	27:BE:147:LEU:H	2.20	0.45
27:BE:145:ASP:C	27:BE:147:LEU:N	2.70	0.45
27:BE:146:VAL:O	27:BE:147:LEU:CB	2.63	0.45
27:BE:148:ILE:H	27:BE:183:PHE:HB3	1.81	0.45
28:BF:18:GLU:HA	28:BF:18:GLU:OE2	2.17	0.45
28:BF:107:VAL:HG11	28:BF:116:LEU:HD21	1.99	0.45
28:BF:110:ILE:HG22	28:BF:111:ARG:N	2.32	0.45
29:BG:51:PHE:CD2	29:BG:64:ALA:HA	2.51	0.45
29:BG:97:VAL:HG11	29:BG:122:ALA:O	2.16	0.45
30:BH:65:ALA:O	30:BH:138:VAL:HG21	2.17	0.45
33:BL:40:SER:O	33:BL:41:ARG:HB2	2.17	0.45
35:BN:38:LEU:HG	35:BN:109:PRO:HB2	1.99	0.45
35:BN:67:PHE:HD2	35:BN:73:ASN:HD21	1.64	0.45
35:BN:87:PHE:HB2	35:BN:94:TYR:OH	2.16	0.45
35:BN:112:TYR:HE2	47:B0:53:VAL:HG22	1.80	0.45
37:BP:36:LYS:HD3	37:BP:37:LYS:H	1.82	0.45
39:BR:2:TYR:N	39:BR:46:GLU:HB2	2.30	0.45
40:BS:48:LYS:O	40:BS:52:GLU:HG3	2.16	0.45
41:BT:60:THR:HG22	41:BT:83:ALA:CB	2.47	0.45
51:B4:3:VAL:HG11	51:B4:35:GLN:HG2	1.98	0.45
52:BI:14:ALA:CA	52:BI:45:THR:HG21	2.42	0.45
52:BI:37:PHE:CZ	52:BI:58:ILE:HD11	2.51	0.45
52:BI:140:GLU:OE1	52:BI:140:GLU:HA	2.17	0.45
1:CA:155:A:H2'	1:CA:156:C:O4'	2.16	0.45
1:CA:619:U:O2	3:CD:129:VAL:HG13	2.17	0.45
1:CA:902:G:H2'	1:CA:903:G:H8	1.82	0.45
1:CA:1414:U:O2'	1:CA:1415:G:H5'	2.17	0.45
1:CA:1522:U:O2'	1:CA:1523:G:H5'	2.17	0.45
1:CA:1528:U:H2'	21:CU:46:ARG:HH22	1.81	0.45
4:CE:24:VAL:HG22	4:CE:29:ILE:HD11	1.99	0.45
4:CE:45:VAL:O	4:CE:71:ILE:HG22	2.17	0.45
4:CE:156:ARG:HH22	7:CH:100:ILE:HG23	1.82	0.45
6:CG:91:ARG:CB	6:CG:92:PRO:HD2	2.47	0.45
8:CI:8:THR:OG1	8:CI:9:GLY:N	2.50	0.45
12:CM:102:LYS:HE3	12:CM:103:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CQ:7:LEU:HD23	16:CQ:7:LEU:N	2.32	0.45
19:CT:73:ARG:O	19:CT:74:HIS:C	2.54	0.45
23:DB:72:U:O2'	23:DB:73:A:H5'	2.17	0.45
23:DB:327:G:O2'	23:DB:328:U:H5'	2.17	0.45
23:DB:554:U:H2'	23:DB:555:G:O4'	2.17	0.45
23:DB:728:G:O3'	25:DC:16:VAL:HG11	2.17	0.45
23:DB:776:G:H4'	23:DB:777:G:C5'	2.47	0.45
23:DB:973:A:H1'	23:DB:1188:U:C5	2.52	0.45
23:DB:981:A:N1	23:DB:2027:G:O2'	2.39	0.45
23:DB:1005:C:H2'	23:DB:1006:C:C6	2.52	0.45
23:DB:1029:A:H3'	23:DB:1030:C:H6	1.81	0.45
23:DB:1113:U:H5''	29:DG:2:ARG:HD3	1.99	0.45
23:DB:1198:U:H2'	23:DB:1199:U:H6	1.82	0.45
23:DB:1541:C:O2'	23:DB:1542:U:H5'	2.17	0.45
23:DB:2038:G:H2'	23:DB:2039:U:O4'	2.17	0.45
23:DB:2313:C:H2'	23:DB:2314:A:C8	2.52	0.45
23:DB:2454:G:O2'	23:DB:2455:G:H5'	2.17	0.45
23:DB:2468:A:H2'	23:DB:2476:A:C6	2.52	0.45
24:DV:48:MET:HA	24:DV:51:GLN:HG3	1.99	0.45
24:DV:93:ARG:HG2	24:DV:94:ALA:H	1.81	0.45
25:DC:258:SER:OG	25:DC:261:ARG:NH1	2.50	0.45
27:DE:166:LYS:HB3	27:DE:167:VAL:H	1.39	0.45
29:DG:117:PRO:HB2	29:DG:139:VAL:HG11	1.97	0.45
30:DH:66:ASN:HA	30:DH:138:VAL:CG2	2.47	0.45
30:DH:114:GLU:HB2	30:DH:133:GLN:O	2.17	0.45
31:DJ:28:LEU:O	31:DJ:28:LEU:HD22	2.17	0.45
31:DJ:35:ARG:CZ	31:DJ:40:HIS:H	2.28	0.45
31:DJ:69:ARG:HG3	31:DJ:69:ARG:NH1	2.31	0.45
32:DK:7:MET:HA	32:DK:7:MET:CE	2.46	0.45
34:DM:5:LYS:C	34:DM:6:ARG:O	2.48	0.45
36:DO:71:ALA:O	36:DO:74:VAL:HG22	2.17	0.45
37:DP:71:ARG:HB3	37:DP:72:VAL:HG13	1.99	0.45
38:DQ:69:ARG:HA	38:DQ:73:ILE:HG22	1.98	0.45
42:DU:43:LYS:HG2	42:DU:57:ILE:CG2	2.47	0.45
43:DW:35:ILE:HB	43:DW:67:LYS:NZ	2.31	0.45
43:DW:44:PHE:HB3	43:DW:77:LYS:O	2.16	0.45
43:DW:64:GLY:O	43:DW:65:LYS:HB2	2.17	0.45
46:DZ:30:HIS:HB2	46:DZ:48:GLN:HE21	1.81	0.45
46:DZ:61:ASN:C	46:DZ:63:ARG:H	2.20	0.45
50:D3:33:THR:O	50:D3:34:LYS:HD2	2.17	0.45
52:DI:17:ALA:O	52:DI:18:ASN:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DI:45:THR:C	52:DI:48:ILE:HG22	2.37	0.45
1:AA:652:U:H1'	1:AA:653:U:C5	2.52	0.45
1:AA:682:G:O2'	1:AA:683:G:H5'	2.18	0.45
1:AA:811:C:O2'	1:AA:901:A:N1	2.48	0.45
1:AA:834:U:H2'	1:AA:835:U:C6	2.52	0.45
1:AA:1008:U:H2'	1:AA:1009:U:C4'	2.47	0.45
1:AA:1051:C:H2'	1:AA:1052:U:H6	1.82	0.45
1:AA:1376:U:P	6:AG:24:LYS:HD3	2.57	0.45
1:AA:1438:G:C2'	1:AA:1439:G:H5'	2.47	0.45
3:AD:191:SER:O	3:AD:192:ALA:CB	2.65	0.45
5:AF:45:ARG:HG2	5:AF:46:GLN:N	2.31	0.45
7:AH:98:LEU:H	7:AH:98:LEU:HD12	1.82	0.45
7:AH:111:THR:HG23	7:AH:114:ALA:CB	2.44	0.45
10:AK:109:ILE:O	10:AK:110:THR:HG23	2.16	0.45
16:AQ:20:ILE:CD1	16:AQ:45:VAL:HB	2.47	0.45
16:AQ:26:ARG:HH21	16:AQ:39:ARG:NH2	2.15	0.45
22:BA:24:G:N7	22:BA:56:G:H2'	2.32	0.45
22:BA:102:G:O2'	22:BA:103:U:H5'	2.17	0.45
23:BB:843:G:H2'	23:BB:844:A:C8	2.52	0.45
23:BB:1373:A:OP1	23:BB:2213:U:O4	2.35	0.45
23:BB:1671:U:H2'	23:BB:1673:G:OP2	2.17	0.45
23:BB:1745:A:H2'	23:BB:1746:A:H8	1.82	0.45
23:BB:1750:G:O2'	23:BB:1751:U:H5'	2.17	0.45
23:BB:2348:U:O2'	23:BB:2349:G:H5'	2.16	0.45
23:BB:2759:G:H4'	29:BG:34:ARG:NH1	2.30	0.45
23:BB:2772:C:H2'	23:BB:2773:C:H6	1.82	0.45
25:BC:32:LEU:HA	25:BC:81:GLU:OE1	2.17	0.45
25:BC:143:VAL:CG1	25:BC:144:GLU:H	2.21	0.45
25:BC:155:ARG:O	25:BC:155:ARG:NE	2.50	0.45
25:BC:259:ASN:O	25:BC:260:LYS:HB2	2.17	0.45
28:BF:15:LEU:HD22	28:BF:28:PRO:HG3	1.99	0.45
28:BF:33:ILE:HG13	28:BF:34:THR:N	2.27	0.45
28:BF:133:GLU:HG3	28:BF:134:GLN:N	2.32	0.45
35:BN:37:THR:HB	35:BN:39:PRO:HD2	1.98	0.45
39:BR:41:ILE:O	39:BR:54:VAL:HA	2.17	0.45
40:BS:33:LEU:HD12	40:BS:37:THR:HB	1.99	0.45
41:BT:16:VAL:O	41:BT:16:VAL:HG22	2.17	0.45
42:BU:13:LEU:O	42:BU:15:GLY:N	2.49	0.45
43:BW:36:ILE:HD12	43:BW:70:VAL:CG2	2.46	0.45
43:BW:40:ARG:NH1	43:BW:68:PHE:CA	2.75	0.45
45:BY:16:LEU:CB	45:BY:17:PRO:CD	2.88	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:3:LYS:HA	46:BZ:47:LYS:HA	1.99	0.45
46:BZ:68:GLY:O	46:BZ:69:SER:C	2.56	0.45
51:B4:11:CYS:SG	51:B4:12:ARG:HD2	2.57	0.45
52:BI:12:VAL:HG23	52:BI:41:PHE:CE2	2.51	0.45
1:CA:123:U:OP1	1:CA:312:C:H5'	2.17	0.45
1:CA:147:G:H2'	1:CA:148:G:C8	2.52	0.45
1:CA:175:C:H2'	1:CA:176:C:H6	1.81	0.45
1:CA:255:G:H2'	1:CA:256:U:H6	1.81	0.45
1:CA:382:A:H2'	1:CA:383:A:C8	2.51	0.45
1:CA:554:A:H2'	1:CA:555:U:C6	2.52	0.45
1:CA:591:U:H2'	1:CA:592:G:H8	1.81	0.45
1:CA:598:U:H2'	1:CA:599:C:C6	2.51	0.45
1:CA:1275:A:H2'	1:CA:1276:G:C8	2.51	0.45
1:CA:1297:G:H4'	1:CA:1298:U:H5'	1.98	0.45
1:CA:1382:C:H2'	1:CA:1383:C:C6	2.52	0.45
2:CC:51:VAL:HG11	2:CC:67:ILE:HD11	1.99	0.45
2:CC:52:SER:O	2:CC:53:ARG:HG3	2.17	0.45
6:CG:95:ARG:O	6:CG:99:ALA:HB2	2.16	0.45
8:CI:49:GLN:O	8:CI:53:LEU:HD23	2.17	0.45
9:CJ:7:ARG:O	9:CJ:100:ILE:HA	2.17	0.45
9:CJ:46:LYS:HA	9:CJ:68:ARG:HA	1.99	0.45
10:CK:59:PRO:HA	10:CK:91:GLY:N	2.32	0.45
13:CN:50:LEU:CD1	13:CN:51:PRO:HD3	2.46	0.45
14:CO:69:LEU:HD12	14:CO:77:TYR:N	2.32	0.45
15:CP:48:GLU:HG2	15:CP:49:GLY:N	2.32	0.45
16:CQ:32:ILE:O	16:CQ:32:ILE:HG12	2.17	0.45
18:CS:21:ALA:HA	18:CS:24:SER:OG	2.17	0.45
20:CB:61:SER:HG	20:CB:62:ARG:HH11	1.64	0.45
23:DB:198:C:H5'	23:DB:2244:U:OP1	2.17	0.45
23:DB:480:A:H4'	42:DU:40:LEU:HD13	1.99	0.45
23:DB:621:A:H2'	23:DB:622:G:O4'	2.16	0.45
23:DB:633:A:H2'	23:DB:634:C:C5'	2.46	0.45
23:DB:1042:G:H2'	23:DB:1043:C:H6	1.80	0.45
23:DB:1099:G:H5'	52:DI:4:VAL:CG1	2.47	0.45
23:DB:1252:G:N2	38:DQ:32:ARG:NE	2.62	0.45
23:DB:1266:G:OP1	47:D0:15:ARG:NH2	2.45	0.45
23:DB:1515:A:H5'	23:DB:1557:C:C5'	2.47	0.45
23:DB:1683:U:O2'	23:DB:1684:G:H5'	2.16	0.45
23:DB:1818:U:HO2'	23:DB:1819:A:P	2.39	0.45
23:DB:2080:A:O2'	46:DZ:21:VAL:HG21	2.16	0.45
23:DB:2230:G:N3	46:DZ:30:HIS:NE2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2477:U:H4'	23:DB:2479:U:O4	2.16	0.45
23:DB:2675:A:N1	23:DB:2732:G:O6	2.49	0.45
23:DB:2849:U:O4	37:DP:96:LEU:HD21	2.17	0.45
25:DC:259:ASN:HB3	25:DC:260:LYS:H	1.55	0.45
26:DD:172:VAL:CG1	26:DD:175:LEU:HD11	2.47	0.45
27:DE:172:ALA:O	27:DE:173:THR:CB	2.64	0.45
28:DF:130:GLY:HA2	28:DF:152:ASP:O	2.17	0.45
29:DG:12:ALA:C	29:DG:14:VAL:H	2.19	0.45
30:DH:68:ARG:HH11	30:DH:68:ARG:HB3	1.81	0.45
31:DJ:23:LYS:HE3	31:DJ:63:ALA:CB	2.47	0.45
32:DK:12:ASP:CG	32:DK:13:ASN:N	2.71	0.45
32:DK:101:GLY:O	32:DK:119:ALA:HB1	2.17	0.45
33:DL:140:GLY:O	33:DL:141:LYS:HB2	2.16	0.45
34:DM:5:LYS:HZ1	34:DM:8:LYS:CG	2.30	0.45
37:DP:55:HIS:O	37:DP:57:ALA:N	2.50	0.45
38:DQ:45:ALA:O	38:DQ:46:TYR:C	2.55	0.45
41:DT:82:LYS:HG3	41:DT:83:ALA:H	1.82	0.45
45:DY:2:LYS:CA	45:DY:43:ILE:HG13	2.47	0.45
50:D3:16:THR:HG23	50:D3:20:GLY:O	2.17	0.45
50:D3:22:LYS:HA	50:D3:46:LYS:O	2.17	0.45
1:AA:143:A:H2	1:AA:220:G:H22	1.65	0.44
1:AA:736:C:H2'	1:AA:737:C:H6	1.82	0.44
1:AA:1238:A:C8	1:AA:1303:C:H1'	2.52	0.44
1:AA:1246:A:H2'	1:AA:1247:U:O4'	2.17	0.44
1:AA:1320:C:H2'	1:AA:1321:U:O4'	2.16	0.44
3:AD:113:ALA:O	3:AD:117:VAL:HG23	2.17	0.44
5:AF:7:VAL:HB	5:AF:61:LEU:HD22	2.00	0.44
5:AF:7:VAL:HG11	17:AR:64:LEU:HD21	1.99	0.44
8:AI:66:VAL:CG2	8:AI:74:GLN:HG3	2.47	0.44
13:AN:45:LEU:O	13:AN:48:GLN:HB3	2.16	0.44
15:AP:70:ARG:O	15:AP:74:LEU:HG	2.18	0.44
20:AB:132:GLU:HG3	20:AB:136:ARG:HD2	1.99	0.44
20:AB:134:LEU:HA	20:AB:137:THR:OG1	2.17	0.44
21:AU:3:ILE:HA	21:AU:19:LYS:HE3	1.97	0.44
21:AU:14:ALA:CA	21:AU:16:ARG:HH11	1.88	0.44
23:BB:49:A:OP1	23:BB:51:G:H5'	2.17	0.44
23:BB:69:C:O2'	23:BB:70:G:H5'	2.17	0.44
23:BB:231:A:H3'	23:BB:232:G:C8	2.52	0.44
23:BB:310:A:OP1	42:BU:15:GLY:HA2	2.17	0.44
23:BB:633:A:H2'	23:BB:634:C:H5'	1.98	0.44
23:BB:962:G:H21	23:BB:2250:G:H1	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:977:G:C2'	23:BB:978:G:H5'	2.47	0.44
23:BB:1195:G:N3	23:BB:1226:A:H2	2.14	0.44
23:BB:1196:C:H2'	23:BB:1197:G:H8	1.82	0.44
23:BB:1432:G:O2'	23:BB:1433:A:H5'	2.16	0.44
23:BB:1459:G:C2'	23:BB:1460:U:H5'	2.47	0.44
23:BB:1511:G:H2'	23:BB:1512:C:H6	1.81	0.44
23:BB:1783:A:H5'	23:BB:2608:G:H4'	1.99	0.44
23:BB:1791:A:C4'	25:BC:207:ALA:H	2.30	0.44
23:BB:2014:A:OP1	40:BS:95:ARG:NE	2.48	0.44
23:BB:2147:A:C5'	23:BB:2148:G:H5'	2.44	0.44
23:BB:2236:U:O2'	23:BB:2237:G:H5'	2.18	0.44
23:BB:2467:C:C1'	34:BM:118:LYS:HG2	2.47	0.44
23:BB:2750:A:H3'	29:BG:3:VAL:CG2	2.47	0.44
24:BV:81:PRO:HB2	24:BV:82:TYR:HD2	1.81	0.44
26:BD:141:ARG:O	26:BD:142:VAL:C	2.54	0.44
26:BD:205:PRO:O	26:BD:206:ALA:HB2	2.17	0.44
28:BF:21:TYR:HB2	28:BF:22:ASN:H	1.58	0.44
28:BF:103:ILE:HA	28:BF:107:VAL:CG2	2.47	0.44
29:BG:22:VAL:HG23	29:BG:33:THR:HG23	1.99	0.44
31:BJ:24:THR:O	31:BJ:25:LEU:HD22	2.17	0.44
33:BL:76:GLU:HA	33:BL:109:LYS:O	2.17	0.44
34:BM:101:VAL:C	34:BM:102:LEU:HD12	2.37	0.44
34:BM:114:ARG:HH21	34:BM:125:PRO:HA	1.81	0.44
35:BN:32:GLU:HA	35:BN:115:LEU:CD2	2.47	0.44
35:BN:103:ARG:HB2	35:BN:110:MET:SD	2.57	0.44
36:BO:67:ASN:CA	36:BO:71:ALA:HB3	2.41	0.44
38:BQ:91:ARG:HD2	38:BQ:91:ARG:N	2.28	0.44
38:BQ:107:ALA:O	39:BR:52:PRO:HG3	2.17	0.44
39:BR:88:GLY:O	39:BR:89:HIS:HB2	2.17	0.44
40:BS:31:GLN:C	40:BS:33:LEU:N	2.70	0.44
42:BU:78:LYS:CE	42:BU:96:LYS:HB2	2.34	0.44
42:BU:84:PHE:CA	42:BU:94:PHE:HD1	2.30	0.44
46:BZ:15:SER:HB3	46:BZ:23:LYS:HD3	1.97	0.44
46:BZ:66:ILE:O	46:BZ:68:GLY:N	2.50	0.44
50:B3:28:LEU:HB2	50:B3:32:LEU:O	2.17	0.44
52:BI:7:TYR:CB	52:BI:59:THR:HA	2.48	0.44
52:BI:7:TYR:CD1	52:BI:7:TYR:C	2.91	0.44
1:CA:84:U:O2'	1:CA:86:G:N2	2.50	0.44
1:CA:90:C:H2'	1:CA:91:U:H6	1.81	0.44
1:CA:374:A:H2'	1:CA:375:U:C6	2.52	0.44
1:CA:778:G:O2'	1:CA:779:C:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1405:G:O2'	1:CA:1406:U:H5'	2.17	0.44
2:CC:53:ARG:HA	2:CC:113:LYS:CE	2.46	0.44
2:CC:54:ILE:HB	2:CC:67:ILE:CD1	2.47	0.44
3:CD:30:LYS:HD3	3:CD:30:LYS:N	2.31	0.44
3:CD:44:LYS:HZ2	3:CD:45:PRO:C	2.21	0.44
3:CD:53:GLN:HB3	3:CD:202:LEU:HB2	1.99	0.44
4:CE:146:MET:SD	4:CE:146:MET:N	2.90	0.44
5:CF:25:TYR:O	5:CF:29:ILE:HG13	2.18	0.44
9:CJ:7:ARG:HD2	9:CJ:101:SER:OG	2.17	0.44
10:CK:80:ASN:OD1	10:CK:80:ASN:N	2.50	0.44
11:CL:73:LEU:HA	11:CL:77:SER:OG	2.17	0.44
14:CO:80:LEU:O	14:CO:84:LEU:HD13	2.17	0.44
19:CT:63:LYS:O	19:CT:63:LYS:HD3	2.17	0.44
22:DA:2:G:H2'	22:DA:3:C:C6	2.52	0.44
22:DA:14:U:H3'	22:DA:15:A:C5'	2.47	0.44
23:DB:65:U:OP1	41:DT:76:ARG:HB3	2.16	0.44
23:DB:84:A:OP2	42:DU:91:LYS:HD2	2.16	0.44
23:DB:279:A:H3'	23:DB:280:U:C6	2.52	0.44
23:DB:492:A:H2	40:DS:46:LEU:HD22	1.82	0.44
23:DB:669:G:O2'	23:DB:670:A:H5'	2.17	0.44
23:DB:764:A:H5''	25:DC:208:GLY:HA3	1.98	0.44
23:DB:912:C:O2'	23:DB:913:U:H5'	2.18	0.44
23:DB:929:U:O2	45:DY:25:GLY:HA2	2.17	0.44
23:DB:1188:U:H5''	39:DR:84:ARG:HG2	1.99	0.44
23:DB:2108:A:H2'	23:DB:2108:A:N3	2.31	0.44
23:DB:2328:A:H2'	23:DB:2329:U:H6	1.77	0.44
23:DB:2597:G:OP1	25:DC:239:PHE:CD2	2.70	0.44
23:DB:2820:A:HO2'	23:DB:2821:A:P	2.40	0.44
23:DB:2874:C:P	35:DN:5:LYS:HD3	2.57	0.44
24:DV:80:HIS:HD2	24:DV:83:LYS:H	1.65	0.44
25:DC:20:ASN:OD1	25:DC:202:ARG:HB3	2.17	0.44
25:DC:104:LEU:HD13	25:DC:156:SER:CB	2.47	0.44
26:DD:15:PHE:C	26:DD:17:GLU:H	2.19	0.44
29:DG:75:VAL:O	29:DG:78:VAL:HG12	2.17	0.44
29:DG:91:VAL:HG12	29:DG:159:LYS:HZ1	1.81	0.44
31:DJ:109:LEU:HD22	31:DJ:115:GLY:O	2.17	0.44
34:DM:40:ARG:HA	34:DM:92:TRP:HE1	1.83	0.44
38:DQ:83:LYS:C	38:DQ:85:ALA:H	2.21	0.44
38:DQ:91:ARG:HD2	38:DQ:91:ARG:H	1.83	0.44
40:DS:72:THR:HG23	40:DS:73:LYS:N	2.32	0.44
42:DU:48:VAL:HG13	42:DU:51:LEU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DU:82:VAL:HB	42:DU:94:PHE:CD1	2.52	0.44
43:DW:38:ARG:HB3	43:DW:68:PHE:CZ	2.52	0.44
44:DX:44:LYS:CE	44:DX:47:ARG:HB2	2.47	0.44
49:D2:12:ARG:NH2	49:D2:16:HIS:HB2	2.31	0.44
49:D2:18:PHE:CD2	49:D2:44:VAL:HB	2.52	0.44
52:DI:138:VAL:HG12	52:DI:139:VAL:N	2.31	0.44
1:AA:113:G:O4'	1:AA:354:G:H4'	2.18	0.44
1:AA:251:G:H4'	1:AA:252:U:C5'	2.48	0.44
1:AA:1126:U:O2'	1:AA:1280:A:H2'	2.17	0.44
1:AA:1515:G:O2'	1:AA:1516:G:H5'	2.17	0.44
2:AC:5:HIS:O	2:AC:9:ILE:HG22	2.17	0.44
2:AC:112:ALA:HB1	2:AC:199:VAL:CG2	2.47	0.44
3:AD:75:TYR:CE1	3:AD:203:TYR:HB3	2.51	0.44
3:AD:152:SER:O	3:AD:155:LYS:HG3	2.17	0.44
4:AE:85:LYS:HE2	4:AE:92:ARG:HH11	1.82	0.44
6:AG:102:TRP:CD1	6:AG:102:TRP:N	2.83	0.44
8:AI:58:GLU:H	8:AI:58:GLU:HG2	1.38	0.44
11:AL:52:CYS:SG	11:AL:66:ILE:HD11	2.57	0.44
14:AO:87:ARG:HA	14:AO:87:ARG:HH11	1.78	0.44
15:AP:20:VAL:HG22	15:AP:21:VAL:H	1.83	0.44
16:AQ:19:SER:O	16:AQ:20:ILE:HG23	2.16	0.44
17:AR:31:TYR:CG	17:AR:54:LEU:HD21	2.52	0.44
20:AB:119:GLN:O	20:AB:125:PHE:HB3	2.17	0.44
23:BB:438:G:H2'	23:BB:439:A:H8	1.82	0.44
23:BB:673:C:O2'	23:BB:674:G:H5'	2.17	0.44
23:BB:770:G:P	49:B2:11:LYS:HD3	2.56	0.44
23:BB:1239:G:H2'	23:BB:1240:U:C6	2.52	0.44
23:BB:1531:C:H2'	23:BB:1532:A:H8	1.78	0.44
23:BB:1708:C:H2'	23:BB:1709:U:C6	2.52	0.44
23:BB:1750:G:O2'	23:BB:2860:A:H2	2.00	0.44
23:BB:1820:U:C4	25:BC:158:GLY:HA3	2.52	0.44
23:BB:1824:G:OP1	25:BC:52:HIS:CE1	2.70	0.44
23:BB:2291:U:H2'	23:BB:2292:U:H6	1.81	0.44
23:BB:2340:A:H2'	23:BB:2341:G:H8	1.82	0.44
23:BB:2553:G:H2'	23:BB:2554:U:H4'	1.99	0.44
23:BB:2576:G:P	26:BD:149:ASN:HB2	2.57	0.44
23:BB:2628:C:O2'	23:BB:2781:A:H2'	2.17	0.44
23:BB:2742:G:O2'	23:BB:2743:U:H5'	2.17	0.44
25:BC:258:SER:HB2	25:BC:261:ARG:HH12	1.82	0.44
31:BJ:102:GLU:HG3	31:BJ:124:VAL:HG11	1.99	0.44
32:BK:5:GLN:O	32:BK:6:THR:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:82:LEU:O	33:BL:83:ALA:HB3	2.17	0.44
37:BP:92:ARG:NE	37:BP:110:LYS:HB3	2.32	0.44
38:BQ:19:GLN:O	38:BQ:20:ALA:C	2.55	0.44
42:BU:42:LYS:O	42:BU:43:LYS:HB3	2.17	0.44
42:BU:71:ILE:HG23	42:BU:72:PHE:N	2.32	0.44
43:BW:52:CYS:HB2	43:BW:53:GLY:H	1.52	0.44
44:BX:11:VAL:HG22	44:BX:11:VAL:O	2.17	0.44
45:BY:22:THR:O	45:BY:26:LEU:N	2.50	0.44
47:B0:27:LEU:O	47:B0:36:LYS:HB3	2.16	0.44
1:CA:25:C:H2'	1:CA:26:A:C8	2.52	0.44
1:CA:71:A:O2'	1:CA:72:A:H5''	2.17	0.44
1:CA:448:A:H2'	1:CA:449:G:C8	2.52	0.44
1:CA:489:C:H2'	1:CA:490:C:C6	2.52	0.44
1:CA:735:C:OP1	17:CR:56:ARG:CZ	2.65	0.44
1:CA:834:U:H2'	1:CA:835:U:C6	2.52	0.44
1:CA:844:G:H2'	1:CA:845:A:H5''	1.99	0.44
1:CA:1187:G:H2'	1:CA:1188:A:O4'	2.17	0.44
1:CA:1271:A:H2'	1:CA:1272:G:H8	1.81	0.44
3:CD:28:ASP:HB3	3:CD:33:ILE:HB	2.00	0.44
5:CF:12:PRO:HD3	5:CF:56:LYS:O	2.17	0.44
9:CJ:33:GLY:O	9:CJ:34:ALA:HB2	2.16	0.44
9:CJ:82:LYS:N	9:CJ:82:LYS:HD2	2.31	0.44
12:CM:56:ARG:CZ	12:CM:56:ARG:HB2	2.47	0.44
12:CM:96:VAL:C	12:CM:98:GLY:H	2.20	0.44
13:CN:53:ASP:HA	13:CN:58:ARG:HD2	2.00	0.44
19:CT:20:ASN:O	19:CT:24:ARG:HB2	2.18	0.44
19:CT:43:LYS:HB3	19:CT:86:ALA:HB3	2.00	0.44
20:CB:69:VAL:O	20:CB:162:VAL:HA	2.17	0.44
23:DB:758:C:O2	23:DB:1981:A:H2	2.00	0.44
23:DB:1399:C:H2'	23:DB:1400:U:C6	2.52	0.44
23:DB:1685:C:H2'	23:DB:1686:C:H6	1.82	0.44
23:DB:1708:C:H2'	23:DB:1709:U:C6	2.53	0.44
23:DB:1724:G:H2'	23:DB:1725:U:C6	2.52	0.44
23:DB:1824:G:O2'	25:DC:244:VAL:CG2	2.65	0.44
23:DB:2025:C:P	26:DD:154:LYS:HZ1	2.40	0.44
23:DB:2038:G:H2'	23:DB:2039:U:C6	2.53	0.44
23:DB:2221:G:H2'	23:DB:2222:C:C6	2.52	0.44
23:DB:2520:C:C6	23:DB:2567:G:H1'	2.52	0.44
23:DB:2686:G:H2'	23:DB:2687:U:H6	1.82	0.44
24:DV:43:ASP:OD2	24:DV:46:LYS:HB2	2.18	0.44
25:DC:91:ALA:O	25:DC:102:TYR:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:124:LYS:HE2	25:DC:125:PRO:HD2	1.99	0.44
27:DE:14:VAL:HG12	27:DE:16:GLU:H	1.82	0.44
27:DE:48:THR:CG2	27:DE:85:PHE:N	2.77	0.44
28:DF:86:CYS:O	28:DF:88:VAL:HG23	2.17	0.44
29:DG:36:LEU:HD13	29:DG:40:VAL:HG11	1.99	0.44
29:DG:171:LYS:CD	29:DG:174:LYS:HD3	2.37	0.44
31:DJ:7:LYS:CE	31:DJ:45:THR:HG21	2.47	0.44
31:DJ:58:ASN:O	31:DJ:59:ALA:HB3	2.18	0.44
32:DK:107:LEU:C	32:DK:109:SER:H	2.19	0.44
34:DM:9:PHE:CE2	34:DM:11:LYS:HG2	2.52	0.44
34:DM:123:LYS:NZ	34:DM:123:LYS:HB3	2.32	0.44
38:DQ:58:GLN:HE21	38:DQ:58:GLN:HB2	1.54	0.44
38:DQ:87:VAL:O	39:DR:54:VAL:HG21	2.17	0.44
38:DQ:111:LYS:HE2	39:DR:52:PRO:HG3	2.00	0.44
39:DR:37:GLU:HG2	39:DR:63:VAL:N	2.32	0.44
40:DS:87:PRO:O	40:DS:88:ARG:CB	2.65	0.44
44:DX:4:LYS:HG3	44:DX:7:ARG:NE	2.27	0.44
50:D3:24:LYS:HB3	50:D3:24:LYS:HZ2	1.82	0.44
52:DI:96:LYS:O	52:DI:96:LYS:HG3	2.17	0.44
1:AA:234:C:H2'	1:AA:235:C:C6	2.52	0.44
1:AA:392:C:H2'	1:AA:393:A:H8	1.82	0.44
1:AA:394:G:H2'	1:AA:395:C:H6	1.82	0.44
1:AA:397:A:H3'	1:AA:397:A:N3	2.33	0.44
1:AA:397:A:H5'	1:AA:398:U:OP1	2.18	0.44
1:AA:657:U:H4'	14:AO:27:GLN:HG3	1.99	0.44
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.32	0.44
1:AA:1238:A:H2	1:AA:1241:G:H1'	1.83	0.44
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.32	0.44
3:AD:77:GLU:OE1	3:AD:80:ARG:NH2	2.48	0.44
3:AD:201:GLU:OE1	4:AE:104:ILE:HG22	2.17	0.44
4:AE:84:VAL:HG21	4:AE:142:GLY:O	2.15	0.44
9:AJ:81:GLU:O	9:AJ:85:ASP:HB2	2.18	0.44
10:AK:124:LYS:O	21:AU:33:ARG:NH2	2.51	0.44
11:AL:106:VAL:CG1	11:AL:116:TYR:HB3	2.47	0.44
15:AP:7:ALA:O	15:AP:17:TYR:HA	2.17	0.44
16:AQ:62:GLU:HG3	16:AQ:72:TRP:CH2	2.53	0.44
16:AQ:80:LYS:HE3	16:AQ:80:LYS:H	1.82	0.44
20:AB:67:LEU:HD23	20:AB:160:LEU:CG	2.48	0.44
23:BB:37:C:C2	27:BE:46:GLN:OE1	2.70	0.44
23:BB:466:A:H2	23:BB:795:C:O2	1.99	0.44
23:BB:581:C:H2'	23:BB:582:A:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:597:G:H4'	33:BL:21:ARG:HD2	1.99	0.44
23:BB:968:C:O2'	45:BY:16:LEU:HD23	2.18	0.44
23:BB:1047:G:HO2'	23:BB:1048:A:P	2.39	0.44
23:BB:1179:G:O2'	23:BB:1180:U:H5'	2.18	0.44
23:BB:1341:G:H5'	41:BT:61:LEU:HD22	1.99	0.44
23:BB:1585:C:H2'	23:BB:1586:A:O4'	2.17	0.44
23:BB:1854:A:H2'	23:BB:1855:U:O4'	2.16	0.44
23:BB:2262:U:H2'	23:BB:2263:C:C6	2.52	0.44
23:BB:2647:U:O2'	23:BB:2648:G:H5'	2.17	0.44
23:BB:2812:G:H2'	23:BB:2813:A:O4'	2.17	0.44
23:BB:2848:G:N9	37:BP:96:LEU:HD23	2.32	0.44
23:BB:2876:G:H4'	37:BP:2:ASN:HA	1.98	0.44
23:BB:2889:C:H2'	23:BB:2890:G:C8	2.52	0.44
24:BV:30:ILE:O	24:BV:37:PRO:HA	2.17	0.44
25:BC:115:ILE:HA	25:BC:126:GLY:HA3	1.99	0.44
25:BC:137:GLY:C	25:BC:139:THR:N	2.69	0.44
25:BC:207:ALA:HA	25:BC:211:ARG:HB2	1.98	0.44
25:BC:231:HIS:CD2	25:BC:242:HIS:HB3	2.53	0.44
26:BD:33:ARG:C	26:BD:35:THR:H	2.21	0.44
27:BE:6:LYS:HZ1	27:BE:119:ILE:N	2.15	0.44
30:BH:50:ARG:O	30:BH:50:ARG:HG2	2.17	0.44
30:BH:116:ARG:O	30:BH:117:LEU:HG	2.16	0.44
31:BJ:25:LEU:HD23	31:BJ:64:VAL:HA	1.98	0.44
31:BJ:92:MET:O	31:BJ:95:ARG:HG3	2.17	0.44
33:BL:72:ALA:HB3	33:BL:106:GLU:OE2	2.17	0.44
33:BL:109:LYS:H	33:BL:126:ARG:HB3	1.82	0.44
34:BM:58:LYS:C	34:BM:60:GLN:N	2.71	0.44
34:BM:71:LYS:HG2	34:BM:92:TRP:O	2.17	0.44
34:BM:98:PRO:HG2	34:BM:99:GLY:H	1.82	0.44
34:BM:117:PHE:O	34:BM:120:ALA:HB3	2.18	0.44
35:BN:75:ILE:HD13	35:BN:75:ILE:C	2.38	0.44
36:BO:55:GLU:HB2	36:BO:61:GLN:HA	1.99	0.44
38:BQ:102:LYS:H	38:BQ:102:LYS:CD	2.29	0.44
39:BR:22:LEU:O	39:BR:96:VAL:HG13	2.16	0.44
43:BW:66:VAL:O	43:BW:67:LYS:C	2.56	0.44
45:BY:50:VAL:CA	45:BY:53:MET:HB2	2.48	0.44
1:CA:86:G:O2'	1:CA:87:C:P	2.75	0.44
1:CA:392:C:H2'	1:CA:393:A:H8	1.82	0.44
1:CA:412:A:H1'	1:CA:413:G:C8	2.43	0.44
1:CA:471:U:H2'	1:CA:472:U:C6	2.51	0.44
1:CA:828:U:H2'	1:CA:829:G:O5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1308:U:OP2	12:CM:97:ARG:HD3	2.17	0.44
1:CA:1343:G:H4'	8:CI:123:ARG:O	2.18	0.44
2:CC:123:LEU:HD23	2:CC:195:ILE:HD12	1.98	0.44
3:CD:6:PRO:HG2	3:CD:9:LYS:HE2	2.00	0.44
4:CE:87:VAL:O	4:CE:88:HIS:HB3	2.18	0.44
10:CK:113:THR:HG21	21:CU:28:LEU:CD1	2.32	0.44
12:CM:80:MET:HA	12:CM:87:GLY:CA	2.48	0.44
14:CO:65:LEU:O	14:CO:68:TYR:HB3	2.18	0.44
17:CR:52:ARG:O	17:CR:56:ARG:HG3	2.17	0.44
18:CS:43:MET:O	18:CS:61:VAL:HB	2.17	0.44
23:DB:420:C:H2'	23:DB:421:C:H6	1.82	0.44
23:DB:438:G:O2'	23:DB:439:A:H5'	2.17	0.44
23:DB:743:A:C2'	23:DB:744:U:H5'	2.46	0.44
23:DB:1007:C:H5''	31:DJ:37:ARG:NH1	2.30	0.44
23:DB:1092:C:O2'	23:DB:1093:G:H5'	2.18	0.44
23:DB:1441:G:O2'	23:DB:1442:U:H5'	2.18	0.44
23:DB:1454:C:H1'	35:DN:60:VAL:HG13	2.00	0.44
23:DB:1588:G:H2'	23:DB:1589:U:C6	2.53	0.44
23:DB:1828:G:O6	25:DC:219:VAL:HG11	2.17	0.44
23:DB:1847:A:H4'	23:DB:1848:A:H8	1.82	0.44
23:DB:2717:C:O2'	37:DP:95:LYS:HE3	2.16	0.44
27:DE:149:ILE:HD11	27:DE:187:VAL:N	2.21	0.44
27:DE:151:GLY:O	27:DE:171:ASP:HA	2.18	0.44
28:DF:36:ASN:O	28:DF:151:LEU:HA	2.17	0.44
28:DF:37:MET:N	28:DF:86:CYS:SG	2.90	0.44
30:DH:70:GLU:C	30:DH:72:ILE:H	2.20	0.44
31:DJ:5:THR:HG21	31:DJ:7:LYS:HZ2	1.81	0.44
31:DJ:32:LEU:O	31:DJ:36:LEU:HD13	2.17	0.44
33:DL:54:GLN:HG2	33:DL:57:LEU:HD23	1.99	0.44
33:DL:58:TYR:HB3	50:D3:13:PHE:HE1	1.80	0.44
33:DL:77:ILE:HG12	33:DL:108:ALA:O	2.17	0.44
36:DO:18:LEU:HD13	43:DW:76:ARG:NH2	2.32	0.44
37:DP:32:VAL:H	37:DP:81:ASP:HA	1.82	0.44
38:DQ:13:HIS:O	38:DQ:16:ILE:HG12	2.17	0.44
38:DQ:35:PHE:O	38:DQ:38:VAL:HG22	2.17	0.44
40:DS:5:ALA:HB3	40:DS:105:VAL:HG13	1.99	0.44
45:DY:26:LEU:CB	45:DY:28:LEU:HD13	2.45	0.44
46:DZ:59:ARG:C	46:DZ:61:ASN:N	2.70	0.44
52:DI:10:LEU:HD12	52:DI:10:LEU:C	2.38	0.44
1:AA:71:A:N1	1:AA:99:C:H1'	2.32	0.44
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:28:A:N6	23:BB:512:G:O2'	2.51	0.44
23:BB:559:G:H2'	23:BB:560:C:O4'	2.17	0.44
23:BB:650:C:O3'	50:B3:16:THR:HB	2.16	0.44
23:BB:1315:C:H2'	23:BB:1316:U:C6	2.53	0.44
23:BB:1456:G:O2'	23:BB:1457:U:H5'	2.16	0.44
23:BB:1511:G:H2'	23:BB:1512:C:C6	2.53	0.44
23:BB:1704:C:H2'	23:BB:1705:A:C8	2.53	0.44
23:BB:1739:A:H2'	23:BB:1740:G:H8	1.81	0.44
23:BB:2182:U:H2'	23:BB:2183:A:C8	2.53	0.44
23:BB:2468:A:H2'	23:BB:2476:A:C6	2.52	0.44
23:BB:2576:G:OP2	26:BD:149:ASN:HB2	2.17	0.44
23:BB:2747:G:O6	23:BB:2755:C:H5''	2.17	0.44
23:BB:2799:A:H4'	23:BB:2800:A:C8	2.52	0.44
25:BC:64:VAL:HB	25:BC:65:ASP:H	1.33	0.44
25:BC:131:MET:HE1	25:BC:143:VAL:HG11	1.98	0.44
26:BD:120:GLY:H	26:BD:123:LYS:HB2	1.82	0.44
26:BD:170:VAL:CG1	26:BD:194:PRO:HG2	2.46	0.44
26:BD:172:VAL:HG23	26:BD:173:GLN:N	2.32	0.44
27:BE:1:MET:HG3	27:BE:2:GLU:N	2.33	0.44
27:BE:46:GLN:HB3	27:BE:47:LYS:H	1.63	0.44
28:BF:56:LEU:HA	28:BF:59:ILE:CG2	2.48	0.44
28:BF:172:PHE:CD1	28:BF:173:ASP:N	2.84	0.44
29:BG:89:VAL:O	29:BG:160:GLY:N	2.50	0.44
30:BH:19:VAL:O	30:BH:20:ASN:C	2.54	0.44
33:BL:110:VAL:HB	33:BL:126:ARG:HH22	1.76	0.44
35:BN:70:THR:HG21	35:BN:75:ILE:CG2	2.44	0.44
37:BP:31:VAL:HB	37:BP:43:GLU:O	2.17	0.44
42:BU:6:ARG:O	42:BU:8:ASP:N	2.51	0.44
43:BW:11:ASN:OD1	43:BW:12:GLY:N	2.45	0.44
46:BZ:66:ILE:O	46:BZ:69:SER:O	2.35	0.44
52:BI:27:LEU:O	52:BI:30:GLN:HB2	2.17	0.44
1:CA:386:C:C2'	1:CA:387:U:H5'	2.47	0.44
1:CA:491:G:H2'	1:CA:492:C:C6	2.52	0.44
1:CA:677:U:H2'	1:CA:678:U:H6	1.82	0.44
1:CA:691:G:H2'	1:CA:692:U:C6	2.53	0.44
1:CA:992:U:H1'	1:CA:993:G:C2	2.52	0.44
1:CA:1250:A:H2'	1:CA:1251:A:H8	1.81	0.44
1:CA:1525:G:O2'	1:CA:1526:G:H5'	2.17	0.44
3:CD:33:ILE:O	3:CD:34:GLU:C	2.55	0.44
3:CD:121:ALA:C	3:CD:145:ARG:HG3	2.38	0.44
4:CE:32:PHE:CE2	4:CE:55:VAL:HG22	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:59:LYS:C	9:CJ:61:ALA:H	2.20	0.44
16:CQ:10:ARG:HH22	16:CQ:54:ILE:HA	1.82	0.44
22:DA:40:U:O2	22:DA:43:C:H5'	2.17	0.44
23:DB:125:A:C4'	49:D2:13:ASN:ND2	2.78	0.44
23:DB:353:C:H3'	23:DB:354:A:H8	1.82	0.44
23:DB:400:G:O5'	23:DB:400:G:H8	2.00	0.44
23:DB:515:A:H2	23:DB:1260:A:N3	2.15	0.44
23:DB:1097:U:C5	23:DB:1098:A:C8	3.05	0.44
23:DB:1203:U:H6	23:DB:1203:U:O5'	2.00	0.44
23:DB:1463:C:H2'	23:DB:1464:G:C8	2.53	0.44
23:DB:1821:A:C5'	25:DC:155:ARG:NH2	2.81	0.44
23:DB:1862:G:O2'	23:DB:1863:G:H5'	2.18	0.44
23:DB:2266:A:O4'	23:DB:2272:U:O4	2.35	0.44
23:DB:2340:A:H2'	23:DB:2341:G:H8	1.82	0.44
23:DB:2722:G:C2'	35:DN:4:ARG:HD2	2.47	0.44
24:DV:7:GLU:C	24:DV:40:ILE:HG22	2.37	0.44
27:DE:30:GLN:O	27:DE:31:VAL:C	2.55	0.44
27:DE:46:GLN:OE1	27:DE:86:ALA:HB3	2.18	0.44
28:DF:163:GLU:HG2	28:DF:166:ARG:CZ	2.48	0.44
29:DG:91:VAL:HG12	29:DG:159:LYS:NZ	2.32	0.44
31:DJ:44:TYR:HE2	31:DJ:50:THR:HB	1.82	0.44
33:DL:69:ARG:H	33:DL:69:ARG:HG2	1.34	0.44
34:DM:62:LYS:HD2	34:DM:62:LYS:HA	1.68	0.44
37:DP:32:VAL:N	37:DP:81:ASP:HA	2.31	0.44
38:DQ:82:LEU:O	38:DQ:88:GLU:HB2	2.17	0.44
39:DR:78:ARG:O	39:DR:79:ARG:HB2	2.17	0.44
42:DU:48:VAL:HG13	42:DU:51:LEU:CA	2.48	0.44
42:DU:72:PHE:CE2	42:DU:74:ALA:HB3	2.52	0.44
48:D1:8:ILE:HD13	48:D1:9:LYS:C	2.38	0.44
1:AA:175:C:H2'	1:AA:176:C:H6	1.83	0.44
1:AA:408:A:OP1	3:AD:109:THR:HG21	2.18	0.44
1:AA:412:A:H1'	1:AA:413:G:C8	2.43	0.44
1:AA:552:U:H5'	11:AL:82:ARG:HH11	1.82	0.44
1:AA:1007:U:H2'	1:AA:1008:U:C6	2.52	0.44
1:AA:1023:U:H2'	1:AA:1024:G:H8	1.82	0.44
1:AA:1486:G:H2'	1:AA:1487:G:C8	2.53	0.44
3:AD:24:VAL:O	3:AD:25:ARG:C	2.55	0.44
3:AD:104:MET:SD	3:AD:179:GLY:HA3	2.57	0.44
4:AE:81:GLN:N	4:AE:81:GLN:OE1	2.50	0.44
15:AP:12:LYS:O	15:AP:14:ARG:HG3	2.17	0.44
17:AR:49:LYS:HA	17:AR:52:ARG:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:70:LYS:HA	19:AT:73:ARG:CZ	2.47	0.44
23:BB:27:G:HO2'	23:BB:28:A:H8	1.59	0.44
23:BB:226:A:H2'	23:BB:227:A:C8	2.52	0.44
23:BB:444:C:H5''	27:BE:44:ARG:HH11	1.82	0.44
23:BB:576:U:H2'	23:BB:577:G:C8	2.53	0.44
23:BB:822:G:H2'	23:BB:823:C:C6	2.52	0.44
23:BB:1112:G:O2'	23:BB:1113:U:H5'	2.16	0.44
23:BB:1864:U:O2'	23:BB:1865:U:H5'	2.17	0.44
23:BB:2319:G:H3'	23:BB:2319:G:N3	2.32	0.44
23:BB:2477:U:H4'	23:BB:2479:U:O4	2.18	0.44
23:BB:2714:G:O2'	23:BB:2715:C:H5'	2.18	0.44
23:BB:2722:G:O2'	23:BB:2723:C:H5'	2.18	0.44
26:BD:129:THR:O	26:BD:130:GLN:CB	2.64	0.44
28:BF:4:HIS:HB2	28:BF:96:TRP:CD1	2.51	0.44
28:BF:135:ILE:O	28:BF:136:ILE:HB	2.17	0.44
30:BH:29:PHE:H	30:BH:32:PRO:CD	2.31	0.44
31:BJ:101:ILE:HG23	31:BJ:102:GLU:OE1	2.18	0.44
32:BK:25:LEU:O	32:BK:30:ARG:HG3	2.17	0.44
33:BL:82:LEU:HD22	33:BL:82:LEU:HA	1.49	0.44
33:BL:96:LYS:HB2	33:BL:96:LYS:HE3	1.79	0.44
34:BM:11:LYS:HZ2	34:BM:12:MET:H	1.64	0.44
34:BM:97:GLN:H	34:BM:98:PRO:CD	2.31	0.44
34:BM:126:ILE:O	34:BM:127:LYS:HB2	2.18	0.44
36:BO:8:ILE:C	36:BO:10:ARG:N	2.71	0.44
40:BS:8:ARG:HH12	40:BS:79:GLY:HA2	1.82	0.44
40:BS:38:TYR:CZ	47:B0:37:HIS:HA	2.52	0.44
40:BS:90:LYS:N	40:BS:90:LYS:CE	2.80	0.44
44:BX:23:ARG:HH21	44:BX:27:ASN:CG	2.20	0.44
46:BZ:29:GLY:C	46:BZ:30:HIS:CG	2.91	0.44
1:CA:473:U:C2	1:CA:474:G:N7	2.86	0.44
1:CA:502:A:OP1	11:CL:114:SER:HB2	2.17	0.44
1:CA:673:A:H1'	17:CR:63:TYR:HE1	1.81	0.44
1:CA:677:U:H2'	1:CA:678:U:C6	2.53	0.44
1:CA:875:U:O2'	7:CH:14:ARG:HD2	2.18	0.44
1:CA:975:A:OP2	1:CA:975:A:H4'	2.18	0.44
1:CA:1162:C:H2'	1:CA:1163:A:C8	2.51	0.44
1:CA:1329:A:O2'	1:CA:1330:U:H5'	2.18	0.44
2:CC:33:ASP:OD1	2:CC:37:LYS:HE2	2.17	0.44
2:CC:107:LYS:O	2:CC:110:LEU:HD23	2.18	0.44
6:CG:107:ALA:O	6:CG:118:ARG:HD2	2.18	0.44
8:CI:109:GLN:HE21	8:CI:109:GLN:HB3	1.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:55:PRO:O	9:CJ:56:HIS:HB3	2.16	0.44
20:CB:31:PHE:N	20:CB:41:ASN:HB2	2.32	0.44
20:CB:35:ASN:O	20:CB:36:LYS:HB2	2.18	0.44
20:CB:104:LYS:HB2	20:CB:104:LYS:NZ	2.33	0.44
23:DB:384:A:H2'	23:DB:385:C:H5'	1.99	0.44
23:DB:818:G:N1	23:DB:1187:G:H2'	2.32	0.44
23:DB:922:C:O2	43:DW:22:VAL:HG21	2.17	0.44
23:DB:952:G:C6	23:DB:966:G:C6	3.06	0.44
23:DB:1248:G:P	27:DE:44:ARG:HH22	2.40	0.44
23:DB:1394:U:O2'	23:DB:1395:A:H5'	2.17	0.44
23:DB:1439:A:N7	23:DB:1440:U:C2	2.86	0.44
23:DB:1439:A:N1	23:DB:1552:A:N7	2.66	0.44
23:DB:1541:C:H2'	23:DB:1542:U:O4'	2.16	0.44
23:DB:1826:G:H2'	23:DB:1827:U:H6	1.82	0.44
23:DB:2091:C:C5'	46:DZ:49:ARG:HE	2.31	0.44
23:DB:2559:C:O2'	23:DB:2560:A:H5'	2.17	0.44
23:DB:2574:G:N2	26:DD:147:GLY:HA3	2.30	0.44
23:DB:2617:U:H2'	23:DB:2618:G:C5'	2.47	0.44
25:DC:116:GLN:C	25:DC:127:ASN:HB3	2.38	0.44
26:DD:35:THR:HB	26:DD:48:ILE:CB	2.48	0.44
27:DE:46:GLN:HB2	27:DE:87:ALA:O	2.17	0.44
28:DF:71:LYS:HD3	28:DF:71:LYS:O	2.18	0.44
30:DH:8:LYS:HE2	30:DH:9:VAL:N	2.29	0.44
30:DH:97:ARG:H	30:DH:97:ARG:HG2	1.39	0.44
31:DJ:135:GLN:HE21	31:DJ:138:GLN:N	2.13	0.44
33:DL:113:ALA:HB3	33:DL:114:GLY:H	1.63	0.44
34:DM:71:LYS:HZ1	34:DM:92:TRP:H	1.63	0.44
35:DN:11:ASN:HB3	35:DN:12:ARG:CD	2.46	0.44
35:DN:101:GLY:HA2	35:DN:109:PRO:HA	2.00	0.44
36:DO:83:LEU:CA	36:DO:87:ILE:HD12	2.47	0.44
37:DP:25:VAL:O	37:DP:27:VAL:HG12	2.17	0.44
38:DQ:100:PHE:HD2	39:DR:13:ARG:HH22	1.65	0.44
41:DT:38:ALA:O	41:DT:39:THR:OG1	2.33	0.44
44:DX:51:ALA:HA	44:DX:54:LYS:HB3	1.99	0.44
44:DX:59:GLU:HA	44:DX:63:ALA:OXT	2.18	0.44
46:DZ:48:GLN:HB3	46:DZ:51:VAL:HB	2.00	0.44
47:D0:53:VAL:CG1	47:D0:54:ILE:N	2.81	0.44
48:D1:47:ILE:CG2	48:D1:48:TYR:H	2.11	0.44
49:D2:35:ARG:NH2	49:D2:44:VAL:HG22	2.31	0.44
1:AA:203:G:N2	1:AA:205:A:H61	2.16	0.44
1:AA:261:U:H2'	1:AA:263:A:OP2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:471:U:H2'	1:AA:472:U:C6	2.52	0.44
1:AA:669:G:O2'	1:AA:670:G:H5'	2.18	0.44
1:AA:813:U:O2'	1:AA:814:A:H5'	2.18	0.44
3:AD:109:THR:HG23	3:AD:112:GLU:H	1.83	0.44
4:AE:105:ILE:HD12	4:AE:123:LEU:HB3	1.99	0.44
5:AF:10:VAL:CG1	5:AF:83:ALA:HB1	2.48	0.44
6:AG:112:ASP:HB3	6:AG:113:LYS:H	1.65	0.44
8:AI:79:ARG:O	8:AI:83:THR:HG22	2.17	0.44
11:AL:34:THR:HG21	11:AL:53:ARG:CZ	2.47	0.44
14:AO:52:ARG:HG3	14:AO:55:LEU:HD23	1.99	0.44
18:AS:4:LEU:HD13	18:AS:8:PRO:HA	1.99	0.44
23:BB:55:G:H2'	23:BB:56:A:C8	2.51	0.44
23:BB:65:U:H4'	41:BT:70:HIS:CE1	2.53	0.44
23:BB:103:A:H2'	23:BB:104:A:O4'	2.17	0.44
23:BB:132:G:H2'	23:BB:133:U:C6	2.53	0.44
23:BB:140:C:OP2	23:BB:140:C:H6	2.00	0.44
23:BB:476:G:N2	23:BB:478:A:H3'	2.33	0.44
23:BB:765:C:H2'	23:BB:766:U:H6	1.82	0.44
23:BB:1151:A:H2'	23:BB:1152:C:C6	2.53	0.44
23:BB:1278:C:OP1	35:BN:36:THR:HB	2.18	0.44
23:BB:1616:A:H4'	23:BB:1617:C:OP2	2.17	0.44
23:BB:2082:A:O2'	23:BB:2083:G:H5'	2.18	0.44
23:BB:2423:U:H3	43:BW:1:ALA:HB2	1.83	0.44
23:BB:2443:C:H2'	23:BB:2444:G:H8	1.81	0.44
23:BB:2572:A:C8	26:BD:150:GLN:O	2.70	0.44
23:BB:2677:G:H2'	23:BB:2678:C:C6	2.51	0.44
23:BB:2683:C:H2'	23:BB:2684:U:H6	1.83	0.44
23:BB:2795:C:O5'	23:BB:2795:C:H6	2.00	0.44
23:BB:2885:G:H2'	23:BB:2886:A:O4'	2.17	0.44
25:BC:23:LEU:HD12	25:BC:23:LEU:O	2.18	0.44
25:BC:145:MET:O	25:BC:184:GLU:HG3	2.18	0.44
25:BC:229:HIS:O	25:BC:231:HIS:N	2.39	0.44
26:BD:47:ALA:HB3	26:BD:81:GLU:HB2	1.99	0.44
27:BE:154:ASP:OD1	27:BE:156:ASN:HB2	2.18	0.44
30:BH:55:GLU:C	30:BH:57:LYS:N	2.70	0.44
30:BH:81:ALA:HA	30:BH:147:VAL:H	1.83	0.44
31:BJ:11:VAL:HG22	31:BJ:12:LYS:N	2.32	0.44
32:BK:4:GLU:H	32:BK:4:GLU:HG2	1.46	0.44
33:BL:77:ILE:HG21	33:BL:92:LEU:HD13	1.98	0.44
41:BT:45:ALA:O	41:BT:48:GLN:HB3	2.17	0.44
41:BT:55:VAL:HG13	41:BT:86:THR:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:46:VAL:HG13	44:BX:47:ARG:N	2.32	0.44
46:BZ:12:ILE:H	46:BZ:12:ILE:HG13	1.26	0.44
1:CA:119:A:H4'	1:CA:120:A:O4'	2.18	0.44
1:CA:233:C:O2'	1:CA:234:C:H5'	2.18	0.44
1:CA:488:C:H2'	1:CA:489:C:H6	1.83	0.44
1:CA:682:G:O2'	1:CA:683:G:H5'	2.18	0.44
1:CA:705:G:N2	10:CK:43:TRP:CE3	2.85	0.44
1:CA:737:C:H5'	5:CF:89:VAL:O	2.18	0.44
1:CA:768:A:H5'	1:CA:1524:C:H1'	1.99	0.44
1:CA:1102:A:O2'	1:CA:1103:C:H5'	2.18	0.44
4:CE:87:VAL:CG2	4:CE:88:HIS:H	2.23	0.44
4:CE:95:MET:HA	4:CE:124:ALA:CB	2.44	0.44
11:CL:97:VAL:O	11:CL:97:VAL:HG23	2.17	0.44
13:CN:62:ARG:N	13:CN:72:PHE:CZ	2.82	0.44
16:CQ:35:LYS:O	16:CQ:35:LYS:HG3	2.17	0.44
18:CS:62:THR:OG1	18:CS:63:ASP:N	2.48	0.44
19:CT:27:MET:O	19:CT:31:ILE:HG13	2.17	0.44
22:DA:41:G:H5'	22:DA:42:C:H5'	2.00	0.44
22:DA:70:C:H2'	22:DA:71:C:H6	1.83	0.44
23:DB:443:A:H3'	27:DE:40:ARG:HG2	2.00	0.44
23:DB:452:G:N2	23:DB:458:G:H1'	2.33	0.44
23:DB:822:G:H2'	23:DB:823:C:C6	2.53	0.44
23:DB:1347:A:H2'	23:DB:1348:C:O4'	2.17	0.44
23:DB:1562:U:H2'	23:DB:1563:U:C6	2.52	0.44
23:DB:1789:A:H5'	25:DC:220:ARG:HH21	1.82	0.44
23:DB:1813:G:N3	25:DC:50:THR:CG2	2.77	0.44
23:DB:2093:G:OP2	30:DH:23:ALA:HB3	2.17	0.44
23:DB:2237:G:O2'	23:DB:2239:G:N7	2.50	0.44
23:DB:2256:G:H2'	23:DB:2257:U:C6	2.53	0.44
23:DB:2278:A:H62	43:DW:10:ARG:HB2	1.82	0.44
23:DB:2591:C:O2'	23:DB:2592:G:H5'	2.17	0.44
23:DB:2659:G:C2	23:DB:2661:G:H5''	2.53	0.44
23:DB:2677:G:H2'	23:DB:2678:C:C6	2.52	0.44
24:DV:52:ALA:HA	34:DM:134:THR:OG1	2.18	0.44
25:DC:110:LYS:HB3	25:DC:111:ALA:H	1.40	0.44
26:DD:34:VAL:CG1	26:DD:91:THR:HG23	2.44	0.44
26:DD:59:ARG:HD2	26:DD:60:VAL:H	1.82	0.44
27:DE:53:THR:H	27:DE:74:LYS:CE	2.31	0.44
27:DE:68:ALA:O	27:DE:69:ARG:C	2.55	0.44
28:DF:150:GLY:O	28:DF:151:LEU:HB2	2.17	0.44
29:DG:10:VAL:N	29:DG:11:PRO:HD3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:58:TYR:HB3	50:D3:13:PHE:CZ	2.53	0.44
34:DM:9:PHE:N	34:DM:9:PHE:HD1	2.15	0.44
37:DP:7:LEU:HA	37:DP:10:GLU:HG2	2.00	0.44
39:DR:22:LEU:CD1	39:DR:23:GLU:H	2.29	0.44
41:DT:53:VAL:HA	41:DT:93:LEU:HG	1.99	0.44
42:DU:2:ALA:HA	42:DU:27:VAL:HG23	1.99	0.44
43:DW:65:LYS:HB2	43:DW:65:LYS:NZ	2.33	0.44
47:D0:39:ARG:HA	47:D0:39:ARG:HD3	1.72	0.44
51:D4:11:CYS:HB2	51:D4:14:CYS:SG	2.58	0.44
1:AA:119:A:H4'	1:AA:120:A:O4'	2.17	0.44
1:AA:191:G:H2'	1:AA:192:A:H8	1.83	0.44
1:AA:323:U:H2'	1:AA:324:G:O4'	2.18	0.44
1:AA:913:A:H1'	1:AA:914:A:O4'	2.17	0.44
1:AA:924:C:H2'	1:AA:925:G:H8	1.83	0.44
1:AA:947:G:H2'	1:AA:948:C:H6	1.81	0.44
1:AA:1082:A:O2'	1:AA:1083:U:H5'	2.18	0.44
2:AC:100:ILE:C	2:AC:100:ILE:HD13	2.38	0.44
4:AE:33:THR:O	4:AE:58:ALA:HB1	2.17	0.44
4:AE:89:THR:HG22	4:AE:90:GLY:N	2.33	0.44
6:AG:87:PRO:CG	6:AG:151:ALA:HB2	2.41	0.44
7:AH:11:THR:HG23	7:AH:14:ARG:NH1	2.33	0.44
7:AH:46:GLU:HB2	7:AH:61:THR:OG1	2.18	0.44
8:AI:30:ASN:HD21	8:AI:65:THR:HA	1.79	0.44
9:AJ:15:HIS:CD2	9:AJ:19:ASP:HB2	2.52	0.44
12:AM:44:ILE:CA	12:AM:47:LEU:HD13	2.46	0.44
12:AM:78:ARG:HE	12:AM:79:LEU:HG	1.82	0.44
16:AQ:30:HIS:H	16:AQ:35:LYS:H	1.66	0.44
16:AQ:45:VAL:HG13	16:AQ:60:ILE:CG2	2.48	0.44
20:AB:31:PHE:CD1	20:AB:41:ASN:HA	2.53	0.44
20:AB:128:LEU:CG	20:AB:132:GLU:HG2	2.46	0.44
23:BB:829:A:H4'	54:BB:3321:HOH:O	2.17	0.44
23:BB:1079:C:C2	23:BB:1080:A:C8	3.06	0.44
23:BB:2619:C:H2'	23:BB:2620:C:C6	2.52	0.44
24:BV:84:PRO:HG3	34:BM:127:LYS:NZ	2.32	0.44
25:BC:79:ARG:HH11	25:BC:79:ARG:HG3	1.82	0.44
25:BC:107:LYS:CB	25:BC:194:VAL:HG11	2.27	0.44
28:BF:7:TYR:OH	28:BF:29:ARG:HA	2.17	0.44
29:BG:108:PHE:CE1	29:BG:151:ARG:HD2	2.52	0.44
29:BG:114:HIS:HB2	29:BG:150:TYR:HE2	1.83	0.44
31:BJ:57:LEU:HD12	31:BJ:128:ASN:CA	2.48	0.44
34:BM:1:MET:HG2	34:BM:64:TRP:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:1:MET:CE	35:BN:3:HIS:H	2.31	0.44
35:BN:75:ILE:HG23	35:BN:76:VAL:N	2.33	0.44
36:BO:76:LYS:NZ	36:BO:79:ALA:HB3	2.33	0.44
40:BS:6:LYS:CA	40:BS:104:THR:HA	2.48	0.44
42:BU:5:ARG:O	42:BU:8:ASP:HB2	2.18	0.44
42:BU:63:ALA:O	42:BU:64:ILE:HG22	2.17	0.44
43:BW:44:PHE:HB3	43:BW:76:ARG:HG3	2.00	0.44
44:BX:14:LEU:HD12	44:BX:14:LEU:N	2.32	0.44
46:BZ:15:SER:HB2	46:BZ:25:ARG:HH12	1.81	0.44
47:B0:29:VAL:HG23	47:B0:36:LYS:HZ3	1.79	0.44
48:B1:26:LYS:HD3	48:B1:29:LYS:CD	2.48	0.44
49:B2:13:ASN:HB2	49:B2:18:PHE:CD2	2.43	0.44
49:B2:13:ASN:O	49:B2:16:HIS:N	2.49	0.44
49:B2:22:MET:SD	49:B2:28:ARG:HG3	2.58	0.44
1:CA:143:A:H2	1:CA:220:G:H22	1.64	0.44
1:CA:284:C:H2'	1:CA:285:C:H6	1.82	0.44
1:CA:812:G:H4'	1:CA:812:G:OP1	2.17	0.44
1:CA:963:G:H2'	1:CA:964:A:C8	2.51	0.44
1:CA:965:U:OP1	1:CA:1198:G:H5''	2.18	0.44
1:CA:1308:U:H2'	1:CA:1309:G:H8	1.82	0.44
1:CA:1342:C:H4'	8:CI:126:PHE:O	2.18	0.44
1:CA:1432:G:H8	1:CA:1432:G:OP2	2.00	0.44
3:CD:171:GLU:HG3	3:CD:182:LYS:CD	2.46	0.44
4:CE:17:VAL:O	4:CE:17:VAL:HG13	2.17	0.44
6:CG:12:LEU:HD13	6:CG:13:PRO:CD	2.47	0.44
10:CK:70:ALA:O	10:CK:72:ALA:N	2.50	0.44
11:CL:65:TYR:HB3	11:CL:95:HIS:HD2	1.82	0.44
13:CN:52:ARG:O	13:CN:58:ARG:HD2	2.18	0.44
14:CO:31:LEU:HA	14:CO:34:GLN:OE1	2.17	0.44
15:CP:28:ARG:HD2	15:CP:28:ARG:N	2.33	0.44
16:CQ:58:VAL:HB	16:CQ:74:LEU:CD2	2.48	0.44
23:DB:126:A:O5'	49:D2:18:PHE:CE1	2.71	0.44
23:DB:314:C:H2'	23:DB:315:G:C8	2.53	0.44
23:DB:418:C:H2'	23:DB:419:U:C6	2.53	0.44
23:DB:420:C:H2'	23:DB:421:C:C6	2.53	0.44
23:DB:1240:U:O2'	23:DB:1241:A:H5''	2.17	0.44
23:DB:1824:G:H2'	23:DB:1825:U:C6	2.53	0.44
23:DB:1870:C:H3'	23:DB:1871:A:C8	2.53	0.44
23:DB:1881:C:H2'	23:DB:1882:U:O4'	2.18	0.44
23:DB:2191:A:H2'	23:DB:2192:U:H6	1.82	0.44
23:DB:2259:U:C1'	23:DB:2427:C:H2'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2320:U:O2	23:DB:2320:U:O4'	2.35	0.44
23:DB:2489:U:O2'	23:DB:2490:G:H5'	2.18	0.44
23:DB:2663:G:H2'	23:DB:2664:G:C8	2.52	0.44
23:DB:2776:A:H4'	23:DB:2777:G:H5''	1.99	0.44
23:DB:2887:A:O4'	47:D0:27:LEU:HD11	2.18	0.44
24:DV:29:ILE:HG13	24:DV:30:ILE:H	1.81	0.44
25:DC:181:ARG:O	25:DC:181:ARG:HG3	2.18	0.44
26:DD:1:MET:O	26:DD:2:ILE:HB	2.17	0.44
26:DD:129:THR:CG2	26:DD:130:GLN:H	2.26	0.44
27:DE:75:SER:OG	27:DE:77:ILE:HG22	2.18	0.44
27:DE:122:GLU:HG3	27:DE:123:LYS:H	1.82	0.44
27:DE:199:MET:HG3	27:DE:200:LEU:N	2.33	0.44
28:DF:135:ILE:HD12	28:DF:140:ILE:O	2.17	0.44
32:DK:103:VAL:HG23	32:DK:104:THR:N	2.33	0.44
33:DL:2:ARG:NH2	33:DL:6:LEU:HD13	2.33	0.44
33:DL:109:LYS:HG3	33:DL:126:ARG:HD3	1.99	0.44
33:DL:120:VAL:O	33:DL:122:VAL:N	2.50	0.44
37:DP:111:GLU:C	37:DP:113:LEU:H	2.21	0.44
38:DQ:50:ARG:CZ	38:DQ:53:LYS:HE3	2.48	0.44
42:DU:40:LEU:O	42:DU:58:VAL:HA	2.18	0.44
48:D1:35:LEU:HA	48:D1:48:TYR:O	2.18	0.44
51:D4:18:LYS:O	51:D4:19:ARG:CB	2.65	0.44
1:AA:68:G:H5'	1:AA:171:A:O2'	2.17	0.44
1:AA:88:U:O2'	1:AA:89:U:C6	2.68	0.44
1:AA:132:C:H5''	19:AT:68:LYS:CE	2.47	0.44
1:AA:232:G:H2'	1:AA:233:C:O4'	2.17	0.44
1:AA:238:A:H3'	1:AA:239:U:H5''	2.00	0.44
1:AA:538:G:OP2	11:AL:111:GLN:HB2	2.18	0.44
1:AA:878:A:H2'	1:AA:879:C:C6	2.53	0.44
1:AA:893:C:H2'	1:AA:894:G:H8	1.83	0.44
3:AD:14:GLU:OE2	3:AD:58:GLN:HG3	2.18	0.44
3:AD:137:SER:CB	3:AD:138:PRO:HD2	2.47	0.44
4:AE:16:ALA:O	4:AE:34:ALA:HA	2.17	0.44
6:AG:148:LYS:HA	6:AG:151:ALA:HB3	2.00	0.44
8:AI:59:LYS:HB3	8:AI:59:LYS:HZ2	1.83	0.44
10:AK:28:ASN:HD21	10:AK:30:ILE:HG23	1.83	0.44
11:AL:80:LEU:HD13	11:AL:101:LEU:HD11	1.99	0.44
11:AL:101:LEU:HB3	11:AL:102:ASP:H	1.61	0.44
12:AM:14:ALA:HB1	12:AM:33:LEU:HD11	1.99	0.44
19:AT:20:ASN:O	19:AT:65:LEU:HD21	2.18	0.44
23:BB:1:G:H2'	23:BB:2:G:H8	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:137:U:O5'	23:BB:137:U:H6	2.01	0.44
23:BB:222:A:N1	23:BB:233:A:H5''	2.32	0.44
23:BB:664:G:O2'	23:BB:665:U:H5'	2.17	0.44
23:BB:1055:G:O2'	23:BB:1085:A:C2	2.66	0.44
23:BB:1513:U:O2'	23:BB:1514:G:H5'	2.18	0.44
23:BB:2038:G:H2'	23:BB:2039:U:O4'	2.18	0.44
23:BB:2248:C:C2'	23:BB:2249:U:H5'	2.47	0.44
23:BB:2263:C:H2'	23:BB:2264:C:C6	2.52	0.44
23:BB:2297:A:N6	23:BB:2319:G:C5'	2.81	0.44
23:BB:2526:G:H2'	23:BB:2527:C:H6	1.81	0.44
25:BC:185:ALA:C	25:BC:187:CYS:H	2.21	0.44
28:BF:41:GLU:OE1	28:BF:45:ASP:HA	2.18	0.44
32:BK:10:VAL:HG13	32:BK:19:VAL:HG21	1.99	0.44
32:BK:23:LYS:CG	32:BK:24:VAL:H	2.31	0.44
39:BR:6:GLN:HG3	39:BR:7:SER:H	1.83	0.44
39:BR:60:LYS:HD2	39:BR:60:LYS:HA	1.79	0.44
40:BS:29:VAL:CG2	40:BS:69:LEU:HB3	2.48	0.44
45:BY:18:LYS:O	45:BY:21:ALA:HB3	2.17	0.44
1:CA:250:A:H1'	1:CA:252:U:C5	2.53	0.44
1:CA:295:C:H2'	1:CA:296:U:C6	2.53	0.44
1:CA:397:A:H3'	1:CA:397:A:N3	2.33	0.44
1:CA:771:G:H2'	1:CA:772:U:C6	2.52	0.44
1:CA:861:G:O2'	1:CA:862:C:H5'	2.17	0.44
1:CA:1216:A:OP1	13:CN:4:SER:HB3	2.18	0.44
1:CA:1414:U:H2'	1:CA:1415:G:C8	2.53	0.44
3:CD:66:VAL:HG22	3:CD:71:PHE:HB2	2.00	0.44
3:CD:77:GLU:C	3:CD:79:ALA:H	2.20	0.44
4:CE:28:ARG:NH2	4:CE:30:PHE:HB3	2.33	0.44
6:CG:49:LEU:HA	6:CG:52:ARG:HG3	1.99	0.44
6:CG:78:ARG:HD2	6:CG:81:GLY:H	1.83	0.44
11:CL:17:LYS:HB2	11:CL:17:LYS:NZ	2.33	0.44
20:CB:119:GLN:O	20:CB:125:PHE:HB3	2.18	0.44
23:DB:136:G:N1	41:DT:3:ARG:NH2	2.65	0.44
23:DB:401:A:O2'	23:DB:402:A:H5'	2.18	0.44
23:DB:448:U:H2'	27:DE:79:ARG:HG3	1.98	0.44
23:DB:1010:A:H4'	38:DQ:75:TYR:CD2	2.53	0.44
23:DB:1050:A:O2'	23:DB:2752:C:H1'	2.18	0.44
23:DB:1106:G:H2'	23:DB:1107:G:H8	1.83	0.44
23:DB:1789:A:H2'	23:DB:1790:C:C6	2.53	0.44
23:DB:2018:G:H1'	38:DQ:32:ARG:NH2	2.31	0.44
23:DB:2157:G:N3	23:DB:2157:G:C2'	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2370:G:H2'	23:DB:2371:G:O4'	2.18	0.44
23:DB:2526:G:N2	51:D4:1:MET:HG2	2.33	0.44
23:DB:2633:G:H2'	23:DB:2634:A:O4'	2.16	0.44
23:DB:2806:C:H2'	23:DB:2807:U:O4'	2.17	0.44
23:DB:2812:G:H2'	23:DB:2813:A:O4'	2.18	0.44
24:DV:53:LYS:HB3	24:DV:53:LYS:HZ2	1.82	0.44
25:DC:50:THR:HG22	25:DC:51:ARG:CG	2.42	0.44
25:DC:91:ALA:HB3	25:DC:103:ILE:HB	2.00	0.44
26:DD:140:HIS:O	26:DD:141:ARG:CG	2.62	0.44
29:DG:24:THR:HG23	29:DG:33:THR:HG23	2.00	0.44
30:DH:2:GLN:HB2	30:DH:19:VAL:CA	2.40	0.44
32:DK:72:PRO:HB2	32:DK:73:ASP:H	1.62	0.44
33:DL:89:VAL:HG21	33:DL:123:ARG:NH1	2.33	0.44
34:DM:71:LYS:O	34:DM:72:PRO:C	2.55	0.44
37:DP:5:LYS:C	37:DP:7:LEU:H	2.21	0.44
37:DP:5:LYS:HA	37:DP:5:LYS:HD2	1.65	0.44
37:DP:111:GLU:H	37:DP:111:GLU:HG3	1.45	0.44
39:DR:80:ARG:O	39:DR:80:ARG:HG3	2.18	0.44
40:DS:68:ASP:HB3	40:DS:110:ARG:HD2	1.99	0.44
40:DS:107:VAL:C	40:DS:109:ASP:H	2.22	0.44
41:DT:85:VAL:HG23	41:DT:86:THR:N	2.33	0.44
42:DU:90:LYS:O	42:DU:91:LYS:HB2	2.18	0.44
43:DW:13:ARG:H	43:DW:13:ARG:CZ	2.31	0.44
47:D0:31:LYS:HB2	47:D0:31:LYS:HZ3	1.80	0.44
48:D1:49:LYS:HZ2	48:D1:49:LYS:CA	2.30	0.44
1:AA:22:G:H2'	1:AA:23:C:H6	1.83	0.44
1:AA:25:C:H2'	1:AA:26:A:C8	2.53	0.44
1:AA:26:A:N6	1:AA:558:G:H1'	2.33	0.44
1:AA:238:A:C3'	1:AA:239:U:H5''	2.47	0.44
1:AA:1048:G:H4'	13:AN:2:LYS:HZ3	1.82	0.44
2:AC:19:SER:HB2	2:AC:39:ARG:HH22	1.82	0.44
11:AL:22:ALA:HB1	11:AL:29:LYS:HG3	2.00	0.44
18:AS:48:ILE:HG22	18:AS:49:ALA:N	2.33	0.44
20:AB:101:THR:HG22	20:AB:174:GLU:OE1	2.18	0.44
20:AB:165:ALA:CB	20:AB:186:VAL:HG12	2.48	0.44
22:BA:27:C:H3'	22:BA:28:C:C6	2.53	0.44
23:BB:458:G:H1'	23:BB:459:U:H5	1.82	0.44
23:BB:527:C:H5''	23:BB:2779:U:N3	2.33	0.44
23:BB:533:G:H5'	38:BQ:23:TYR:CD1	2.52	0.44
23:BB:936:A:H2'	23:BB:937:C:H6	1.81	0.44
23:BB:971:G:H2'	23:BB:972:A:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1250:G:H5'	38:BQ:3:VAL:CG1	2.48	0.44
23:BB:1403:A:H2'	23:BB:1404:C:C6	2.53	0.44
23:BB:1764:C:H2'	23:BB:1765:U:C6	2.52	0.44
23:BB:2393:U:OP1	50:B3:29:ARG:NE	2.51	0.44
23:BB:2751:G:C5'	29:BG:3:VAL:HG13	2.48	0.44
23:BB:2768:U:H2'	23:BB:2769:U:O4'	2.18	0.44
23:BB:2893:A:H4'	23:BB:2894:G:H5'	2.00	0.44
26:BD:116:LYS:HG3	35:BN:3:HIS:CE1	2.53	0.44
27:BE:165:HIS:C	27:BE:166:LYS:HG3	2.39	0.44
31:BJ:60:ASP:OD1	31:BJ:97:PRO:HG2	2.18	0.44
31:BJ:68:LYS:HA	31:BJ:71:ASP:OD1	2.18	0.44
31:BJ:114:LEU:O	31:BJ:117:ALA:HB3	2.18	0.44
32:BK:23:LYS:HG3	32:BK:24:VAL:N	2.32	0.44
33:BL:38:GLN:N	33:BL:41:ARG:NH1	2.64	0.44
36:BO:94:ARG:O	36:BO:94:ARG:HG3	2.18	0.44
1:CA:113:G:O4'	1:CA:354:G:H4'	2.18	0.44
1:CA:373:A:H1'	1:CA:481:G:H1'	1.99	0.44
1:CA:442:G:H2'	1:CA:443:C:C6	2.53	0.44
1:CA:614:C:OP1	3:CD:82:LYS:HE3	2.18	0.44
1:CA:706:A:H2	10:CK:40:ALA:HB2	1.83	0.44
1:CA:921:U:H2'	1:CA:922:G:O4'	2.17	0.44
1:CA:950:U:H2'	1:CA:951:G:H8	1.83	0.44
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.33	0.44
1:CA:1493:A:C2'	1:CA:1494:G:OP2	2.65	0.44
2:CC:32:LEU:O	2:CC:35:ASP:HB3	2.18	0.44
3:CD:81:LEU:HB2	3:CD:88:ASN:ND2	2.33	0.44
7:CH:31:LEU:O	7:CH:35:ILE:HG13	2.17	0.44
12:CM:17:ALA:O	12:CM:20:SER:HB2	2.18	0.44
13:CN:13:VAL:HG22	13:CN:59:GLN:CD	2.38	0.44
13:CN:56:PRO:HG2	13:CN:57:SER:H	1.83	0.44
14:CO:67:ASP:O	14:CO:71:ARG:HB2	2.17	0.44
14:CO:88:ARG:HG3	14:CO:88:ARG:NH1	2.32	0.44
19:CT:66:ILE:HG23	19:CT:70:LYS:HG3	2.00	0.44
22:DA:55:U:H2'	22:DA:56:G:C8	2.53	0.44
23:DB:164:C:H2'	23:DB:165:A:H5'	2.00	0.44
23:DB:207:A:H2'	23:DB:208:C:O4'	2.17	0.44
23:DB:523:C:H4'	23:DB:540:C:O2	2.18	0.44
23:DB:538:A:H2'	23:DB:539:G:O4'	2.18	0.44
23:DB:756:A:H2'	23:DB:757:G:O4'	2.18	0.44
23:DB:852:U:H2'	23:DB:853:C:C6	2.53	0.44
23:DB:900:A:H2'	23:DB:901:C:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1291:C:O2'	23:DB:1292:G:H5'	2.18	0.44
23:DB:1341:G:H2'	23:DB:1397:U:HO2'	1.83	0.44
23:DB:1593:A:H2'	23:DB:1594:U:H6	1.83	0.44
23:DB:1606:C:H5''	23:DB:1607:C:OP1	2.17	0.44
23:DB:1666:G:O3'	32:DK:6:THR:HG23	2.18	0.44
23:DB:1826:G:H2'	23:DB:1827:U:C6	2.53	0.44
23:DB:1854:A:H2'	23:DB:1855:U:O4'	2.18	0.44
23:DB:2386:A:H2'	23:DB:2387:U:H6	1.83	0.44
23:DB:2599:G:C8	25:DC:234:GLY:HA2	2.53	0.44
23:DB:2772:C:H2'	23:DB:2773:C:H6	1.82	0.44
24:DV:63:ILE:N	24:DV:63:ILE:HD12	2.33	0.44
24:DV:70:ILE:HD12	24:DV:71:LYS:N	2.28	0.44
25:DC:96:LYS:H	25:DC:96:LYS:HG2	1.37	0.44
25:DC:153:LEU:C	25:DC:155:ARG:N	2.71	0.44
25:DC:153:LEU:O	25:DC:153:LEU:HG	2.17	0.44
25:DC:159:THR:O	25:DC:160:TYR:HD2	2.00	0.44
27:DE:189:THR:HG23	27:DE:194:LYS:HD3	2.00	0.44
28:DF:116:LEU:HD13	28:DF:129:MET:HE1	2.00	0.44
28:DF:140:ILE:H	28:DF:140:ILE:CD1	2.21	0.44
29:DG:23:ILE:O	29:DG:33:THR:HA	2.18	0.44
32:DK:70:ARG:HD3	32:DK:76:VAL:HG22	2.00	0.44
35:DN:78:LYS:HG3	35:DN:82:GLU:HG3	1.99	0.44
36:DO:98:GLN:NE2	36:DO:99:TYR:H	2.16	0.44
38:DQ:102:LYS:HD2	38:DQ:102:LYS:HA	1.88	0.44
39:DR:35:PHE:HB3	39:DR:64:VAL:HG12	2.00	0.44
42:DU:64:ILE:HG22	42:DU:64:ILE:O	2.18	0.44
43:DW:43:LYS:O	43:DW:78:PHE:HA	2.18	0.44
46:DZ:39:LYS:NZ	46:DZ:61:ASN:HD21	2.15	0.44
52:DI:16:MET:N	52:DI:42:ASN:OD1	2.51	0.44
1:AA:41:G:H2'	1:AA:42:G:H8	1.83	0.43
1:AA:442:G:H2'	1:AA:443:C:C6	2.53	0.43
1:AA:1325:C:O2'	1:AA:1326:U:H5'	2.18	0.43
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.18	0.43
1:AA:1458:G:H2'	1:AA:1459:G:H8	1.83	0.43
1:AA:1505:G:H5''	1:AA:1506:U:O5'	2.17	0.43
2:AC:90:VAL:HA	2:AC:93:ILE:CG2	2.48	0.43
3:AD:18:LEU:HD22	3:AD:63:ILE:HG12	2.00	0.43
4:AE:36:THR:O	4:AE:48:GLY:N	2.51	0.43
4:AE:114:LEU:C	4:AE:116:VAL:H	2.21	0.43
7:AH:35:ILE:O	7:AH:39:LEU:HD12	2.18	0.43
8:AI:38:PHE:C	8:AI:44:ARG:HG2	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:7:ARG:O	9:AJ:8:ILE:HD13	2.18	0.43
12:AM:21:ILE:HG22	12:AM:64:VAL:CG1	2.41	0.43
12:AM:106:ARG:NH1	12:AM:106:ARG:HG2	2.32	0.43
15:AP:18:GLN:NE2	15:AP:35:ARG:HH11	2.16	0.43
20:AB:46:VAL:CG1	20:AB:47:PRO:HD3	2.31	0.43
20:AB:113:LEU:CG	20:AB:143:LEU:HB3	2.47	0.43
22:BA:30:C:O2	22:BA:30:C:H2'	2.18	0.43
22:BA:50:A:H5''	36:BO:68:LYS:CD	2.46	0.43
23:BB:68:G:H3'	23:BB:69:C:H6	1.83	0.43
23:BB:359:G:O2'	23:BB:360:U:H5'	2.17	0.43
23:BB:570:G:C2'	23:BB:571:U:H5'	2.48	0.43
23:BB:1487:U:H2'	23:BB:1488:C:C6	2.52	0.43
23:BB:1525:A:H2'	23:BB:1526:C:C6	2.52	0.43
23:BB:1623:G:O2'	23:BB:1624:U:H5'	2.18	0.43
23:BB:1716:U:H2'	23:BB:1717:A:H8	1.81	0.43
23:BB:1814:G:C4'	25:BC:51:ARG:HD2	2.48	0.43
23:BB:1821:A:H2'	23:BB:1822:C:H6	1.83	0.43
23:BB:2320:U:H3'	23:BB:2321:U:C5'	2.48	0.43
24:BV:35:GLU:HB2	24:BV:93:ARG:NH1	2.33	0.43
24:BV:89:ILE:HD13	24:BV:91:PHE:CE1	2.52	0.43
25:BC:170:TYR:HB3	25:BC:185:ALA:HB3	2.00	0.43
27:BE:6:LYS:HZ1	27:BE:119:ILE:H	1.65	0.43
27:BE:27:LEU:HD23	27:BE:100:MET:HE2	1.99	0.43
27:BE:49:ARG:HH11	27:BE:49:ARG:CG	2.31	0.43
27:BE:68:ALA:O	27:BE:69:ARG:HB3	2.18	0.43
28:BF:135:ILE:HG23	28:BF:136:ILE:N	2.33	0.43
29:BG:32:LEU:HD11	29:BG:74:MET:SD	2.59	0.43
30:BH:28:ASN:O	30:BH:29:PHE:HB2	2.17	0.43
30:BH:40:THR:O	30:BH:42:LYS:N	2.51	0.43
34:BM:21:ALA:O	34:BM:96:ILE:HG13	2.18	0.43
35:BN:24:MET:HE3	35:BN:44:LEU:HD22	1.99	0.43
36:BO:15:ARG:HH12	36:BO:17:LYS:HD3	1.83	0.43
36:BO:84:GLU:OE1	36:BO:85:LYS:HG3	2.17	0.43
38:BQ:58:GLN:O	38:BQ:62:ALA:HB2	2.18	0.43
38:BQ:95:ALA:C	38:BQ:97:ILE:H	2.21	0.43
39:BR:58:VAL:HG22	39:BR:59:ILE:H	1.83	0.43
40:BS:72:THR:O	40:BS:73:LYS:HG2	2.18	0.43
40:BS:80:PRO:O	40:BS:100:THR:HG22	2.18	0.43
41:BT:84:TYR:O	41:BT:85:VAL:O	2.36	0.43
42:BU:40:LEU:O	42:BU:42:LYS:HD2	2.18	0.43
47:B0:27:LEU:C	47:B0:36:LYS:HD3	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:29:U:H5'	1:CA:296:U:OP1	2.18	0.43
1:CA:336:A:O2'	1:CA:337:G:H5'	2.18	0.43
1:CA:777:A:H2'	1:CA:778:G:C8	2.52	0.43
1:CA:1307:U:H2'	1:CA:1308:U:O4'	2.18	0.43
1:CA:1319:A:P	18:CS:4:LEU:HD11	2.58	0.43
4:CE:148:SER:HB2	4:CE:149:PRO:HD2	2.00	0.43
5:CF:3:HIS:CE1	5:CF:95:ALA:HB2	2.53	0.43
8:CI:35:GLU:O	8:CI:39:GLY:HA2	2.18	0.43
9:CJ:68:ARG:HD3	9:CJ:70:HIS:NE2	2.34	0.43
10:CK:60:PHE:CE1	10:CK:64:VAL:HG11	2.52	0.43
12:CM:3:ILE:HA	12:CM:56:ARG:NH1	2.32	0.43
16:CQ:66:LEU:O	16:CQ:67:SER:HB2	2.18	0.43
18:CS:44:ILE:HG23	18:CS:62:THR:O	2.18	0.43
20:CB:33:ALA:HA	20:CB:39:ILE:HG12	2.00	0.43
20:CB:78:ALA:CB	20:CB:213:LEU:HD13	2.47	0.43
23:DB:231:A:H3'	23:DB:232:G:H8	1.83	0.43
23:DB:948:C:O2'	23:DB:949:G:H5'	2.18	0.43
23:DB:1259:G:O2'	23:DB:1260:A:H5'	2.18	0.43
23:DB:1295:C:H2'	23:DB:1296:G:H8	1.83	0.43
26:DD:62:LYS:H	26:DD:62:LYS:HD3	1.82	0.43
26:DD:156:PHE:HA	31:DJ:81:ILE:HG21	2.00	0.43
27:DE:53:THR:CB	27:DE:74:LYS:HE2	2.47	0.43
28:DF:116:LEU:CD2	28:DF:129:MET:HE3	2.37	0.43
29:DG:25:ILE:CD1	29:DG:75:VAL:HG22	2.48	0.43
30:DH:103:VAL:HG22	30:DH:108:VAL:HB	2.00	0.43
31:DJ:25:LEU:HD12	31:DJ:62:VAL:HA	1.98	0.43
31:DJ:72:LYS:O	31:DJ:72:LYS:HG3	2.17	0.43
31:DJ:82:GLY:O	31:DJ:83:GLY:C	2.56	0.43
33:DL:35:HIS:O	33:DL:35:HIS:CG	2.71	0.43
33:DL:133:ALA:HA	33:DL:136:GLU:OE2	2.18	0.43
34:DM:5:LYS:O	34:DM:6:ARG:CB	2.62	0.43
35:DN:17:ARG:C	35:DN:19:ALA:H	2.21	0.43
37:DP:111:GLU:HB2	37:DP:112:ARG:NE	2.28	0.43
39:DR:37:GLU:HB3	39:DR:63:VAL:HA	1.99	0.43
40:DS:11:ARG:HG3	40:DS:11:ARG:NH1	2.33	0.43
40:DS:72:THR:HG21	40:DS:108:SER:OG	2.18	0.43
42:DU:28:LEU:HB2	42:DU:29:SER:H	1.47	0.43
43:DW:76:ARG:HB3	43:DW:76:ARG:NH1	2.33	0.43
48:D1:34:GLU:HB3	48:D1:50:GLU:HB3	2.00	0.43
50:D3:4:LYS:CD	50:D3:59:ALA:HA	2.48	0.43
50:D3:12:ARG:CG	50:D3:23:HIS:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:284:C:H2'	1:AA:285:C:C6	2.53	0.43
1:AA:336:A:O2'	1:AA:337:G:H5'	2.17	0.43
1:AA:454:G:O2'	1:AA:455:G:H5'	2.17	0.43
1:AA:489:C:H2'	1:AA:490:C:H6	1.84	0.43
1:AA:598:U:H2'	1:AA:599:C:C6	2.53	0.43
1:AA:601:G:H2'	1:AA:602:A:H8	1.83	0.43
1:AA:619:U:C2	3:AD:131:ILE:HD12	2.53	0.43
1:AA:740:U:O3'	14:AO:38:LEU:HD21	2.18	0.43
1:AA:1254:A:H61	1:AA:1283:U:H3	1.66	0.43
2:AC:71:ARG:HB3	2:AC:74:ILE:CG2	2.47	0.43
8:AI:3:ASN:HB3	8:AI:4:GLN:H	1.54	0.43
8:AI:25:GLY:HA3	8:AI:57:VAL:O	2.16	0.43
11:AL:56:LEU:HD11	11:AL:81:ILE:CD1	2.42	0.43
13:AN:84:ARG:HH11	13:AN:84:ARG:HG3	1.83	0.43
18:AS:68:HIS:NE2	18:AS:72:GLU:HG3	2.33	0.43
22:BA:15:A:H1'	22:BA:109:A:N7	2.33	0.43
22:BA:105:G:O2'	22:BA:106:G:H5'	2.19	0.43
23:BB:67:U:C4	23:BB:68:G:N7	2.86	0.43
23:BB:221:A:H2'	23:BB:266:G:N7	2.32	0.43
23:BB:279:A:H2'	23:BB:280:U:H5'	2.01	0.43
23:BB:286:U:O2'	23:BB:287:G:H5'	2.18	0.43
23:BB:390:U:H4'	23:BB:391:A:H5'	2.00	0.43
23:BB:540:C:H2'	23:BB:541:A:C8	2.53	0.43
23:BB:995:C:C4	31:BJ:2:LYS:HB3	2.53	0.43
23:BB:1272:A:N7	23:BB:1618:A:H1'	2.32	0.43
23:BB:1664:A:H1'	23:BB:2726:A:N1	2.33	0.43
23:BB:1801:A:H5'	23:BB:2203:U:O2'	2.18	0.43
23:BB:1826:G:H2'	23:BB:1827:U:C6	2.53	0.43
23:BB:2053:G:OP1	26:BD:149:ASN:C	2.56	0.43
23:BB:2290:G:H2'	23:BB:2291:U:C6	2.53	0.43
23:BB:2716:C:O2'	23:BB:2717:C:H5'	2.18	0.43
23:BB:2787:C:H2'	23:BB:2788:C:C6	2.53	0.43
23:BB:2806:C:H2'	23:BB:2807:U:O4'	2.18	0.43
23:BB:2811:G:C5'	26:BD:62:LYS:HD2	2.48	0.43
23:BB:2893:A:H4'	23:BB:2894:G:C5'	2.48	0.43
24:BV:14:LYS:HZ2	24:BV:18:ARG:HD2	1.80	0.43
24:BV:54:ALA:O	24:BV:57:TYR:N	2.50	0.43
25:BC:10:PRO:CD	25:BC:23:LEU:HD11	2.47	0.43
25:BC:65:ASP:OD2	25:BC:101:ARG:HB3	2.18	0.43
25:BC:184:GLU:H	25:BC:184:GLU:HG2	1.46	0.43
25:BC:209:ALA:HA	25:BC:213:ARG:NE	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:217:PRO:C	25:BC:219:VAL:H	2.20	0.43
26:BD:24:VAL:CG2	26:BD:193:VAL:HG11	2.27	0.43
28:BF:176:PHE:O	28:BF:177:ARG:HB3	2.17	0.43
29:BG:84:LYS:NZ	29:BG:84:LYS:HA	2.33	0.43
30:BH:6:LEU:HA	30:BH:15:LEU:HA	2.00	0.43
30:BH:41:LYS:O	30:BH:42:LYS:C	2.56	0.43
31:BJ:52:ASP:CG	31:BJ:53:TYR:H	2.20	0.43
31:BJ:98:GLU:O	31:BJ:100:VAL:N	2.51	0.43
33:BL:55:MET:O	33:BL:56:PRO:O	2.36	0.43
34:BM:15:GLY:O	34:BM:16:ARG:HB3	2.18	0.43
35:BN:34:ILE:O	35:BN:36:THR:HG22	2.18	0.43
38:BQ:16:ILE:HD12	38:BQ:17:LEU:H	1.77	0.43
38:BQ:97:ILE:HD13	38:BQ:100:PHE:HZ	1.79	0.43
39:BR:42:ALA:HA	39:BR:54:VAL:CG2	2.46	0.43
41:BT:6:ARG:HG3	41:BT:10:VAL:HG13	1.99	0.43
42:BU:60:LYS:HD2	42:BU:60:LYS:HA	1.81	0.43
44:BX:30:MET:CG	44:BX:31:GLN:N	2.77	0.43
47:B0:11:LYS:C	47:B0:13:GLY:H	2.22	0.43
51:B4:14:CYS:SG	51:B4:27:CYS:SG	3.14	0.43
52:BI:29:GLN:HE21	52:BI:29:GLN:HA	1.83	0.43
52:BI:64:ARG:C	52:BI:64:ARG:HD2	2.38	0.43
1:CA:538:G:H2'	1:CA:539:A:H8	1.83	0.43
1:CA:541:G:H2'	1:CA:542:G:H8	1.82	0.43
1:CA:607:A:H2'	1:CA:608:A:H8	1.83	0.43
1:CA:644:U:O2'	1:CA:645:G:H5'	2.18	0.43
1:CA:818:G:C3'	1:CA:819:A:H5''	2.47	0.43
1:CA:1206:G:H2'	1:CA:1207:G:O4'	2.18	0.43
1:CA:1294:G:H2'	1:CA:1295:U:C6	2.53	0.43
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.54	0.43
2:CC:42:LEU:O	2:CC:46:LEU:HG	2.18	0.43
8:CI:11:ARG:HD2	8:CI:12:LYS:HG3	2.00	0.43
13:CN:45:LEU:O	13:CN:48:GLN:HG3	2.18	0.43
13:CN:76:PHE:O	13:CN:78:LEU:HD13	2.18	0.43
15:CP:13:LYS:O	15:CP:15:PRO:HD3	2.17	0.43
18:CS:18:VAL:HG13	18:CS:42:ASN:ND2	2.34	0.43
18:CS:66:VAL:HG23	18:CS:67:GLY:H	1.82	0.43
20:CB:104:LYS:HZ2	20:CB:104:LYS:CB	2.31	0.43
23:DB:35:G:H2'	23:DB:36:G:O4'	2.18	0.43
23:DB:188:G:OP1	46:DZ:12:ILE:HG12	2.18	0.43
23:DB:483:A:OP2	23:DB:484:C:H5	2.01	0.43
23:DB:546:U:H5'	23:DB:546:U:O2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1025:G:OP1	23:DB:1025:G:H8	2.00	0.43
23:DB:1189:A:H2'	23:DB:1190:G:O4'	2.18	0.43
23:DB:1213:A:H62	23:DB:1236:G:H1'	1.83	0.43
23:DB:1671:U:H2'	23:DB:1673:G:OP2	2.19	0.43
23:DB:1819:A:OP1	25:DC:159:THR:HG21	2.18	0.43
23:DB:1922:G:H2'	23:DB:1923:U:O4'	2.17	0.43
23:DB:2228:G:H2'	23:DB:2229:U:C6	2.53	0.43
23:DB:2259:U:C2'	23:DB:2260:C:H5'	2.48	0.43
23:DB:2468:A:H4'	34:DM:55:ARG:HH21	1.83	0.43
23:DB:2590:A:H2'	23:DB:2591:C:H6	1.83	0.43
23:DB:2819:G:H2'	23:DB:2821:A:N7	2.32	0.43
25:DC:222:THR:OG1	25:DC:223:ALA:N	2.51	0.43
26:DD:34:VAL:HA	26:DD:90:PHE:CA	2.49	0.43
26:DD:40:LEU:O	26:DD:41:ALA:HB3	2.18	0.43
27:DE:6:LYS:CB	27:DE:11:ALA:HA	2.48	0.43
29:DG:155:PRO:O	29:DG:171:LYS:N	2.51	0.43
31:DJ:102:GLU:HB3	31:DJ:119:PHE:CZ	2.52	0.43
34:DM:9:PHE:N	34:DM:9:PHE:CD1	2.85	0.43
36:DO:26:LEU:HB2	36:DO:94:ARG:H	1.83	0.43
36:DO:30:ARG:CZ	36:DO:97:PHE:HD2	2.30	0.43
39:DR:49:ILE:HG13	39:DR:49:ILE:O	2.17	0.43
41:DT:36:LYS:O	41:DT:38:ALA:N	2.49	0.43
1:AA:8:A:H1'	4:AE:107:GLY:HA2	2.00	0.43
1:AA:179:A:H2'	1:AA:180:U:H6	1.83	0.43
1:AA:224:U:H2'	1:AA:225:C:C6	2.54	0.43
1:AA:554:A:H2'	1:AA:555:U:C6	2.53	0.43
1:AA:627:G:H2'	1:AA:628:G:H8	1.83	0.43
1:AA:777:A:H2'	1:AA:778:G:C8	2.53	0.43
1:AA:969:A:H2'	1:AA:970:C:O2	2.18	0.43
1:AA:989:U:H2'	1:AA:990:C:H6	1.84	0.43
1:AA:1348:U:OP1	8:AI:111:GLU:HB2	2.18	0.43
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.53	0.43
3:AD:125:ASN:HA	3:AD:141:VAL:HG23	2.00	0.43
3:AD:163:GLN:N	3:AD:163:GLN:OE1	2.52	0.43
4:AE:109:ALA:O	4:AE:113:VAL:HG13	2.18	0.43
6:AG:29:LEU:HD12	6:AG:104:VAL:CG1	2.48	0.43
8:AI:32:ARG:HH11	8:AI:32:ARG:HG2	1.83	0.43
8:AI:48:ARG:HA	8:AI:51:LEU:HD13	1.98	0.43
10:AK:15:VAL:O	10:AK:16:SER:HB2	2.17	0.43
12:AM:63:VAL:HB	12:AM:68:LEU:HG	2.00	0.43
18:AS:44:ILE:HA	18:AS:61:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:116:LEU:HD22	20:AB:140:LEU:HG	1.99	0.43
20:AB:164:ASP:OD2	20:AB:203:ASP:HB2	2.18	0.43
21:AU:5:VAL:HG13	21:AU:15:LEU:HD23	1.99	0.43
21:AU:11:PHE:CD2	2:CC:105:VAL:HG11	2.54	0.43
22:BA:78:A:H61	22:BA:98:G:H1'	1.83	0.43
23:BB:84:A:OP2	42:BU:91:LYS:HD3	2.18	0.43
23:BB:397:U:OP1	46:BZ:29:GLY:HA2	2.18	0.43
23:BB:490:C:H4'	23:BB:491:G:OP2	2.17	0.43
23:BB:503:A:H5''	23:BB:504:A:H3'	2.01	0.43
23:BB:545:U:H2'	23:BB:547:A:P	2.58	0.43
23:BB:622:G:H2'	23:BB:623:C:H6	1.82	0.43
23:BB:663:G:C5'	33:BL:25:SER:HB2	2.35	0.43
23:BB:1082:U:N3	23:BB:1086:A:C2	2.84	0.43
23:BB:1196:C:H2'	23:BB:1197:G:C8	2.54	0.43
23:BB:1268:A:H2'	23:BB:1269:A:O4'	2.19	0.43
23:BB:1281:G:H2'	23:BB:1282:U:O4'	2.18	0.43
23:BB:1426:G:H8	23:BB:1426:G:OP2	2.01	0.43
23:BB:1717:A:H2'	23:BB:1718:G:O4'	2.19	0.43
23:BB:2022:U:O2'	23:BB:2617:U:H5'	2.19	0.43
23:BB:2180:U:H2'	23:BB:2181:U:C5	2.52	0.43
23:BB:2379:G:H2'	23:BB:2380:C:H6	1.82	0.43
23:BB:2590:A:H2'	23:BB:2591:C:H6	1.83	0.43
24:BV:2:PHE:O	24:BV:3:THR:HG23	2.18	0.43
25:BC:155:ARG:O	25:BC:156:SER:C	2.57	0.43
27:BE:117:ARG:HA	27:BE:188:MET:CE	2.48	0.43
27:BE:173:THR:HA	27:BE:201:ALA:O	2.18	0.43
28:BF:12:VAL:CG1	28:BF:27:VAL:HG21	2.42	0.43
28:BF:14:LYS:HG3	28:BF:15:LEU:N	2.33	0.43
29:BG:94:ARG:NH1	29:BG:127:GLN:HB2	2.34	0.43
30:BH:9:VAL:HB	30:BH:35:LYS:HZ1	1.82	0.43
30:BH:32:PRO:C	30:BH:34:GLY:H	2.21	0.43
30:BH:37:VAL:O	30:BH:38:PRO:C	2.56	0.43
32:BK:87:LEU:HA	32:BK:94:PRO:HA	2.00	0.43
33:BL:91:ASP:OD1	33:BL:92:LEU:N	2.51	0.43
34:BM:1:MET:HA	34:BM:65:ILE:O	2.19	0.43
38:BQ:22:GLY:HA2	38:BQ:28:SER:HB3	1.99	0.43
38:BQ:63:ARG:HB3	38:BQ:63:ARG:CZ	2.48	0.43
39:BR:7:SER:HB2	39:BR:21:ARG:HH22	1.83	0.43
39:BR:20:VAL:HG13	39:BR:97:LYS:HZ1	1.83	0.43
39:BR:90:ARG:NH1	39:BR:91:GLN:N	2.62	0.43
40:BS:32:ALA:HA	40:BS:51:LEU:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:66:LYS:HA	41:BT:77:ARG:HA	2.00	0.43
43:BW:74:LYS:HB3	43:BW:75:ASN:H	1.51	0.43
49:B2:42:LEU:HD12	49:B2:43:THR:H	1.83	0.43
51:B4:23:ILE:O	51:B4:24:ARG:O	2.36	0.43
51:B4:25:VAL:HG23	51:B4:35:GLN:HB2	2.01	0.43
52:BI:17:ALA:C	52:BI:19:PRO:HD2	2.38	0.43
1:CA:645:G:O2'	1:CA:646:G:H5'	2.19	0.43
1:CA:746:A:H2'	1:CA:747:A:H8	1.83	0.43
1:CA:1142:G:H2'	1:CA:1143:G:C8	2.52	0.43
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.83	0.43
5:CF:85:ILE:HG22	5:CF:86:ARG:N	2.32	0.43
5:CF:92:THR:CG2	5:CF:93:LYS:H	2.31	0.43
6:CG:14:ASP:CB	6:CG:19:SER:H	2.32	0.43
7:CH:6:ILE:HD11	7:CH:31:LEU:HD23	2.00	0.43
8:CI:33:SER:HB2	8:CI:36:GLN:CG	2.48	0.43
11:CL:97:VAL:O	11:CL:99:GLY:N	2.50	0.43
12:CM:13:HIS:HA	12:CM:43:LYS:HA	2.00	0.43
12:CM:15:VAL:HG13	12:CM:33:LEU:HD12	1.99	0.43
18:CS:35:ARG:HB2	18:CS:71:GLY:CA	2.48	0.43
19:CT:32:LYS:O	19:CT:35:TYR:N	2.51	0.43
19:CT:56:ILE:O	19:CT:60:GLN:HG2	2.19	0.43
20:CB:202:ASN:ND2	20:CB:203:ASP:N	2.64	0.43
22:DA:87:U:N3	22:DA:89:U:OP1	2.52	0.43
22:DA:94:A:O2'	22:DA:95:U:H5'	2.17	0.43
22:DA:107:G:O2'	22:DA:108:A:H5'	2.18	0.43
23:DB:275:C:H2'	23:DB:276:U:O4'	2.18	0.43
23:DB:390:U:H1'	23:DB:391:A:C8	2.53	0.43
23:DB:834:G:O2'	23:DB:835:C:H5'	2.17	0.43
23:DB:996:A:H2'	23:DB:997:G:H8	1.84	0.43
23:DB:1082:U:N3	23:DB:1086:A:C2	2.87	0.43
23:DB:1348:C:H2'	23:DB:1349:C:H5'	1.99	0.43
23:DB:1999:C:H5''	23:DB:2723:C:O2'	2.17	0.43
23:DB:2090:A:O2'	46:DZ:49:ARG:CZ	2.66	0.43
23:DB:2270:A:H5''	23:DB:2271:G:OP2	2.19	0.43
23:DB:2693:G:O2'	23:DB:2694:G:H5'	2.18	0.43
24:DV:16:ALA:CA	24:DV:19:ARG:HH21	2.31	0.43
25:DC:19:VAL:HG12	25:DC:20:ASN:N	2.33	0.43
25:DC:168:GLY:O	25:DC:169:ALA:HB3	2.17	0.43
26:DD:138:LEU:HD11	26:DD:142:VAL:HB	1.99	0.43
27:DE:14:VAL:HG11	27:DE:16:GLU:CD	2.38	0.43
27:DE:51:GLU:N	27:DE:74:LYS:HZ1	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:112:LEU:HD11	33:DL:13:LYS:NZ	2.33	0.43
27:DE:195:GLN:HE21	27:DE:199:MET:HA	1.82	0.43
34:DM:17:ASN:HD22	34:DM:17:ASN:N	2.17	0.43
36:DO:89:ASP:O	36:DO:90:VAL:HB	2.18	0.43
37:DP:27:VAL:HG22	37:DP:28:LYS:O	2.18	0.43
38:DQ:79:ILE:HD12	38:DQ:91:ARG:HG3	2.00	0.43
39:DR:39:LEU:O	39:DR:41:ILE:N	2.50	0.43
43:DW:42:THR:H	43:DW:65:LYS:CG	2.30	0.43
44:DX:18:LEU:HD12	44:DX:47:ARG:NH2	2.33	0.43
47:D0:47:TYR:CD2	47:D0:51:ARG:HA	2.53	0.43
1:AA:538:G:H2'	1:AA:539:A:C8	2.54	0.43
1:AA:771:G:H2'	1:AA:772:U:C6	2.53	0.43
1:AA:844:G:H2'	1:AA:845:A:H5''	2.00	0.43
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.19	0.43
3:AD:2:ARG:NH1	3:AD:114:ARG:HD2	2.32	0.43
3:AD:89:LEU:O	3:AD:92:LEU:HB2	2.18	0.43
3:AD:100:VAL:HA	3:AD:103:ARG:CD	2.48	0.43
3:AD:169:TRP:O	3:AD:182:LYS:HB3	2.19	0.43
9:AJ:65:TYR:C	13:AN:98:ALA:HB2	2.39	0.43
11:AL:41:PRO:HG3	11:AL:46:SER:O	2.18	0.43
11:AL:43:LYS:N	11:AL:44:PRO:CD	2.80	0.43
18:AS:12:LEU:CD2	18:AS:15:LEU:HD23	2.49	0.43
18:AS:29:PRO:HB3	18:AS:47:THR:HB	2.01	0.43
21:AU:34:ARG:NH1	21:AU:39:LYS:HE3	2.33	0.43
22:BA:75:G:H5''	24:BV:12:GLN:OE1	2.19	0.43
23:BB:284:U:H2'	23:BB:285:G:C8	2.53	0.43
23:BB:392:U:O2'	23:BB:393:C:H5'	2.17	0.43
23:BB:438:G:H2'	23:BB:439:A:C8	2.54	0.43
23:BB:870:U:O2'	34:BM:8:LYS:HB3	2.18	0.43
23:BB:1072:C:N3	23:BB:1092:C:N4	2.66	0.43
23:BB:1228:G:H2'	23:BB:1229:C:C6	2.53	0.43
23:BB:1958:C:O2'	23:BB:1959:G:H5'	2.18	0.43
23:BB:1987:A:H2'	23:BB:1988:G:C8	2.53	0.43
23:BB:2200:C:O2	23:BB:2226:C:N4	2.51	0.43
23:BB:2243:U:O2	23:BB:2434:A:C2	2.71	0.43
24:BV:4:ILE:N	24:BV:62:THR:O	2.50	0.43
24:BV:77:VAL:HG12	34:BM:133:LYS:HZ1	1.84	0.43
25:BC:141:HIS:ND1	25:BC:142:ASN:N	2.64	0.43
25:BC:255:LYS:HZ2	25:BC:261:ARG:CZ	2.30	0.43
26:BD:67:HIS:NE2	26:BD:72:GLY:N	2.67	0.43
27:BE:151:GLY:O	27:BE:153:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:21:GLN:HG2	29:BG:38:ASP:HA	2.00	0.43
29:BG:57:TYR:OH	29:BG:59:ASP:HB2	2.18	0.43
29:BG:155:PRO:HB2	29:BG:172:GLU:HG3	2.00	0.43
30:BH:72:ILE:O	30:BH:72:ILE:HG23	2.18	0.43
30:BH:142:VAL:HG12	30:BH:143:ILE:H	1.83	0.43
31:BJ:102:GLU:HG2	31:BJ:103:ILE:H	1.83	0.43
33:BL:51:GLU:O	33:BL:52:GLY:C	2.55	0.43
33:BL:82:LEU:HA	33:BL:86:GLU:OE1	2.19	0.43
36:BO:86:GLY:O	36:BO:89:ASP:HB2	2.18	0.43
38:BQ:40:LYS:HA	38:BQ:43:GLN:HE21	1.82	0.43
41:BT:48:GLN:CG	41:BT:49:LYS:N	2.81	0.43
42:BU:27:VAL:O	42:BU:28:LEU:HG	2.19	0.43
43:BW:27:GLY:HA2	43:BW:60:ALA:CA	2.39	0.43
51:B4:33:HIS:H	51:B4:33:HIS:HD2	1.66	0.43
52:BI:121:ILE:HA	52:BI:124:MET:HG2	2.00	0.43
1:CA:394:G:H2'	1:CA:395:C:H6	1.83	0.43
1:CA:796:C:O2'	1:CA:797:C:H5'	2.17	0.43
1:CA:1420:U:O2'	1:CA:1421:G:H5'	2.19	0.43
1:CA:1526:G:H2'	1:CA:1527:U:C6	2.53	0.43
2:CC:35:ASP:O	2:CC:39:ARG:HG3	2.18	0.43
2:CC:76:ILE:HA	2:CC:83:VAL:CG2	2.49	0.43
3:CD:88:ASN:O	3:CD:92:LEU:N	2.51	0.43
5:CF:40:GLU:H	5:CF:61:LEU:HB2	1.82	0.43
6:CG:70:PRO:HD3	6:CG:102:TRP:HZ3	1.83	0.43
8:CI:9:GLY:O	8:CI:16:ALA:HB3	2.17	0.43
8:CI:56:MET:HA	8:CI:59:LYS:HB2	2.01	0.43
8:CI:115:VAL:HG22	8:CI:116:GLY:N	2.33	0.43
9:CJ:6:ILE:HD12	9:CJ:76:ILE:O	2.19	0.43
9:CJ:8:ILE:CG1	9:CJ:75:ASP:H	2.31	0.43
11:CL:14:LYS:HE2	11:CL:16:ALA:CB	2.47	0.43
12:CM:22:TYR:O	12:CM:24:VAL:N	2.50	0.43
15:CP:6:LEU:CD1	15:CP:71:VAL:HB	2.49	0.43
20:CB:138:ARG:HA	20:CB:141:GLU:CD	2.39	0.43
21:CU:14:ALA:N	21:CU:16:ARG:HH22	2.04	0.43
23:DB:90:U:O5'	23:DB:91:A:H5''	2.18	0.43
23:DB:138:U:O2'	23:DB:140:C:H5'	2.18	0.43
23:DB:217:A:H3'	23:DB:218:A:H8	1.82	0.43
23:DB:480:A:H2	23:DB:499:U:O2	2.01	0.43
23:DB:576:U:H2'	23:DB:577:G:C8	2.52	0.43
23:DB:704:G:HO2'	23:DB:705:A:P	2.40	0.43
23:DB:743:A:OP1	26:DD:134:HIS:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1064:C:H2'	23:DB:1065:U:O4'	2.17	0.43
23:DB:1386:C:H2'	23:DB:1387:A:H8	1.81	0.43
23:DB:1654:A:C4'	35:DN:1:MET:HG2	2.32	0.43
23:DB:2223:G:O2'	23:DB:2224:G:H5'	2.19	0.43
23:DB:2415:G:H4'	33:DL:66:PHE:CB	2.47	0.43
25:DC:12:ARG:HG3	25:DC:21:PRO:HD3	2.00	0.43
25:DC:140:VAL:O	25:DC:193:GLU:HG3	2.19	0.43
27:DE:76:PRO:HB3	27:DE:84:THR:HB	2.01	0.43
27:DE:192:ALA:O	27:DE:194:LYS:N	2.51	0.43
28:DF:57:ALA:HA	28:DF:62:GLN:O	2.19	0.43
29:DG:5:LYS:O	29:DG:68:ARG:HD2	2.18	0.43
29:DG:10:VAL:HA	29:DG:14:VAL:HG11	1.99	0.43
32:DK:39:ILE:N	32:DK:60:ALA:O	2.51	0.43
34:DM:4:PRO:HD3	34:DM:47:GLU:CG	2.48	0.43
35:DN:106:ASP:OD1	35:DN:106:ASP:C	2.56	0.43
36:DO:35:ILE:O	36:DO:36:TYR:HB2	2.18	0.43
39:DR:11:GLN:HB3	39:DR:21:ARG:NH1	2.32	0.43
41:DT:34:VAL:CG2	41:DT:35:ALA:N	2.79	0.43
42:DU:27:VAL:HB	42:DU:33:VAL:HG22	1.99	0.43
42:DU:29:SER:O	42:DU:30:SER:CB	2.58	0.43
43:DW:67:LYS:HG2	43:DW:71:LYS:C	2.39	0.43
44:DX:18:LEU:HA	44:DX:22:LEU:HB2	2.01	0.43
1:AA:709:U:H2'	1:AA:710:G:H8	1.83	0.43
1:AA:920:U:O2'	1:AA:921:U:H5'	2.19	0.43
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.83	0.43
3:AD:12:ARG:HG3	3:AD:33:ILE:HA	2.00	0.43
3:AD:169:TRP:CE2	3:AD:185:PRO:HB3	2.54	0.43
4:AE:17:VAL:HB	4:AE:34:ALA:HB2	2.00	0.43
5:AF:82:ASP:CG	25:BC:166:ARG:HH21	2.22	0.43
7:AH:9:MET:HE1	7:AH:32:LYS:O	2.19	0.43
12:AM:79:LEU:HD22	12:AM:86:ARG:NH2	2.34	0.43
13:AN:15:LEU:C	13:AN:17:ASP:H	2.21	0.43
13:AN:92:ILE:HG21	13:AN:95:LEU:HD23	1.99	0.43
15:AP:21:VAL:HG21	15:AP:60:TRP:CD1	2.53	0.43
19:AT:19:HIS:O	19:AT:23:ARG:HG2	2.18	0.43
20:AB:120:SER:HA	20:AB:125:PHE:CB	2.44	0.43
23:BB:6:A:O2'	23:BB:7:G:H5'	2.18	0.43
23:BB:282:A:H2'	23:BB:283:G:H8	1.82	0.43
23:BB:319:G:H2'	23:BB:320:A:O4'	2.18	0.43
23:BB:337:C:OP1	42:BU:81:ARG:NH2	2.51	0.43
23:BB:357:C:H2'	23:BB:358:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:764:A:N1	23:BB:1789:A:O2'	2.48	0.43
23:BB:858:G:N2	23:BB:2269:G:OP2	2.52	0.43
23:BB:871:U:H2'	23:BB:872:U:C6	2.51	0.43
23:BB:1064:C:C4'	52:BI:90:GLY:HA2	2.45	0.43
23:BB:1289:C:H2'	23:BB:1290:C:H6	1.83	0.43
23:BB:1824:G:H2'	23:BB:1825:U:H6	1.84	0.43
23:BB:1936:A:N6	23:BB:1963:U:N3	2.66	0.43
23:BB:2285:C:N4	48:B1:24:LYS:NZ	2.67	0.43
25:BC:22:GLU:HA	25:BC:202:ARG:HH21	1.83	0.43
25:BC:27:LYS:N	25:BC:28:PRO:HD3	2.31	0.43
26:BD:16:THR:OG1	37:BP:80:VAL:HB	2.19	0.43
26:BD:37:VAL:HG12	26:BD:38:LYS:NZ	2.34	0.43
26:BD:144:GLY:O	26:BD:145:SER:HB2	2.18	0.43
27:BE:108:ILE:H	27:BE:108:ILE:HD12	1.83	0.43
27:BE:117:ARG:H	27:BE:118:LEU:HD23	1.82	0.43
28:BF:107:VAL:CG1	28:BF:116:LEU:HD21	2.48	0.43
28:BF:177:ARG:NE	28:BF:178:LYS:N	2.66	0.43
29:BG:35:THR:O	29:BG:36:LEU:HD12	2.18	0.43
32:BK:24:VAL:HG22	32:BK:39:ILE:HD12	2.00	0.43
32:BK:102:PRO:HA	32:BK:121:GLU:CB	2.46	0.43
33:BL:4:ASN:C	33:BL:6:LEU:H	2.20	0.43
33:BL:35:HIS:ND1	33:BL:35:HIS:O	2.52	0.43
34:BM:31:PHE:CD2	34:BM:109:PRO:HB2	2.53	0.43
36:BO:41:ALA:O	36:BO:42:PRO:C	2.56	0.43
37:BP:13:LYS:HZ1	37:BP:17:PRO:HG3	1.78	0.43
37:BP:27:VAL:HG22	37:BP:28:LYS:N	2.34	0.43
37:BP:92:ARG:NH2	37:BP:110:LYS:HB3	2.34	0.43
37:BP:96:LEU:O	37:BP:97:TYR:C	2.57	0.43
40:BS:1:MET:HB3	40:BS:4:ILE:HG12	1.99	0.43
48:B1:31:GLU:HB3	48:B1:32:LYS:CE	2.49	0.43
52:BI:75:ALA:HB2	52:BI:112:LYS:HE2	2.00	0.43
1:CA:11:G:H2'	1:CA:12:U:C6	2.54	0.43
1:CA:24:U:O2'	1:CA:25:C:H5'	2.18	0.43
1:CA:191:G:H2'	1:CA:192:A:C8	2.53	0.43
1:CA:415:A:N3	1:CA:415:A:O4'	2.52	0.43
1:CA:429:U:H4'	1:CA:430:A:O5'	2.18	0.43
1:CA:709:U:H2'	1:CA:710:G:H8	1.84	0.43
1:CA:948:C:OP1	12:CM:105:ALA:HA	2.18	0.43
1:CA:984:C:H2'	1:CA:985:C:C6	2.54	0.43
1:CA:1121:U:O2'	1:CA:1122:U:H5'	2.18	0.43
2:CC:9:ILE:HG23	2:CC:10:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:10:ARG:HH11	2:CC:10:ARG:HG2	1.84	0.43
2:CC:61:LYS:HE2	2:CC:61:LYS:HB3	1.89	0.43
4:CE:87:VAL:CG1	4:CE:88:HIS:N	2.75	0.43
5:CF:57:ALA:HB3	5:CF:59:TYR:HE1	1.84	0.43
10:CK:35:ASP:N	10:CK:41:LEU:HD11	2.34	0.43
10:CK:70:ALA:N	10:CK:73:VAL:HG22	2.33	0.43
11:CL:28:GLN:HE21	11:CL:28:GLN:HB3	1.58	0.43
12:CM:33:LEU:HB3	12:CM:38:ILE:HB	1.99	0.43
13:CN:41:TRP:HD1	13:CN:43:ALA:HB2	1.82	0.43
19:CT:21:ALA:O	19:CT:25:SER:HB2	2.18	0.43
23:DB:250:G:OP2	50:D3:7:ARG:CZ	2.66	0.43
23:DB:285:G:H2'	23:DB:286:U:C6	2.53	0.43
23:DB:324:A:H61	23:DB:338:G:C2'	2.31	0.43
23:DB:324:A:C6	23:DB:339:U:H5'	2.54	0.43
23:DB:545:U:H3'	23:DB:546:U:H5''	2.01	0.43
23:DB:934:U:H2'	23:DB:935:C:H6	1.84	0.43
23:DB:1281:G:H2'	23:DB:1282:U:O4'	2.18	0.43
23:DB:1511:G:H2'	23:DB:1512:C:C6	2.54	0.43
23:DB:2230:G:H2'	23:DB:2231:U:H6	1.82	0.43
23:DB:2270:A:H3'	23:DB:2271:G:H8	1.83	0.43
23:DB:2373:G:O2'	23:DB:2374:C:H5'	2.19	0.43
23:DB:2508:G:O3'	23:DB:2555:U:H5'	2.18	0.43
23:DB:2619:C:H2'	23:DB:2620:C:C6	2.53	0.43
23:DB:2732:G:H5'	23:DB:2733:A:O4'	2.18	0.43
23:DB:2889:C:H2'	23:DB:2890:G:C8	2.53	0.43
24:DV:69:GLU:O	24:DV:70:ILE:HG23	2.18	0.43
25:DC:172:THR:CG2	25:DC:173:LEU:H	2.29	0.43
26:DD:32:ASN:HB2	26:DD:91:THR:HG22	2.00	0.43
26:DD:41:ALA:C	26:DD:43:ASP:H	2.22	0.43
26:DD:110:THR:HG21	26:DD:169:ARG:HH21	1.84	0.43
26:DD:146:ILE:CD1	26:DD:155:VAL:HG13	2.47	0.43
27:DE:46:GLN:HG3	27:DE:49:ARG:CZ	2.49	0.43
27:DE:198:GLU:HB3	27:DE:199:MET:H	1.55	0.43
28:DF:23:SER:C	28:DF:25:MET:N	2.71	0.43
30:DH:135:HIS:CD2	30:DH:138:VAL:HG23	2.54	0.43
31:DJ:67:ASN:C	31:DJ:69:ARG:H	2.22	0.43
31:DJ:110:PRO:O	31:DJ:111:LYS:HB2	2.18	0.43
32:DK:2:ILE:N	32:DK:2:ILE:HD12	2.32	0.43
34:DM:5:LYS:HE2	34:DM:8:LYS:HD2	2.00	0.43
35:DN:45:ARG:CZ	35:DN:95:THR:HB	2.48	0.43
36:DO:86:GLY:C	36:DO:88:LYS:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:50:ARG:HG3	37:DP:99:LEU:H	1.84	0.43
39:DR:35:PHE:O	39:DR:63:VAL:HG23	2.18	0.43
41:DT:92:ASN:C	41:DT:93:LEU:HD12	2.37	0.43
42:DU:39:ASN:HB3	42:DU:59:GLU:HB2	2.01	0.43
42:DU:85:ARG:O	42:DU:87:GLU:HG3	2.19	0.43
44:DX:7:ARG:HB3	44:DX:7:ARG:HH11	1.82	0.43
44:DX:23:ARG:O	44:DX:26:PHE:HB2	2.19	0.43
1:AA:82:G:C6	1:AA:88:U:O2	2.71	0.43
1:AA:177:G:N3	1:AA:177:G:O4'	2.51	0.43
1:AA:473:U:N3	1:AA:474:G:N7	2.67	0.43
1:AA:1014:A:H2	1:AA:1219:A:H1'	1.83	0.43
1:AA:1033:G:H3'	1:AA:1034:G:H5''	2.01	0.43
1:AA:1048:G:H4'	13:AN:2:LYS:HZ2	1.82	0.43
1:AA:1073:U:O3'	20:AB:104:LYS:NZ	2.51	0.43
1:AA:1300:G:O2'	1:AA:1301:U:O5'	2.37	0.43
1:AA:1389:C:H2'	1:AA:1390:U:C6	2.54	0.43
2:AC:160:GLU:O	2:AC:160:GLU:HG2	2.19	0.43
3:AD:151:GLN:HB3	3:AD:154:VAL:CG1	2.49	0.43
4:AE:95:MET:CE	4:AE:114:LEU:HD21	2.48	0.43
4:AE:114:LEU:CD2	4:AE:119:VAL:HG21	2.47	0.43
8:AI:86:LEU:HD13	8:AI:86:LEU:N	2.34	0.43
10:AK:88:PRO:CD	21:AU:28:LEU:HD22	2.48	0.43
18:AS:31:ARG:NH2	18:AS:55:GLN:HE22	2.16	0.43
22:BA:14:U:H5''	22:BA:71:C:O4'	2.18	0.43
22:BA:78:A:C2	22:BA:99:A:C4	3.06	0.43
23:BB:138:U:H2'	23:BB:140:C:C2	2.53	0.43
23:BB:181:A:O2'	23:BB:182:A:H5'	2.19	0.43
23:BB:224:U:H2'	23:BB:225:C:O4'	2.18	0.43
23:BB:264:C:O2'	23:BB:265:A:H5''	2.19	0.43
23:BB:372:G:N2	23:BB:400:G:H2'	2.34	0.43
23:BB:373:U:O2'	23:BB:374:A:H5'	2.18	0.43
23:BB:409:G:O2'	23:BB:410:G:H5'	2.18	0.43
23:BB:500:G:N2	23:BB:502:A:H3'	2.34	0.43
23:BB:535:G:O2'	38:BQ:52:ARG:HD3	2.18	0.43
23:BB:730:A:H3'	54:BB:3595:HOH:O	2.19	0.43
23:BB:1407:G:H2'	23:BB:1408:G:H8	1.84	0.43
23:BB:2133:G:N3	23:BB:2133:G:C2'	2.80	0.43
23:BB:2648:G:H2'	23:BB:2649:C:H6	1.83	0.43
23:BB:2663:G:H2'	23:BB:2664:G:C8	2.53	0.43
23:BB:2691:C:H2'	23:BB:2692:G:H8	1.84	0.43
23:BB:2720:U:H2'	23:BB:2721:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BV:4:ILE:HB	24:BV:63:ILE:CA	2.40	0.43
25:BC:78:GLU:H	25:BC:93:VAL:H	1.66	0.43
26:BD:23:PRO:HA	26:BD:190:LYS:N	2.33	0.43
26:BD:108:ASP:HB2	26:BD:173:GLN:HA	2.01	0.43
26:BD:109:VAL:HG22	26:BD:203:VAL:HG22	2.00	0.43
27:BE:48:THR:CG2	27:BE:49:ARG:N	2.52	0.43
27:BE:83:VAL:O	27:BE:83:VAL:HG13	2.19	0.43
27:BE:144:GLU:C	27:BE:146:VAL:N	2.71	0.43
29:BG:94:ARG:HH11	29:BG:94:ARG:CB	2.31	0.43
29:BG:122:ALA:O	29:BG:123:GLU:HG3	2.19	0.43
30:BH:82:SER:O	30:BH:90:LEU:HD23	2.18	0.43
33:BL:118:THR:HG23	33:BL:119:PRO:CD	2.41	0.43
35:BN:65:LEU:HD23	35:BN:69:ARG:HG3	1.99	0.43
35:BN:78:LYS:O	35:BN:82:GLU:HB2	2.19	0.43
37:BP:60:VAL:HB	37:BP:61:ARG:H	1.23	0.43
38:BQ:52:ARG:NH1	38:BQ:55:GLN:HE21	2.17	0.43
40:BS:28:LYS:HD3	40:BS:29:VAL:H	1.83	0.43
42:BU:2:ALA:O	42:BU:4:ILE:N	2.46	0.43
43:BW:44:PHE:H	43:BW:76:ARG:HG3	1.83	0.43
44:BX:14:LEU:HD22	44:BX:57:LEU:HD22	1.99	0.43
46:BZ:58:ASP:O	46:BZ:59:ARG:HD3	2.18	0.43
46:BZ:59:ARG:O	46:BZ:60:PHE:CG	2.71	0.43
47:B0:35:GLU:CG	47:B0:36:LYS:N	2.81	0.43
47:B0:45:ASP:HB3	47:B0:54:ILE:O	2.17	0.43
52:BI:17:ALA:O	52:BI:18:ASN:CB	2.67	0.43
52:BI:96:LYS:HG3	52:BI:138:VAL:HG23	1.99	0.43
1:CA:91:U:H2'	1:CA:92:U:C6	2.54	0.43
1:CA:484:G:H4'	1:CA:485:U:H5'	2.00	0.43
1:CA:643:C:H4'	7:CH:31:LEU:HD22	2.00	0.43
1:CA:648:A:H2'	1:CA:649:A:C8	2.54	0.43
1:CA:953:G:H3'	1:CA:954:G:H8	1.83	0.43
1:CA:1204:A:H2'	1:CA:1205:U:C6	2.53	0.43
1:CA:1330:U:OP1	12:CM:22:TYR:O	2.36	0.43
2:CC:53:ARG:HA	2:CC:113:LYS:HZ3	1.83	0.43
4:CE:104:ILE:C	4:CE:104:ILE:HD13	2.38	0.43
7:CH:74:ILE:O	7:CH:74:ILE:HG23	2.18	0.43
11:CL:20:VAL:HA	11:CL:94:TYR:HE2	1.83	0.43
23:DB:231:A:H3'	23:DB:232:G:C8	2.54	0.43
23:DB:454:A:C3'	23:DB:455:C:H5'	2.48	0.43
23:DB:512:G:OP1	23:DB:512:G:H4'	2.18	0.43
23:DB:573:U:N3	23:DB:2031:A:OP1	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:713:G:O2'	23:DB:714:U:H5'	2.19	0.43
23:DB:1552:A:C2'	23:DB:1553:A:H5'	2.48	0.43
23:DB:1607:C:N4	23:DB:1622:G:OP2	2.51	0.43
23:DB:1864:U:O2'	23:DB:1865:U:H5'	2.17	0.43
23:DB:1946:U:H2'	23:DB:1947:C:H6	1.83	0.43
23:DB:2016:U:H2'	23:DB:2017:U:C6	2.54	0.43
23:DB:2065:C:H1'	23:DB:2449:U:O2	2.19	0.43
23:DB:2070:A:H2'	23:DB:2071:A:C8	2.53	0.43
25:DC:56:GLY:CA	25:DC:214:GLY:H	2.30	0.43
25:DC:143:VAL:O	25:DC:152:GLN:HB2	2.19	0.43
25:DC:196:ASN:HB2	25:DC:199:HIS:CE1	2.54	0.43
26:DD:81:GLU:CG	26:DD:82:PHE:N	2.81	0.43
27:DE:6:LYS:CG	27:DE:7:ASP:H	2.32	0.43
27:DE:149:ILE:O	27:DE:149:ILE:HG13	2.18	0.43
31:DJ:5:THR:HG23	31:DJ:7:LYS:HD3	2.00	0.43
33:DL:90:VAL:C	33:DL:92:LEU:H	2.22	0.43
34:DM:127:LYS:CG	34:DM:128:THR:H	2.31	0.43
34:DM:133:LYS:HD2	34:DM:134:THR:O	2.18	0.43
37:DP:51:ASN:HB2	37:DP:60:VAL:HB	2.01	0.43
38:DQ:70:GLN:HG2	38:DQ:71:ASN:H	1.80	0.43
41:DT:3:ARG:H	41:DT:3:ARG:HG2	1.62	0.43
41:DT:40:LYS:HB3	41:DT:58:VAL:CG2	2.48	0.43
41:DT:58:VAL:HG12	41:DT:59:ASN:H	1.83	0.43
47:D0:36:LYS:HE3	47:D0:48:TYR:CE1	2.51	0.43
1:AA:93:U:H2'	1:AA:95:C:C5	2.53	0.43
1:AA:144:G:H2'	1:AA:145:G:O4'	2.19	0.43
1:AA:644:U:O2'	1:AA:645:G:H5'	2.19	0.43
1:AA:818:G:O2'	1:AA:819:A:H5''	2.19	0.43
1:AA:1114:C:H2'	1:AA:1115:U:O4'	2.19	0.43
2:AC:111:ASP:OD2	2:AC:114:LEU:HG	2.19	0.43
3:AD:19:PHE:CB	3:AD:110:ARG:HH12	2.30	0.43
4:AE:49:TYR:HE2	4:AE:133:ILE:HG12	1.83	0.43
4:AE:155:LYS:HG3	7:AH:65:PHE:HB2	2.01	0.43
8:AI:9:GLY:HA2	8:AI:80:HIS:CD2	2.53	0.43
10:AK:69:CYS:O	10:AK:71:ASP:N	2.51	0.43
18:AS:62:THR:HG22	18:AS:63:ASP:N	2.33	0.43
19:AT:66:ILE:HG23	19:AT:70:LYS:CD	2.48	0.43
20:AB:98:GLY:C	20:AB:100:LEU:H	2.22	0.43
23:BB:36:G:C2	23:BB:37:C:C2	3.07	0.43
23:BB:86:G:OP2	42:BU:28:LEU:HB3	2.19	0.43
23:BB:849:A:O2'	45:BY:20:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1050:A:H2'	23:BB:1051:G:O4'	2.18	0.43
23:BB:1079:C:O2'	52:BI:133:ARG:CZ	2.66	0.43
23:BB:2241:A:H2'	23:BB:2242:G:H8	1.78	0.43
23:BB:2355:G:O3'	43:BW:20:LEU:HD22	2.19	0.43
23:BB:2708:G:O2'	23:BB:2709:G:H5'	2.19	0.43
23:BB:2848:G:C8	37:BP:96:LEU:HD23	2.54	0.43
25:BC:47:ARG:HB3	25:BC:48:ILE:H	1.60	0.43
25:BC:160:TYR:HA	25:BC:193:GLU:HG2	2.01	0.43
25:BC:196:ASN:O	25:BC:199:HIS:HB2	2.18	0.43
26:BD:31:ALA:O	26:BD:32:ASN:ND2	2.51	0.43
26:BD:52:THR:N	26:BD:75:ALA:HB1	2.33	0.43
27:BE:127:GLU:OE1	27:BE:130:LYS:HG3	2.19	0.43
27:BE:149:ILE:HA	27:BE:168:ASP:O	2.18	0.43
28:BF:121:PHE:CE2	28:BF:166:ARG:N	2.87	0.43
29:BG:93:TYR:N	29:BG:93:TYR:CD1	2.84	0.43
30:BH:125:THR:HA	30:BH:146:VAL:CB	2.46	0.43
32:BK:63:VAL:HG21	32:BK:85:VAL:HG21	2.00	0.43
34:BM:67:VAL:HB	34:BM:100:LYS:CG	2.39	0.43
34:BM:82:MET:HB2	34:BM:84:LYS:CD	2.49	0.43
35:BN:20:MET:H	35:BN:20:MET:HG2	1.58	0.43
35:BN:94:TYR:HB3	35:BN:95:THR:H	1.70	0.43
36:BO:24:THR:HG22	36:BO:41:ALA:HA	2.00	0.43
36:BO:55:GLU:HA	36:BO:62:LEU:HB2	2.01	0.43
37:BP:18:SER:C	37:BP:20:ARG:H	2.21	0.43
37:BP:47:ILE:HG23	37:BP:63:ILE:CB	2.49	0.43
37:BP:52:ARG:CB	37:BP:60:VAL:HG11	2.22	0.43
39:BR:2:TYR:HB2	39:BR:44:GLY:O	2.19	0.43
41:BT:6:ARG:C	41:BT:8:LEU:H	2.21	0.43
42:BU:39:ASN:HD21	42:BU:42:LYS:HE2	1.83	0.43
42:BU:90:LYS:CG	42:BU:91:LYS:H	2.32	0.43
44:BX:36:GLN:H	44:BX:36:GLN:CD	2.21	0.43
50:B3:23:HIS:HB2	50:B3:24:LYS:H	1.47	0.43
51:B4:14:CYS:SG	51:B4:25:VAL:O	2.77	0.43
1:CA:93:U:O5'	1:CA:93:U:H6	2.01	0.43
1:CA:177:G:N3	1:CA:177:G:O4'	2.51	0.43
1:CA:337:G:O2'	1:CA:338:A:H5'	2.19	0.43
1:CA:463:U:H5'	1:CA:464:U:OP2	2.18	0.43
1:CA:813:U:O2'	1:CA:814:A:H5'	2.19	0.43
1:CA:1032:G:H2'	1:CA:1033:G:C4'	2.49	0.43
1:CA:1300:G:C2'	1:CA:1301:U:OP2	2.67	0.43
4:CE:81:GLN:NE2	4:CE:148:SER:HA	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CF:64:VAL:CG1	5:CF:65:GLU:N	2.81	0.43
5:CF:100:SER:N	17:CR:23:LYS:NZ	2.66	0.43
6:CG:14:ASP:HB3	6:CG:18:GLY:H	1.79	0.43
8:CI:46:VAL:O	8:CI:49:GLN:HB2	2.19	0.43
8:CI:91:GLU:N	8:CI:91:GLU:CD	2.72	0.43
10:CK:69:CYS:O	10:CK:73:VAL:N	2.51	0.43
10:CK:81:LEU:HD22	10:CK:104:PHE:CD1	2.54	0.43
12:CM:63:VAL:HG12	12:CM:68:LEU:HB2	2.01	0.43
13:CN:60:ARG:O	13:CN:61:ASN:CB	2.62	0.43
14:CO:87:ARG:HA	14:CO:87:ARG:NE	2.34	0.43
18:CS:35:ARG:NH2	18:CS:52:ASN:ND2	2.67	0.43
19:CT:44:ALA:O	19:CT:48:LYS:HB3	2.18	0.43
19:CT:66:ILE:CA	19:CT:70:LYS:HZ2	2.31	0.43
20:CB:68:PHE:HA	20:CB:161:PHE:O	2.19	0.43
22:DA:15:A:H1'	22:DA:109:A:C5	2.54	0.43
22:DA:76:G:O2'	22:DA:77:U:H5'	2.18	0.43
22:DA:116:G:H4'	36:DO:54:VAL:HG13	2.01	0.43
23:DB:97:C:H2'	23:DB:98:G:O4'	2.18	0.43
23:DB:588:U:O4	23:DB:670:A:H1'	2.18	0.43
23:DB:828:U:H2'	23:DB:829:A:C8	2.53	0.43
23:DB:841:G:O2'	23:DB:842:U:H5'	2.18	0.43
23:DB:929:U:H1'	45:DY:24:LEU:O	2.18	0.43
23:DB:1008:A:N6	23:DB:1136:G:C6	2.87	0.43
23:DB:1068:G:C6	23:DB:1069:A:N6	2.87	0.43
23:DB:1322:A:H2'	23:DB:1323:C:H5'	1.99	0.43
23:DB:1408:G:O2'	23:DB:1409:U:H5'	2.19	0.43
23:DB:1534:U:O2'	23:DB:1535:A:H8	2.01	0.43
23:DB:1796:U:O3'	25:DC:251:THR:HA	2.18	0.43
23:DB:1814:G:H5'	25:DC:51:ARG:HG2	2.00	0.43
23:DB:1911:U:H2'	23:DB:1918:A:C2	2.54	0.43
23:DB:2349:G:OP2	50:D3:41:ARG:HD3	2.18	0.43
23:DB:2438:U:O2'	23:DB:2439:A:H5''	2.19	0.43
23:DB:2751:G:OP2	29:DG:2:ARG:HG3	2.18	0.43
25:DC:22:GLU:HA	25:DC:202:ARG:HH21	1.83	0.43
25:DC:209:ALA:O	25:DC:210:ALA:HB2	2.18	0.43
26:DD:22:ILE:HG23	26:DD:191:GLY:N	2.33	0.43
26:DD:52:THR:HB	26:DD:53:GLY:H	1.58	0.43
27:DE:147:LEU:HD22	27:DE:167:VAL:HG22	2.00	0.43
30:DH:87:GLU:HB2	30:DH:89:LYS:HZ3	1.82	0.43
31:DJ:17:VAL:CG2	31:DJ:139:VAL:HB	2.49	0.43
33:DL:2:ARG:HH22	33:DL:6:LEU:CD1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:118:THR:O	33:DL:119:PRO:C	2.57	0.43
34:DM:50:ARG:O	34:DM:53:MET:HG3	2.18	0.43
35:DN:54:LEU:HD11	35:DN:65:LEU:HB3	2.01	0.43
37:DP:111:GLU:O	37:DP:113:LEU:N	2.51	0.43
39:DR:87:GLN:O	39:DR:89:HIS:N	2.52	0.43
40:DS:29:VAL:CG2	40:DS:71:VAL:HG23	2.33	0.43
42:DU:57:ILE:HD13	42:DU:58:VAL:O	2.19	0.43
42:DU:95:PHE:HB2	42:DU:99:SER:O	2.18	0.43
43:DW:24:ARG:HE	43:DW:58:LEU:HB2	1.82	0.43
43:DW:66:VAL:HG13	43:DW:67:LYS:N	2.28	0.43
43:DW:72:GLY:C	43:DW:74:LYS:N	2.70	0.43
47:D0:29:VAL:HG22	47:D0:32:THR:HG23	2.00	0.43
51:D4:26:ILE:CD1	51:D4:34:LYS:HA	2.48	0.43
52:DI:32:VAL:HG12	52:DI:33:ASN:N	2.34	0.43
1:AA:93:U:H2'	1:AA:95:C:H5	1.82	0.43
1:AA:532:A:N6	2:AC:191:THR:HB	2.33	0.43
1:AA:697:U:H2'	1:AA:698:G:H5'	2.00	0.43
1:AA:973:G:O2'	9:AJ:56:HIS:HA	2.18	0.43
1:AA:978:A:O2'	1:AA:1322:C:H5	2.02	0.43
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.19	0.43
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.82	0.43
1:AA:1244:G:H2'	1:AA:1245:C:H6	1.81	0.43
1:AA:1256:A:O2'	1:AA:1257:A:H5''	2.18	0.43
1:AA:1483:A:H2	23:BB:1959:G:HO2'	1.62	0.43
3:AD:147:LYS:HE3	3:AD:147:LYS:N	2.34	0.43
5:AF:7:VAL:HG23	5:AF:60:VAL:O	2.17	0.43
5:AF:88:MET:HE1	5:AF:90:MET:HG3	2.00	0.43
7:AH:69:ALA:HB3	7:AH:72:GLU:OE2	2.19	0.43
10:AK:57:SER:O	10:AK:90:PRO:HG2	2.19	0.43
15:AP:67:ILE:CD1	15:AP:72:ALA:HA	2.49	0.43
20:AB:110:ILE:O	20:AB:113:LEU:HB3	2.18	0.43
20:AB:175:ALA:C	20:AB:177:ASN:H	2.20	0.43
23:BB:18:U:O2'	23:BB:19:A:H5'	2.18	0.43
23:BB:144:A:H8	23:BB:144:A:OP2	2.00	0.43
23:BB:374:A:H61	23:BB:400:G:H1'	1.84	0.43
23:BB:381:G:O2'	23:BB:382:A:H5'	2.19	0.43
23:BB:481:G:OP2	42:BU:43:LYS:HG3	2.18	0.43
23:BB:910:A:H2	23:BB:2264:C:O2	2.01	0.43
23:BB:963:U:H2'	23:BB:964:C:C6	2.54	0.43
23:BB:1038:G:H2'	23:BB:1039:A:H8	1.80	0.43
23:BB:1113:U:H5''	29:BG:1:SER:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1410:G:H2'	23:BB:1411:U:H6	1.80	0.43
23:BB:1552:A:C2'	23:BB:1553:A:H5'	2.47	0.43
23:BB:1987:A:H2'	23:BB:1988:G:H8	1.84	0.43
23:BB:2578:G:N3	26:BD:145:SER:HB3	2.34	0.43
23:BB:2581:G:H2'	23:BB:2581:G:N3	2.33	0.43
23:BB:2642:G:O2'	23:BB:2643:G:H5'	2.19	0.43
23:BB:2751:G:H5''	29:BG:2:ARG:O	2.18	0.43
23:BB:2805:C:O2'	23:BB:2806:C:H5'	2.19	0.43
24:BV:42:LEU:HD12	24:BV:47:VAL:HG11	2.01	0.43
25:BC:253:GLY:O	25:BC:254:LYS:HG3	2.19	0.43
26:BD:1:MET:HB2	26:BD:84:LEU:HD22	2.01	0.43
26:BD:115:GLY:HA2	26:BD:165:MET:CE	2.48	0.43
27:BE:4:VAL:HG13	27:BE:5:LEU:N	2.33	0.43
27:BE:108:ILE:HD12	27:BE:108:ILE:N	2.34	0.43
28:BF:170:ALA:HA	28:BF:173:ASP:OD2	2.18	0.43
30:BH:130:VAL:O	30:BH:142:VAL:N	2.45	0.43
32:BK:99:ILE:HD12	32:BK:99:ILE:N	2.34	0.43
35:BN:33:ILE:HG22	35:BN:113:ILE:O	2.18	0.43
35:BN:114:GLU:OE1	47:B0:52:LYS:NZ	2.51	0.43
36:BO:87:ILE:CG1	36:BO:88:LYS:H	2.31	0.43
37:BP:27:VAL:HG22	37:BP:28:LYS:O	2.18	0.43
39:BR:78:ARG:HD3	39:BR:87:GLN:C	2.39	0.43
40:BS:34:ASP:HA	40:BS:38:TYR:CD2	2.53	0.43
42:BU:6:ARG:C	42:BU:8:ASP:N	2.71	0.43
42:BU:22:GLY:HA2	42:BU:36:GLU:HB2	2.01	0.43
46:BZ:9:TYR:CE1	46:BZ:11:GLU:HB2	2.53	0.43
46:BZ:30:HIS:C	46:BZ:48:GLN:HG2	2.39	0.43
48:B1:49:LYS:HG2	48:B1:50:GLU:O	2.18	0.43
1:CA:140:U:H2'	1:CA:141:G:H8	1.84	0.43
1:CA:178:C:O2'	1:CA:179:A:H5'	2.19	0.43
1:CA:262:A:H5''	19:CT:70:LYS:HD2	2.01	0.43
1:CA:367:U:OP1	1:CA:395:C:H1'	2.19	0.43
1:CA:394:G:H2'	1:CA:395:C:C6	2.54	0.43
1:CA:576:C:OP2	1:CA:576:C:H3'	2.18	0.43
1:CA:716:A:N3	10:CK:118:ASN:O	2.51	0.43
1:CA:902:G:H2'	1:CA:903:G:C8	2.54	0.43
1:CA:1125:U:OP1	9:CJ:37:ARG:NH1	2.52	0.43
1:CA:1151:A:O2'	1:CA:1152:A:H8	2.02	0.43
2:CC:129:PHE:O	2:CC:133:MET:HG3	2.18	0.43
4:CE:76:ASN:O	4:CE:77:ASN:HB3	2.19	0.43
4:CE:93:VAL:HG13	4:CE:110:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CF:12:PRO:HB3	5:CF:56:LYS:O	2.19	0.43
5:CF:72:ASP:HA	5:CF:75:GLU:HB3	2.00	0.43
5:CF:100:SER:H	17:CR:23:LYS:HZ1	1.67	0.43
8:CI:80:HIS:HE1	8:CI:103:VAL:O	2.01	0.43
9:CJ:65:TYR:CE1	13:CN:84:ARG:HA	2.52	0.43
10:CK:19:VAL:CG2	10:CK:34:THR:HG22	2.36	0.43
11:CL:19:ASN:HB3	11:CL:85:ARG:HD2	2.00	0.43
13:CN:11:LYS:HA	13:CN:11:LYS:NZ	2.34	0.43
16:CQ:10:ARG:NE	16:CQ:11:VAL:H	2.16	0.43
16:CQ:35:LYS:O	16:CQ:37:ILE:HG23	2.19	0.43
18:CS:10:ILE:HG22	18:CS:37:SER:HB2	2.00	0.43
20:CB:42:LEU:C	20:CB:44:LYS:H	2.21	0.43
20:CB:186:VAL:HG21	20:CB:198:VAL:HG13	2.01	0.43
20:CB:205:ALA:O	20:CB:209:VAL:HG22	2.19	0.43
21:CU:49:ALA:O	21:CU:52:VAL:HG12	2.18	0.43
23:DB:459:U:O2'	23:DB:460:A:H5'	2.19	0.43
23:DB:819:A:OP2	23:DB:1187:G:N2	2.51	0.43
23:DB:850:U:O5'	23:DB:850:U:H6	2.01	0.43
23:DB:902:C:O2'	23:DB:903:C:H5'	2.19	0.43
23:DB:1623:G:O2'	23:DB:1624:U:H5'	2.18	0.43
23:DB:1864:U:OP1	23:DB:2411:A:H5'	2.17	0.43
23:DB:2065:C:H2'	23:DB:2066:C:H6	1.83	0.43
23:DB:2373:G:H2'	23:DB:2374:C:C6	2.53	0.43
24:DV:21:ARG:NH2	24:DV:88:HIS:H	2.17	0.43
25:DC:16:VAL:O	25:DC:17:LYS:HB2	2.19	0.43
25:DC:45:ASN:ND2	25:DC:50:THR:OG1	2.52	0.43
25:DC:194:VAL:HB	25:DC:195:GLY:H	1.59	0.43
25:DC:224:MET:HG3	25:DC:233:GLY:N	2.33	0.43
26:DD:21:SER:O	26:DD:23:PRO:HD3	2.19	0.43
26:DD:176:ASP:OD2	26:DD:190:LYS:HD2	2.18	0.43
30:DH:114:GLU:HB3	30:DH:133:GLN:HG3	2.00	0.43
31:DJ:9:GLU:O	31:DJ:9:GLU:HG2	2.17	0.43
31:DJ:25:LEU:HD11	31:DJ:63:ALA:N	2.33	0.43
33:DL:39:LYS:HZ2	33:DL:39:LYS:N	2.16	0.43
35:DN:117:ASP:CG	35:DN:118:ARG:N	2.72	0.43
39:DR:18:GLN:HA	39:DR:99:THR:HA	2.01	0.43
41:DT:8:LEU:HD21	44:DX:26:PHE:CZ	2.54	0.43
43:DW:67:LYS:HD3	43:DW:68:PHE:H	1.84	0.43
44:DX:18:LEU:HD12	44:DX:47:ARG:HH22	1.82	0.43
45:DY:47:ILE:O	45:DY:51:SER:N	2.52	0.43
46:DZ:59:ARG:HB2	46:DZ:60:PHE:H	1.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:474:G:H2'	1:AA:475:C:H6	1.83	0.43
1:AA:493:A:N3	1:AA:493:A:O4'	2.52	0.43
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.19	0.43
1:AA:1291:U:O2'	1:AA:1292:G:H5'	2.18	0.43
1:AA:1454:G:H2'	1:AA:1455:G:O4'	2.19	0.43
5:AF:68:GLN:O	5:AF:71:ILE:HG13	2.19	0.43
6:AG:94:ARG:NH1	6:AG:98:LEU:HD21	2.34	0.43
7:AH:49:LYS:CG	7:AH:50:VAL:H	2.27	0.43
12:AM:84:CYS:SG	12:AM:86:ARG:HB3	2.59	0.43
16:AQ:29:LYS:HA	16:AQ:35:LYS:C	2.39	0.43
19:AT:40:ALA:O	19:AT:41:GLY:C	2.56	0.43
20:AB:59:ILE:CD1	20:AB:66:ILE:HD11	2.48	0.43
21:AU:11:PHE:HD1	21:AU:11:PHE:O	2.02	0.43
22:BA:48:U:H2'	22:BA:49:C:H6	1.80	0.43
23:BB:39:G:O2'	23:BB:40:U:H5'	2.18	0.43
23:BB:458:G:H22	23:BB:469:G:H2'	1.84	0.43
23:BB:526:A:N3	23:BB:2044:C:H1'	2.34	0.43
23:BB:527:C:H5'	54:BB:3416:HOH:O	2.19	0.43
23:BB:952:G:C6	23:BB:966:G:C6	3.07	0.43
23:BB:1076:C:H4'	52:BI:94:LYS:HZ2	1.82	0.43
23:BB:1115:G:H2'	23:BB:1116:G:H8	1.84	0.43
23:BB:1205:A:C4'	23:BB:1206:G:OP2	2.67	0.43
23:BB:1254:A:H2'	27:BE:69:ARG:NH1	2.32	0.43
23:BB:1657:U:OP1	26:BD:139:SER:O	2.36	0.43
23:BB:1675:C:O2	26:BD:134:HIS:CG	2.71	0.43
23:BB:1791:A:H1'	25:BC:206:LYS:HZ1	1.84	0.43
23:BB:2293:G:H2'	23:BB:2294:G:O4'	2.19	0.43
23:BB:2313:C:O2'	23:BB:2314:A:H5'	2.19	0.43
23:BB:2653:U:H2'	23:BB:2654:A:C8	2.54	0.43
23:BB:2899:A:H2'	23:BB:2900:A:H8	1.84	0.43
25:BC:107:LYS:HG3	25:BC:108:GLY:N	2.34	0.43
25:BC:153:LEU:CD1	25:BC:161:VAL:HG23	2.49	0.43
26:BD:128:ARG:NH2	26:BD:130:GLN:HG3	2.34	0.43
26:BD:154:LYS:CD	26:BD:157:LYS:H	2.32	0.43
27:BE:58:LYS:HB3	27:BE:71:GLY:C	2.39	0.43
27:BE:115:GLN:C	27:BE:185:LYS:HG2	2.39	0.43
30:BH:57:LYS:N	30:BH:57:LYS:HD2	2.33	0.43
30:BH:67:ALA:O	30:BH:71:LYS:N	2.46	0.43
30:BH:83:LYS:HE3	1:CA:359:G:O2'	2.19	0.43
31:BJ:132:HIS:C	31:BJ:134:ALA:N	2.72	0.43
32:BK:9:ASN:ND2	32:BK:9:ASN:H	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:85:VAL:HG21	33:BL:98:ALA:CB	2.48	0.43
36:BO:30:ARG:O	36:BO:31:THR:C	2.57	0.43
36:BO:115:LEU:HD22	36:BO:117:PHE:CZ	2.54	0.43
37:BP:38:ARG:CG	37:BP:39:LEU:N	2.81	0.43
37:BP:105:LYS:HB2	37:BP:106:ALA:H	1.59	0.43
40:BS:103:ILE:HG13	40:BS:105:VAL:HG23	2.01	0.43
41:BT:64:LYS:HD3	41:BT:79:ASP:HA	2.00	0.43
42:BU:60:LYS:CG	42:BU:61:GLU:H	2.27	0.43
43:BW:21:GLY:HA3	43:BW:32:ALA:HA	2.01	0.43
43:BW:31:LEU:O	43:BW:66:VAL:HB	2.19	0.43
46:BZ:15:SER:O	46:BZ:21:VAL:HB	2.19	0.43
46:BZ:30:HIS:O	46:BZ:31:ASP:HB3	2.19	0.43
47:B0:26:SER:OG	47:B0:27:LEU:N	2.52	0.43
47:B0:29:VAL:CB	47:B0:36:LYS:HD2	2.49	0.43
50:B3:25:HIS:HB3	50:B3:26:ALA:H	1.57	0.43
50:B3:28:LEU:HG	50:B3:28:LEU:H	1.45	0.43
52:BI:78:LEU:O	52:BI:81:LYS:HG3	2.19	0.43
1:CA:144:G:H2'	1:CA:145:G:O4'	2.19	0.43
1:CA:231:U:P	15:CP:31:ARG:HH12	2.41	0.43
1:CA:384:G:H2'	1:CA:385:C:H6	1.80	0.43
1:CA:878:A:H2'	1:CA:879:C:C6	2.54	0.43
1:CA:1118:U:H5'	1:CA:1118:U:H6	1.83	0.43
1:CA:1190:G:P	2:CC:4:VAL:HG12	2.58	0.43
1:CA:1427:C:H2'	1:CA:1428:A:C8	2.53	0.43
8:CI:27:ILE:HG21	8:CI:34:LEU:HD13	2.00	0.43
10:CK:60:PHE:CZ	10:CK:64:VAL:HG11	2.54	0.43
11:CL:98:ARG:O	11:CL:117:GLY:N	2.52	0.43
13:CN:42:ASN:CB	13:CN:46:LYS:HE2	2.44	0.43
15:CP:43:ALA:C	15:CP:45:GLU:H	2.21	0.43
21:CU:14:ALA:N	21:CU:16:ARG:NH2	2.54	0.43
22:DA:30:C:OP1	36:DO:1:MET:HE1	2.19	0.43
23:DB:1245:G:H4'	27:DE:33:VAL:CG2	2.49	0.43
23:DB:1341:G:H2'	23:DB:1397:U:O2'	2.19	0.43
23:DB:1945:G:H2'	23:DB:1946:U:H6	1.84	0.43
23:DB:2025:C:P	26:DD:154:LYS:NZ	2.92	0.43
23:DB:2072:C:H2'	23:DB:2073:C:H6	1.84	0.43
23:DB:2107:G:H2'	23:DB:2108:A:H8	1.84	0.43
23:DB:2385:C:H2'	23:DB:2386:A:C8	2.53	0.43
23:DB:2647:U:O2'	23:DB:2648:G:H5'	2.19	0.43
23:DB:2728:U:H2'	23:DB:2729:G:C8	2.54	0.43
25:DC:49:THR:HB	25:DC:50:THR:H	1.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:251:THR:HB	25:DC:252:LYS:H	1.45	0.43
27:DE:109:LEU:CB	27:DE:117:ARG:HE	2.31	0.43
30:DH:4:ILE:HA	30:DH:17:ASP:O	2.19	0.43
33:DL:58:TYR:HD2	33:DL:62:PRO:HG3	1.84	0.43
34:DM:74:THR:HA	34:DM:88:ASN:HA	2.01	0.43
34:DM:108:VAL:HG12	34:DM:111:GLU:OE1	2.19	0.43
37:DP:31:VAL:HG13	37:DP:81:ASP:CB	2.37	0.43
37:DP:109:ILE:O	37:DP:111:GLU:N	2.51	0.43
40:DS:28:LYS:O	40:DS:29:VAL:HB	2.19	0.43
40:DS:34:ASP:HA	40:DS:37:THR:HG22	2.00	0.43
40:DS:77:ASP:O	40:DS:101:SER:HB2	2.18	0.43
41:DT:67:VAL:HG12	41:DT:68:LYS:N	2.28	0.43
42:DU:42:LYS:O	42:DU:57:ILE:HG13	2.18	0.43
44:DX:8:GLU:HB2	44:DX:9:LYS:H	1.58	0.43
44:DX:28:LEU:HD13	44:DX:42:LEU:CD2	2.43	0.43
44:DX:28:LEU:HD22	44:DX:42:LEU:CG	2.47	0.43
46:DZ:3:LYS:O	46:DZ:7:PRO:HA	2.19	0.43
46:DZ:5:ILE:O	46:DZ:51:VAL:HG13	2.18	0.43
46:DZ:11:GLU:N	46:DZ:27:THR:HG22	2.33	0.43
46:DZ:48:GLN:NE2	46:DZ:49:ARG:N	2.65	0.43
51:D4:6:SER:OG	51:D4:23:ILE:HG21	2.19	0.43
51:D4:15:LYS:HZ2	51:D4:22:VAL:HG12	1.83	0.43
52:DI:109:ALA:HB2	52:DI:125:THR:HA	2.00	0.43
1:AA:31:G:H2'	1:AA:48:C:C5	2.53	0.43
1:AA:41:G:H2'	1:AA:42:G:C8	2.54	0.43
1:AA:224:U:H2'	1:AA:225:C:H6	1.83	0.43
1:AA:255:G:H2'	1:AA:256:U:H6	1.84	0.43
1:AA:661:G:O2'	1:AA:662:U:H5'	2.18	0.43
1:AA:839:C:O2'	1:AA:840:C:H5'	2.19	0.43
1:AA:970:C:C5	1:AA:1231:G:H1'	2.54	0.43
1:AA:1099:G:H2'	1:AA:1100:C:O4'	2.19	0.43
1:AA:1452:C:H5'	1:AA:1453:G:N9	2.34	0.43
4:AE:106:ALA:HB1	4:AE:110:MET:HB2	2.00	0.43
8:AI:51:LEU:HD21	8:AI:62:LEU:HG	2.01	0.43
8:AI:82:ILE:HG22	8:AI:86:LEU:HD21	2.01	0.43
9:AJ:57:VAL:HG13	9:AJ:58:ASN:CG	2.40	0.43
10:AK:81:LEU:O	10:AK:106:ILE:HA	2.19	0.43
18:AS:20:LYS:O	18:AS:20:LYS:HD2	2.19	0.43
23:BB:161:A:H8	23:BB:161:A:O5'	2.02	0.43
23:BB:372:G:O2'	23:BB:373:U:P	2.77	0.43
23:BB:391:A:H1'	23:BB:411:G:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:465:G:H2'	23:BB:466:A:C8	2.53	0.43
23:BB:607:U:O4	23:BB:620:G:H5''	2.19	0.43
23:BB:689:A:H2'	23:BB:690:G:H8	1.84	0.43
23:BB:953:G:H2'	23:BB:954:G:H8	1.84	0.43
23:BB:1007:C:H5''	31:BJ:37:ARG:HH21	1.82	0.43
23:BB:1076:C:O2'	23:BB:1077:A:H5'	2.19	0.43
23:BB:1100:C:H2'	23:BB:1101:U:H6	1.83	0.43
23:BB:1162:G:H4'	39:BR:23:GLU:HG2	2.01	0.43
23:BB:1313:U:O2	23:BB:1313:U:C2'	2.67	0.43
23:BB:2209:G:H2'	23:BB:2210:U:C5	2.54	0.43
23:BB:2286:G:H2'	23:BB:2287:A:OP2	2.18	0.43
23:BB:2307:G:O2'	23:BB:2311:A:N6	2.52	0.43
23:BB:2893:A:H4'	23:BB:2894:G:O5'	2.18	0.43
54:BB:3336:HOH:O	27:BE:81:GLY:HA2	2.18	0.43
27:BE:132:LYS:HD3	27:BE:133:LEU:HD23	2.00	0.43
27:BE:144:GLU:HG3	27:BE:145:ASP:H	1.84	0.43
27:BE:193:VAL:HG12	27:BE:194:LYS:N	2.34	0.43
28:BF:67:THR:OG1	28:BF:85:GLY:HA3	2.19	0.43
28:BF:173:ASP:OD1	28:BF:173:ASP:N	2.52	0.43
30:BH:19:VAL:HG12	30:BH:20:ASN:N	2.33	0.43
30:BH:27:ARG:HH11	30:BH:27:ARG:CB	2.31	0.43
31:BJ:25:LEU:HD12	31:BJ:62:VAL:CB	2.49	0.43
31:BJ:138:GLN:O	31:BJ:139:VAL:HG13	2.19	0.43
33:BL:133:ALA:C	33:BL:136:GLU:HG2	2.39	0.43
37:BP:22:GLY:O	37:BP:90:ALA:O	2.37	0.43
40:BS:9:HIS:HB3	40:BS:10:ALA:H	1.50	0.43
42:BU:9:GLU:CG	42:BU:23:LYS:HB3	2.49	0.43
42:BU:69:VAL:HG13	42:BU:77:GLY:N	2.29	0.43
48:B1:9:LYS:HD2	48:B1:9:LYS:H	1.81	0.43
48:B1:49:LYS:N	48:B1:49:LYS:HD2	2.33	0.43
50:B3:23:HIS:H	50:B3:23:HIS:HD2	1.67	0.43
51:B4:22:VAL:HG11	51:B4:36:ARG:NE	2.34	0.43
52:BI:32:VAL:CG2	52:BI:60:VAL:HG21	2.46	0.43
1:CA:421:U:H5'	1:CA:422:C:C5	2.54	0.43
1:CA:489:C:H2'	1:CA:490:C:H6	1.84	0.43
1:CA:661:G:O2'	1:CA:662:U:H5'	2.19	0.43
1:CA:1458:G:O2'	1:CA:1459:G:H5'	2.19	0.43
4:CE:152:VAL:HG12	4:CE:156:ARG:HG2	2.01	0.43
5:CF:38:ARG:NH2	5:CF:63:ASN:ND2	2.67	0.43
6:CG:65:LEU:HD21	6:CG:69:ARG:HH21	1.84	0.43
8:CI:62:LEU:N	8:CI:62:LEU:HD13	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CK:109:ILE:HD12	10:CK:109:ILE:N	2.34	0.43
17:CR:28:LEU:C	17:CR:30:ASN:H	2.22	0.43
20:CB:48:MET:HB2	20:CB:199:ILE:HG22	2.00	0.43
21:CU:4:LYS:O	21:CU:5:VAL:HG23	2.18	0.43
23:DB:687:C:H2'	23:DB:688:U:O4'	2.19	0.43
23:DB:1304:A:O2'	23:DB:1305:C:H5'	2.19	0.43
23:DB:1694:C:OP1	25:DC:13:ARG:NH2	2.52	0.43
23:DB:2885:G:H2'	23:DB:2886:A:O4'	2.18	0.43
24:DV:57:TYR:CE2	24:DV:77:VAL:HG21	2.54	0.43
26:DD:16:THR:HG22	26:DD:18:ASP:OD2	2.19	0.43
27:DE:142:ALA:O	27:DE:185:LYS:HG2	2.19	0.43
29:DG:172:GLU:O	29:DG:173:ALA:C	2.57	0.43
31:DJ:25:LEU:HB3	31:DJ:62:VAL:HG12	2.00	0.43
33:DL:19:LEU:C	33:DL:21:ARG:H	2.22	0.43
33:DL:111:ILE:HA	33:DL:128:THR:HG21	2.01	0.43
34:DM:75:GLU:O	34:DM:86:LYS:HB3	2.19	0.43
41:DT:23:ALA:HA	41:DT:26:LYS:HD2	2.00	0.43
41:DT:59:ASN:OD1	41:DT:84:TYR:HB2	2.19	0.43
46:DZ:21:VAL:HG22	46:DZ:22:MET:N	2.34	0.43
51:D4:28:SER:O	51:D4:29:ALA:HB3	2.19	0.43
52:DI:63:ASP:O	52:DI:63:ASP:OD1	2.37	0.43
1:AA:114:U:O2'	1:AA:115:G:H5'	2.19	0.42
1:AA:383:A:H2'	1:AA:384:G:O4'	2.18	0.42
1:AA:394:G:H2'	1:AA:395:C:C6	2.53	0.42
1:AA:408:A:OP1	3:AD:111:ALA:HB3	2.19	0.42
1:AA:478:A:H2'	1:AA:479:U:O4'	2.19	0.42
1:AA:488:C:H2'	1:AA:489:C:H6	1.84	0.42
1:AA:740:U:O2'	1:AA:741:G:H5'	2.19	0.42
1:AA:1124:G:C5'	9:AJ:38:GLY:HA3	2.49	0.42
3:AD:159:GLU:HG3	3:AD:160:LEU:HD13	2.01	0.42
4:AE:37:VAL:HA	4:AE:47:PHE:HA	2.01	0.42
4:AE:56:PRO:O	4:AE:59:ILE:HG22	2.19	0.42
6:AG:55:LYS:HE2	6:AG:57:GLU:OE1	2.18	0.42
8:AI:21:LYS:O	8:AI:60:LEU:HB2	2.19	0.42
8:AI:64:ILE:HD13	8:AI:78:ILE:CG2	2.49	0.42
10:AK:62:ALA:O	10:AK:65:ALA:HB3	2.18	0.42
11:AL:41:PRO:HD3	11:AL:47:ALA:O	2.19	0.42
13:AN:73:LEU:O	13:AN:75:LYS:N	2.52	0.42
15:AP:22:ALA:HB2	15:AP:32:PHE:HB3	2.01	0.42
16:AQ:67:SER:HB2	16:AQ:70:LYS:HB3	2.01	0.42
23:BB:265:A:N6	23:BB:427:U:O2'	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:512:G:OP2	23:BB:1234:U:O2'	2.32	0.42
23:BB:558:U:H5'	31:BJ:114:LEU:HD22	2.00	0.42
23:BB:687:C:H2'	23:BB:688:U:O4'	2.19	0.42
23:BB:919:U:O5'	23:BB:919:U:H6	2.02	0.42
23:BB:957:C:OP1	34:BM:76:LYS:HG2	2.18	0.42
23:BB:1019:U:O2'	23:BB:1021:A:C2	2.69	0.42
23:BB:1068:G:C6	23:BB:1069:A:N6	2.87	0.42
23:BB:1348:C:H2'	23:BB:1349:C:H5'	2.00	0.42
23:BB:1792:G:O2'	23:BB:1793:C:H5'	2.19	0.42
23:BB:1847:A:H4'	23:BB:1848:A:H8	1.83	0.42
23:BB:2040:G:H2'	23:BB:2041:U:O4'	2.19	0.42
23:BB:2239:G:H5'	25:BC:246:PRO:CG	2.49	0.42
23:BB:2485:G:H1'	34:BM:118:LYS:NZ	2.33	0.42
23:BB:2531:A:H5'	29:BG:156:TYR:CE1	2.54	0.42
23:BB:2615:U:O2'	47:B0:6:LYS:HD2	2.19	0.42
23:BB:2845:U:O3'	37:BP:54:LEU:HG	2.18	0.42
25:BC:128:THR:HA	25:BC:190:THR:CA	2.43	0.42
25:BC:156:SER:O	25:BC:159:THR:N	2.52	0.42
26:BD:4:LEU:O	26:BD:4:LEU:HG	2.17	0.42
26:BD:36:GLN:HA	26:BD:46:ARG:CZ	2.49	0.42
26:BD:84:LEU:O	26:BD:84:LEU:HD12	2.19	0.42
26:BD:170:VAL:CG1	26:BD:171:THR:H	2.10	0.42
27:BE:141:MET:HG3	27:BE:143:LEU:HD13	2.00	0.42
27:BE:170:ARG:O	27:BE:172:ALA:N	2.52	0.42
33:BL:67:THR:O	33:BL:68:SER:HB2	2.18	0.42
33:BL:84:LYS:HA	33:BL:84:LYS:CE	2.49	0.42
35:BN:4:ARG:CG	35:BN:5:LYS:N	2.80	0.42
35:BN:14:SER:HA	35:BN:17:ARG:HB2	2.00	0.42
35:BN:89:SER:O	35:BN:91:ALA:N	2.52	0.42
36:BO:68:LYS:C	36:BO:70:ALA:N	2.72	0.42
37:BP:52:ARG:HG3	37:BP:54:LEU:HD12	2.00	0.42
37:BP:61:ARG:HB2	37:BP:61:ARG:NH1	2.34	0.42
38:BQ:16:ILE:CD1	38:BQ:34:ALA:HB2	2.39	0.42
40:BS:28:LYS:HB3	40:BS:71:VAL:HG21	2.01	0.42
41:BT:63:VAL:CG1	41:BT:80:TRP:HB2	2.46	0.42
42:BU:46:LYS:HE2	42:BU:54:PRO:O	2.19	0.42
50:B3:27:ASN:OD1	50:B3:28:LEU:HD23	2.19	0.42
1:CA:238:A:H3'	1:CA:239:U:H5''	2.01	0.42
1:CA:492:C:C2'	1:CA:493:A:H5''	2.49	0.42
1:CA:512:U:H2'	1:CA:513:C:C6	2.54	0.42
1:CA:551:U:H2'	1:CA:552:U:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:968:A:H4'	1:CA:969:A:OP2	2.19	0.42
1:CA:1163:A:H2'	1:CA:1164:G:C8	2.52	0.42
1:CA:1246:A:C6	1:CA:1292:G:C6	3.06	0.42
1:CA:1306:A:N6	1:CA:1331:G:O2'	2.52	0.42
1:CA:1317:C:H2'	1:CA:1318:A:O4'	2.19	0.42
2:CC:75:VAL:HG11	2:CC:102:ILE:HD13	2.01	0.42
4:CE:52:ALA:HB3	4:CE:58:ALA:HB2	2.01	0.42
4:CE:152:VAL:HG21	7:CH:98:LEU:HD13	2.01	0.42
5:CF:9:MET:HB2	5:CF:57:ALA:HB1	2.00	0.42
8:CI:11:ARG:O	8:CI:14:SER:HB2	2.18	0.42
10:CK:70:ALA:O	10:CK:74:LYS:HB2	2.18	0.42
11:CL:86:VAL:HG22	11:CL:95:HIS:HE2	1.83	0.42
12:CM:102:LYS:NZ	12:CM:103:THR:HG23	2.32	0.42
22:DA:23:G:C2	22:DA:24:G:N1	2.88	0.42
23:DB:20:C:H2'	23:DB:21:A:C8	2.53	0.42
23:DB:38:A:C2	27:DE:43:THR:HG22	2.54	0.42
23:DB:144:A:O2'	41:DT:4:GLU:HB2	2.19	0.42
23:DB:557:C:O3'	31:DJ:113:PRO:HB2	2.19	0.42
23:DB:858:G:H21	23:DB:2268:A:H3'	1.84	0.42
23:DB:1133:A:N6	23:DB:2025:C:O2'	2.52	0.42
23:DB:1198:U:C2	23:DB:1199:U:C5	3.07	0.42
23:DB:1205:A:H1'	23:DB:1206:G:P	2.59	0.42
23:DB:1710:G:H2'	23:DB:1711:A:H8	1.84	0.42
23:DB:1733:G:H2'	23:DB:1734:G:C8	2.54	0.42
23:DB:1784:A:H4'	23:DB:1785:A:O5'	2.19	0.42
23:DB:2478:A:O2'	23:DB:2536:G:N2	2.51	0.42
23:DB:2523:G:O2'	23:DB:2524:G:H5'	2.19	0.42
23:DB:2683:C:O2'	23:DB:2684:U:H5'	2.19	0.42
25:DC:175:LEU:HD12	25:DC:178:GLY:O	2.19	0.42
25:DC:224:MET:HG3	25:DC:233:GLY:H	1.84	0.42
25:DC:225:ASN:N	25:DC:226:PRO:CD	2.82	0.42
26:DD:38:LYS:H	26:DD:42:ASN:HB2	1.84	0.42
26:DD:47:ALA:H	26:DD:80:TRP:HB2	1.84	0.42
27:DE:152:GLU:HA	27:DE:188:MET:HE2	2.01	0.42
29:DG:29:ASN:OD1	29:DG:81:GLY:HA2	2.19	0.42
29:DG:169:ARG:HB2	29:DG:170:THR:H	1.73	0.42
30:DH:103:VAL:O	30:DH:106:ALA:HB3	2.19	0.42
31:DJ:7:LYS:N	31:DJ:8:PRO:CD	2.81	0.42
31:DJ:41:LYS:HZ1	31:DJ:45:THR:HA	1.82	0.42
32:DK:13:ASN:HB2	32:DK:14:SER:H	1.56	0.42
34:DM:71:LYS:NZ	34:DM:92:TRP:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:61:ARG:O	37:DP:62:LYS:C	2.56	0.42
40:DS:8:ARG:HA	40:DS:102:HIS:ND1	2.34	0.42
41:DT:6:ARG:HG2	41:DT:9:LYS:O	2.19	0.42
41:DT:58:VAL:CG1	41:DT:59:ASN:H	2.32	0.42
43:DW:81:ILE:HG12	43:DW:82:GLU:N	2.33	0.42
46:DZ:59:ARG:O	46:DZ:61:ASN:N	2.44	0.42
47:D0:10:SER:O	47:D0:14:MET:HB2	2.19	0.42
1:AA:140:U:H2'	1:AA:141:G:H8	1.82	0.42
1:AA:861:G:H2'	1:AA:862:C:H6	1.84	0.42
1:AA:914:A:O2'	1:AA:915:A:H5'	2.19	0.42
1:AA:1495:U:H1'	23:BB:1912:A:N3	2.34	0.42
1:AA:1519:A:H3'	1:AA:1520:C:C5'	2.49	0.42
2:AC:40:GLN:O	2:AC:44:LYS:HG3	2.18	0.42
8:AI:118:ARG:HH12	8:AI:122:ARG:HE	1.67	0.42
13:AN:86:ALA:HB3	13:AN:92:ILE:HD11	2.02	0.42
18:AS:28:LYS:HD3	18:AS:28:LYS:H	1.84	0.42
18:AS:57:VAL:HG21	18:AS:74:ALA:HB2	2.01	0.42
20:AB:81:ASP:O	20:AB:85:SER:HB2	2.19	0.42
23:BB:15:G:H2'	23:BB:16:C:C6	2.54	0.42
23:BB:560:C:H3'	23:BB:561:G:C8	2.55	0.42
23:BB:820:A:H2'	23:BB:821:A:O4'	2.19	0.42
23:BB:1149:G:H2'	23:BB:1150:C:C6	2.54	0.42
23:BB:1425:G:H2'	23:BB:1426:G:C8	2.54	0.42
23:BB:1588:G:H2'	23:BB:1589:U:C6	2.54	0.42
23:BB:2025:C:H2'	23:BB:2026:U:H6	1.80	0.42
23:BB:2103:C:H3'	23:BB:2104:C:O4'	2.19	0.42
23:BB:2247:A:H2'	23:BB:2248:C:H6	1.83	0.42
23:BB:2307:G:H4'	23:BB:2311:A:N6	2.29	0.42
23:BB:2370:G:H2'	23:BB:2371:G:O4'	2.18	0.42
23:BB:2723:C:H2'	23:BB:2724:U:O4'	2.19	0.42
24:BV:2:PHE:CG	24:BV:61:LEU:HD22	2.54	0.42
25:BC:170:TYR:C	25:BC:171:VAL:HG22	2.39	0.42
26:BD:78:GLY:C	26:BD:79:LEU:HD23	2.39	0.42
27:BE:18:THR:O	27:BE:19:PHE:C	2.57	0.42
28:BF:52:ALA:HA	28:BF:148:VAL:CG1	2.49	0.42
28:BF:146:ASP:O	28:BF:147:ARG:C	2.57	0.42
33:BL:33:ARG:HH11	33:BL:34:GLY:HA3	1.85	0.42
33:BL:55:MET:O	33:BL:59:ARG:HG2	2.20	0.42
33:BL:96:LYS:HE3	33:BL:100:ILE:HG13	2.01	0.42
34:BM:73:ILE:CD1	34:BM:92:TRP:N	2.82	0.42
34:BM:82:MET:HB2	34:BM:84:LYS:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:5:ARG:O	38:BQ:6:GLY:C	2.57	0.42
38:BQ:47:ARG:HA	38:BQ:47:ARG:HD2	1.67	0.42
39:BR:33:VAL:HB	39:BR:35:PHE:CE2	2.54	0.42
40:BS:6:LYS:CB	40:BS:104:THR:HG22	2.49	0.42
40:BS:86:MET:SD	40:BS:96:ILE:HD11	2.59	0.42
41:BT:60:THR:HA	41:BT:83:ALA:HA	2.01	0.42
41:BT:64:LYS:HD3	41:BT:64:LYS:HA	1.87	0.42
42:BU:43:LYS:NZ	42:BU:45:GLN:HG2	2.34	0.42
42:BU:78:LYS:CG	42:BU:96:LYS:HE3	2.48	0.42
44:BX:44:LYS:HD2	44:BX:48:ARG:NE	2.34	0.42
46:BZ:55:GLY:HA2	46:BZ:63:ARG:CG	2.45	0.42
47:B0:28:SER:O	47:B0:29:VAL:CB	2.68	0.42
50:B3:24:LYS:HE2	50:B3:25:HIS:O	2.18	0.42
1:CA:113:G:H2'	1:CA:114:U:C6	2.54	0.42
1:CA:820:U:H4'	1:CA:821:G:OP2	2.19	0.42
1:CA:847:G:H2'	1:CA:848:C:C6	2.53	0.42
2:CC:129:PHE:CZ	2:CC:156:LEU:HD13	2.55	0.42
3:CD:195:ASN:HB3	3:CD:197:HIS:CD2	2.54	0.42
4:CE:144:GLU:HA	4:CE:146:MET:SD	2.59	0.42
7:CH:117:GLN:HE21	7:CH:117:GLN:HB3	1.62	0.42
8:CI:22:PRO:HA	8:CI:60:LEU:HB3	2.00	0.42
8:CI:86:LEU:HB3	8:CI:93:LEU:CD1	2.49	0.42
19:CT:69:ASN:ND2	19:CT:69:ASN:N	2.57	0.42
23:DB:2:G:H2'	23:DB:3:U:C6	2.53	0.42
23:DB:153:U:H2'	23:DB:154:U:O4'	2.19	0.42
23:DB:419:U:H2'	23:DB:420:C:H6	1.85	0.42
23:DB:903:C:H2'	23:DB:904:G:C8	2.53	0.42
23:DB:962:G:O2'	23:DB:2250:G:N2	2.52	0.42
23:DB:999:U:H5'	23:DB:1154:G:O6	2.18	0.42
23:DB:1029:A:H2'	23:DB:1030:C:O4'	2.19	0.42
23:DB:1143:A:H61	31:DJ:27:ARG:HA	1.84	0.42
23:DB:1199:U:H4'	38:DQ:4:LYS:HZ1	1.84	0.42
23:DB:1368:G:OP1	49:D2:25:LYS:HG3	2.19	0.42
23:DB:1456:G:O2'	23:DB:1457:U:H5'	2.18	0.42
23:DB:1773:A:H62	25:DC:206:LYS:HE2	1.83	0.42
23:DB:1813:G:H21	25:DC:50:THR:HG23	1.83	0.42
23:DB:2017:U:O2	47:D0:6:LYS:HG3	2.20	0.42
23:DB:2606:C:O2'	23:DB:2607:G:H5'	2.19	0.42
23:DB:2788:C:H2'	23:DB:2789:C:C6	2.53	0.42
23:DB:2795:C:H6	23:DB:2795:C:O5'	2.02	0.42
25:DC:155:ARG:C	25:DC:157:ALA:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:171:VAL:HG12	25:DC:183:VAL:C	2.38	0.42
25:DC:177:SER:C	25:DC:179:GLU:H	2.22	0.42
26:DD:1:MET:N	26:DD:81:GLU:HB2	2.34	0.42
26:DD:4:LEU:HD23	26:DD:77:ARG:CD	2.48	0.42
26:DD:62:LYS:H	26:DD:62:LYS:CD	2.32	0.42
27:DE:132:LYS:HG3	27:DE:134:LEU:CD1	2.50	0.42
28:DF:65:LEU:CD2	28:DF:87:LYS:HD2	2.48	0.42
28:DF:163:GLU:HA	28:DF:166:ARG:CD	2.49	0.42
29:DG:157:LYS:HD2	29:DG:157:LYS:HA	1.84	0.42
30:DH:42:LYS:C	30:DH:42:LYS:HE2	2.39	0.42
30:DH:70:GLU:O	30:DH:74:ALA:N	2.45	0.42
30:DH:86:ASP:C	30:DH:88:GLY:N	2.71	0.42
32:DK:10:VAL:HG21	32:DK:17:ARG:N	2.34	0.42
32:DK:70:ARG:CB	32:DK:76:VAL:HG22	2.49	0.42
33:DL:33:ARG:O	33:DL:34:GLY:C	2.57	0.42
35:DN:58:ASP:O	35:DN:62:ASN:HB2	2.17	0.42
37:DP:8:GLU:H	37:DP:8:GLU:HG2	1.52	0.42
38:DQ:78:PHE:C	38:DQ:78:PHE:CD1	2.93	0.42
39:DR:65:ALA:H	39:DR:100:GLY:HA2	1.84	0.42
39:DR:69:GLY:HA2	39:DR:96:VAL:HA	1.99	0.42
41:DT:53:VAL:HG12	41:DT:93:LEU:CD2	2.48	0.42
41:DT:58:VAL:HG13	41:DT:85:VAL:H	1.84	0.42
43:DW:38:ARG:HB3	43:DW:68:PHE:CE1	2.54	0.42
44:DX:3:ALA:O	44:DX:6:LEU:HD12	2.18	0.42
44:DX:27:ASN:O	44:DX:29:ARG:N	2.47	0.42
48:D1:4:ILE:HG23	48:D1:4:ILE:O	2.19	0.42
48:D1:22:THR:CB	50:D3:34:LYS:HZ2	2.32	0.42
49:D2:6:GLN:HB3	49:D2:7:PRO:HD2	2.01	0.42
51:D4:22:VAL:CG1	51:D4:37:GLN:HB3	2.48	0.42
1:AA:19:A:OP1	4:AE:134:ASN:ND2	2.51	0.42
1:AA:113:G:H21	1:AA:353:A:H8	1.68	0.42
1:AA:237:G:H2'	1:AA:238:A:C8	2.54	0.42
1:AA:599:C:O2'	1:AA:600:A:H5'	2.19	0.42
1:AA:923:A:H2'	1:AA:924:C:C6	2.55	0.42
1:AA:985:C:H2'	1:AA:986:U:H6	1.82	0.42
1:AA:1065:U:H1'	1:AA:1066:C:OP2	2.19	0.42
1:AA:1081:A:OP1	4:AE:22:LYS:HB2	2.19	0.42
1:AA:1299:A:N6	1:AA:1302:C:H5	2.17	0.42
2:AC:13:ILE:HG22	2:AC:14:VAL:HG13	2.01	0.42
3:AD:54:LEU:HA	3:AD:202:LEU:HD22	2.00	0.42
3:AD:145:ARG:C	3:AD:147:LYS:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:29:LEU:HD21	6:AG:41:ILE:CG2	2.48	0.42
8:AI:66:VAL:HG22	8:AI:67:LYS:N	2.34	0.42
13:AN:20:PHE:HA	13:AN:24:ALA:CB	2.47	0.42
15:AP:25:ARG:HD3	15:AP:25:ARG:N	2.34	0.42
23:BB:26:G:OP2	40:BS:80:PRO:HG3	2.19	0.42
23:BB:38:A:O4'	27:BE:46:GLN:CG	2.52	0.42
23:BB:246:C:H2'	23:BB:247:G:H5'	1.99	0.42
23:BB:329:G:H1	42:BU:16:LYS:CD	2.31	0.42
23:BB:558:U:O2'	23:BB:559:G:H5'	2.19	0.42
23:BB:633:A:H2'	23:BB:634:C:C5'	2.49	0.42
23:BB:701:G:O2'	23:BB:702:U:H5'	2.18	0.42
23:BB:1159:U:H2'	23:BB:1160:G:C8	2.53	0.42
23:BB:1206:G:H2'	23:BB:1207:C:H6	1.85	0.42
23:BB:1463:C:H2'	23:BB:1464:G:C8	2.53	0.42
23:BB:1541:C:O2'	23:BB:1542:U:H5'	2.19	0.42
23:BB:1566:A:N1	25:BC:213:ARG:NH2	2.67	0.42
23:BB:1736:U:H2'	23:BB:1737:G:C8	2.54	0.42
23:BB:1824:G:H2'	23:BB:1825:U:C6	2.54	0.42
23:BB:2185:U:H2'	23:BB:2186:G:C8	2.54	0.42
23:BB:2270:A:N6	23:BB:2271:G:C2	2.87	0.42
23:BB:2737:G:H2'	23:BB:2738:A:C8	2.54	0.42
23:BB:2801:G:H2'	23:BB:2802:G:C8	2.54	0.42
25:BC:130:PRO:HA	25:BC:188:ARG:HA	2.01	0.42
25:BC:159:THR:O	25:BC:160:TYR:HD2	2.02	0.42
25:BC:222:THR:O	25:BC:224:MET:N	2.52	0.42
25:BC:226:PRO:O	25:BC:227:VAL:HG23	2.19	0.42
29:BG:121:THR:HG23	29:BG:133:LYS:O	2.19	0.42
33:BL:90:VAL:HG11	33:BL:120:VAL:HG23	2.01	0.42
34:BM:12:MET:O	34:BM:13:HIS:HB2	2.19	0.42
34:BM:35:ALA:C	34:BM:36:VAL:HG13	2.39	0.42
38:BQ:68:ALA:HB2	38:BQ:105:PHE:CZ	2.54	0.42
38:BQ:92:LYS:N	38:BQ:92:LYS:HD3	2.34	0.42
39:BR:4:VAL:HG11	39:BR:42:ALA:N	2.34	0.42
40:BS:12:SER:OG	40:BS:16:LYS:NZ	2.53	0.42
44:BX:21:LEU:O	44:BX:47:ARG:NH1	2.52	0.42
51:B4:12:ARG:N	51:B4:12:ARG:HD2	2.34	0.42
52:BI:74:PRO:HD2	52:BI:77:VAL:HG21	2.01	0.42
1:CA:41:G:H2'	1:CA:42:G:C8	2.54	0.42
1:CA:69:G:H2'	1:CA:70:U:C6	2.53	0.42
1:CA:78:A:O2'	1:CA:79:G:H5'	2.19	0.42
1:CA:601:G:H2'	1:CA:602:A:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:736:C:H2'	1:CA:737:C:H6	1.84	0.42
1:CA:984:C:H2'	1:CA:985:C:H6	1.83	0.42
1:CA:1105:A:O2'	1:CA:1106:G:H5'	2.18	0.42
1:CA:1462:C:H4'	37:DP:110:LYS:CE	2.47	0.42
2:CC:68:HIS:HA	2:CC:103:ALA:CB	2.49	0.42
2:CC:143:LEU:HB2	2:CC:144:GLY:H	1.65	0.42
5:CF:36:ILE:HG12	5:CF:64:VAL:HG22	2.00	0.42
5:CF:54:LEU:HD13	5:CF:55:HIS:H	1.85	0.42
7:CH:76:ARG:HE	7:CH:125:ILE:HG23	1.84	0.42
9:CJ:41:PRO:HA	9:CJ:72:ARG:CD	2.48	0.42
9:CJ:51:VAL:CG2	13:CN:80:ARG:HB2	2.36	0.42
11:CL:35:ARG:HH21	11:CL:36:VAL:C	2.23	0.42
12:CM:102:LYS:HG3	12:CM:103:THR:N	2.35	0.42
13:CN:69:PRO:O	13:CN:71:GLY:N	2.52	0.42
18:CS:26:ASP:OD1	18:CS:46:LEU:HD13	2.18	0.42
19:CT:55:PRO:HG2	19:CT:56:ILE:HD12	2.00	0.42
23:DB:118:A:OP2	23:DB:119:A:H2'	2.19	0.42
23:DB:182:A:H2'	23:DB:183:C:C6	2.53	0.42
23:DB:242:G:H22	23:DB:254:G:H2'	1.84	0.42
23:DB:267:C:H2'	23:DB:268:C:H6	1.83	0.42
23:DB:544:C:O5'	23:DB:545:U:OP1	2.37	0.42
23:DB:779:U:P	25:DC:49:THR:HG1	2.40	0.42
23:DB:1051:G:H2'	23:DB:1052:C:C6	2.54	0.42
23:DB:1079:C:C4	23:DB:1080:A:N7	2.87	0.42
23:DB:1372:U:O2'	23:DB:2212:A:C8	2.70	0.42
23:DB:1843:C:H2'	23:DB:1844:C:H6	1.84	0.42
23:DB:2222:C:O2'	23:DB:2223:G:H5'	2.19	0.42
23:DB:2233:U:H2'	23:DB:2234:G:H8	1.82	0.42
23:DB:2244:U:H2'	23:DB:2245:U:C6	2.54	0.42
23:DB:2660:A:H2'	23:DB:2661:G:O4'	2.19	0.42
23:DB:2692:G:O2'	23:DB:2693:G:H5'	2.19	0.42
23:DB:2755:C:O5'	23:DB:2755:C:H6	2.02	0.42
25:DC:258:SER:N	25:DC:261:ARG:HH11	2.16	0.42
26:DD:48:ILE:CG2	26:DD:49:GLN:N	2.82	0.42
27:DE:6:LYS:HB3	27:DE:11:ALA:HA	2.01	0.42
27:DE:59:PRO:HB2	27:DE:60:TRP:CD1	2.54	0.42
27:DE:105:LEU:O	27:DE:108:ILE:HG12	2.19	0.42
27:DE:189:THR:HG23	27:DE:194:LYS:HG3	2.01	0.42
28:DF:107:VAL:HG12	28:DF:108:PRO:CD	2.48	0.42
28:DF:121:PHE:HB2	28:DF:162:ASP:OD2	2.19	0.42
31:DJ:18:VAL:HG23	31:DJ:54:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:77:ILE:HD11	33:DL:111:ILE:HG23	2.01	0.42
36:DO:75:GLY:HA3	36:DO:109:ALA:HB3	2.00	0.42
37:DP:1:SER:O	37:DP:6:GLN:OE1	2.38	0.42
38:DQ:26:ALA:CA	38:DQ:30:VAL:HG23	2.49	0.42
38:DQ:30:VAL:CG1	38:DQ:31:TYR:N	2.79	0.42
39:DR:92:TRP:CD1	39:DR:92:TRP:N	2.84	0.42
40:DS:86:MET:HG3	40:DS:87:PRO:HD2	2.02	0.42
42:DU:78:LYS:HD2	42:DU:96:LYS:CG	2.49	0.42
1:AA:15:G:O2'	4:AE:21:SER:HB2	2.18	0.42
1:AA:236:A:H2'	1:AA:237:G:H8	1.85	0.42
1:AA:373:A:C1'	1:AA:481:G:H1'	2.50	0.42
1:AA:532:A:H62	2:AC:191:THR:CB	2.31	0.42
1:AA:847:G:H2'	1:AA:848:C:C6	2.54	0.42
1:AA:1262:C:H2'	1:AA:1263:C:O4'	2.19	0.42
2:AC:21:TRP:CH2	13:AN:93:PRO:HG3	2.54	0.42
3:AD:49:ASP:O	3:AD:52:VAL:HG22	2.19	0.42
3:AD:54:LEU:HA	3:AD:57:LYS:HB3	2.01	0.42
3:AD:84:ASN:ND2	3:AD:86:GLY:N	2.67	0.42
5:AF:11:HIS:CG	5:AF:12:PRO:HD2	2.54	0.42
6:AG:13:PRO:HA	6:AG:23:ALA:HB2	2.00	0.42
9:AJ:5:ARG:HG3	9:AJ:79:PRO:HD3	2.01	0.42
9:AJ:40:ILE:CG1	9:AJ:73:LEU:HB3	2.46	0.42
11:AL:4:ASN:O	11:AL:8:ARG:HG2	2.19	0.42
11:AL:56:LEU:HB2	11:AL:60:PHE:O	2.19	0.42
11:AL:117:GLY:O	11:AL:118:VAL:HG13	2.19	0.42
18:AS:16:LYS:HA	18:AS:19:GLU:OE1	2.19	0.42
21:AU:20:ARG:HG2	21:AU:20:ARG:O	2.20	0.42
22:BA:75:G:N1	22:BA:102:G:N2	2.67	0.42
23:BB:265:A:H2'	23:BB:266:G:O4'	2.19	0.42
23:BB:383:C:N3	23:BB:391:A:N6	2.68	0.42
23:BB:388:G:N7	23:BB:390:U:H2'	2.34	0.42
23:BB:426:C:O2'	23:BB:427:U:H5'	2.20	0.42
23:BB:544:C:H2'	23:BB:545:U:C2	2.54	0.42
23:BB:661:A:O2'	33:BL:23:ILE:HA	2.20	0.42
23:BB:743:A:H4'	26:BD:136:ASN:HD22	1.84	0.42
23:BB:967:U:H2'	23:BB:968:C:H6	1.80	0.42
23:BB:1153:C:H5'	38:BQ:75:TYR:HE1	1.85	0.42
23:BB:1446:C:O2'	23:BB:1447:C:H5'	2.19	0.42
23:BB:1662:U:O2	23:BB:2687:U:H4'	2.18	0.42
23:BB:1668:A:N3	23:BB:1670:C:C4	2.87	0.42
23:BB:2028:U:H2'	23:BB:2029:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2373:G:O2'	23:BB:2374:C:H5'	2.20	0.42
23:BB:2732:G:H5'	23:BB:2733:A:O4'	2.18	0.42
23:BB:2772:C:H5''	26:BD:171:THR:HG21	1.99	0.42
24:BV:26:PHE:HD2	24:BV:44:HIS:HD1	1.65	0.42
25:BC:42:ARG:NH1	25:BC:44:ASN:OD1	2.52	0.42
25:BC:51:ARG:NE	25:BC:51:ARG:O	2.53	0.42
29:BG:40:VAL:HG11	29:BG:63:GLN:NE2	2.34	0.42
29:BG:162:ARG:HA	29:BG:166:GLU:OE1	2.20	0.42
30:BH:23:ALA:C	30:BH:25:TYR:H	2.23	0.42
30:BH:30:LEU:CD1	30:BH:35:LYS:HD3	2.49	0.42
31:BJ:77:HIS:HD2	31:BJ:84:ILE:HB	1.82	0.42
32:BK:61:VAL:HG23	32:BK:84:CYS:O	2.19	0.42
32:BK:114:LYS:O	32:BK:118:LEU:HD12	2.19	0.42
33:BL:78:ARG:HD3	33:BL:81:ASP:HB2	2.00	0.42
34:BM:10:ARG:HB2	34:BM:11:LYS:HE3	2.02	0.42
41:BT:15:HIS:CG	41:BT:31:VAL:HG11	2.54	0.42
45:BY:4:ILE:HG12	45:BY:5:LYS:HG3	2.02	0.42
50:B3:9:ALA:O	50:B3:13:PHE:HB3	2.19	0.42
1:CA:374:A:H5''	1:CA:452:A:N1	2.33	0.42
1:CA:652:U:H1'	1:CA:653:U:C5	2.53	0.42
1:CA:720:C:O4'	17:CR:38:ILE:HG12	2.19	0.42
1:CA:749:A:O2'	1:CA:750:C:H5'	2.20	0.42
1:CA:1030:U:O2'	1:CA:1031:C:P	2.77	0.42
1:CA:1379:G:N7	6:CG:2:ARG:CZ	2.82	0.42
1:CA:1499:A:OP2	1:CA:1500:A:OP2	2.38	0.42
3:CD:54:LEU:O	3:CD:58:GLN:HB2	2.20	0.42
7:CH:112:ASP:OD1	7:CH:112:ASP:N	2.52	0.42
8:CI:51:LEU:CB	8:CI:56:MET:HG2	2.39	0.42
10:CK:113:THR:CG2	21:CU:28:LEU:HD21	2.49	0.42
10:CK:127:ARG:HG3	10:CK:127:ARG:NH1	2.34	0.42
12:CM:48:SER:C	12:CM:50:GLY:N	2.71	0.42
18:CS:14:LEU:HD23	18:CS:32:THR:HG21	2.02	0.42
18:CS:62:THR:HG23	18:CS:65:MET:HG2	2.00	0.42
21:CU:17:ARG:HA	21:CU:20:ARG:HB2	2.01	0.42
22:DA:114:C:H2'	22:DA:115:A:C8	2.54	0.42
23:DB:39:G:H2'	23:DB:40:U:C6	2.55	0.42
23:DB:185:G:H4'	23:DB:218:A:H4'	2.00	0.42
23:DB:226:A:H1'	23:DB:230:G:N2	2.34	0.42
23:DB:242:G:O2'	23:DB:243:U:P	2.78	0.42
23:DB:915:C:H3'	23:DB:916:G:H8	1.84	0.42
23:DB:1112:G:H4'	29:DG:1:SER:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1261:C:C2'	23:DB:1262:A:O5'	2.67	0.42
23:DB:1529:G:H2'	23:DB:1530:G:H8	1.84	0.42
23:DB:2182:U:H2'	23:DB:2183:A:C8	2.54	0.42
25:DC:188:ARG:HE	25:DC:188:ARG:HB3	1.63	0.42
25:DC:265:PHE:O	25:DC:266:ILE:HG12	2.20	0.42
27:DE:53:THR:HB	27:DE:74:LYS:CE	2.49	0.42
30:DH:114:GLU:HB2	30:DH:133:GLN:HG3	2.00	0.42
31:DJ:10:THR:HB	31:DJ:43:GLU:OE2	2.20	0.42
33:DL:63:LYS:CB	50:D3:26:ALA:HB2	2.40	0.42
34:DM:69:PRO:N	34:DM:93:VAL:HG22	2.34	0.42
35:DN:10:LEU:O	35:DN:11:ASN:ND2	2.53	0.42
37:DP:47:ILE:HD13	37:DP:63:ILE:CG2	2.49	0.42
41:DT:19:LYS:NZ	41:DT:22:THR:HG23	2.34	0.42
42:DU:43:LYS:HZ2	42:DU:43:LYS:HB2	1.84	0.42
43:DW:10:ARG:CZ	43:DW:10:ARG:HB3	2.49	0.42
43:DW:77:LYS:C	43:DW:79:ILE:N	2.71	0.42
50:D3:34:LYS:HE3	50:D3:34:LYS:HB3	1.80	0.42
1:AA:210:C:H4'	1:AA:211:G:H5''	2.01	0.42
1:AA:411:A:C4	1:AA:413:G:H1'	2.55	0.42
1:AA:585:G:O2'	1:AA:586:C:H5'	2.20	0.42
1:AA:761:G:H2'	1:AA:762:U:C6	2.55	0.42
1:AA:796:C:O2'	1:AA:797:C:H5'	2.19	0.42
1:AA:818:G:C3'	1:AA:819:A:H5''	2.50	0.42
1:AA:1121:U:O2'	1:AA:1122:U:H5'	2.20	0.42
2:AC:39:ARG:HH21	2:AC:56:ILE:HD12	1.83	0.42
2:AC:112:ALA:O	2:AC:113:LYS:C	2.57	0.42
4:AE:30:PHE:CD1	4:AE:30:PHE:N	2.87	0.42
8:AI:56:MET:O	8:AI:58:GLU:N	2.52	0.42
8:AI:85:ALA:O	8:AI:88:GLU:HB2	2.20	0.42
10:AK:26:PHE:HE1	10:AK:88:PRO:HG2	1.85	0.42
15:AP:75:ILE:O	15:AP:78:VAL:HG12	2.19	0.42
20:AB:94:ARG:H	20:AB:94:ARG:HG2	1.50	0.42
21:AU:22:CYS:O	21:AU:23:GLU:HG2	2.20	0.42
21:AU:52:VAL:HG13	21:AU:53:LYS:N	2.34	0.42
23:BB:84:A:H2'	42:BU:5:ARG:HD2	2.00	0.42
23:BB:213:A:H2'	23:BB:214:G:C8	2.55	0.42
23:BB:508:A:N3	23:BB:508:A:O4'	2.51	0.42
23:BB:832:U:OP1	33:BL:44:GLY:HA3	2.19	0.42
23:BB:2575:C:H4'	26:BD:148:GLN:CA	2.48	0.42
26:BD:110:THR:HG22	26:BD:171:THR:CA	2.44	0.42
31:BJ:41:LYS:NZ	31:BJ:43:GLU:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:63:LYS:O	33:BL:63:LYS:HG2	2.20	0.42
34:BM:41:LEU:C	34:BM:43:ALA:H	2.21	0.42
35:BN:29:VAL:HG12	35:BN:78:LYS:HG2	2.02	0.42
35:BN:29:VAL:HG13	35:BN:83:LEU:HD13	2.02	0.42
37:BP:32:VAL:HG22	37:BP:40:GLN:HE21	1.85	0.42
37:BP:34:GLY:C	37:BP:35:SER:O	2.57	0.42
39:BR:82:HIS:ND1	39:BR:82:HIS:O	2.53	0.42
40:BS:6:LYS:HA	40:BS:104:THR:H	1.84	0.42
40:BS:7:HIS:CG	40:BS:8:ARG:N	2.87	0.42
40:BS:28:LYS:HB3	40:BS:71:VAL:CB	2.49	0.42
44:BX:44:LYS:O	44:BX:48:ARG:HD2	2.19	0.42
48:B1:26:LYS:HD3	48:B1:29:LYS:CG	2.49	0.42
50:B3:20:GLY:O	50:B3:21:PHE:C	2.58	0.42
52:BI:15:GLY:O	52:BI:16:MET:HB2	2.19	0.42
1:CA:203:G:N2	1:CA:205:A:H61	2.18	0.42
1:CA:425:G:O2'	1:CA:426:U:H5'	2.20	0.42
1:CA:551:U:H2'	1:CA:552:U:H6	1.84	0.42
1:CA:755:G:OP2	14:CO:64:LYS:HE2	2.19	0.42
1:CA:761:G:H2'	1:CA:762:U:C6	2.54	0.42
1:CA:1520:C:H2'	1:CA:1521:C:H6	1.81	0.42
3:CD:21:LYS:O	3:CD:23:GLY:N	2.52	0.42
4:CE:158:LYS:HB3	7:CH:63:LYS:HE2	2.02	0.42
9:CJ:11:LYS:HE3	9:CJ:99:GLN:HE22	1.85	0.42
13:CN:40:ARG:HH12	18:CS:6:LYS:N	2.17	0.42
13:CN:55:SER:OG	13:CN:56:PRO:HD2	2.19	0.42
13:CN:73:LEU:O	13:CN:74:ARG:C	2.58	0.42
15:CP:32:PHE:C	15:CP:32:PHE:CD1	2.93	0.42
16:CQ:24:ILE:HD12	16:CQ:24:ILE:N	2.34	0.42
17:CR:50:TYR:O	17:CR:54:LEU:HD12	2.19	0.42
20:CB:49:PHE:HB3	20:CB:212:TYR:OH	2.20	0.42
21:CU:41:THR:CA	21:CU:45:LYS:HD3	2.49	0.42
23:DB:78:U:OP1	44:DX:7:ARG:NH2	2.52	0.42
23:DB:545:U:H2'	23:DB:547:A:OP1	2.20	0.42
23:DB:729:G:H4'	23:DB:763:G:C5'	2.49	0.42
23:DB:942:G:H2'	23:DB:943:A:H8	1.84	0.42
23:DB:963:U:H2'	23:DB:964:C:H6	1.83	0.42
23:DB:1313:U:O2	23:DB:1313:U:C2'	2.67	0.42
23:DB:1636:U:O2'	23:DB:1637:A:H5'	2.18	0.42
23:DB:2323:G:C2'	23:DB:2324:U:H5'	2.49	0.42
23:DB:2821:A:H2'	23:DB:2822:G:H8	1.84	0.42
23:DB:2893:A:H4'	23:DB:2894:G:O5'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:74:PRO:HD2	25:DC:96:LYS:HG3	2.01	0.42
25:DC:267:VAL:HG11	25:DC:269:ARG:NH2	2.35	0.42
28:DF:146:ASP:O	28:DF:147:ARG:C	2.57	0.42
29:DG:171:LYS:CE	29:DG:173:ALA:HA	2.50	0.42
29:DG:174:LYS:HB3	29:DG:175:LYS:H	1.50	0.42
32:DK:61:VAL:HG13	32:DK:87:LEU:HD11	2.01	0.42
33:DL:30:THR:HG21	33:DL:38:GLN:NE2	2.35	0.42
35:DN:97:ILE:HA	35:DN:113:ILE:CD1	2.48	0.42
36:DO:39:VAL:O	36:DO:39:VAL:HG13	2.19	0.42
41:DT:76:ARG:CD	41:DT:76:ARG:C	2.87	0.42
42:DU:45:GLN:NE2	42:DU:47:PRO:HG3	2.34	0.42
42:DU:82:VAL:HB	42:DU:94:PHE:CB	2.50	0.42
43:DW:44:PHE:CG	43:DW:44:PHE:O	2.72	0.42
44:DX:8:GLU:OE2	44:DX:9:LYS:N	2.53	0.42
45:DY:2:LYS:HG3	45:DY:37:ARG:HG3	2.01	0.42
46:DZ:17:SER:O	46:DZ:19:GLY:N	2.45	0.42
48:D1:15:GLY:HA3	48:D1:47:ILE:HG22	2.01	0.42
50:D3:48:MET:HA	50:D3:48:MET:CE	2.47	0.42
50:D3:49:VAL:CG1	50:D3:51:LYS:HB2	2.49	0.42
1:AA:242:G:H2'	1:AA:243:A:H5''	2.01	0.42
1:AA:552:U:H4'	11:AL:82:ARG:HG2	2.01	0.42
1:AA:691:G:H2'	1:AA:692:U:C6	2.55	0.42
1:AA:1098:C:H2'	1:AA:1099:G:O4'	2.20	0.42
1:AA:1129:C:H5''	8:AI:17:ARG:NH2	2.34	0.42
6:AG:46:LEU:HD13	6:AG:46:LEU:O	2.20	0.42
8:AI:4:GLN:HE21	8:AI:21:LYS:HE3	1.84	0.42
11:AL:21:PRO:HD2	11:AL:94:TYR:OH	2.19	0.42
11:AL:38:THR:HA	11:AL:49:ARG:O	2.19	0.42
15:AP:42:ILE:CB	15:AP:46:LYS:HD2	2.42	0.42
17:AR:64:LEU:C	17:AR:66:LEU:H	2.23	0.42
20:AB:119:GLN:HE21	20:AB:119:GLN:HB3	1.59	0.42
23:BB:69:C:H2'	23:BB:70:G:C8	2.55	0.42
23:BB:203:A:H2'	23:BB:204:A:H8	1.84	0.42
23:BB:325:G:H2'	23:BB:326:G:H8	1.85	0.42
23:BB:480:A:C4'	42:BU:42:LYS:HG2	2.44	0.42
23:BB:635:C:O2'	23:BB:639:U:H5''	2.19	0.42
23:BB:686:U:H1'	49:B2:6:GLN:O	2.19	0.42
23:BB:686:U:O4	49:B2:12:ARG:HG3	2.19	0.42
23:BB:834:G:O2'	23:BB:835:C:H5'	2.20	0.42
23:BB:920:A:H2'	23:BB:921:C:H6	1.83	0.42
23:BB:994:C:OP1	38:BQ:49:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1260:A:H2'	23:BB:1261:C:C6	2.54	0.42
23:BB:1322:A:C2'	23:BB:1323:C:H5'	2.50	0.42
23:BB:1784:A:H4'	23:BB:1785:A:O5'	2.20	0.42
23:BB:1791:A:N6	23:BB:1828:G:H1'	2.34	0.42
23:BB:1799:G:N7	25:BC:178:GLY:HA3	2.34	0.42
23:BB:2038:G:H2'	23:BB:2039:U:C6	2.54	0.42
23:BB:2140:G:H2'	23:BB:2141:G:C8	2.54	0.42
23:BB:2263:C:H4'	23:BB:2329:U:H4'	2.01	0.42
23:BB:2277:G:N7	43:BW:8:SER:O	2.52	0.42
23:BB:2445:G:O2'	23:BB:2446:G:H5'	2.19	0.42
26:BD:120:GLY:N	26:BD:123:LYS:HG3	2.26	0.42
26:BD:128:ARG:HH11	26:BD:144:GLY:HA2	1.83	0.42
26:BD:167:ASN:ND2	26:BD:167:ASN:N	2.65	0.42
27:BE:17:THR:C	27:BE:199:MET:SD	2.98	0.42
27:BE:35:TYR:CD2	27:BE:178:VAL:HG21	2.54	0.42
27:BE:48:THR:O	27:BE:49:ARG:O	2.38	0.42
29:BG:173:ALA:C	29:BG:174:LYS:HD2	2.40	0.42
30:BH:6:LEU:HD12	30:BH:15:LEU:CA	2.47	0.42
31:BJ:34:ARG:CB	31:BJ:39:LYS:HD2	2.49	0.42
32:BK:9:ASN:O	32:BK:84:CYS:HB2	2.20	0.42
32:BK:47:ILE:HG22	32:BK:49:ARG:N	2.32	0.42
34:BM:5:LYS:HE3	34:BM:5:LYS:HB3	1.88	0.42
34:BM:33:LEU:HD22	34:BM:124:LEU:HG	2.02	0.42
35:BN:1:MET:SD	35:BN:2:ARG:HB2	2.60	0.42
35:BN:1:MET:CG	35:BN:2:ARG:H	2.32	0.42
35:BN:65:LEU:HD12	35:BN:65:LEU:HA	1.82	0.42
35:BN:112:TYR:CE2	47:B0:53:VAL:HG22	2.54	0.42
38:BQ:52:ARG:HD2	38:BQ:52:ARG:HA	1.74	0.42
41:BT:34:VAL:HG13	41:BT:43:ILE:HD11	2.01	0.42
42:BU:15:GLY:HA2	42:BU:18:LYS:HE2	2.02	0.42
45:BY:20:LYS:HG3	45:BY:24:LEU:HD12	2.02	0.42
46:BZ:49:ARG:HH21	46:BZ:53:THR:HG21	1.85	0.42
50:B3:15:LYS:NZ	50:B3:59:ALA:HB1	2.34	0.42
50:B3:24:LYS:HZ3	50:B3:29:ARG:NH2	2.12	0.42
52:BI:14:ALA:HA	52:BI:45:THR:CG2	2.43	0.42
1:CA:551:U:O2'	1:CA:552:U:H5'	2.19	0.42
1:CA:611:C:H2'	1:CA:612:C:H6	1.84	0.42
1:CA:1000:A:H2'	1:CA:1001:C:H6	1.78	0.42
1:CA:1209:C:O2'	1:CA:1210:C:H5'	2.20	0.42
1:CA:1248:A:H2'	1:CA:1249:C:C6	2.55	0.42
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:69:THR:HG22	2:CC:70:ALA:N	2.35	0.42
3:CD:74:TYR:HB3	3:CD:89:LEU:HD12	2.00	0.42
6:CG:36:SER:OG	6:CG:37:THR:N	2.52	0.42
8:CI:7:GLY:HA3	8:CI:81:GLY:O	2.19	0.42
10:CK:18:GLY:O	10:CK:81:LEU:HD12	2.19	0.42
11:CL:100:ALA:O	11:CL:101:LEU:O	2.37	0.42
16:CQ:23:ALA:HB1	16:CQ:40:THR:CG2	2.50	0.42
22:DA:22:U:H2'	22:DA:23:G:H8	1.85	0.42
22:DA:46:A:H4'	36:DO:1:MET:HB2	2.01	0.42
23:DB:212:G:H2'	23:DB:213:A:H8	1.84	0.42
23:DB:852:U:H2'	23:DB:853:C:H6	1.83	0.42
23:DB:1012:U:O4	31:DJ:30:THR:HG21	2.20	0.42
23:DB:1064:C:C1'	52:DI:90:GLY:HA2	2.50	0.42
23:DB:1099:G:O4'	52:DI:3:LYS:N	2.52	0.42
23:DB:1446:C:O2'	23:DB:1447:C:H5'	2.19	0.42
23:DB:1461:C:H2'	23:DB:1462:C:C6	2.55	0.42
23:DB:1864:U:OP1	23:DB:2410:G:O2'	2.32	0.42
23:DB:2007:U:H2'	23:DB:2008:C:C6	2.55	0.42
23:DB:2016:U:H1'	47:D0:2:VAL:HG11	2.01	0.42
23:DB:2417:C:O2'	23:DB:2418:A:H5'	2.18	0.42
23:DB:2526:G:H21	51:D4:1:MET:CG	2.32	0.42
25:DC:224:MET:HA	25:DC:233:GLY:N	2.29	0.42
25:DC:260:LYS:C	25:DC:261:ARG:HG3	2.40	0.42
26:DD:116:LYS:O	35:DN:2:ARG:N	2.52	0.42
27:DE:6:LYS:HG2	27:DE:119:ILE:O	2.19	0.42
28:DF:39:VAL:CA	28:DF:84:ILE:HB	2.38	0.42
28:DF:106:ALA:O	28:DF:136:ILE:HG23	2.19	0.42
29:DG:65:GLY:HA2	29:DG:68:ARG:HH21	1.84	0.42
29:DG:88:LEU:HD21	29:DG:104:LEU:HD11	2.02	0.42
29:DG:139:VAL:O	29:DG:143:VAL:HG12	2.20	0.42
31:DJ:15:TRP:O	31:DJ:16:TYR:C	2.58	0.42
31:DJ:44:TYR:CD1	31:DJ:45:THR:N	2.77	0.42
31:DJ:57:LEU:HG	31:DJ:128:ASN:HA	2.01	0.42
36:DO:8:ILE:O	36:DO:11:ALA:HB3	2.19	0.42
38:DQ:48:ASP:O	38:DQ:51:GLN:HB2	2.19	0.42
38:DQ:64:ILE:HG13	38:DQ:95:ALA:HB2	2.01	0.42
38:DQ:92:LYS:O	38:DQ:93:ILE:HG23	2.20	0.42
40:DS:22:ASP:O	40:DS:25:ARG:HG3	2.19	0.42
42:DU:43:LYS:HG2	42:DU:57:ILE:CB	2.49	0.42
42:DU:46:LYS:HE2	42:DU:52:ASN:O	2.20	0.42
42:DU:72:PHE:CD2	42:DU:74:ALA:HB3	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:8:LYS:O	46:DZ:9:TYR:HB2	2.20	0.42
46:DZ:17:SER:C	46:DZ:19:GLY:H	2.21	0.42
46:DZ:31:ASP:C	46:DZ:32:LEU:HD22	2.40	0.42
47:D0:29:VAL:HB	47:D0:34:GLY:HA2	2.02	0.42
48:D1:14:ALA:HB1	48:D1:48:TYR:CE2	2.55	0.42
49:D2:38:GLY:C	49:D2:39:ARG:HD2	2.40	0.42
52:DI:17:ALA:O	52:DI:18:ASN:HB3	2.19	0.42
52:DI:63:ASP:O	52:DI:64:ARG:CB	2.66	0.42
52:DI:90:GLY:C	52:DI:92:PRO:HD3	2.40	0.42
52:DI:102:ARG:HG3	52:DI:141:ASP:HA	2.02	0.42
1:AA:421:U:H5'	1:AA:422:C:C5	2.55	0.42
1:AA:512:U:O2'	1:AA:513:C:H5'	2.19	0.42
1:AA:1273:C:H2'	1:AA:1274:A:O4'	2.20	0.42
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.54	0.42
2:AC:54:ILE:O	2:AC:54:ILE:HG12	2.19	0.42
3:AD:84:ASN:OD1	4:AE:101:GLY:HA2	2.19	0.42
4:AE:143:LEU:O	4:AE:146:MET:HB2	2.20	0.42
8:AI:10:ARG:HA	8:AI:77:ALA:CB	2.50	0.42
8:AI:17:ARG:HE	8:AI:65:THR:HB	1.85	0.42
11:AL:6:LEU:O	11:AL:10:PRO:HG3	2.19	0.42
14:AO:2:LEU:HD13	14:AO:7:THR:HG23	2.02	0.42
14:AO:46:LYS:HE3	14:AO:46:LYS:HB2	1.89	0.42
16:AQ:56:ASP:C	16:AQ:79:GLU:HB3	2.40	0.42
20:AB:50:ASN:O	20:AB:51:GLU:C	2.58	0.42
20:AB:53:LEU:HD12	20:AB:219:THR:CG2	2.49	0.42
20:AB:71:THR:HG22	20:AB:94:ARG:HH21	1.84	0.42
20:AB:187:ASP:H	20:AB:190:SER:HB2	1.85	0.42
21:AU:5:VAL:O	21:AU:6:ARG:HB2	2.19	0.42
23:BB:13:A:O2'	23:BB:15:G:N7	2.43	0.42
23:BB:24:G:HO2'	23:BB:25:U:H5'	1.85	0.42
23:BB:786:C:O2'	23:BB:787:C:H5'	2.19	0.42
23:BB:1000:A:H1'	45:BY:10:ARG:HH12	1.85	0.42
23:BB:1428:C:H2'	23:BB:1569:A:OP2	2.20	0.42
23:BB:1789:A:H2'	23:BB:1790:C:H6	1.83	0.42
23:BB:2094:A:H5'	30:BH:25:TYR:CD1	2.54	0.42
23:BB:2651:C:O2'	23:BB:2652:C:H5'	2.20	0.42
23:BB:2751:G:H5'	23:BB:2751:G:N3	2.34	0.42
27:BE:97:ASN:N	27:BE:97:ASN:HD22	2.16	0.42
31:BJ:38:GLY:HA2	31:BJ:41:LYS:HB3	2.01	0.42
32:BK:2:ILE:HG22	32:BK:67:LYS:HZ1	1.85	0.42
33:BL:57:LEU:HD13	33:BL:58:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:109:PRO:N	34:BM:112:LEU:HD13	2.35	0.42
35:BN:10:LEU:O	35:BN:12:ARG:N	2.53	0.42
37:BP:64:SER:OG	37:BP:71:ARG:NH1	2.52	0.42
38:BQ:5:ARG:O	38:BQ:9:ALA:HB2	2.18	0.42
41:BT:29:THR:HB	41:BT:85:VAL:O	2.20	0.42
41:BT:62:VAL:O	41:BT:63:VAL:CG1	2.67	0.42
41:BT:84:TYR:C	41:BT:85:VAL:HG13	2.39	0.42
43:BW:39:GLN:HA	43:BW:68:PHE:CA	2.43	0.42
44:BX:18:LEU:HD12	44:BX:18:LEU:H	1.84	0.42
46:BZ:64:PHE:C	46:BZ:66:ILE:H	2.22	0.42
52:BI:46:ASP:HA	52:BI:50:LYS:CG	2.49	0.42
1:CA:108:G:C6	19:CT:9:ARG:HG2	2.54	0.42
1:CA:148:G:N3	1:CA:1446:A:H2	2.18	0.42
1:CA:238:A:C3'	1:CA:239:U:H5''	2.49	0.42
1:CA:512:U:O2'	1:CA:513:C:H5'	2.20	0.42
1:CA:562:U:H1'	11:CL:11:ARG:HB3	2.02	0.42
1:CA:714:G:H2'	1:CA:715:A:C8	2.54	0.42
1:CA:928:G:O2'	1:CA:929:G:H5'	2.20	0.42
1:CA:1172:C:H2'	1:CA:1173:U:C6	2.54	0.42
1:CA:1475:G:H4'	23:DB:1689:A:H4'	2.01	0.42
2:CC:156:LEU:CB	2:CC:163:ARG:HD3	2.46	0.42
6:CG:47:GLU:C	6:CG:49:LEU:H	2.22	0.42
7:CH:17:GLN:HG2	7:CH:62:LEU:HG	2.02	0.42
8:CI:29:ILE:HD13	8:CI:37:TYR:CD2	2.55	0.42
9:CJ:21:ALA:CB	9:CJ:96:VAL:HG11	2.49	0.42
10:CK:124:LYS:HD3	21:CU:34:ARG:HH11	1.85	0.42
18:CS:11:ASP:OD1	18:CS:14:LEU:HD21	2.20	0.42
18:CS:13:HIS:ND1	18:CS:13:HIS:N	2.58	0.42
18:CS:26:ASP:O	18:CS:27:LYS:HB3	2.20	0.42
19:CT:66:ILE:HA	19:CT:70:LYS:NZ	2.34	0.42
20:CB:41:ASN:ND2	20:CB:44:LYS:HB2	2.35	0.42
22:DA:75:G:H2'	22:DA:76:G:O4'	2.19	0.42
22:DA:103:U:O2'	22:DA:104:A:H5'	2.20	0.42
22:DA:116:G:H4'	36:DO:54:VAL:CG1	2.49	0.42
23:DB:51:G:O2'	23:DB:119:A:N6	2.52	0.42
23:DB:252:G:H2'	23:DB:253:C:H6	1.84	0.42
23:DB:510:C:O2'	23:DB:1236:G:H5'	2.19	0.42
23:DB:601:C:H2'	23:DB:602:A:H8	1.85	0.42
23:DB:1021:A:O2'	23:DB:1123:C:H5''	2.20	0.42
23:DB:1506:U:H2'	23:DB:1507:C:H6	1.85	0.42
23:DB:1704:C:H2'	23:DB:1705:A:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1710:G:H2'	23:DB:1711:A:C8	2.54	0.42
23:DB:1717:A:H2'	23:DB:1718:G:O4'	2.19	0.42
23:DB:1987:A:H2'	23:DB:1988:G:C8	2.54	0.42
23:DB:2141:G:H2'	23:DB:2142:A:C8	2.55	0.42
23:DB:2228:G:H21	46:DZ:32:LEU:HD11	1.84	0.42
23:DB:2251:G:H8	23:DB:2251:G:OP2	2.03	0.42
23:DB:2267:A:H3'	23:DB:2267:A:N3	2.34	0.42
23:DB:2316:G:O2'	23:DB:2317:A:H5'	2.20	0.42
23:DB:2520:C:O2'	23:DB:2521:C:H5'	2.20	0.42
23:DB:2723:C:H2'	23:DB:2724:U:O4'	2.19	0.42
24:DV:45:ASP:O	24:DV:46:LYS:HD2	2.19	0.42
25:DC:52:HIS:O	25:DC:53:ILE:HB	2.19	0.42
25:DC:75:ALA:HB1	25:DC:93:VAL:CG1	2.44	0.42
25:DC:173:LEU:HD23	25:DC:173:LEU:HA	1.81	0.42
26:DD:118:PHE:HD2	26:DD:119:ALA:N	2.17	0.42
27:DE:83:VAL:HG23	27:DE:84:THR:N	2.34	0.42
27:DE:122:GLU:CG	27:DE:123:LYS:H	2.32	0.42
27:DE:156:ASN:OD1	27:DE:157:LEU:HD23	2.18	0.42
29:DG:163:TYR:C	29:DG:165:ASP:H	2.22	0.42
30:DH:55:GLU:O	30:DH:59:ALA:HB2	2.20	0.42
31:DJ:14:ASP:HB3	31:DJ:16:TYR:HD1	1.84	0.42
33:DL:51:GLU:CG	33:DL:52:GLY:N	2.81	0.42
33:DL:76:GLU:HA	33:DL:76:GLU:OE1	2.20	0.42
34:DM:53:MET:CA	34:DM:112:LEU:HD21	2.48	0.42
34:DM:54:THR:O	34:DM:57:VAL:HG23	2.19	0.42
34:DM:73:ILE:CG2	34:DM:90:GLU:HG2	2.49	0.42
35:DN:63:ARG:HA	35:DN:80:PHE:CE1	2.54	0.42
37:DP:29:VAL:HA	37:DP:84:SER:HA	2.00	0.42
37:DP:46:VAL:HB	37:DP:65:ASN:OD1	2.18	0.42
39:DR:6:GLN:CG	39:DR:7:SER:H	2.30	0.42
41:DT:61:LEU:HB2	41:DT:82:LYS:CB	2.49	0.42
50:D3:4:LYS:HZ1	50:D3:60:CYS:HB3	1.84	0.42
1:AA:343:U:H2'	1:AA:345:C:C5	2.55	0.42
1:AA:432:A:C2'	1:AA:433:G:H5'	2.49	0.42
1:AA:611:C:H2'	1:AA:612:C:H6	1.83	0.42
1:AA:680:C:H2'	1:AA:681:A:H8	1.85	0.42
1:AA:1113:C:H2'	1:AA:1114:C:C6	2.55	0.42
1:AA:1528:U:H6	1:AA:1528:U:O5'	2.03	0.42
2:AC:40:GLN:OE1	2:AC:44:LYS:HD2	2.19	0.42
2:AC:185:THR:O	2:AC:186:SER:HB2	2.19	0.42
3:AD:190:LEU:O	3:AD:192:ALA:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:11:ARG:NH1	8:AI:106:ASP:OD1	2.53	0.42
11:AL:8:ARG:CZ	11:AL:9:LYS:HE3	2.50	0.42
11:AL:71:HIS:CG	11:AL:72:ASN:N	2.86	0.42
19:AT:53:MET:SD	19:AT:57:VAL:HG21	2.60	0.42
23:BB:83:A:H2'	23:BB:84:A:C8	2.55	0.42
23:BB:90:U:O4	23:BB:91:A:N6	2.53	0.42
23:BB:939:G:O2'	23:BB:940:G:H5'	2.20	0.42
23:BB:1064:C:H2'	23:BB:1065:U:O4'	2.20	0.42
23:BB:1140:C:OP1	31:BJ:64:VAL:HG13	2.20	0.42
23:BB:1902:C:H2'	23:BB:1903:G:H5'	2.00	0.42
23:BB:2146:C:H1'	23:BB:2147:A:H1'	2.02	0.42
23:BB:2659:G:C2	23:BB:2661:G:H5''	2.55	0.42
25:BC:61:TYR:HD2	25:BC:84:PRO:HD2	1.76	0.42
25:BC:130:PRO:HA	25:BC:187:CYS:O	2.19	0.42
25:BC:244:VAL:O	25:BC:245:THR:C	2.58	0.42
26:BD:120:GLY:N	26:BD:123:LYS:HB2	2.35	0.42
27:BE:161:ALA:O	27:BE:162:ARG:HD2	2.19	0.42
27:BE:189:THR:O	27:BE:190:ALA:HB3	2.20	0.42
28:BF:70:ARG:CA	28:BF:80:GLN:HE21	2.31	0.42
29:BG:102:ILE:CG2	29:BG:114:HIS:HB3	2.49	0.42
31:BJ:128:ASN:CG	31:BJ:129:GLU:N	2.73	0.42
32:BK:87:LEU:CA	32:BK:95:ILE:HG22	2.49	0.42
33:BL:67:THR:OG1	33:BL:68:SER:N	2.47	0.42
34:BM:13:HIS:O	34:BM:14:LYS:HD2	2.20	0.42
34:BM:29:GLY:H	34:BM:102:LEU:HG	1.84	0.42
34:BM:71:LYS:NZ	34:BM:91:TYR:HD2	2.17	0.42
34:BM:100:LYS:O	34:BM:101:VAL:HG13	2.20	0.42
39:BR:18:GLN:HE21	39:BR:99:THR:CB	2.29	0.42
39:BR:78:ARG:CG	39:BR:87:GLN:HA	2.49	0.42
39:BR:78:ARG:CD	39:BR:87:GLN:HG2	2.50	0.42
44:BX:55:THR:HG22	44:BX:59:GLU:CD	2.40	0.42
45:BY:29:ARG:O	45:BY:30:ARG:HB2	2.20	0.42
48:B1:8:ILE:HG21	48:B1:27:ARG:NH2	2.34	0.42
48:B1:36:LYS:HD2	48:B1:36:LYS:N	2.35	0.42
49:B2:21:ARG:CB	49:B2:31:LEU:HD21	2.49	0.42
51:B4:24:ARG:HD3	51:B4:26:ILE:HG23	2.01	0.42
52:BI:18:ASN:N	52:BI:19:PRO:CD	2.82	0.42
52:BI:56:VAL:CG2	52:BI:68:PHE:HB2	2.50	0.42
1:CA:167:A:H2'	1:CA:168:G:H8	1.85	0.42
1:CA:237:G:H2'	1:CA:238:A:C8	2.55	0.42
1:CA:359:G:O2'	1:CA:360:G:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:596:A:O2'	1:CA:597:G:H5'	2.20	0.42
1:CA:612:C:H2'	1:CA:613:C:C6	2.54	0.42
1:CA:709:U:H2'	1:CA:710:G:C8	2.55	0.42
1:CA:792:A:H1'	1:CA:794:A:N7	2.34	0.42
1:CA:1349:A:H2'	1:CA:1350:A:O4'	2.19	0.42
3:CD:171:GLU:O	3:CD:180:THR:HB	2.19	0.42
5:CF:74:LEU:HD22	5:CF:74:LEU:O	2.20	0.42
8:CI:6:TYR:CG	8:CI:7:GLY:N	2.86	0.42
8:CI:56:MET:C	8:CI:58:GLU:N	2.73	0.42
11:CL:91:GLY:O	11:CL:93:ARG:NE	2.52	0.42
15:CP:44:SER:HB3	15:CP:46:LYS:HG2	2.02	0.42
15:CP:78:VAL:O	15:CP:78:VAL:HG13	2.19	0.42
18:CS:30:LEU:HB2	18:CS:48:ILE:HA	2.01	0.42
18:CS:39:ILE:HG12	18:CS:68:HIS:O	2.19	0.42
18:CS:43:MET:HB3	18:CS:61:VAL:HG11	2.01	0.42
20:CB:31:PHE:HB3	20:CB:32:GLY:H	1.71	0.42
23:DB:126:A:OP2	49:D2:13:ASN:ND2	2.52	0.42
23:DB:268:C:O2	23:DB:268:C:H2'	2.19	0.42
23:DB:1204:A:N1	23:DB:1241:A:N1	2.67	0.42
23:DB:1276:A:O2'	23:DB:1277:G:H5'	2.19	0.42
23:DB:1544:A:H2'	23:DB:1545:A:C8	2.54	0.42
23:DB:1915:U:H2'	23:DB:1916:A:C8	2.54	0.42
23:DB:1921:G:O2'	23:DB:1922:G:H5'	2.20	0.42
23:DB:1936:A:N6	23:DB:1963:U:N3	2.63	0.42
23:DB:2007:U:H2'	23:DB:2008:C:H6	1.85	0.42
23:DB:2012:G:C5'	40:DS:96:ILE:HD11	2.50	0.42
23:DB:2324:U:H3'	23:DB:2325:G:C5'	2.49	0.42
23:DB:2384:U:H5''	23:DB:2386:A:OP1	2.19	0.42
23:DB:2479:U:O5'	23:DB:2479:U:H6	2.03	0.42
23:DB:2529:G:H5'	29:DG:175:LYS:HB3	2.01	0.42
23:DB:2869:G:H2'	23:DB:2870:C:H6	1.83	0.42
25:DC:53:ILE:CD1	25:DC:218:THR:HA	2.50	0.42
25:DC:257:ARG:HA	25:DC:261:ARG:NE	2.35	0.42
26:DD:6:GLY:C	26:DD:26:VAL:HG23	2.40	0.42
26:DD:60:VAL:HB	26:DD:62:LYS:NZ	2.34	0.42
26:DD:116:LYS:HB2	26:DD:165:MET:CB	2.49	0.42
27:DE:19:PHE:O	27:DE:19:PHE:HD1	2.03	0.42
28:DF:60:SER:OG	28:DF:88:VAL:HG11	2.19	0.42
29:DG:125:PRO:HD2	29:DG:129:GLU:O	2.19	0.42
29:DG:131:VAL:HG13	29:DG:131:VAL:O	2.19	0.42
30:DH:50:ARG:HD3	30:DH:54:LEU:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:70:GLU:H	30:DH:70:GLU:HG3	1.59	0.42
30:DH:127:GLU:HB2	30:DH:143:ILE:CG2	2.49	0.42
31:DJ:32:LEU:O	31:DJ:36:LEU:HD22	2.19	0.42
31:DJ:90:GLU:C	31:DJ:92:MET:N	2.72	0.42
33:DL:126:ARG:O	33:DL:127:VAL:CG2	2.67	0.42
34:DM:38:ARG:HD2	34:DM:38:ARG:C	2.39	0.42
38:DQ:2:ARG:NE	38:DQ:4:LYS:HE3	2.34	0.42
39:DR:15:SER:HB2	39:DR:16:GLU:H	1.68	0.42
41:DT:40:LYS:HE3	41:DT:59:ASN:O	2.20	0.42
44:DX:55:THR:HG22	44:DX:56:LEU:H	1.84	0.42
46:DZ:2:LYS:O	46:DZ:7:PRO:HA	2.19	0.42
48:D1:24:LYS:HZ3	48:D1:24:LYS:C	2.23	0.42
50:D3:38:LYS:HD2	50:D3:38:LYS:H	1.85	0.42
52:DI:131:THR:O	52:DI:135:MET:HG3	2.20	0.42
1:AA:402:G:H2'	1:AA:403:C:H6	1.84	0.42
1:AA:441:A:N6	1:AA:493:A:H62	2.15	0.42
1:AA:473:U:C2	1:AA:474:G:C8	3.07	0.42
1:AA:666:G:H5'	1:AA:726:C:H1'	2.02	0.42
1:AA:709:U:H2'	1:AA:710:G:C8	2.54	0.42
1:AA:787:A:O2'	1:AA:788:U:H5'	2.20	0.42
1:AA:957:U:O2	1:AA:959:A:H8	2.03	0.42
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.55	0.42
1:AA:1324:A:H2'	1:AA:1325:C:O4'	2.19	0.42
3:AD:58:GLN:CD	3:AD:62:ARG:HG3	2.39	0.42
3:AD:169:TRP:CB	3:AD:183:ARG:HH21	2.32	0.42
3:AD:176:LYS:O	3:AD:177:MET:C	2.57	0.42
4:AE:95:MET:HE2	4:AE:114:LEU:HD21	2.02	0.42
5:AF:7:VAL:HA	5:AF:60:VAL:O	2.20	0.42
5:AF:46:GLN:HE21	5:AF:46:GLN:HB2	1.50	0.42
9:AJ:30:LYS:HG3	9:AJ:36:VAL:HB	2.01	0.42
11:AL:34:THR:HB	11:AL:53:ARG:HB2	2.02	0.42
13:AN:1:ALA:O	13:AN:2:LYS:HB2	2.20	0.42
16:AQ:12:VAL:HG13	16:AQ:21:VAL:HB	2.01	0.42
17:AR:60:ARG:HA	17:AR:63:TYR:CD1	2.54	0.42
19:AT:57:VAL:O	19:AT:61:ALA:HB2	2.19	0.42
19:AT:60:GLN:HE21	19:AT:61:ALA:N	2.10	0.42
21:AU:3:ILE:HG23	21:AU:19:LYS:HE3	2.01	0.42
23:BB:23:G:O2'	23:BB:24:G:H5'	2.20	0.42
23:BB:126:A:O5'	49:B2:19:ARG:HG2	2.20	0.42
23:BB:286:U:H2'	23:BB:287:G:C8	2.55	0.42
23:BB:440:C:H2'	23:BB:441:U:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:477:A:H2'	23:BB:478:A:O4'	2.20	0.42
23:BB:562:U:H2'	23:BB:572:A:O4'	2.20	0.42
23:BB:670:A:OP1	33:BL:47:ARG:HD3	2.20	0.42
23:BB:709:U:H2'	23:BB:710:U:H6	1.85	0.42
23:BB:1241:A:H2'	23:BB:1242:U:C5'	2.48	0.42
23:BB:1439:A:N1	23:BB:1552:A:N7	2.68	0.42
23:BB:1556:C:H2'	23:BB:1557:C:C6	2.55	0.42
23:BB:1746:A:O2'	23:BB:1747:U:H5'	2.20	0.42
23:BB:1818:U:H5''	25:BC:155:ARG:CB	2.50	0.42
23:BB:1922:G:H2'	23:BB:1923:U:O4'	2.19	0.42
23:BB:2047:C:H2'	23:BB:2048:G:H8	1.84	0.42
23:BB:2251:G:H8	23:BB:2251:G:OP2	2.02	0.42
23:BB:2265:U:H3'	23:BB:2266:A:C5'	2.50	0.42
23:BB:2544:G:H2'	23:BB:2545:G:H8	1.85	0.42
23:BB:2604:U:O2'	23:BB:2605:U:H5'	2.20	0.42
23:BB:2678:C:O2'	23:BB:2679:A:H5'	2.20	0.42
23:BB:2780:G:C2	31:BJ:120:ARG:HG3	2.55	0.42
23:BB:2784:U:O2'	23:BB:2785:C:H5'	2.20	0.42
23:BB:2849:U:O4	23:BB:2867:G:C8	2.73	0.42
24:BV:44:HIS:CE1	24:BV:85:LYS:HB2	2.55	0.42
26:BD:1:MET:HE2	26:BD:1:MET:HB2	1.89	0.42
26:BD:23:PRO:HG2	26:BD:178:VAL:HG21	2.02	0.42
26:BD:83:ARG:HG2	26:BD:83:ARG:NH1	2.35	0.42
28:BF:103:ILE:HG13	28:BF:104:THR:N	2.34	0.42
29:BG:89:VAL:HG12	29:BG:159:LYS:HA	2.01	0.42
30:BH:9:VAL:O	30:BH:9:VAL:HG12	2.19	0.42
30:BH:55:GLU:C	30:BH:57:LYS:H	2.23	0.42
30:BH:147:VAL:HG12	30:BH:148:ALA:N	2.35	0.42
31:BJ:128:ASN:CG	31:BJ:129:GLU:H	2.22	0.42
34:BM:65:ILE:CG2	34:BM:101:VAL:HA	2.44	0.42
34:BM:105:MET:HE3	34:BM:106:ASP:O	2.20	0.42
37:BP:62:LYS:NZ	37:BP:102:ARG:HH22	2.17	0.42
38:BQ:59:LEU:CG	38:BQ:63:ARG:HH21	2.32	0.42
46:BZ:60:PHE:HD2	46:BZ:60:PHE:HA	1.69	0.42
47:B0:6:LYS:HD3	47:B0:6:LYS:HA	1.82	0.42
47:B0:29:VAL:HG21	47:B0:41:HIS:HA	2.02	0.42
51:B4:27:CYS:SG	51:B4:33:HIS:NE2	2.93	0.42
1:CA:22:G:O2'	1:CA:23:C:H5'	2.20	0.42
1:CA:28:A:H2'	1:CA:29:U:O4'	2.20	0.42
1:CA:31:G:H2'	1:CA:48:C:C5	2.54	0.42
1:CA:41:G:H2'	1:CA:42:G:H8	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:585:G:O2'	1:CA:879:C:OP1	2.37	0.42
1:CA:707:U:H2'	1:CA:708:C:C6	2.55	0.42
1:CA:893:C:H2'	1:CA:894:G:H8	1.84	0.42
1:CA:1058:G:H2'	1:CA:1059:C:O4'	2.19	0.42
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.19	0.42
3:CD:99:ASN:O	3:CD:102:TYR:HB3	2.20	0.42
4:CE:28:ARG:HE	4:CE:28:ARG:HB2	1.73	0.42
5:CF:19:PRO:HG2	5:CF:20:GLY:H	1.84	0.42
7:CH:125:ILE:HG22	7:CH:126:CYS:SG	2.60	0.42
8:CI:44:ARG:HB3	8:CI:48:ARG:HH12	1.85	0.42
8:CI:85:ALA:C	8:CI:87:MET:N	2.73	0.42
11:CL:6:LEU:CD1	11:CL:11:ARG:HE	2.29	0.42
12:CM:68:LEU:HD22	12:CM:69:ARG:HH11	1.82	0.42
16:CQ:30:HIS:HB3	16:CQ:33:TYR:HB2	2.01	0.42
19:CT:4:LYS:HE2	19:CT:6:ALA:HB3	2.02	0.42
20:CB:14:HIS:HB3	20:CB:208:ALA:HB1	2.02	0.42
23:DB:88:G:O2'	23:DB:89:A:H5'	2.20	0.42
23:DB:559:G:H2'	23:DB:560:C:O4'	2.20	0.42
23:DB:570:G:C2'	23:DB:571:U:H5'	2.50	0.42
23:DB:957:C:H5	34:DM:76:LYS:NZ	2.18	0.42
23:DB:1079:C:C2	23:DB:1080:A:C8	3.08	0.42
23:DB:1142:A:C4	23:DB:1144:A:C8	3.08	0.42
23:DB:1275:A:N7	35:DN:16:HIS:CG	2.88	0.42
23:DB:1310:G:H1'	23:DB:1611:C:H5'	2.01	0.42
23:DB:1516:G:O2'	23:DB:1517:G:H5'	2.20	0.42
23:DB:2082:A:H61	23:DB:2237:G:H1'	1.85	0.42
23:DB:2379:G:H2'	23:DB:2380:C:H6	1.84	0.42
23:DB:2389:G:H5'	23:DB:2390:U:O4'	2.20	0.42
23:DB:2395:C:H6	23:DB:2395:C:O5'	2.02	0.42
23:DB:2419:U:O4	50:D3:29:ARG:CZ	2.67	0.42
23:DB:2649:C:H2'	23:DB:2650:U:C6	2.55	0.42
23:DB:2651:C:O2'	23:DB:2652:C:H5'	2.20	0.42
23:DB:2813:A:O2'	23:DB:2814:A:H5'	2.19	0.42
23:DB:2868:A:H2'	23:DB:2869:G:C8	2.55	0.42
24:DV:65:VAL:O	24:DV:66:ASP:HB3	2.19	0.42
25:DC:20:ASN:CB	25:DC:202:ARG:CD	2.96	0.42
25:DC:140:VAL:HG11	25:DC:163:ILE:HG13	2.01	0.42
26:DD:25:THR:HA	26:DD:188:LEU:HD12	2.01	0.42
27:DE:61:ARG:NH1	27:DE:65:THR:HG23	2.34	0.42
27:DE:154:ASP:OD1	27:DE:158:PHE:HB2	2.20	0.42
27:DE:193:VAL:HA	27:DE:198:GLU:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:35:LEU:O	28:DF:152:ASP:HB2	2.20	0.42
32:DK:87:LEU:O	32:DK:88:ASN:C	2.58	0.42
33:DL:124:GLY:H	33:DL:142:ILE:CB	2.32	0.42
34:DM:106:ASP:O	34:DM:109:PRO:HD3	2.19	0.42
36:DO:25:ARG:HE	36:DO:94:ARG:NH2	2.18	0.42
36:DO:31:THR:C	36:DO:33:ARG:H	2.22	0.42
36:DO:90:VAL:HG12	36:DO:91:SER:N	2.35	0.42
37:DP:98:TYR:CD1	37:DP:98:TYR:N	2.88	0.42
38:DQ:3:VAL:O	38:DQ:4:LYS:C	2.58	0.42
39:DR:5:PHE:HD1	39:DR:37:GLU:OE2	2.02	0.42
39:DR:78:ARG:HA	39:DR:88:GLY:O	2.20	0.42
41:DT:6:ARG:O	41:DT:7:LEU:C	2.56	0.42
41:DT:38:ALA:O	41:DT:39:THR:O	2.37	0.42
42:DU:59:GLU:HG3	42:DU:62:ALA:CB	2.43	0.42
43:DW:68:PHE:CE1	43:DW:69:GLU:HG2	2.54	0.42
45:DY:36:GLU:O	45:DY:37:ARG:CB	2.67	0.42
51:D4:26:ILE:HD13	51:D4:27:CYS:N	2.34	0.42
1:AA:233:C:O2'	1:AA:234:C:H5'	2.20	0.42
1:AA:250:A:H1'	1:AA:252:U:C5	2.55	0.42
1:AA:405:U:OP2	3:AD:114:ARG:NH2	2.53	0.42
1:AA:581:G:OP1	14:AO:64:LYS:HE3	2.20	0.42
1:AA:999:C:O2'	1:AA:1000:A:H5'	2.20	0.42
2:AC:122:GLN:O	2:AC:127:VAL:HG22	2.20	0.42
2:AC:148:ILE:HA	2:AC:200:TRP:O	2.20	0.42
8:AI:20:ILE:HA	8:AI:61:ASP:O	2.19	0.42
8:AI:98:ARG:HA	8:AI:103:VAL:HG22	2.02	0.42
11:AL:9:LYS:O	11:AL:9:LYS:HG3	2.20	0.42
11:AL:14:LYS:NZ	11:AL:17:LYS:HE2	2.34	0.42
11:AL:113:ARG:HD3	11:AL:121:PRO:HD3	2.02	0.42
20:AB:33:ALA:HA	20:AB:38:HIS:CA	2.39	0.42
20:AB:48:MET:H	20:AB:48:MET:HG2	1.50	0.42
20:AB:61:SER:HB3	20:AB:223:GLY:O	2.20	0.42
20:AB:205:ALA:O	20:AB:209:VAL:HG22	2.20	0.42
21:AU:31:VAL:O	21:AU:32:ARG:C	2.57	0.42
23:BB:912:C:H2'	23:BB:913:U:C6	2.54	0.42
23:BB:972:A:OP2	23:BB:974:G:H5''	2.20	0.42
23:BB:1161:C:O2'	39:BR:22:LEU:HD13	2.19	0.42
23:BB:1420:A:N3	23:BB:2211:A:N7	2.68	0.42
23:BB:1541:C:H2'	23:BB:1542:U:H6	1.85	0.42
23:BB:1636:U:O2'	23:BB:1637:A:H5'	2.20	0.42
23:BB:1683:U:O2'	23:BB:1684:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1843:C:H2'	23:BB:1844:C:H6	1.84	0.42
23:BB:2653:U:H3'	23:BB:2654:A:H2'	2.02	0.42
23:BB:2718:G:H5''	37:BP:100:ARG:HD2	2.02	0.42
24:BV:75:GLN:HG2	34:BM:136:MET:HG2	2.02	0.42
25:BC:12:ARG:HE	25:BC:12:ARG:HB3	1.60	0.42
25:BC:99:GLU:HG3	25:BC:100:ARG:N	2.35	0.42
25:BC:114:GLN:O	25:BC:115:ILE:HB	2.20	0.42
25:BC:168:GLY:C	25:BC:170:TYR:H	2.21	0.42
27:BE:44:ARG:C	27:BE:46:GLN:N	2.68	0.42
27:BE:120:VAL:HG12	27:BE:121:VAL:N	2.34	0.42
28:BF:23:SER:C	28:BF:25:MET:N	2.73	0.42
28:BF:148:VAL:O	28:BF:149:ARG:C	2.58	0.42
30:BH:83:LYS:HG3	1:CA:360:G:OP1	2.19	0.42
33:BL:33:ARG:NH1	33:BL:34:GLY:HA3	2.35	0.42
33:BL:67:THR:HG23	33:BL:68:SER:N	2.25	0.42
33:BL:127:VAL:HB	33:BL:128:THR:H	1.32	0.42
36:BO:17:LYS:NZ	43:BW:77:LYS:HE3	2.35	0.42
39:BR:43:ASN:OD1	39:BR:56:GLY:HA3	2.20	0.42
41:BT:25:GLU:CG	41:BT:26:LYS:H	2.33	0.42
41:BT:68:LYS:HE2	41:BT:68:LYS:HB2	1.81	0.42
42:BU:73:ASN:HB2	42:BU:96:LYS:HZ2	1.83	0.42
43:BW:36:ILE:O	43:BW:37:VAL:HB	2.20	0.42
45:BY:37:ARG:NH1	45:BY:37:ARG:HG3	2.34	0.42
48:B1:35:LEU:O	48:B1:35:LEU:HG	2.20	0.42
50:B3:16:THR:C	50:B3:18:LYS:N	2.73	0.42
50:B3:35:LYS:O	50:B3:36:ALA:HB3	2.20	0.42
51:B4:13:ASN:N	51:B4:13:ASN:ND2	2.67	0.42
52:BI:132:ALA:HA	52:BI:135:MET:HG2	2.02	0.42
1:CA:1050:G:H2'	1:CA:1051:C:C6	2.55	0.42
1:CA:1119:C:O2'	1:CA:1120:C:H5'	2.20	0.42
3:CD:169:TRP:CD2	3:CD:185:PRO:HB3	2.55	0.42
5:CF:15:SER:HA	5:CF:18:VAL:HG23	2.01	0.42
7:CH:46:GLU:HA	7:CH:63:LYS:HE3	2.01	0.42
8:CI:30:ASN:O	8:CI:31:GLN:HB2	2.19	0.42
12:CM:1:ALA:O	12:CM:3:ILE:HG13	2.20	0.42
12:CM:79:LEU:HD22	12:CM:86:ARG:HE	1.85	0.42
19:CT:31:ILE:HD13	19:CT:74:HIS:CE1	2.55	0.42
19:CT:66:ILE:CG2	19:CT:67:HIS:N	2.81	0.42
21:CU:3:ILE:HB	21:CU:18:PHE:CE2	2.54	0.42
22:DA:75:G:H21	24:DV:88:HIS:CD2	2.38	0.42
22:DA:92:C:H2'	22:DA:93:C:H6	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DA:115:A:H4'	36:DO:55:GLU:OE2	2.20	0.42
23:DB:381:G:O2'	23:DB:382:A:H5'	2.20	0.42
23:DB:1147:A:O2'	23:DB:1148:U:H5'	2.19	0.42
23:DB:2294:G:OP2	36:DO:9:ARG:HD2	2.19	0.42
23:DB:2514:U:H2'	23:DB:2515:C:C6	2.55	0.42
23:DB:2627:G:O2'	23:DB:2781:A:N1	2.46	0.42
23:DB:2768:U:H2'	23:DB:2769:U:O4'	2.20	0.42
25:DC:130:PRO:HA	25:DC:188:ARG:HA	2.01	0.42
26:DD:5:VAL:HG12	26:DD:6:GLY:N	2.34	0.42
26:DD:94:GLN:HG2	26:DD:95:SER:O	2.19	0.42
26:DD:148:GLN:HB3	26:DD:151:THR:HG23	2.01	0.42
26:DD:157:LYS:HD2	31:DJ:80:HIS:HA	2.01	0.42
27:DE:142:ALA:C	27:DE:185:LYS:HZ2	2.22	0.42
27:DE:169:VAL:O	27:DE:170:ARG:HB2	2.19	0.42
29:DG:50:THR:HG22	29:DG:51:PHE:O	2.20	0.42
29:DG:55:ASP:CG	29:DG:56:GLY:N	2.74	0.42
29:DG:93:TYR:HD1	29:DG:93:TYR:N	2.16	0.42
31:DJ:11:VAL:HG22	31:DJ:11:VAL:O	2.19	0.42
36:DO:9:ARG:C	36:DO:11:ALA:N	2.73	0.42
36:DO:79:ALA:O	36:DO:82:ALA:HB3	2.20	0.42
37:DP:72:VAL:HB	37:DP:73:PHE:H	1.65	0.42
39:DR:67:GLY:N	39:DR:98:ILE:HA	2.32	0.42
41:DT:32:LEU:O	41:DT:83:ALA:HB3	2.19	0.42
42:DU:13:LEU:HD11	42:DU:68:ASN:HA	2.00	0.42
42:DU:54:PRO:HD2	42:DU:55:GLY:H	1.83	0.42
44:DX:39:GLN:H	44:DX:39:GLN:HG2	1.64	0.42
46:DZ:27:THR:O	46:DZ:28:VAL:HG13	2.20	0.42
48:D1:8:ILE:CG2	48:D1:27:ARG:HD3	2.50	0.42
50:D3:7:ARG:HA	50:D3:7:ARG:HD2	1.84	0.42
50:D3:12:ARG:CD	50:D3:23:HIS:HB2	2.50	0.42
1:AA:321:A:H2'	1:AA:322:C:H6	1.84	0.41
1:AA:542:G:O2'	1:AA:543:U:H5'	2.20	0.41
1:AA:821:G:H2'	1:AA:822:U:C6	2.56	0.41
1:AA:972:C:H4'	9:AJ:59:LYS:HB3	2.02	0.41
1:AA:1286:U:OP1	1:AA:1286:U:C2	2.72	0.41
1:AA:1470:U:O2'	1:AA:1471:U:H5'	2.20	0.41
2:AC:4:VAL:HG21	2:AC:9:ILE:HD13	2.02	0.41
3:AD:104:MET:CE	3:AD:170:LEU:HD13	2.50	0.41
4:AE:35:LEU:CD1	4:AE:133:ILE:HA	2.50	0.41
5:AF:74:LEU:HG	5:AF:78:PHE:CD1	2.55	0.41
6:AG:138:GLU:HA	6:AG:141:HIS:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:24:VAL:HG13	7:AH:60:LEU:HB2	2.00	0.41
8:AI:20:ILE:HD12	8:AI:20:ILE:N	2.35	0.41
8:AI:29:ILE:CG2	8:AI:64:ILE:HB	2.40	0.41
10:AK:22:ILE:HD13	10:AK:95:THR:HG21	2.01	0.41
13:AN:68:ARG:HH11	13:AN:70:HIS:HB2	1.85	0.41
16:AQ:76:ARG:HE	16:AQ:78:VAL:HG22	1.85	0.41
17:AR:27:THR:O	17:AR:28:LEU:HD12	2.20	0.41
19:AT:17:ARG:C	19:AT:17:ARG:HD2	2.40	0.41
20:AB:9:LEU:CD1	20:AB:11:ALA:HB3	2.50	0.41
20:AB:45:THR:HA	20:AB:48:MET:CG	2.50	0.41
20:AB:67:LEU:HD12	20:AB:153:MET:CE	2.39	0.41
20:AB:80:LYS:HB3	20:AB:90:PHE:CE1	2.54	0.41
21:AU:11:PHE:HD2	2:CC:105:VAL:HG11	1.85	0.41
21:AU:26:GLY:O	21:AU:30:GLU:N	2.53	0.41
23:BB:76:C:OP1	44:BX:48:ARG:NH1	2.52	0.41
23:BB:263:G:O2'	23:BB:429:A:N3	2.52	0.41
23:BB:305:C:H2'	23:BB:306:U:C6	2.55	0.41
23:BB:904:G:H2'	23:BB:905:A:C8	2.54	0.41
23:BB:981:A:H3'	23:BB:982:C:C5'	2.50	0.41
23:BB:1056:G:N2	23:BB:1104:C:N4	2.68	0.41
23:BB:1107:G:H2'	23:BB:1108:U:C6	2.55	0.41
23:BB:2047:C:H2'	23:BB:2048:G:C8	2.55	0.41
23:BB:2053:G:C2'	23:BB:2054:A:H5'	2.50	0.41
23:BB:2331:G:O2'	43:BW:69:GLU:CD	2.58	0.41
23:BB:2523:G:O2'	23:BB:2524:G:H5'	2.20	0.41
23:BB:2683:C:O3'	37:BP:59:THR:HG21	2.20	0.41
25:BC:109:LEU:HB3	25:BC:110:LYS:H	1.64	0.41
25:BC:141:HIS:CG	25:BC:142:ASN:H	2.34	0.41
28:BF:24:VAL:HA	28:BF:27:VAL:HG23	2.02	0.41
28:BF:36:ASN:HB2	28:BF:87:LYS:CA	2.45	0.41
30:BH:3:VAL:C	30:BH:4:ILE:HG13	2.39	0.41
30:BH:66:ASN:C	30:BH:68:ARG:H	2.23	0.41
32:BK:108:ARG:HG3	32:BK:108:ARG:NH1	2.35	0.41
33:BL:82:LEU:HD12	33:BL:90:VAL:CG1	2.49	0.41
34:BM:71:LYS:O	34:BM:72:PRO:C	2.58	0.41
34:BM:105:MET:HE1	34:BM:107:GLY:HA3	2.02	0.41
36:BO:6:ALA:C	36:BO:8:ILE:H	2.23	0.41
37:BP:59:THR:C	37:BP:60:VAL:HG22	2.39	0.41
39:BR:35:PHE:H	39:BR:64:VAL:HG22	1.85	0.41
40:BS:13:SER:OG	40:BS:16:LYS:HB2	2.20	0.41
41:BT:61:LEU:CD1	41:BT:62:VAL:H	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:70:HIS:ND1	41:BT:74:ILE:HB	2.35	0.41
42:BU:70:ALA:HB3	42:BU:77:GLY:O	2.20	0.41
43:BW:28:GLU:CB	43:BW:30:VAL:HG23	2.41	0.41
44:BX:22:LEU:HB3	44:BX:26:PHE:CB	2.42	0.41
45:BY:28:LEU:C	45:BY:29:ARG:HG2	2.39	0.41
46:BZ:4:ASP:O	46:BZ:5:ILE:C	2.59	0.41
50:B3:11:LYS:NZ	50:B3:11:LYS:HB2	2.35	0.41
1:CA:343:U:H2'	1:CA:345:C:C5	2.55	0.41
1:CA:493:A:N3	1:CA:493:A:O4'	2.52	0.41
1:CA:754:C:H3'	1:CA:754:C:O2	2.20	0.41
1:CA:1092:A:H5''	6:CG:3:ARG:NH1	2.35	0.41
1:CA:1284:C:C2	1:CA:1285:A:N7	2.88	0.41
1:CA:1284:C:H3'	1:CA:1285:A:H8	1.84	0.41
1:CA:1354:U:O2'	1:CA:1355:G:H5'	2.20	0.41
2:CC:8:GLY:HA2	2:CC:11:LEU:HG	2.02	0.41
7:CH:51:GLU:OE2	7:CH:59:GLU:HG3	2.20	0.41
9:CJ:40:ILE:HG12	9:CJ:74:VAL:H	1.86	0.41
16:CQ:7:LEU:O	16:CQ:59:GLU:HA	2.20	0.41
19:CT:66:ILE:HG21	19:CT:71:ALA:HB2	2.02	0.41
20:CB:31:PHE:HB2	20:CB:41:ASN:HA	2.01	0.41
20:CB:96:LEU:O	20:CB:99:MET:HG3	2.20	0.41
20:CB:121:GLN:NE2	20:CB:122:ASP:N	2.67	0.41
21:CU:24:LYS:CG	21:CU:25:ALA:H	2.33	0.41
22:DA:66:A:HO2'	22:DA:67:G:H8	1.59	0.41
23:DB:448:U:H3'	27:DE:79:ARG:NE	2.22	0.41
23:DB:545:U:C6	23:DB:546:U:H4'	2.54	0.41
23:DB:600:G:H1'	27:DE:100:MET:SD	2.60	0.41
23:DB:1033:U:C4	51:D4:16:ILE:HD11	2.54	0.41
23:DB:1979:U:C2'	23:DB:1980:G:H5'	2.50	0.41
23:DB:2028:U:H2'	23:DB:2029:G:O4'	2.19	0.41
23:DB:2798:U:H1'	23:DB:2800:A:N6	2.35	0.41
23:DB:2893:A:H4'	23:DB:2894:G:C5'	2.50	0.41
25:DC:20:ASN:CG	25:DC:202:ARG:HD3	2.40	0.41
25:DC:176:ARG:HB3	25:DC:177:SER:H	1.66	0.41
27:DE:169:VAL:HG22	27:DE:171:ASP:H	1.85	0.41
31:DJ:59:ALA:C	31:DJ:61:LYS:N	2.71	0.41
31:DJ:85:LYS:HE2	31:DJ:85:LYS:C	2.40	0.41
32:DK:109:SER:C	32:DK:113:MET:HE2	2.40	0.41
34:DM:67:VAL:HG23	34:DM:100:LYS:HG2	2.02	0.41
35:DN:2:ARG:C	35:DN:3:HIS:HD2	2.23	0.41
38:DQ:20:ALA:O	38:DQ:21:LYS:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:94:LEU:HA	38:DQ:97:ILE:CG1	2.50	0.41
38:DQ:101:ASP:HB3	38:DQ:104:ALA:HB3	2.02	0.41
41:DT:77:ARG:HG2	41:DT:78:SER:N	2.32	0.41
41:DT:87:LEU:HD22	41:DT:93:LEU:HD11	2.02	0.41
43:DW:24:ARG:NE	43:DW:58:LEU:HB2	2.35	0.41
1:AA:29:U:H5'	1:AA:296:U:OP1	2.20	0.41
1:AA:152:A:N6	1:AA:170:U:C2	2.88	0.41
1:AA:237:G:H2'	1:AA:238:A:H8	1.84	0.41
1:AA:319:G:O2'	1:AA:320:A:H5'	2.21	0.41
1:AA:622:A:H2'	1:AA:623:C:H5'	2.02	0.41
1:AA:1220:G:H21	18:AS:53:GLY:HA2	1.84	0.41
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.80	0.41
2:AC:55:VAL:HG12	2:AC:56:ILE:H	1.84	0.41
3:AD:106:PHE:CD1	3:AD:106:PHE:N	2.88	0.41
8:AI:25:GLY:HA2	8:AI:60:LEU:O	2.19	0.41
10:AK:81:LEU:CD2	10:AK:104:PHE:HB3	2.50	0.41
11:AL:30:ARG:HB3	11:AL:57:THR:CG2	2.50	0.41
11:AL:83:GLY:HA2	11:AL:94:TYR:CD1	2.52	0.41
16:AQ:3:LYS:O	16:AQ:3:LYS:HD2	2.21	0.41
18:AS:16:LYS:HA	18:AS:16:LYS:HD3	1.83	0.41
20:AB:79:VAL:HG11	20:AB:92:ASN:HB3	2.01	0.41
23:BB:118:A:H1'	23:BB:178:G:O4'	2.20	0.41
23:BB:322:A:H5'	23:BB:340:A:O4'	2.20	0.41
23:BB:338:G:C2	23:BB:339:U:H1'	2.55	0.41
23:BB:406:G:H2'	23:BB:407:G:H8	1.85	0.41
23:BB:515:A:H2'	23:BB:516:C:O4'	2.20	0.41
23:BB:535:G:N3	38:BQ:52:ARG:NH1	2.69	0.41
23:BB:583:G:H2'	23:BB:584:C:H6	1.85	0.41
23:BB:1097:U:H2'	23:BB:1098:A:C5'	2.49	0.41
23:BB:1139:G:H5'	31:BJ:104:ALA:HB1	2.02	0.41
23:BB:1287:A:OP1	35:BN:104:ALA:HB3	2.20	0.41
23:BB:1544:A:H2'	23:BB:1545:A:C8	2.55	0.41
23:BB:1821:A:H5'	25:BC:155:ARG:CD	2.50	0.41
23:BB:1851:U:H2'	23:BB:1852:U:C6	2.55	0.41
23:BB:1901:A:H1'	25:BC:250:GLN:NE2	2.35	0.41
23:BB:2630:G:H2'	23:BB:2631:G:H8	1.84	0.41
25:BC:67:LYS:O	25:BC:68:ARG:CB	2.67	0.41
25:BC:144:GLU:HG2	25:BC:150:GLY:HA2	2.00	0.41
25:BC:254:LYS:HB3	25:BC:255:LYS:H	1.55	0.41
26:BD:11:MET:HG2	26:BD:12:THR:N	2.31	0.41
26:BD:13:ARG:HB2	26:BD:21:SER:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:16:GLU:CG	27:BE:196:VAL:HG13	2.50	0.41
27:BE:118:LEU:CD1	27:BE:187:VAL:HG12	2.46	0.41
27:BE:128:ALA:O	27:BE:157:LEU:HD22	2.20	0.41
27:BE:148:ILE:N	27:BE:183:PHE:HB3	2.36	0.41
27:BE:148:ILE:HB	27:BE:185:LYS:O	2.20	0.41
27:BE:163:ASN:OD1	27:BE:166:LYS:N	2.53	0.41
29:BG:42:VAL:HG23	29:BG:43:LYS:N	2.35	0.41
30:BH:89:LYS:C	30:BH:90:LEU:HD12	2.40	0.41
32:BK:108:ARG:HG3	32:BK:108:ARG:O	2.17	0.41
33:BL:92:LEU:HD21	33:BL:96:LYS:HZ3	1.85	0.41
34:BM:17:ASN:ND2	34:BM:18:ARG:NH2	2.67	0.41
35:BN:97:ILE:HD12	35:BN:113:ILE:HG12	2.02	0.41
36:BO:16:ARG:HA	36:BO:16:ARG:HE	1.82	0.41
36:BO:16:ARG:CG	36:BO:20:GLU:HG3	2.48	0.41
36:BO:18:LEU:C	36:BO:18:LEU:HD12	2.40	0.41
37:BP:22:GLY:O	37:BP:91:VAL:HA	2.20	0.41
37:BP:38:ARG:HG3	37:BP:38:ARG:HH11	1.85	0.41
39:BR:85:LYS:O	39:BR:85:LYS:HG3	2.19	0.41
40:BS:70:LYS:O	40:BS:71:VAL:CB	2.65	0.41
41:BT:15:HIS:O	41:BT:16:VAL:C	2.58	0.41
42:BU:13:LEU:HG	42:BU:69:VAL:CG2	2.49	0.41
42:BU:69:VAL:O	42:BU:70:ALA:C	2.58	0.41
42:BU:70:ALA:O	42:BU:71:ILE:C	2.59	0.41
42:BU:84:PHE:HB3	42:BU:92:VAL:O	2.20	0.41
43:BW:16:GLU:C	43:BW:18:LYS:HD2	2.40	0.41
45:BY:6:ILE:HD13	45:BY:6:ILE:H	1.85	0.41
47:B0:4:GLN:O	47:B0:6:LYS:HE2	2.20	0.41
52:BI:100:ILE:HG22	52:BI:101:SER:O	2.20	0.41
1:CA:261:U:H2'	1:CA:263:A:OP2	2.20	0.41
1:CA:265:G:H5'	16:CQ:65:PRO:O	2.19	0.41
1:CA:323:U:H2'	1:CA:324:G:O4'	2.20	0.41
1:CA:688:G:H5'	10:CK:48:GLY:HA2	2.01	0.41
1:CA:777:A:H2'	1:CA:778:G:H8	1.84	0.41
1:CA:812:G:OP1	1:CA:812:G:C4'	2.69	0.41
1:CA:829:G:O2'	1:CA:830:G:H5'	2.20	0.41
1:CA:958:A:C6	1:CA:959:A:N1	2.88	0.41
1:CA:972:C:OP1	9:CJ:59:LYS:HD2	2.21	0.41
1:CA:1279:G:N2	9:CJ:45:ARG:HD2	2.35	0.41
1:CA:1480:A:H2'	1:CA:1481:U:H6	1.83	0.41
1:CA:1526:G:O5'	21:CU:38:GLU:HB2	2.20	0.41
2:CC:64:ARG:HD3	2:CC:101:ASN:ND2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:156:ALA:O	3:CD:160:LEU:HD12	2.20	0.41
4:CE:28:ARG:O	4:CE:29:ILE:HD13	2.19	0.41
4:CE:157:GLY:H	7:CH:43:GLY:CA	2.31	0.41
5:CF:73:GLU:O	5:CF:77:THR:HG23	2.20	0.41
7:CH:44:PHE:CE2	7:CH:128:VAL:HG21	2.55	0.41
7:CH:72:GLU:OE1	7:CH:73:SER:N	2.52	0.41
9:CJ:8:ILE:HD11	9:CJ:74:VAL:CG1	2.49	0.41
10:CK:121:ARG:HH21	21:CU:34:ARG:CD	2.33	0.41
11:CL:73:LEU:HD22	11:CL:79:ILE:HG21	2.01	0.41
12:CM:51:GLN:O	12:CM:55:LEU:HG	2.20	0.41
20:CB:115:ASP:O	20:CB:119:GLN:HG2	2.20	0.41
20:CB:218:ALA:HA	20:CB:221:ARG:HB3	2.02	0.41
21:CU:4:LYS:HB2	21:CU:4:LYS:HE3	1.89	0.41
23:DB:5:A:H2'	23:DB:6:A:C8	2.56	0.41
23:DB:21:A:H2'	23:DB:22:C:H6	1.81	0.41
23:DB:567:U:H2'	23:DB:568:U:O4'	2.20	0.41
23:DB:654:A:H2'	23:DB:655:A:C5'	2.41	0.41
23:DB:673:C:O2'	23:DB:674:G:H5'	2.19	0.41
23:DB:753:A:O2'	23:DB:754:U:H5'	2.19	0.41
23:DB:1485:U:O2'	23:DB:1486:U:H5'	2.20	0.41
23:DB:1668:A:N3	23:DB:1670:C:C4	2.88	0.41
23:DB:1750:G:O2'	23:DB:1751:U:H5'	2.19	0.41
23:DB:2226:C:H2'	23:DB:2227:A:O4'	2.19	0.41
23:DB:2443:C:OP1	27:DE:63:LYS:HG3	2.20	0.41
23:DB:2492:U:O2'	23:DB:2493:U:H5'	2.20	0.41
23:DB:2539:C:C2'	23:DB:2540:C:H5'	2.50	0.41
23:DB:2553:G:H2'	23:DB:2554:U:H4'	2.01	0.41
23:DB:2653:U:H2'	23:DB:2654:A:C8	2.55	0.41
23:DB:2745:C:O2'	29:DG:141:GLY:HA3	2.19	0.41
25:DC:79:ARG:HD2	25:DC:110:LYS:CE	2.49	0.41
25:DC:107:LYS:HD2	25:DC:107:LYS:HA	1.87	0.41
26:DD:4:LEU:HD12	26:DD:79:LEU:HD22	2.02	0.41
26:DD:34:VAL:HG11	26:DD:50:VAL:CG2	2.49	0.41
27:DE:189:THR:HG23	27:DE:194:LYS:HB2	2.02	0.41
28:DF:29:ARG:HB2	28:DF:158:THR:CG2	2.50	0.41
29:DG:58:ALA:O	29:DG:60:GLY:N	2.53	0.41
30:DH:29:PHE:HB3	30:DH:30:LEU:H	1.58	0.41
33:DL:2:ARG:HH12	33:DL:6:LEU:HD13	1.82	0.41
33:DL:111:ILE:HA	33:DL:128:THR:CG2	2.50	0.41
34:DM:42:THR:OG1	34:DM:91:TYR:HB2	2.20	0.41
34:DM:107:GLY:C	34:DM:109:PRO:HD2	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:20:VAL:HA	39:DR:96:VAL:O	2.20	0.41
42:DU:72:PHE:CZ	42:DU:78:LYS:HE2	2.55	0.41
46:DZ:34:LEU:H	46:DZ:47:LYS:HZ2	1.68	0.41
50:D3:29:ARG:O	50:D3:31:ILE:N	2.53	0.41
51:D4:14:CYS:CA	51:D4:27:CYS:HA	2.49	0.41
52:DI:99:LYS:HB2	52:DI:140:GLU:OE1	2.19	0.41
1:AA:9:G:OP2	4:AE:125:LYS:HD3	2.20	0.41
1:AA:60:A:H1'	1:AA:61:G:O4'	2.20	0.41
1:AA:65:A:N7	1:AA:381:C:C4	2.89	0.41
1:AA:113:G:H2'	1:AA:114:U:C6	2.55	0.41
1:AA:382:A:O2'	1:AA:383:A:H5'	2.19	0.41
1:AA:959:A:H2'	1:AA:960:U:O4'	2.21	0.41
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.35	0.41
1:AA:1261:A:H2'	1:AA:1262:C:O4'	2.20	0.41
1:AA:1271:A:H2'	1:AA:1272:G:C8	2.55	0.41
2:AC:41:TYR:HA	2:AC:44:LYS:CD	2.49	0.41
2:AC:57:GLU:HB2	2:AC:64:ARG:CB	2.45	0.41
2:AC:155:ARG:NH1	2:AC:192:TYR:HB2	2.36	0.41
6:AG:62:GLU:O	6:AG:66:GLU:HG3	2.21	0.41
6:AG:87:PRO:HB2	6:AG:144:ALA:CB	2.50	0.41
7:AH:92:PRO:CA	7:AH:93:LYS:HZ2	2.24	0.41
10:AK:22:ILE:HA	10:AK:31:VAL:HG22	2.03	0.41
11:AL:56:LEU:HB3	11:AL:58:ASN:HD21	1.83	0.41
12:AM:16:ILE:CG2	12:AM:17:ALA:N	2.84	0.41
12:AM:108:ARG:HA	12:AM:108:ARG:HD2	1.93	0.41
13:AN:45:LEU:HD23	13:AN:46:LYS:N	2.35	0.41
14:AO:5:GLU:O	14:AO:9:LYS:HB2	2.20	0.41
18:AS:64:GLU:O	18:AS:66:VAL:HG23	2.20	0.41
19:AT:57:VAL:C	19:AT:60:GLN:HE22	2.22	0.41
20:AB:42:LEU:O	20:AB:46:VAL:HG12	2.20	0.41
20:AB:58:LYS:HD3	20:AB:62:ARG:NH2	2.34	0.41
23:BB:27:G:HO2'	23:BB:513:A:N6	2.17	0.41
23:BB:142:A:N3	41:BT:2:ILE:HD13	2.35	0.41
23:BB:439:A:H2'	23:BB:440:C:O4'	2.21	0.41
23:BB:535:G:H21	38:BQ:52:ARG:HH22	1.67	0.41
23:BB:684:G:OP1	49:B2:16:HIS:ND1	2.53	0.41
23:BB:756:A:H2'	23:BB:757:G:O4'	2.21	0.41
23:BB:1257:C:H5'	27:BE:78:TRP:CH2	2.55	0.41
23:BB:1820:U:H3	25:BC:197:ALA:HA	1.85	0.41
23:BB:1913:A:C1'	23:BB:1914:C:OP1	2.65	0.41
23:BB:2092:U:H4'	23:BB:2093:G:O5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2265:U:H3'	23:BB:2266:A:H5''	2.01	0.41
23:BB:2458:G:H8	23:BB:2459:A:H62	1.67	0.41
23:BB:2682:A:C2	26:BD:22:ILE:HD11	2.56	0.41
23:BB:2798:U:H1'	23:BB:2800:A:N6	2.35	0.41
23:BB:2845:U:H2'	23:BB:2846:G:C8	2.56	0.41
24:BV:51:GLN:HE21	24:BV:51:GLN:HB2	1.66	0.41
26:BD:55:LYS:HB2	26:BD:55:LYS:NZ	2.34	0.41
27:BE:40:ARG:HD2	27:BE:43:THR:OG1	2.20	0.41
27:BE:149:ILE:HG23	27:BE:183:PHE:CG	2.55	0.41
28:BF:150:GLY:O	28:BF:151:LEU:HD12	2.20	0.41
29:BG:33:THR:CG2	29:BG:34:ARG:N	2.82	0.41
29:BG:37:ASN:HB3	29:BG:63:GLN:NE2	2.35	0.41
29:BG:121:THR:O	29:BG:133:LYS:HD3	2.20	0.41
31:BJ:39:LYS:HE2	31:BJ:39:LYS:HA	2.02	0.41
34:BM:36:VAL:HG11	34:BM:125:PRO:HD2	2.03	0.41
34:BM:63:ILE:HA	34:BM:102:LEU:O	2.20	0.41
35:BN:99:LYS:HE3	47:B0:39:ARG:HH12	1.84	0.41
37:BP:56:SER:O	37:BP:58:PHE:HD2	2.02	0.41
38:BQ:91:ARG:O	38:BQ:94:LEU:HD21	2.20	0.41
38:BQ:102:LYS:HG2	38:BQ:103:VAL:N	2.36	0.41
39:BR:78:ARG:CD	39:BR:88:GLY:N	2.82	0.41
41:BT:6:ARG:O	41:BT:8:LEU:N	2.53	0.41
41:BT:17:SER:OG	41:BT:18:GLU:N	2.54	0.41
42:BU:69:VAL:CG1	42:BU:77:GLY:H	2.29	0.41
46:BZ:44:PHE:CD1	46:BZ:44:PHE:N	2.82	0.41
52:BI:55:PRO:CD	52:BI:74:PRO:HD3	2.42	0.41
1:CA:162:A:H2'	1:CA:163:C:O4'	2.19	0.41
1:CA:376:G:O2'	1:CA:377:G:H5'	2.21	0.41
1:CA:473:U:N3	1:CA:474:G:N7	2.69	0.41
1:CA:666:G:O2'	1:CA:667:G:H5'	2.20	0.41
1:CA:740:U:O2'	1:CA:741:G:H5'	2.20	0.41
1:CA:975:A:H2'	1:CA:976:G:OP2	2.21	0.41
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.55	0.41
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.84	0.41
1:CA:1238:A:O2'	1:CA:1239:A:H5'	2.21	0.41
1:CA:1321:U:H2'	1:CA:1322:C:C5	2.55	0.41
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.21	0.41
1:CA:1492:A:N6	1:CA:1494:G:C8	2.88	0.41
4:CE:70:MET:HB3	4:CE:71:ILE:H	1.60	0.41
5:CF:93:LYS:O	5:CF:94:HIS:HB2	2.20	0.41
7:CH:10:LEU:HD13	7:CH:74:ILE:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:38:PHE:HB2	8:CI:44:ARG:HG3	2.02	0.41
8:CI:46:VAL:HA	8:CI:49:GLN:OE1	2.20	0.41
10:CK:23:HIS:HB3	10:CK:30:ILE:CG1	2.48	0.41
10:CK:92:ARG:HH11	10:CK:92:ARG:CG	2.28	0.41
10:CK:110:THR:CG2	21:CU:4:LYS:HA	2.50	0.41
12:CM:28:ARG:O	12:CM:32:ILE:HB	2.20	0.41
12:CM:78:ARG:HE	28:DF:111:ARG:HH12	1.69	0.41
13:CN:65:GLN:HG2	13:CN:82:LYS:HG3	2.03	0.41
15:CP:54:LEU:HD22	15:CP:80:LYS:NZ	2.35	0.41
16:CQ:64:ARG:HB3	16:CQ:64:ARG:NH1	2.32	0.41
18:CS:24:SER:HB2	18:CS:27:LYS:NZ	2.35	0.41
20:CB:60:ALA:HB2	20:CB:66:ILE:HD11	2.01	0.41
22:DA:60:C:H2'	22:DA:61:G:H8	1.85	0.41
23:DB:4:U:O2'	23:DB:5:A:H5'	2.19	0.41
23:DB:367:G:H2'	23:DB:368:A:O4'	2.19	0.41
23:DB:453:A:N3	23:DB:457:A:O2'	2.49	0.41
23:DB:523:C:O2'	23:DB:524:G:H5'	2.20	0.41
23:DB:764:A:H5''	25:DC:208:GLY:CA	2.50	0.41
23:DB:1278:C:H2'	23:DB:1279:G:C8	2.54	0.41
23:DB:1396:U:O2	23:DB:1396:U:O4'	2.34	0.41
23:DB:1434:A:H4'	23:DB:1434:A:OP1	2.20	0.41
23:DB:1541:C:H2'	23:DB:1542:U:H6	1.86	0.41
23:DB:1601:G:OP1	41:DT:62:VAL:HG21	2.20	0.41
23:DB:1764:C:H2'	23:DB:1765:U:H6	1.85	0.41
23:DB:1832:C:H2'	23:DB:1833:C:O5'	2.19	0.41
23:DB:1989:G:H2'	23:DB:1990:C:O4'	2.21	0.41
23:DB:2056:G:N3	23:DB:2056:G:H2'	2.34	0.41
23:DB:2076:U:OP2	23:DB:2238:G:N2	2.51	0.41
23:DB:2445:G:O2'	23:DB:2446:G:H5'	2.20	0.41
23:DB:2691:C:H2'	23:DB:2692:G:H8	1.86	0.41
23:DB:2716:C:O2'	23:DB:2717:C:H5'	2.20	0.41
23:DB:2733:A:C8	23:DB:2733:A:C3'	3.04	0.41
25:DC:66:PHE:HB3	25:DC:67:LYS:H	1.67	0.41
25:DC:161:VAL:O	25:DC:162:GLN:C	2.58	0.41
26:DD:59:ARG:CZ	26:DD:63:PRO:HG2	2.50	0.41
26:DD:146:ILE:HG21	26:DD:155:VAL:HA	2.02	0.41
26:DD:146:ILE:CG1	26:DD:155:VAL:HG13	2.50	0.41
28:DF:132:ARG:HB3	28:DF:133:GLU:H	1.65	0.41
29:DG:39:ALA:CB	29:DG:54:ARG:HB2	2.44	0.41
30:DH:125:THR:HG22	30:DH:146:VAL:HG12	2.02	0.41
31:DJ:25:LEU:CG	31:DJ:64:VAL:H	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:72:LYS:HE3	31:DJ:74:TYR:CE1	2.55	0.41
34:DM:33:LEU:H	34:DM:101:VAL:HB	1.85	0.41
36:DO:18:LEU:HD13	43:DW:76:ARG:HH21	1.85	0.41
36:DO:58:ILE:C	36:DO:60:GLU:H	2.23	0.41
37:DP:38:ARG:NH1	37:DP:39:LEU:HA	2.36	0.41
37:DP:92:ARG:HG2	37:DP:110:LYS:N	2.35	0.41
44:DX:44:LYS:HG3	44:DX:47:ARG:HG3	2.02	0.41
46:DZ:6:HIS:HB3	46:DZ:51:VAL:HG22	2.01	0.41
50:D3:39:ARG:HA	50:D3:39:ARG:HD3	1.76	0.41
52:DI:54:ILE:HD13	52:DI:54:ILE:C	2.40	0.41
1:AA:557:G:H2'	1:AA:558:G:O4'	2.20	0.41
1:AA:564:C:H1'	16:AQ:32:ILE:O	2.19	0.41
1:AA:591:U:H2'	1:AA:592:G:C8	2.54	0.41
1:AA:619:U:O2	3:AD:129:VAL:HG13	2.20	0.41
1:AA:730:G:O2'	1:AA:766:A:H5'	2.20	0.41
1:AA:861:G:H2'	1:AA:862:C:C6	2.55	0.41
1:AA:1050:G:C2'	1:AA:1051:C:H5'	2.49	0.41
1:AA:1067:A:H1'	1:AA:1068:G:C8	2.55	0.41
1:AA:1231:G:H2'	1:AA:1232:U:C6	2.55	0.41
1:AA:1252:A:H2'	1:AA:1253:G:C5'	2.49	0.41
3:AD:25:ARG:HB2	3:AD:26:ALA:H	1.68	0.41
3:AD:99:ASN:HB3	3:AD:103:ARG:HH21	1.85	0.41
4:AE:25:LYS:HE2	4:AE:25:LYS:C	2.41	0.41
4:AE:114:LEU:HD13	4:AE:122:VAL:HG21	2.01	0.41
8:AI:9:GLY:O	8:AI:16:ALA:HB3	2.20	0.41
8:AI:71:ILE:H	8:AI:71:ILE:CD1	2.30	0.41
8:AI:83:THR:HA	8:AI:86:LEU:CD2	2.51	0.41
9:AJ:30:LYS:O	9:AJ:30:LYS:HD2	2.21	0.41
9:AJ:36:VAL:CG2	9:AJ:76:ILE:HG22	2.50	0.41
11:AL:8:ARG:CG	11:AL:9:LYS:H	2.21	0.41
13:AN:12:ARG:NH2	13:AN:58:ARG:HH12	2.18	0.41
13:AN:89:ARG:HB2	13:AN:91:GLU:HG3	2.02	0.41
14:AO:52:ARG:O	14:AO:55:LEU:HB3	2.21	0.41
20:AB:121:GLN:NE2	20:AB:122:ASP:HB2	2.35	0.41
21:AU:33:ARG:CZ	21:AU:34:ARG:HG3	2.51	0.41
23:BB:36:G:H4'	23:BB:451:U:N3	2.35	0.41
23:BB:37:C:H4'	23:BB:451:U:P	2.60	0.41
23:BB:127:A:H5''	23:BB:128:C:C6	2.55	0.41
23:BB:443:A:C2	23:BB:1245:G:N3	2.88	0.41
23:BB:526:A:N6	23:BB:2626:C:C4'	2.84	0.41
23:BB:557:C:H2'	23:BB:558:U:H6	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:833:A:H2'	23:BB:834:G:H8	1.85	0.41
23:BB:1019:U:OP1	23:BB:1035:U:O2'	2.38	0.41
23:BB:1081:U:O2'	52:BI:118:GLY:HA2	2.20	0.41
23:BB:1131:G:C1'	23:BB:1133:A:H62	2.26	0.41
23:BB:1403:A:H2'	23:BB:1404:C:H6	1.86	0.41
23:BB:1607:C:N4	23:BB:1622:G:OP2	2.54	0.41
23:BB:1747:U:H2'	23:BB:1748:C:H6	1.85	0.41
23:BB:2081:U:H5''	46:BZ:23:LYS:HD2	2.02	0.41
23:BB:2336:A:C1'	23:BB:2337:G:OP1	2.67	0.41
23:BB:2528:U:P	51:B4:31:PRO:HG2	2.59	0.41
23:BB:2733:A:C8	23:BB:2733:A:C3'	3.04	0.41
23:BB:2745:C:H3'	23:BB:2746:U:C6	2.55	0.41
23:BB:2805:C:H2'	23:BB:2806:C:H6	1.86	0.41
24:BV:77:VAL:HG21	24:BV:79:ARG:NE	2.35	0.41
24:BV:79:ARG:CZ	24:BV:86:LEU:HD11	2.50	0.41
25:BC:71:ASP:HB3	25:BC:72:GLY:H	1.38	0.41
25:BC:157:ALA:C	25:BC:159:THR:H	2.23	0.41
26:BD:170:VAL:O	26:BD:171:THR:HB	2.20	0.41
29:BG:10:VAL:CG1	29:BG:47:ASN:HA	2.50	0.41
29:BG:18:ILE:HA	29:BG:23:ILE:CD1	2.50	0.41
30:BH:11:ASN:C	30:BH:13:GLY:H	2.22	0.41
31:BJ:1:MET:HG2	39:BR:14:VAL:CG2	2.50	0.41
31:BJ:35:ARG:NH2	31:BJ:40:HIS:H	2.18	0.41
31:BJ:64:VAL:HB	31:BJ:68:LYS:HB2	2.03	0.41
32:BK:24:VAL:HA	32:BK:39:ILE:CD1	2.50	0.41
33:BL:59:ARG:HA	33:BL:59:ARG:HD2	1.82	0.41
34:BM:11:LYS:HE3	34:BM:11:LYS:N	2.36	0.41
36:BO:21:LEU:O	36:BO:23:ALA:N	2.53	0.41
43:BW:47:GLY:H	43:BW:67:LYS:NZ	2.18	0.41
44:BX:38:GLN:H	44:BX:38:GLN:HE21	1.65	0.41
52:BI:138:VAL:CG1	52:BI:139:VAL:N	2.83	0.41
1:CA:65:A:N1	1:CA:381:C:C2	2.88	0.41
1:CA:237:G:H2'	1:CA:238:A:H8	1.85	0.41
1:CA:373:A:C1'	1:CA:481:G:H1'	2.50	0.41
1:CA:628:G:O2'	1:CA:629:A:H5'	2.21	0.41
1:CA:1175:G:O2'	1:CA:1176:A:H5'	2.19	0.41
1:CA:1486:G:H2'	1:CA:1487:G:C8	2.54	0.41
2:CC:52:SER:O	2:CC:113:LYS:HD3	2.20	0.41
3:CD:129:VAL:HG12	3:CD:131:ILE:H	1.86	0.41
4:CE:110:MET:O	4:CE:114:LEU:HG	2.20	0.41
11:CL:34:THR:HB	11:CL:53:ARG:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CL:113:ARG:O	11:CL:114:SER:C	2.58	0.41
11:CL:113:ARG:CZ	11:CL:120:ARG:HA	2.51	0.41
13:CN:96:LYS:HG2	13:CN:97:LYS:N	2.27	0.41
15:CP:44:SER:HB3	15:CP:46:LYS:NZ	2.34	0.41
19:CT:61:ALA:HA	19:CT:66:ILE:HG22	2.02	0.41
20:CB:199:ILE:HG13	20:CB:199:ILE:O	2.19	0.41
21:CU:36:PHE:HB2	21:CU:39:LYS:CB	2.47	0.41
23:DB:27:G:H1'	23:DB:513:A:H61	1.85	0.41
23:DB:162:U:O2'	23:DB:163:C:H5'	2.20	0.41
23:DB:324:A:N6	23:DB:338:G:H2'	2.36	0.41
23:DB:494:G:O2'	23:DB:495:G:H5'	2.21	0.41
23:DB:727:A:O2'	23:DB:728:G:H5'	2.19	0.41
23:DB:937:C:H2'	23:DB:938:G:H8	1.85	0.41
23:DB:1064:C:O2'	23:DB:1065:U:H5'	2.20	0.41
23:DB:1213:A:C6	23:DB:1237:A:H1'	2.55	0.41
23:DB:1238:G:O2'	23:DB:1239:G:H5'	2.21	0.41
23:DB:1330:C:H2'	23:DB:1331:G:H8	1.86	0.41
23:DB:1789:A:H2'	23:DB:1790:C:H6	1.85	0.41
23:DB:1797:G:H5'	25:DC:251:THR:O	2.21	0.41
23:DB:1952:A:N3	23:DB:2560:A:O2'	2.46	0.41
23:DB:2199:A:OP2	23:DB:2200:C:H5	2.02	0.41
23:DB:2278:A:N6	43:DW:10:ARG:HB2	2.35	0.41
23:DB:2581:G:OP1	26:DD:134:HIS:CD2	2.73	0.41
23:DB:2682:A:O2'	23:DB:2683:C:H5'	2.20	0.41
23:DB:2787:C:H2'	23:DB:2788:C:C6	2.55	0.41
23:DB:2886:A:C2	23:DB:2887:A:N7	2.89	0.41
24:DV:92:VAL:HG13	24:DV:92:VAL:O	2.21	0.41
25:DC:63:ILE:HG21	25:DC:90:ILE:CD1	2.50	0.41
25:DC:94:LEU:HD11	25:DC:98:GLY:HA2	2.02	0.41
25:DC:130:PRO:HA	25:DC:187:CYS:O	2.20	0.41
26:DD:67:HIS:O	26:DD:68:PHE:HB2	2.20	0.41
26:DD:84:LEU:HD12	26:DD:84:LEU:HA	1.91	0.41
26:DD:184:ARG:HD2	37:DP:4:ILE:CG2	2.49	0.41
27:DE:147:LEU:HB3	27:DE:167:VAL:CG1	2.44	0.41
30:DH:29:PHE:O	30:DH:31:VAL:N	2.53	0.41
31:DJ:14:ASP:H	31:DJ:53:TYR:HD1	1.68	0.41
33:DL:45:GLY:C	33:DL:47:ARG:N	2.73	0.41
33:DL:103:ILE:HG13	33:DL:106:GLU:OE2	2.21	0.41
34:DM:9:PHE:HD1	34:DM:9:PHE:H	1.68	0.41
38:DQ:82:LEU:HB2	38:DQ:112:ALA:HB2	2.02	0.41
38:DQ:82:LEU:HD21	38:DQ:91:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:94:LEU:O	38:DQ:98:ALA:N	2.50	0.41
41:DT:49:LYS:O	41:DT:51:PHE:N	2.44	0.41
42:DU:33:VAL:HG23	42:DU:65:GLN:NE2	2.34	0.41
43:DW:42:THR:HB	43:DW:75:ASN:CG	2.41	0.41
43:DW:42:THR:N	43:DW:65:LYS:HG2	2.31	0.41
44:DX:28:LEU:CB	44:DX:42:LEU:HG	2.51	0.41
48:D1:32:LYS:CG	48:D1:52:LYS:HE2	2.44	0.41
52:DI:8:VAL:CG1	52:DI:30:GLN:HG3	2.50	0.41
52:DI:89:SER:HA	52:DI:97:VAL:CG1	2.50	0.41
1:AA:328:C:H4'	1:AA:329:A:H5''	2.02	0.41
1:AA:358:U:H2'	1:AA:359:G:C8	2.55	0.41
1:AA:502:A:O2'	1:AA:503:C:H5'	2.20	0.41
1:AA:547:A:H4'	1:AA:548:G:O5'	2.21	0.41
1:AA:711:G:H2'	1:AA:712:A:H8	1.85	0.41
1:AA:841:C:H3'	1:AA:843:U:P	2.61	0.41
1:AA:993:G:C2'	1:AA:995:C:H41	2.34	0.41
1:AA:1052:U:H5'	1:AA:1053:G:OP2	2.19	0.41
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.84	0.41
1:AA:1304:G:H2'	1:AA:1305:G:C1'	2.51	0.41
1:AA:1322:C:O2	1:AA:1322:C:O4'	2.38	0.41
1:AA:1338:G:H2'	1:AA:1339:A:H8	1.83	0.41
1:AA:1371:G:OP1	8:AI:12:LYS:HG2	2.20	0.41
1:AA:1517:G:H2'	1:AA:1518:A:C8	2.55	0.41
2:AC:15:LYS:HA	2:AC:16:PRO:HD2	1.97	0.41
2:AC:39:ARG:NH2	2:AC:56:ILE:HD12	2.35	0.41
3:AD:30:LYS:HB2	3:AD:30:LYS:HE2	1.93	0.41
6:AG:115:MET:CE	6:AG:119:LEU:HB2	2.50	0.41
8:AI:62:LEU:N	8:AI:62:LEU:HD22	2.35	0.41
13:AN:5:MET:C	13:AN:7:ALA:H	2.24	0.41
13:AN:74:ARG:HD3	13:AN:74:ARG:C	2.41	0.41
14:AO:52:ARG:HA	14:AO:55:LEU:HB3	2.03	0.41
15:AP:52:LEU:HD22	15:AP:52:LEU:N	2.36	0.41
16:AQ:28:VAL:O	16:AQ:28:VAL:HG13	2.19	0.41
17:AR:64:LEU:HB3	17:AR:66:LEU:HG	2.02	0.41
18:AS:31:ARG:HG2	18:AS:31:ARG:HH11	1.86	0.41
22:BA:3:C:H2'	22:BA:4:C:O4'	2.20	0.41
23:BB:729:G:H8	23:BB:764:A:OP1	2.04	0.41
23:BB:817:C:O2	23:BB:839:U:H4'	2.20	0.41
23:BB:1439:A:N7	23:BB:1440:U:C2	2.88	0.41
23:BB:1529:G:H2'	23:BB:1530:G:H8	1.86	0.41
23:BB:1996:C:H5	32:BK:32:TYR:HH	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2052:A:H4'	26:BD:148:GLN:CB	2.51	0.41
23:BB:2080:A:H2'	23:BB:2081:U:C6	2.55	0.41
23:BB:2143:C:H2'	23:BB:2144:G:O4'	2.20	0.41
23:BB:2278:A:H62	43:BW:10:ARG:HG2	1.85	0.41
23:BB:2304:G:H1'	28:BF:152:ASP:OD1	2.20	0.41
23:BB:2484:G:P	34:BM:44:ARG:HD2	2.61	0.41
23:BB:2660:A:H2'	23:BB:2661:G:O4'	2.20	0.41
25:BC:38:LYS:O	25:BC:39:SER:HB3	2.21	0.41
25:BC:171:VAL:HB	25:BC:182:LYS:CG	2.51	0.41
25:BC:206:LYS:O	25:BC:207:ALA:C	2.58	0.41
27:BE:7:ASP:O	27:BE:8:ALA:HB3	2.21	0.41
27:BE:113:VAL:C	27:BE:115:GLN:H	2.24	0.41
28:BF:172:PHE:O	28:BF:174:PHE:N	2.53	0.41
29:BG:40:VAL:HB	29:BG:63:GLN:HE22	1.86	0.41
29:BG:94:ARG:HH12	29:BG:127:GLN:CD	2.24	0.41
31:BJ:19:ASP:O	31:BJ:20:ALA:HB3	2.21	0.41
31:BJ:81:ILE:C	31:BJ:83:GLY:N	2.73	0.41
31:BJ:81:ILE:CG2	31:BJ:82:GLY:N	2.68	0.41
34:BM:45:GLN:NE2	34:BM:119:LEU:O	2.54	0.41
38:BQ:93:ILE:C	38:BQ:95:ALA:H	2.23	0.41
39:BR:1:MET:CA	39:BR:46:GLU:HB2	2.39	0.41
39:BR:5:PHE:HD1	39:BR:40:MET:CB	2.33	0.41
42:BU:78:LYS:HD2	42:BU:78:LYS:HA	1.93	0.41
44:BX:6:LEU:O	44:BX:8:GLU:N	2.50	0.41
44:BX:21:LEU:HD12	44:BX:21:LEU:HA	1.80	0.41
46:BZ:17:SER:OG	46:BZ:18:CYS:N	2.53	0.41
52:BI:89:SER:HA	52:BI:97:VAL:HG23	2.01	0.41
1:CA:94:G:H4'	1:CA:95:C:O5'	2.18	0.41
1:CA:738:C:H2'	1:CA:739:C:C6	2.56	0.41
1:CA:738:C:H2'	1:CA:739:C:H6	1.86	0.41
1:CA:797:C:OP1	10:CK:125:LYS:HE2	2.21	0.41
1:CA:814:A:H5'	1:CA:1511:G:C4'	2.44	0.41
1:CA:847:G:H2'	1:CA:848:C:H6	1.84	0.41
1:CA:915:A:H2'	1:CA:916:U:H5'	2.02	0.41
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.20	0.41
1:CA:1254:A:N6	1:CA:1283:U:H3	2.17	0.41
1:CA:1276:G:H2'	1:CA:1277:C:H6	1.86	0.41
1:CA:1401:G:H2'	1:CA:1402:C:O4'	2.20	0.41
1:CA:1455:G:O2'	1:CA:1456:A:H5'	2.20	0.41
1:CA:1494:G:O2'	1:CA:1495:U:H5'	2.21	0.41
2:CC:140:ALA:HB3	2:CC:148:ILE:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:61:ARG:HE	3:CD:68:GLU:HA	1.86	0.41
3:CD:121:ALA:CA	3:CD:145:ARG:HG3	2.51	0.41
5:CF:10:VAL:HG12	5:CF:11:HIS:H	1.85	0.41
8:CI:48:ARG:O	8:CI:52:GLU:HB2	2.20	0.41
10:CK:70:ALA:HA	10:CK:73:VAL:CG2	2.47	0.41
17:CR:51:GLN:NE2	17:CR:54:LEU:HB2	2.36	0.41
20:CB:10:LYS:HB3	20:CB:211:LEU:HD11	2.01	0.41
20:CB:15:PHE:CA	20:CB:42:LEU:HD21	2.50	0.41
20:CB:78:ALA:HB1	20:CB:213:LEU:HD13	2.01	0.41
20:CB:79:VAL:HG12	20:CB:90:PHE:HB2	2.02	0.41
20:CB:166:ASP:HB2	20:CB:190:SER:OG	2.20	0.41
23:DB:136:G:N1	41:DT:3:ARG:CZ	2.84	0.41
23:DB:299:A:N7	23:DB:322:A:C2	2.88	0.41
23:DB:360:U:H2'	23:DB:361:G:C1'	2.51	0.41
23:DB:606:U:H4'	23:DB:658:U:H4'	2.02	0.41
23:DB:630:G:N1	33:DL:69:ARG:NH1	2.62	0.41
23:DB:659:G:H4'	27:DE:95:LYS:HD3	2.03	0.41
23:DB:964:C:O2'	23:DB:2273:A:H1'	2.19	0.41
23:DB:1014:A:H2'	23:DB:1015:U:C6	2.56	0.41
23:DB:1268:A:H2'	23:DB:1269:A:O4'	2.20	0.41
23:DB:1736:U:H2'	23:DB:1737:G:C8	2.55	0.41
23:DB:1791:A:N6	23:DB:1828:G:H1'	2.35	0.41
24:DV:75:GLN:HB3	24:DV:90:ASP:HB3	2.01	0.41
25:DC:59:GLN:HB2	25:DC:60:ALA:H	1.43	0.41
25:DC:61:TYR:CD2	25:DC:84:PRO:HD2	2.55	0.41
25:DC:143:VAL:HG12	25:DC:144:GLU:H	1.84	0.41
26:DD:159:LYS:O	26:DD:160:LYS:HB2	2.19	0.41
27:DE:47:LYS:HA	27:DE:49:ARG:NE	2.32	0.41
27:DE:161:ALA:HB1	27:DE:168:ASP:O	2.21	0.41
27:DE:189:THR:C	27:DE:191:ASP:N	2.72	0.41
28:DF:36:ASN:ND2	28:DF:87:LYS:H	2.19	0.41
31:DJ:28:LEU:HD13	31:DJ:28:LEU:C	2.41	0.41
31:DJ:81:ILE:CG2	31:DJ:82:GLY:H	2.11	0.41
31:DJ:120:ARG:C	31:DJ:122:LEU:H	2.23	0.41
32:DK:78:ARG:HH12	37:DP:62:LYS:HZ3	1.68	0.41
33:DL:143:GLU:HG2	33:DL:143:GLU:O	2.20	0.41
36:DO:35:ILE:HG21	36:DO:71:ALA:HA	2.03	0.41
37:DP:23:ASP:HB3	37:DP:24:THR:H	1.33	0.41
38:DQ:26:ALA:HA	38:DQ:30:VAL:HG23	2.02	0.41
39:DR:65:ALA:N	39:DR:100:GLY:HA2	2.35	0.41
41:DT:68:LYS:HB2	41:DT:68:LYS:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:15:ASN:O	44:DX:15:ASN:CG	2.59	0.41
46:DZ:27:THR:HG23	46:DZ:28:VAL:N	2.36	0.41
48:D1:4:ILE:C	48:D1:5:ARG:HG3	2.39	0.41
48:D1:6:GLU:O	48:D1:27:ARG:NH2	2.54	0.41
51:D4:24:ARG:HE	51:D4:37:GLN:HA	1.82	0.41
52:DI:2:LYS:O	52:DI:3:LYS:CG	2.69	0.41
52:DI:60:VAL:HG22	52:DI:66:PHE:HB3	2.02	0.41
52:DI:79:LEU:HD23	52:DI:108:ILE:HD12	2.03	0.41
1:AA:162:A:H2'	1:AA:163:C:O4'	2.20	0.41
1:AA:186:C:H2'	1:AA:187:G:O4'	2.21	0.41
1:AA:202:G:H1'	1:AA:468:A:H8	1.85	0.41
1:AA:374:A:H2'	1:AA:375:U:C6	2.56	0.41
1:AA:462:G:H2'	1:AA:463:U:C6	2.55	0.41
1:AA:634:C:O2'	1:AA:635:A:H5'	2.20	0.41
1:AA:648:A:H2'	1:AA:649:A:C8	2.56	0.41
1:AA:818:G:C2'	1:AA:819:A:H5''	2.51	0.41
1:AA:893:C:H2'	1:AA:894:G:C8	2.55	0.41
1:AA:957:U:H2'	1:AA:959:A:OP2	2.21	0.41
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.21	0.41
1:AA:1219:A:OP1	13:AN:52:ARG:HG2	2.21	0.41
1:AA:1351:U:H4'	6:AG:32:ASP:OD1	2.21	0.41
1:AA:1358:U:OP1	13:AN:73:LEU:HA	2.20	0.41
3:AD:36:ALA:C	3:AD:38:GLY:H	2.24	0.41
9:AJ:48:ARG:HB3	9:AJ:66:GLU:HB3	2.01	0.41
10:AK:85:VAL:O	10:AK:111:ASP:HA	2.20	0.41
16:AQ:57:VAL:N	16:AQ:79:GLU:HB3	2.35	0.41
20:AB:116:LEU:HD13	20:AB:140:LEU:HD23	2.02	0.41
21:AU:34:ARG:HD2	21:AU:34:ARG:C	2.40	0.41
22:BA:27:C:H5'	36:BO:34:HIS:HE1	1.83	0.41
22:BA:83:G:H2'	22:BA:84:G:O4'	2.20	0.41
23:BB:26:G:C1'	23:BB:515:A:H61	2.34	0.41
23:BB:30:G:O2'	23:BB:31:C:H5'	2.21	0.41
23:BB:154:U:O2'	23:BB:155:A:H5'	2.21	0.41
23:BB:947:A:O2'	23:BB:984:A:H2	2.04	0.41
23:BB:1561:C:H2'	23:BB:1562:U:H6	1.84	0.41
23:BB:1867:G:O2'	23:BB:1868:C:H5'	2.20	0.41
23:BB:1989:G:H2'	23:BB:1990:C:O4'	2.21	0.41
23:BB:2093:G:O2'	23:BB:2094:A:H5'	2.21	0.41
23:BB:2204:G:O2'	23:BB:2205:A:H5'	2.21	0.41
23:BB:2331:G:H21	23:BB:2336:A:H8	1.67	0.41
23:BB:2415:G:H5''	33:BL:66:PHE:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2420:C:N4	50:B3:30:HIS:O	2.54	0.41
23:BB:2705:A:H2'	23:BB:2706:A:O4'	2.20	0.41
23:BB:2864:G:H2'	23:BB:2865:U:C6	2.56	0.41
25:BC:57:HIS:HB3	25:BC:58:LYS:H	1.63	0.41
25:BC:141:HIS:O	25:BC:153:LEU:HD21	2.21	0.41
28:BF:35:LEU:HA	28:BF:153:ILE:CA	2.49	0.41
29:BG:16:VAL:HG12	29:BG:17:LYS:N	2.36	0.41
31:BJ:55:ILE:HD13	31:BJ:132:HIS:NE2	2.35	0.41
31:BJ:58:ASN:O	31:BJ:59:ALA:HB3	2.20	0.41
31:BJ:99:ARG:HB3	31:BJ:99:ARG:NH1	2.36	0.41
34:BM:71:LYS:HG2	34:BM:93:VAL:HA	2.02	0.41
36:BO:56:LYS:HE3	36:BO:57:ALA:CA	2.50	0.41
38:BQ:92:LYS:HD3	38:BQ:92:LYS:C	2.41	0.41
40:BS:1:MET:HB3	40:BS:4:ILE:CG1	2.50	0.41
41:BT:56:GLU:HB3	41:BT:57:VAL:HG23	2.01	0.41
43:BW:42:THR:O	43:BW:43:LYS:HB2	2.21	0.41
43:BW:47:GLY:O	43:BW:54:ARG:HA	2.20	0.41
44:BX:29:ARG:HG2	44:BX:29:ARG:O	2.21	0.41
46:BZ:5:ILE:HD12	46:BZ:5:ILE:N	2.32	0.41
48:B1:46:VAL:O	48:B1:47:ILE:HG12	2.20	0.41
49:B2:26:ASN:HA	49:B2:29:GLN:HB2	2.03	0.41
49:B2:34:ARG:HG3	49:B2:34:ARG:NH1	2.33	0.41
50:B3:44:ARG:CB	50:B3:45:PRO:CD	2.97	0.41
1:CA:35:G:H2'	1:CA:36:C:H6	1.86	0.41
1:CA:56:U:H6	1:CA:56:U:O5'	2.03	0.41
1:CA:284:C:H2'	1:CA:285:C:C6	2.56	0.41
1:CA:1015:G:O2'	1:CA:1016:A:H5'	2.21	0.41
1:CA:1053:G:O2'	1:CA:1199:U:H5	2.04	0.41
1:CA:1240:U:P	6:CG:115:MET:H	2.44	0.41
1:CA:1241:G:H2'	1:CA:1242:G:C8	2.49	0.41
2:CC:127:VAL:HG23	2:CC:128:MET:N	2.35	0.41
4:CE:104:ILE:HD11	4:CE:111:ARG:HA	2.03	0.41
6:CG:12:LEU:HD13	6:CG:13:PRO:HD2	2.02	0.41
6:CG:100:MET:O	6:CG:104:VAL:HG23	2.21	0.41
7:CH:123:GLU:OE1	7:CH:125:ILE:HG12	2.21	0.41
11:CL:100:ALA:O	11:CL:103:CYS:SG	2.78	0.41
12:CM:80:MET:HA	12:CM:87:GLY:HA2	2.01	0.41
14:CO:63:ARG:HD3	14:CO:63:ARG:O	2.21	0.41
16:CQ:22:VAL:O	16:CQ:42:LYS:HA	2.20	0.41
16:CQ:45:VAL:HA	16:CQ:72:TRP:O	2.20	0.41
17:CR:19:GLU:O	17:CR:21:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CR:47:ARG:HH12	17:CR:49:LYS:H	1.67	0.41
21:CU:14:ALA:O	21:CU:16:ARG:N	2.53	0.41
22:DA:7:G:H5''	36:DO:29:HIS:CE1	2.56	0.41
23:DB:105:C:H2'	23:DB:106:C:H6	1.84	0.41
23:DB:136:G:P	23:DB:136:G:H8	2.44	0.41
23:DB:307:G:N1	23:DB:310:A:OP2	2.52	0.41
23:DB:490:C:H3'	23:DB:491:G:H5''	2.01	0.41
23:DB:587:C:H5''	33:DL:29:LYS:HZ2	1.85	0.41
23:DB:699:A:H4'	23:DB:1634:A:N7	2.35	0.41
23:DB:994:C:OP2	38:DQ:50:ARG:NE	2.45	0.41
23:DB:1014:A:O2'	23:DB:1015:U:H5'	2.20	0.41
23:DB:1126:A:H4'	23:DB:1127:A:O5'	2.21	0.41
23:DB:1278:C:OP1	35:DN:36:THR:HG23	2.20	0.41
23:DB:1592:C:H2'	23:DB:1593:A:C8	2.55	0.41
23:DB:1790:C:H2'	23:DB:1791:A:C8	2.56	0.41
23:DB:2054:A:H2'	47:D0:4:GLN:NE2	2.33	0.41
23:DB:2105:U:H2'	23:DB:2106:U:H6	1.85	0.41
23:DB:2331:G:H21	23:DB:2336:A:H8	1.66	0.41
23:DB:2341:G:H2'	23:DB:2342:C:C6	2.56	0.41
23:DB:2361:G:H5''	50:D3:27:ASN:HB2	2.02	0.41
23:DB:2376:A:N3	36:DO:111:ARG:NH2	2.68	0.41
24:DV:30:ILE:HD12	24:DV:38:LEU:HD23	2.03	0.41
25:DC:222:THR:C	25:DC:224:MET:N	2.73	0.41
26:DD:181:ASP:OD1	26:DD:184:ARG:HB3	2.19	0.41
27:DE:39:ALA:O	27:DE:40:ARG:C	2.58	0.41
29:DG:39:ALA:O	29:DG:40:VAL:C	2.59	0.41
31:DJ:25:LEU:HG	31:DJ:64:VAL:N	2.31	0.41
31:DJ:33:ALA:O	31:DJ:36:LEU:HB2	2.20	0.41
34:DM:14:LYS:HB2	34:DM:72:PRO:HA	2.02	0.41
34:DM:41:LEU:HG	34:DM:46:ILE:HD11	2.03	0.41
35:DN:14:SER:HA	35:DN:17:ARG:HH22	1.85	0.41
35:DN:18:GLN:HE21	35:DN:18:GLN:HB2	1.50	0.41
37:DP:70:GLU:C	37:DP:71:ARG:HG2	2.40	0.41
38:DQ:81:GLY:O	38:DQ:85:ALA:HB2	2.20	0.41
43:DW:42:THR:H	43:DW:65:LYS:CA	2.29	0.41
43:DW:74:LYS:HB3	43:DW:75:ASN:H	1.34	0.41
44:DX:44:LYS:HG3	44:DX:47:ARG:CG	2.50	0.41
47:D0:16:ARG:C	47:D0:18:HIS:H	2.24	0.41
50:D3:28:LEU:HD21	50:D3:33:THR:OG1	2.20	0.41
52:DI:3:LYS:CD	52:DI:3:LYS:HE3	2.18	0.41
1:AA:56:U:H6	1:AA:56:U:O5'	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:178:C:O2'	1:AA:179:A:H5'	2.20	0.41
1:AA:415:A:N1	1:AA:428:G:O6	2.53	0.41
1:AA:737:C:H2'	1:AA:738:C:H6	1.86	0.41
1:AA:1181:G:O4'	1:AA:1181:G:P	2.78	0.41
1:AA:1248:A:H2	8:AI:71:ILE:HD11	1.85	0.41
1:AA:1319:A:H5''	18:AS:3:SER:OG	2.21	0.41
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.35	0.41
1:AA:1361:G:H2'	1:AA:1362:A:C5'	2.49	0.41
1:AA:1437:A:H2'	1:AA:1438:G:H8	1.86	0.41
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.86	0.41
3:AD:187:ARG:HH11	3:AD:187:ARG:HG3	1.86	0.41
5:AF:29:ILE:HD13	5:AF:64:VAL:CG1	2.51	0.41
5:AF:38:ARG:CB	5:AF:63:ASN:HB2	2.43	0.41
9:AJ:6:ILE:HA	9:AJ:102:LEU:CD2	2.51	0.41
12:AM:58:GLU:HA	12:AM:61:LYS:CE	2.50	0.41
13:AN:20:PHE:HA	13:AN:24:ALA:H	1.85	0.41
15:AP:39:PHE:HE2	15:AP:70:ARG:NH2	2.18	0.41
21:AU:37:TYR:HB2	21:AU:38:GLU:H	1.73	0.41
23:BB:428:A:H2'	23:BB:429:A:O4'	2.19	0.41
23:BB:1183:U:C2	23:BB:1184:U:C5	3.08	0.41
23:BB:1291:C:O2'	23:BB:1292:G:H5'	2.20	0.41
23:BB:1408:G:O2'	23:BB:1409:U:H5'	2.21	0.41
23:BB:1439:A:N6	23:BB:1440:U:O2	2.50	0.41
23:BB:1515:A:C5'	23:BB:1557:C:H5'	2.51	0.41
23:BB:1685:C:H2'	23:BB:1686:C:H6	1.85	0.41
23:BB:1797:G:H5'	25:BC:251:THR:CA	2.50	0.41
23:BB:2050:C:H2'	23:BB:2051:A:C8	2.55	0.41
23:BB:2322:A:N6	23:BB:2333:A:N6	2.69	0.41
23:BB:2329:U:H2'	23:BB:2330:G:H8	1.84	0.41
23:BB:2333:A:C4'	23:BB:2334:U:H5''	2.35	0.41
23:BB:2420:C:H41	50:B3:30:HIS:CA	2.34	0.41
23:BB:2455:G:H2'	23:BB:2456:C:H6	1.85	0.41
23:BB:2514:U:H2'	23:BB:2515:C:C6	2.56	0.41
23:BB:2515:C:H2'	23:BB:2516:A:H8	1.85	0.41
23:BB:2682:A:O2'	23:BB:2683:C:H5'	2.20	0.41
23:BB:2771:C:O2'	26:BD:173:GLN:NE2	2.53	0.41
23:BB:2869:G:H2'	23:BB:2870:C:H6	1.86	0.41
24:BV:16:ALA:O	24:BV:19:ARG:HB2	2.19	0.41
25:BC:116:GLN:O	25:BC:127:ASN:HB3	2.20	0.41
25:BC:136:VAL:O	25:BC:137:GLY:C	2.59	0.41
25:BC:152:GLN:HB3	25:BC:153:LEU:H	1.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:20:VAL:HG23	26:BD:21:SER:N	2.36	0.41
26:BD:37:VAL:HB	26:BD:42:ASN:ND2	2.36	0.41
26:BD:187:LEU:O	26:BD:188:LEU:HD12	2.19	0.41
31:BJ:118:MET:O	31:BJ:121:LYS:HB2	2.21	0.41
33:BL:38:GLN:H	33:BL:41:ARG:CD	2.33	0.41
33:BL:122:VAL:O	33:BL:141:LYS:HB3	2.21	0.41
37:BP:29:VAL:O	37:BP:30:TRP:C	2.56	0.41
37:BP:52:ARG:HH11	37:BP:54:LEU:HB3	1.85	0.41
39:BR:18:GLN:NE2	39:BR:99:THR:HB	2.31	0.41
41:BT:10:VAL:CG2	41:BT:46:ALA:HB2	2.51	0.41
41:BT:11:LEU:HD23	41:BT:46:ALA:HB1	2.03	0.41
41:BT:36:LYS:O	41:BT:81:LYS:HD2	2.21	0.41
41:BT:68:LYS:HD3	41:BT:68:LYS:C	2.41	0.41
44:BX:45:GLN:NE2	44:BX:45:GLN:N	2.68	0.41
52:BI:6:ALA:O	52:BI:7:TYR:HB3	2.21	0.41
52:BI:79:LEU:HB3	52:BI:137:LEU:HD12	2.03	0.41
1:CA:192:A:O2'	1:CA:193:C:H5'	2.21	0.41
1:CA:219:U:H2'	1:CA:220:G:H8	1.85	0.41
1:CA:382:A:O2'	1:CA:383:A:H5'	2.21	0.41
1:CA:455:G:H2'	1:CA:456:A:C8	2.55	0.41
1:CA:669:G:O2'	1:CA:670:G:H5'	2.21	0.41
1:CA:949:A:O2'	1:CA:950:U:H5'	2.20	0.41
1:CA:1095:U:O2'	1:CA:1096:C:H5'	2.20	0.41
1:CA:1349:A:H1'	1:CA:1374:A:N6	2.35	0.41
1:CA:1492:A:N6	1:CA:1494:G:N9	2.68	0.41
2:CC:15:LYS:HZ3	2:CC:16:PRO:HD2	1.85	0.41
2:CC:71:ARG:HG3	2:CC:71:ARG:O	2.20	0.41
4:CE:37:VAL:HA	4:CE:46:GLY:O	2.20	0.41
6:CG:61:PHE:CD2	6:CG:65:LEU:HD13	2.55	0.41
6:CG:108:ARG:HA	6:CG:118:ARG:NE	2.36	0.41
8:CI:26:LYS:HG3	8:CI:61:ASP:OD2	2.20	0.41
12:CM:13:HIS:HB2	12:CM:16:ILE:HG22	2.02	0.41
13:CN:43:ALA:O	13:CN:47:LEU:HB2	2.20	0.41
16:CQ:68:LYS:C	16:CQ:70:LYS:N	2.74	0.41
18:CS:15:LEU:CA	18:CS:18:VAL:HG12	2.44	0.41
20:CB:93:HIS:O	20:CB:94:ARG:C	2.58	0.41
21:CU:39:LYS:N	21:CU:40:PRO:HD2	2.31	0.41
22:DA:45:A:O4'	28:DF:91:ARG:CZ	2.68	0.41
23:DB:140:C:H4'	23:DB:141:G:C2	2.55	0.41
23:DB:453:A:H5''	54:DB:3499:HOH:O	2.20	0.41
23:DB:533:G:N3	38:DQ:40:LYS:CG	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:619:G:H2'	23:DB:620:G:H5''	2.03	0.41
23:DB:688:U:O2'	23:DB:689:A:H5'	2.20	0.41
23:DB:998:C:H2'	23:DB:999:U:O4'	2.20	0.41
23:DB:1710:G:O2'	23:DB:1711:A:H5'	2.21	0.41
23:DB:2091:C:H5'	46:DZ:49:ARG:CD	2.51	0.41
23:DB:2144:G:C2	23:DB:2146:C:H5'	2.56	0.41
23:DB:2199:A:H3'	23:DB:2200:C:H6	1.86	0.41
23:DB:2715:C:O5'	23:DB:2715:C:H6	2.04	0.41
23:DB:2742:G:H5''	51:D4:38:GLY:HA2	2.03	0.41
23:DB:2787:C:H5'	26:DD:65:ALA:CB	2.51	0.41
23:DB:2850:A:H2'	23:DB:2851:A:H8	1.85	0.41
54:DB:3474:HOH:O	35:DN:3:HIS:HB2	2.20	0.41
25:DC:162:GLN:HE22	25:DC:174:ARG:HH12	1.69	0.41
25:DC:229:HIS:ND1	25:DC:230:PRO:CD	2.78	0.41
26:DD:14:ILE:HD12	37:DP:78:PRO:HB2	2.03	0.41
26:DD:100:LEU:HD13	26:DD:100:LEU:O	2.21	0.41
26:DD:114:LYS:HB2	26:DD:114:LYS:HZ2	1.84	0.41
27:DE:116:ASP:C	27:DE:117:ARG:HD2	2.40	0.41
27:DE:143:LEU:HD13	27:DE:185:LYS:HZ2	1.85	0.41
28:DF:96:TRP:C	28:DF:98:PHE:N	2.74	0.41
28:DF:121:PHE:CE2	28:DF:127:TYR:HB2	2.56	0.41
28:DF:135:ILE:HG23	28:DF:136:ILE:H	1.86	0.41
29:DG:126:THR:HG23	29:DG:129:GLU:H	1.84	0.41
31:DJ:73:VAL:HG11	31:DJ:75:TYR:CE2	2.56	0.41
34:DM:62:LYS:HB2	34:DM:104:GLU:OE1	2.19	0.41
35:DN:12:ARG:CD	35:DN:16:HIS:HD2	2.34	0.41
38:DQ:98:ALA:HA	38:DQ:105:PHE:CG	2.55	0.41
39:DR:41:ILE:O	39:DR:43:ASN:N	2.53	0.41
40:DS:27:LYS:HA	40:DS:70:LYS:CG	2.50	0.41
40:DS:84:ARG:C	40:DS:96:ILE:HG22	2.41	0.41
44:DX:2:LYS:HD3	44:DX:2:LYS:N	2.36	0.41
45:DY:6:ILE:HG22	45:DY:56:VAL:HG11	2.03	0.41
48:D1:27:ARG:HE	48:D1:27:ARG:N	2.18	0.41
1:AA:16:A:H4'	4:AE:21:SER:N	2.35	0.41
1:AA:95:C:O2	1:AA:95:C:C2'	2.67	0.41
1:AA:337:G:O2'	1:AA:338:A:H5'	2.21	0.41
1:AA:367:U:OP1	1:AA:395:C:H1'	2.21	0.41
1:AA:714:G:H2'	1:AA:715:A:C8	2.56	0.41
2:AC:172:VAL:HG11	2:AC:200:TRP:HB3	2.02	0.41
3:AD:54:LEU:HD13	3:AD:54:LEU:C	2.41	0.41
3:AD:160:LEU:HA	3:AD:163:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:59:LYS:HD2	8:AI:60:LEU:HD23	2.03	0.41
10:AK:95:THR:HG23	10:AK:96:ILE:HG13	2.02	0.41
23:BB:241:A:H8	23:BB:241:A:OP1	2.03	0.41
23:BB:321:U:OP2	27:BE:131:THR:HG22	2.21	0.41
23:BB:399:U:OP2	46:BZ:49:ARG:NH1	2.54	0.41
23:BB:408:G:O2'	23:BB:409:G:H5'	2.19	0.41
23:BB:863:A:O2'	23:BB:864:G:H5'	2.20	0.41
23:BB:1441:G:O2'	23:BB:1442:U:H5'	2.21	0.41
23:BB:1695:G:H2'	23:BB:1696:G:O4'	2.21	0.41
23:BB:2454:G:O2'	23:BB:2455:G:H5'	2.21	0.41
23:BB:2466:C:O2'	23:BB:2467:C:H5'	2.21	0.41
23:BB:2527:C:H1'	51:B4:1:MET:HA	2.02	0.41
23:BB:2645:G:H4'	23:BB:2646:C:OP2	2.19	0.41
25:BC:6:LYS:HA	25:BC:7:PRO:HA	1.75	0.41
25:BC:116:GLN:OE1	25:BC:122:ALA:HB3	2.21	0.41
26:BD:4:LEU:HD13	26:BD:79:LEU:CD1	2.51	0.41
27:BE:7:ASP:C	27:BE:9:GLN:H	2.24	0.41
27:BE:133:LEU:HD13	27:BE:133:LEU:HA	1.88	0.41
27:BE:141:MET:O	27:BE:142:ALA:HB3	2.21	0.41
28:BF:34:THR:CG2	28:BF:89:THR:HG22	2.44	0.41
28:BF:135:ILE:CG2	28:BF:136:ILE:N	2.83	0.41
29:BG:5:LYS:HE3	29:BG:69:ALA:CA	2.51	0.41
29:BG:148:ARG:HE	29:BG:153:PRO:HD2	1.85	0.41
32:BK:32:TYR:HB3	32:BK:67:LYS:NZ	2.36	0.41
33:BL:112:LEU:HD22	33:BL:130:GLY:HA3	2.03	0.41
34:BM:71:LYS:HD3	34:BM:92:TRP:C	2.41	0.41
34:BM:103:TYR:O	34:BM:105:MET:N	2.54	0.41
36:BO:16:ARG:HG3	36:BO:20:GLU:CG	2.50	0.41
38:BQ:97:ILE:H	38:BQ:97:ILE:HG12	1.70	0.41
38:BQ:108:LEU:HD13	38:BQ:108:LEU:O	2.21	0.41
41:BT:30:ILE:HG23	41:BT:32:LEU:HD13	2.01	0.41
46:BZ:3:LYS:CE	46:BZ:8:LYS:HA	2.48	0.41
46:BZ:35:ASP:O	46:BZ:42:PRO:HB3	2.21	0.41
47:B0:37:HIS:HB3	47:B0:38:LEU:H	1.57	0.41
1:CA:8:A:C8	4:CE:105:ILE:HG23	2.56	0.41
1:CA:502:A:O2'	1:CA:503:C:H5'	2.21	0.41
1:CA:841:C:H3'	1:CA:843:U:P	2.60	0.41
1:CA:951:G:O2'	1:CA:952:U:H5'	2.20	0.41
1:CA:967:C:O2'	8:CI:129:ARG:HG3	2.21	0.41
1:CA:1058:G:OP1	2:CC:198:LYS:HE3	2.20	0.41
1:CA:1111:A:H2'	1:CA:1112:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1200:C:C3'	1:CA:1201:A:H5'	2.50	0.41
1:CA:1318:A:H4'	18:CS:9:PHE:CE2	2.56	0.41
1:CA:1409:C:O2	23:DB:1913:A:N6	2.54	0.41
1:CA:1447:A:H5'	1:CA:1448:C:H5	1.85	0.41
2:CC:166:TRP:O	2:CC:167:TYR:HB3	2.21	0.41
3:CD:64:TYR:CE2	3:CD:93:LEU:HD13	2.56	0.41
3:CD:106:PHE:CD1	3:CD:106:PHE:N	2.87	0.41
4:CE:35:LEU:CD1	4:CE:133:ILE:HA	2.48	0.41
4:CE:52:ALA:C	4:CE:54:GLU:N	2.74	0.41
4:CE:158:LYS:HB3	7:CH:63:LYS:CD	2.50	0.41
5:CF:90:MET:HB3	5:CF:91:ARG:H	1.68	0.41
8:CI:15:ALA:O	8:CI:66:VAL:HG23	2.20	0.41
8:CI:20:ILE:CD1	8:CI:86:LEU:HG	2.50	0.41
8:CI:70:GLY:O	8:CI:74:GLN:N	2.53	0.41
8:CI:91:GLU:CD	8:CI:91:GLU:H	2.23	0.41
9:CJ:44:THR:HG23	9:CJ:70:HIS:HA	2.01	0.41
15:CP:16:PHE:CE2	15:CP:40:ASN:HB2	2.55	0.41
15:CP:57:ILE:O	15:CP:61:VAL:HG23	2.21	0.41
16:CQ:24:ILE:HD13	16:CQ:43:LEU:CD1	2.50	0.41
16:CQ:28:VAL:O	16:CQ:36:PHE:HA	2.20	0.41
16:CQ:30:HIS:ND1	16:CQ:31:PRO:HD2	2.36	0.41
20:CB:80:LYS:HA	20:CB:90:PHE:CZ	2.55	0.41
21:CU:23:GLU:HB3	21:CU:24:LYS:H	1.67	0.41
22:DA:82:U:O3'	45:DY:16:LEU:HD11	2.20	0.41
23:DB:26:G:H2'	23:DB:27:G:C1'	2.50	0.41
23:DB:127:A:H5''	23:DB:128:C:O4'	2.21	0.41
23:DB:251:A:H2'	23:DB:252:G:O4'	2.21	0.41
23:DB:363:G:H2'	23:DB:364:C:H6	1.86	0.41
23:DB:393:C:O2'	23:DB:394:C:H5'	2.21	0.41
23:DB:557:C:H2'	23:DB:558:U:H6	1.84	0.41
23:DB:608:A:H2'	23:DB:609:A:H8	1.85	0.41
23:DB:683:U:O5'	23:DB:683:U:H6	2.04	0.41
23:DB:836:G:H2'	23:DB:837:C:H6	1.84	0.41
23:DB:1428:C:H2'	23:DB:1569:A:OP2	2.20	0.41
23:DB:1556:C:H2'	23:DB:1557:C:C6	2.56	0.41
23:DB:1682:G:C4	23:DB:1757:A:H1'	2.56	0.41
23:DB:1704:C:O2'	23:DB:1705:A:H5'	2.20	0.41
23:DB:1727:C:H2'	23:DB:1728:C:H6	1.81	0.41
23:DB:1799:G:N2	23:DB:1818:U:O2'	2.54	0.41
23:DB:1880:U:H2'	23:DB:1881:C:C6	2.55	0.41
23:DB:1987:A:H2'	23:DB:1988:G:H8	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2300:C:H2'	23:DB:2301:C:C6	2.56	0.41
23:DB:2313:C:O2'	28:DF:34:THR:HG21	2.21	0.41
23:DB:2700:A:H2	35:DN:71:ARG:NH2	2.18	0.41
23:DB:2710:C:H2'	23:DB:2711:A:H8	1.86	0.41
23:DB:2849:U:O4	23:DB:2867:G:C8	2.73	0.41
25:DC:173:LEU:HD12	25:DC:183:VAL:CG1	2.51	0.41
25:DC:220:ARG:HA	25:DC:220:ARG:NH1	2.32	0.41
25:DC:245:THR:O	25:DC:246:PRO:C	2.59	0.41
26:DD:81:GLU:O	26:DD:82:PHE:CB	2.68	0.41
26:DD:116:LYS:O	35:DN:1:MET:C	2.59	0.41
27:DE:193:VAL:C	27:DE:195:GLN:N	2.73	0.41
29:DG:44:HIS:HB2	29:DG:49:LEU:HD23	2.03	0.41
30:DH:30:LEU:O	30:DH:30:LEU:HD12	2.21	0.41
32:DK:20:MET:HB2	32:DK:44:LYS:HE2	2.02	0.41
32:DK:39:ILE:O	32:DK:60:ALA:N	2.50	0.41
34:DM:19:GLY:C	34:DM:20:LEU:HD12	2.41	0.41
34:DM:119:LEU:HD22	34:DM:119:LEU:N	2.32	0.41
37:DP:50:ARG:CG	37:DP:99:LEU:H	2.34	0.41
38:DQ:50:ARG:HH22	38:DQ:53:LYS:HE3	1.85	0.41
38:DQ:52:ARG:O	38:DQ:53:LYS:C	2.59	0.41
41:DT:19:LYS:HE3	41:DT:23:ALA:HB2	2.02	0.41
42:DU:10:VAL:O	42:DU:11:ILE:HD13	2.20	0.41
45:DY:10:ARG:HA	45:DY:31:ILE:HD12	2.03	0.41
49:D2:3:ARG:HH21	49:D2:4:THR:HG23	1.86	0.41
49:D2:17:GLY:C	49:D2:18:PHE:CG	2.93	0.41
51:D4:7:VAL:O	51:D4:8:LYS:HB2	2.21	0.41
52:DI:8:VAL:HG11	52:DI:30:GLN:HG3	2.02	0.41
52:DI:18:ASN:N	52:DI:19:PRO:CD	2.84	0.41
1:AA:5:U:H1'	1:AA:6:G:N1	2.35	0.41
1:AA:192:A:O2'	1:AA:193:C:H5'	2.20	0.41
1:AA:234:C:H2'	1:AA:235:C:H6	1.86	0.41
1:AA:236:A:H2'	1:AA:237:G:C8	2.56	0.41
1:AA:254:G:OP1	16:AQ:68:LYS:O	2.39	0.41
1:AA:415:A:O4'	1:AA:415:A:N3	2.52	0.41
1:AA:499:A:H4'	1:AA:500:G:H5'	2.03	0.41
1:AA:537:G:H5''	11:AL:109:ARG:NH1	2.36	0.41
1:AA:605:U:H2'	1:AA:606:G:C8	2.55	0.41
1:AA:637:C:H2'	1:AA:638:U:C6	2.56	0.41
1:AA:738:C:H2'	1:AA:739:C:C6	2.56	0.41
1:AA:842:U:OP1	1:AA:842:U:H3'	2.21	0.41
1:AA:847:G:H2'	1:AA:848:C:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:896:C:O2'	1:AA:897:C:H5'	2.20	0.41
1:AA:945:G:N1	1:AA:1337:G:C2	2.89	0.41
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.36	0.41
1:AA:1521:C:H2'	1:AA:1522:U:C6	2.56	0.41
1:AA:1529:G:H3'	1:AA:1529:G:OP2	2.20	0.41
2:AC:17:TRP:C	2:AC:19:SER:H	2.24	0.41
3:AD:26:ALA:O	3:AD:27:ILE:O	2.38	0.41
3:AD:120:LYS:CB	3:AD:145:ARG:HH21	2.32	0.41
3:AD:158:LEU:N	3:AD:158:LEU:HD23	2.36	0.41
4:AE:35:LEU:HD12	4:AE:133:ILE:HA	2.01	0.41
4:AE:71:ILE:HG12	4:AE:72:ASN:H	1.86	0.41
5:AF:3:HIS:HB2	5:AF:92:THR:OG1	2.21	0.41
5:AF:62:MET:O	5:AF:63:ASN:HB2	2.21	0.41
6:AG:26:VAL:O	6:AG:30:MET:N	2.54	0.41
6:AG:109:LYS:HD2	6:AG:109:LYS:N	2.36	0.41
6:AG:114:SER:O	6:AG:118:ARG:HG3	2.21	0.41
6:AG:141:HIS:O	6:AG:144:ALA:O	2.39	0.41
8:AI:24:ASN:O	8:AI:61:ASP:HB2	2.21	0.41
8:AI:71:ILE:O	8:AI:72:SER:C	2.59	0.41
8:AI:118:ARG:O	8:AI:118:ARG:HG2	2.21	0.41
9:AJ:71:LEU:HD12	9:AJ:71:LEU:N	2.27	0.41
9:AJ:73:LEU:O	9:AJ:74:VAL:HB	2.21	0.41
11:AL:80:LEU:HD13	11:AL:101:LEU:CD1	2.51	0.41
14:AO:39:GLN:HE21	14:AO:39:GLN:HB2	1.65	0.41
14:AO:58:MET:HG2	14:AO:58:MET:H	1.59	0.41
14:AO:70:LYS:NZ	14:AO:74:VAL:HA	2.36	0.41
14:AO:70:LYS:HG2	14:AO:77:TYR:CG	2.56	0.41
15:AP:12:LYS:C	15:AP:14:ARG:N	2.75	0.41
15:AP:46:LYS:HD3	15:AP:46:LYS:N	2.19	0.41
16:AQ:11:VAL:CA	16:AQ:22:VAL:HG22	2.44	0.41
19:AT:58:ASP:HA	19:AT:61:ALA:HB3	2.03	0.41
20:AB:202:ASN:HD21	20:AB:204:ASP:HB3	1.86	0.41
22:BA:92:C:H2'	22:BA:93:C:C6	2.55	0.41
23:BB:32:C:H2'	23:BB:33:C:H5''	2.03	0.41
23:BB:64:A:O2'	41:BT:69:ARG:HB3	2.20	0.41
23:BB:118:A:H5'	23:BB:119:A:C8	2.45	0.41
23:BB:273:G:H2'	23:BB:274:C:H6	1.85	0.41
23:BB:331:C:O2'	23:BB:332:A:H5'	2.21	0.41
23:BB:464:U:H2'	23:BB:465:G:O4'	2.21	0.41
23:BB:592:A:H2'	23:BB:593:U:C6	2.56	0.41
23:BB:598:U:H5'	33:BL:20:GLY:HA2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:839:U:H1'	23:BB:1191:G:H1'	2.02	0.41
23:BB:849:A:H2'	23:BB:850:U:C6	2.55	0.41
23:BB:1304:A:O2'	23:BB:1305:C:H5'	2.20	0.41
23:BB:1446:C:H2'	23:BB:1447:C:C6	2.55	0.41
23:BB:1485:U:O2'	23:BB:1486:U:H5'	2.20	0.41
23:BB:1589:U:H2'	23:BB:1590:A:C8	2.56	0.41
23:BB:1655:A:H2	23:BB:2049:G:O3'	2.03	0.41
23:BB:1820:U:H4'	23:BB:1821:A:OP2	2.21	0.41
23:BB:2230:G:H2'	23:BB:2231:U:C6	2.56	0.41
23:BB:2232:C:P	46:BZ:25:ARG:HH21	2.44	0.41
23:BB:2306:C:OP1	23:BB:2307:G:H8	2.04	0.41
23:BB:2347:C:OP1	23:BB:2347:C:H4'	2.21	0.41
23:BB:2389:G:H5''	23:BB:2390:U:O4'	2.20	0.41
23:BB:2538:C:O2'	23:BB:2539:C:H5'	2.21	0.41
23:BB:2584:U:O5'	23:BB:2584:U:H6	2.04	0.41
23:BB:2637:U:C2'	23:BB:2638:G:H5'	2.50	0.41
25:BC:50:THR:O	25:BC:51:ARG:C	2.59	0.41
25:BC:140:VAL:HG22	25:BC:161:VAL:O	2.20	0.41
25:BC:198:GLU:C	25:BC:200:MET:H	2.24	0.41
25:BC:228:ASP:OD1	25:BC:228:ASP:N	2.53	0.41
25:BC:251:THR:HG22	25:BC:252:LYS:N	2.35	0.41
26:BD:3:GLY:HA3	26:BD:49:GLN:HE22	1.86	0.41
26:BD:4:LEU:HD22	26:BD:79:LEU:HD12	2.02	0.41
26:BD:12:THR:CG2	26:BD:22:ILE:HD12	2.51	0.41
26:BD:88:GLU:C	26:BD:90:PHE:H	2.22	0.41
26:BD:103:ASP:O	26:BD:104:VAL:HB	2.21	0.41
27:BE:46:GLN:O	27:BE:48:THR:OG1	2.24	0.41
27:BE:118:LEU:HD11	27:BE:143:LEU:HD22	2.02	0.41
28:BF:3:LEU:O	28:BF:3:LEU:HD23	2.21	0.41
28:BF:7:TYR:CA	28:BF:11:VAL:HB	2.42	0.41
28:BF:89:THR:C	28:BF:90:LEU:HD12	2.41	0.41
28:BF:140:ILE:HG22	28:BF:141:ASP:N	2.35	0.41
29:BG:18:ILE:HA	29:BG:23:ILE:HD13	2.01	0.41
29:BG:35:THR:C	29:BG:36:LEU:HD12	2.41	0.41
29:BG:42:VAL:HA	29:BG:51:PHE:HA	2.02	0.41
29:BG:76:ILE:O	29:BG:80:GLU:HB2	2.20	0.41
29:BG:153:PRO:HG3	29:BG:160:GLY:CA	2.51	0.41
30:BH:1:MET:H1	30:BH:23:ALA:HB2	1.86	0.41
30:BH:27:ARG:HH11	30:BH:27:ARG:HB2	1.86	0.41
30:BH:47:PHE:CD1	30:BH:47:PHE:C	2.89	0.41
30:BH:56:ALA:HB3	30:BH:57:LYS:HZ2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:43:GLU:HG3	31:BJ:44:TYR:N	2.32	0.41
31:BJ:63:ALA:CA	31:BJ:69:ARG:HD2	2.47	0.41
33:BL:47:ARG:O	33:BL:47:ARG:HG3	2.21	0.41
33:BL:78:ARG:NH1	33:BL:110:VAL:HG11	2.36	0.41
33:BL:79:LEU:O	33:BL:81:ASP:OD1	2.39	0.41
33:BL:106:GLU:HG2	33:BL:107:PHE:N	2.32	0.41
33:BL:133:ALA:HA	33:BL:136:GLU:HG2	2.03	0.41
35:BN:118:ARG:HH22	47:B0:49:ARG:HB3	1.86	0.41
36:BO:67:ASN:HA	36:BO:67:ASN:HD22	1.56	0.41
36:BO:108:ASP:O	36:BO:112:GLU:CD	2.59	0.41
37:BP:29:VAL:HG23	37:BP:47:ILE:HD11	2.03	0.41
37:BP:108:ARG:H	37:BP:108:ARG:CD	2.14	0.41
38:BQ:16:ILE:H	38:BQ:16:ILE:HG13	1.73	0.41
38:BQ:65:ASN:O	38:BQ:69:ARG:HG2	2.21	0.41
38:BQ:78:PHE:CE2	38:BQ:82:LEU:HD11	2.56	0.41
38:BQ:102:LYS:N	38:BQ:102:LYS:CD	2.84	0.41
39:BR:5:PHE:N	39:BR:12:HIS:HB3	2.36	0.41
39:BR:42:ALA:C	39:BR:54:VAL:HA	2.41	0.41
39:BR:69:GLY:C	39:BR:70:GLU:HG3	2.40	0.41
40:BS:2:GLU:O	40:BS:4:ILE:HD13	2.20	0.41
40:BS:8:ARG:HH12	40:BS:80:PRO:HD2	1.85	0.41
40:BS:85:ILE:HG22	40:BS:86:MET:H	1.86	0.41
41:BT:73:ARG:O	41:BT:74:ILE:HD13	2.20	0.41
42:BU:46:LYS:O	42:BU:47:PRO:C	2.59	0.41
42:BU:78:LYS:HE2	42:BU:96:LYS:HE3	2.02	0.41
42:BU:92:VAL:O	42:BU:92:VAL:HG13	2.21	0.41
42:BU:101:THR:C	42:BU:102:ILE:HG13	2.41	0.41
49:B2:10:LEU:O	49:B2:10:LEU:HD23	2.21	0.41
51:B4:7:VAL:H	51:B4:23:ILE:CD1	2.34	0.41
52:BI:78:LEU:HA	52:BI:81:LYS:HG2	2.03	0.41
1:CA:113:G:H21	1:CA:353:A:H8	1.68	0.41
1:CA:186:C:H2'	1:CA:187:G:O4'	2.21	0.41
1:CA:191:G:H2'	1:CA:192:A:H8	1.85	0.41
1:CA:202:G:H1'	1:CA:468:A:H8	1.86	0.41
1:CA:210:C:H4'	1:CA:211:G:H5''	2.02	0.41
1:CA:224:U:H2'	1:CA:225:C:C6	2.56	0.41
1:CA:236:A:H2'	1:CA:237:G:H8	1.86	0.41
1:CA:426:U:O2'	1:CA:427:U:H5'	2.20	0.41
1:CA:473:U:C2	1:CA:474:G:C8	3.09	0.41
1:CA:474:G:H2'	1:CA:475:C:H6	1.82	0.41
1:CA:478:A:H2'	1:CA:479:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:557:G:H2'	1:CA:558:G:O4'	2.20	0.41
1:CA:599:C:O2'	1:CA:600:A:H5'	2.20	0.41
1:CA:601:G:O2'	1:CA:602:A:H5'	2.21	0.41
1:CA:637:C:H2'	1:CA:638:U:C6	2.56	0.41
1:CA:719:C:O2'	17:CR:37:LYS:HE3	2.20	0.41
1:CA:781:A:H2'	1:CA:782:A:C5'	2.45	0.41
1:CA:792:A:O2'	1:CA:794:A:N7	2.49	0.41
1:CA:861:G:H2'	1:CA:862:C:H6	1.86	0.41
1:CA:947:G:H5''	12:CM:106:ARG:HB2	2.03	0.41
1:CA:977:A:H1'	1:CA:981:U:H3	1.86	0.41
1:CA:1080:A:O3'	4:CE:20:VAL:HG21	2.20	0.41
1:CA:1101:A:H61	20:CB:101:THR:HG21	1.85	0.41
1:CA:1158:C:O3'	20:CB:131:LYS:HD3	2.20	0.41
1:CA:1192:C:OP2	2:CC:3:LYS:NZ	2.53	0.41
1:CA:1276:G:H2'	1:CA:1277:C:C6	2.56	0.41
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.56	0.41
1:CA:1359:C:H6	1:CA:1359:C:O5'	2.04	0.41
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.55	0.41
1:CA:1386:G:O2'	1:CA:1387:G:H5'	2.20	0.41
1:CA:1509:C:O2'	1:CA:1510:C:H5'	2.21	0.41
2:CC:190:THR:HG22	2:CC:191:THR:N	2.35	0.41
3:CD:2:ARG:O	3:CD:3:TYR:CB	2.68	0.41
3:CD:3:TYR:C	3:CD:5:GLY:H	2.24	0.41
3:CD:13:ARG:HG3	3:CD:55:ARG:NH2	2.36	0.41
3:CD:151:GLN:HG3	3:CD:153:ARG:HB3	2.03	0.41
4:CE:95:MET:HE2	4:CE:143:LEU:HD13	2.03	0.41
4:CE:158:LYS:CB	7:CH:63:LYS:HD3	2.50	0.41
6:CG:6:ILE:HG22	6:CG:7:GLY:N	2.36	0.41
6:CG:49:LEU:C	6:CG:51:GLN:N	2.74	0.41
7:CH:124:ILE:HD12	7:CH:125:ILE:N	2.36	0.41
8:CI:87:MET:SD	8:CI:88:GLU:N	2.93	0.41
10:CK:16:SER:N	10:CK:78:ILE:HA	2.35	0.41
10:CK:128:VAL:OXT	10:CK:128:VAL:HG23	2.21	0.41
11:CL:49:ARG:HD3	11:CL:89:LEU:HD21	2.02	0.41
11:CL:93:ARG:H	11:CL:93:ARG:HD2	1.85	0.41
11:CL:106:VAL:CG1	11:CL:109:ARG:HG3	2.51	0.41
11:CL:107:LYS:O	11:CL:108:ASP:HB2	2.20	0.41
11:CL:107:LYS:HG2	11:CL:108:ASP:N	2.34	0.41
12:CM:52:ILE:HG23	12:CM:53:ASP:N	2.36	0.41
13:CN:26:LEU:HA	13:CN:29:ILE:CD1	2.47	0.41
14:CO:35:ILE:HD11	14:CO:58:MET:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CQ:8:GLN:HA	16:CQ:59:GLU:HA	2.03	0.41
16:CQ:30:HIS:CB	16:CQ:33:TYR:HB2	2.51	0.41
17:CR:19:GLU:CD	17:CR:20:ILE:N	2.74	0.41
18:CS:35:ARG:NH2	18:CS:52:ASN:HD22	2.19	0.41
20:CB:11:ALA:O	20:CB:15:PHE:HD2	2.04	0.41
22:DA:37:C:N3	22:DA:48:U:O2'	2.52	0.41
23:DB:27:G:H8	23:DB:27:G:O5'	2.04	0.41
23:DB:144:A:C5	41:DT:3:ARG:NH1	2.89	0.41
23:DB:236:C:H2'	23:DB:237:C:H6	1.86	0.41
23:DB:593:U:H2'	23:DB:594:U:C6	2.56	0.41
23:DB:598:U:H5'	33:DL:21:ARG:HB2	2.03	0.41
23:DB:678:C:O2'	23:DB:679:C:H5'	2.20	0.41
23:DB:709:U:H2'	23:DB:710:U:C6	2.54	0.41
23:DB:742:A:O2'	23:DB:743:A:H5'	2.21	0.41
23:DB:877:A:C6	23:DB:898:C:H2'	2.56	0.41
23:DB:909:A:H5''	34:DM:18:ARG:NH2	2.35	0.41
23:DB:1250:G:C5'	38:DQ:5:ARG:HD3	2.50	0.41
23:DB:1407:G:H2'	23:DB:1408:G:H8	1.85	0.41
23:DB:1716:U:H2'	23:DB:1717:A:H8	1.83	0.41
23:DB:1726:C:H2'	23:DB:1727:C:C6	2.56	0.41
23:DB:1817:G:OP1	25:DC:62:ARG:NH2	2.54	0.41
23:DB:1945:G:C4	23:DB:1946:U:C5	3.09	0.41
23:DB:2261:C:OP2	43:DW:13:ARG:HB2	2.21	0.41
23:DB:2683:C:OP1	37:DP:55:HIS:CD2	2.73	0.41
25:DC:27:LYS:N	25:DC:28:PRO:HD3	2.34	0.41
25:DC:28:PRO:CB	25:DC:79:ARG:HE	2.34	0.41
25:DC:104:LEU:HD23	25:DC:104:LEU:HA	1.79	0.41
25:DC:155:ARG:NE	25:DC:157:ALA:HB3	2.36	0.41
26:DD:59:ARG:NH2	26:DD:63:PRO:HG2	2.35	0.41
26:DD:95:SER:C	26:DD:96:ILE:HG13	2.41	0.41
26:DD:116:LYS:O	35:DN:1:MET:HB2	2.21	0.41
26:DD:146:ILE:H	26:DD:146:ILE:CD1	2.34	0.41
26:DD:177:VAL:HG23	26:DD:188:LEU:O	2.21	0.41
26:DD:180:VAL:HG23	26:DD:181:ASP:H	1.85	0.41
27:DE:109:LEU:N	27:DE:117:ARG:HH21	2.19	0.41
27:DE:153:LEU:CB	27:DE:173:THR:HB	2.51	0.41
28:DF:41:GLU:H	28:DF:45:ASP:HB3	1.86	0.41
28:DF:56:LEU:CD1	28:DF:86:CYS:HB3	2.51	0.41
29:DG:31:GLU:O	29:DG:32:LEU:HD23	2.21	0.41
30:DH:104:THR:HA	30:DH:108:VAL:O	2.20	0.41
30:DH:135:HIS:H	30:DH:138:VAL:HB	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:69:VAL:HG11	32:DK:106:GLU:CD	2.41	0.41
33:DL:2:ARG:NH1	33:DL:2:ARG:HG3	2.35	0.41
33:DL:61:LEU:HB3	33:DL:62:PRO:HD3	2.03	0.41
33:DL:62:PRO:CB	50:D3:12:ARG:HD3	2.42	0.41
33:DL:90:VAL:C	33:DL:92:LEU:N	2.74	0.41
35:DN:28:LEU:HA	35:DN:34:ILE:CD1	2.50	0.41
37:DP:54:LEU:CD1	37:DP:55:HIS:H	2.33	0.41
37:DP:77:SER:HB2	37:DP:78:PRO:HD3	2.03	0.41
38:DQ:46:TYR:CD2	39:DR:89:HIS:NE2	2.89	0.41
39:DR:2:TYR:HD1	39:DR:15:SER:OG	2.04	0.41
40:DS:73:LYS:HA	40:DS:73:LYS:HD3	1.91	0.41
40:DS:87:PRO:O	40:DS:93:ALA:HA	2.21	0.41
41:DT:33:LYS:HD2	41:DT:33:LYS:O	2.21	0.41
41:DT:79:ASP:O	41:DT:80:TRP:HB2	2.20	0.41
41:DT:84:TYR:O	41:DT:85:VAL:C	2.59	0.41
42:DU:71:ILE:CG1	42:DU:72:PHE:N	2.84	0.41
44:DX:56:LEU:O	44:DX:59:GLU:HB2	2.21	0.41
45:DY:7:THR:CA	45:DY:34:THR:HB	2.51	0.41
45:DY:26:LEU:C	45:DY:28:LEU:H	2.24	0.41
48:D1:40:PRO:O	48:D1:41:VAL:C	2.59	0.41
49:D2:37:LYS:HD3	49:D2:37:LYS:C	2.42	0.41
50:D3:25:HIS:CE1	50:D3:46:LYS:HB2	2.55	0.41
51:D4:11:CYS:HB3	51:D4:27:CYS:SG	2.61	0.41
51:D4:16:ILE:HG23	51:D4:18:LYS:N	2.28	0.41
51:D4:26:ILE:CB	51:D4:35:GLN:HG2	2.50	0.41
1:AA:154:U:H2'	1:AA:155:A:C8	2.56	0.41
1:AA:291:U:O2'	1:AA:292:G:H5'	2.21	0.41
1:AA:951:G:H1'	1:AA:970:C:O2'	2.22	0.41
1:AA:1057:G:O2'	1:AA:1058:G:H5'	2.20	0.41
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.21	0.41
2:AC:38:VAL:CG2	2:AC:39:ARG:N	2.84	0.41
2:AC:40:GLN:CD	2:AC:44:LYS:HD2	2.42	0.41
2:AC:181:ILE:HG22	2:AC:182:ASP:N	2.35	0.41
3:AD:48:SER:OG	3:AD:49:ASP:N	2.52	0.41
5:AF:44:ARG:HA	5:AF:57:ALA:O	2.21	0.41
6:AG:101:ARG:HB3	6:AG:105:GLU:OE2	2.20	0.41
7:AH:75:GLN:O	7:AH:126:CYS:HB2	2.21	0.41
8:AI:52:GLU:N	8:AI:56:MET:HG2	2.35	0.41
20:AB:91:VAL:HG11	20:AB:95:TRP:CD1	2.56	0.41
20:AB:204:ASP:O	20:AB:205:ALA:HB3	2.21	0.41
21:AU:24:LYS:O	21:AU:26:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:100:U:H4'	42:BU:90:LYS:HD3	2.01	0.41
23:BB:506:G:H4'	23:BB:509:C:O2	2.21	0.41
23:BB:527:C:H5''	23:BB:2779:U:H3	1.86	0.41
23:BB:567:U:H2'	23:BB:568:U:O4'	2.20	0.41
23:BB:873:C:OP1	34:BM:1:MET:HG3	2.21	0.41
23:BB:985:C:H2'	23:BB:986:C:H6	1.86	0.41
23:BB:1001:A:H2'	23:BB:1002:G:O4'	2.21	0.41
23:BB:1010:A:N3	23:BB:1153:C:H1'	2.36	0.41
23:BB:1132:U:H6	31:BJ:85:LYS:NZ	2.18	0.41
23:BB:1275:A:H2	23:BB:1645:G:H21	1.64	0.41
23:BB:2023:C:H4'	23:BB:2617:U:O3'	2.21	0.41
23:BB:2305:U:O2	28:BF:132:ARG:HG2	2.21	0.41
23:BB:2419:U:O2'	23:BB:2420:C:H5'	2.21	0.41
23:BB:2520:C:C6	23:BB:2567:G:H1'	2.56	0.41
23:BB:2545:G:N3	23:BB:2565:A:H2	2.19	0.41
24:BV:83:LYS:O	24:BV:85:LYS:N	2.53	0.41
25:BC:140:VAL:CG2	25:BC:141:HIS:H	2.28	0.41
26:BD:18:ASP:HB3	26:BD:20:VAL:H	1.86	0.41
26:BD:106:LYS:O	26:BD:206:ALA:HB2	2.21	0.41
28:BF:34:THR:HA	28:BF:89:THR:HA	2.03	0.41
28:BF:116:LEU:CG	28:BF:176:PHE:HA	2.46	0.41
29:BG:49:LEU:HD12	29:BG:49:LEU:N	2.36	0.41
30:BH:41:LYS:HD2	30:BH:41:LYS:N	2.20	0.41
32:BK:98:ARG:HD2	32:BK:98:ARG:N	2.35	0.41
33:BL:40:SER:C	33:BL:41:ARG:HE	2.23	0.41
34:BM:11:LYS:C	34:BM:12:MET:SD	3.00	0.41
34:BM:96:ILE:HD13	34:BM:96:ILE:C	2.41	0.41
34:BM:96:ILE:HD13	34:BM:97:GLN:CG	2.51	0.41
35:BN:49:GLU:O	35:BN:52:ILE:HB	2.20	0.41
35:BN:57:THR:CB	35:BN:61:ALA:HB3	2.51	0.41
37:BP:29:VAL:CG2	37:BP:47:ILE:HD11	2.51	0.41
38:BQ:50:ARG:O	38:BQ:53:LYS:HD3	2.21	0.41
38:BQ:78:PHE:CZ	38:BQ:82:LEU:HD11	2.56	0.41
38:BQ:103:VAL:HG23	38:BQ:104:ALA:N	2.35	0.41
39:BR:18:GLN:CD	39:BR:18:GLN:N	2.74	0.41
42:BU:5:ARG:CG	42:BU:6:ARG:N	2.83	0.41
43:BW:28:GLU:N	43:BW:61:LYS:HB2	2.25	0.41
45:BY:28:LEU:HD12	45:BY:28:LEU:N	2.36	0.41
47:B0:16:ARG:O	47:B0:19:ASP:HB2	2.21	0.41
51:B4:7:VAL:HB	51:B4:35:GLN:NE2	2.36	0.41
52:BI:107:GLU:O	52:BI:110:GLN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:399:G:H2'	1:CA:400:C:H6	1.84	0.41
1:CA:500:G:H2'	1:CA:501:C:C6	2.56	0.41
1:CA:542:G:O2'	1:CA:543:U:H5'	2.20	0.41
1:CA:567:G:H2'	1:CA:568:G:O4'	2.21	0.41
1:CA:605:U:H2'	1:CA:606:G:C8	2.56	0.41
1:CA:633:G:H2'	1:CA:634:C:H6	1.84	0.41
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.21	0.41
1:CA:1499:A:H1'	1:CA:1520:C:H5'	2.03	0.41
3:CD:28:ASP:CB	3:CD:33:ILE:HD12	2.50	0.41
3:CD:44:LYS:HZ2	3:CD:46:ARG:HA	1.86	0.41
3:CD:187:ARG:HH12	3:CD:191:SER:CA	2.30	0.41
9:CJ:68:ARG:HB3	9:CJ:68:ARG:CZ	2.50	0.41
11:CL:36:VAL:HA	11:CL:52:CYS:CB	2.51	0.41
11:CL:98:ARG:HD2	11:CL:104:SER:O	2.21	0.41
12:CM:47:LEU:HD12	12:CM:51:GLN:HB2	2.02	0.41
20:CB:163:ILE:CG2	20:CB:164:ASP:H	2.21	0.41
23:DB:104:A:H2'	23:DB:105:C:C6	2.54	0.41
23:DB:516:C:O2'	23:DB:517:C:H5'	2.21	0.41
23:DB:678:C:H2'	23:DB:679:C:H6	1.86	0.41
23:DB:941:A:H2'	23:DB:942:G:C8	2.56	0.41
23:DB:1114:C:H2'	23:DB:1115:G:O4'	2.21	0.41
23:DB:1403:A:H2'	23:DB:1404:C:C6	2.56	0.41
23:DB:1446:C:H2'	23:DB:1447:C:C6	2.56	0.41
23:DB:1498:C:H2'	23:DB:1499:C:C6	2.56	0.41
23:DB:1537:G:H2'	23:DB:1538:G:O4'	2.20	0.41
23:DB:1539:U:H2'	23:DB:1540:G:C8	2.56	0.41
23:DB:1561:C:O2'	23:DB:1562:U:H5'	2.21	0.41
23:DB:1779:U:C5	23:DB:1784:A:N7	2.86	0.41
23:DB:1792:G:O2'	23:DB:1793:C:H5'	2.21	0.41
23:DB:1802:A:O3'	25:DC:255:LYS:HD2	2.21	0.41
23:DB:1965:C:H5''	23:DB:1966:A:H2'	2.03	0.41
23:DB:2026:U:C2	23:DB:2027:G:C8	3.08	0.41
23:DB:2246:G:H2'	23:DB:2247:A:H8	1.81	0.41
23:DB:2300:C:H2'	23:DB:2301:C:H6	1.85	0.41
23:DB:2650:U:H2'	23:DB:2651:C:H6	1.83	0.41
23:DB:2700:A:H2'	23:DB:2701:U:C6	2.56	0.41
25:DC:22:GLU:H	25:DC:202:ARG:CZ	2.34	0.41
25:DC:103:ILE:CG2	25:DC:104:LEU:N	2.83	0.41
26:DD:59:ARG:HE	26:DD:63:PRO:HB2	1.85	0.41
27:DE:21:ARG:HH12	27:DE:23:PHE:HB3	1.86	0.41
28:DF:102:LEU:O	28:DF:107:VAL:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:120:ILE:HG23	29:DG:133:LYS:C	2.41	0.41
32:DK:16:ALA:O	32:DK:17:ARG:O	2.38	0.41
32:DK:47:ILE:O	32:DK:48:PRO:C	2.59	0.41
32:DK:70:ARG:CD	32:DK:76:VAL:HG22	2.51	0.41
32:DK:99:ILE:O	32:DK:119:ALA:HB2	2.20	0.41
35:DN:33:ILE:HG12	35:DN:114:GLU:CB	2.51	0.41
38:DQ:46:TYR:HB2	39:DR:78:ARG:O	2.22	0.41
38:DQ:88:GLU:CD	39:DR:53:PHE:HB2	2.41	0.41
39:DR:32:THR:HB	39:DR:66:HIS:HB3	2.03	0.41
39:DR:47:VAL:HG22	39:DR:48:LYS:N	2.25	0.41
43:DW:5:ALA:C	43:DW:7:GLY:H	2.25	0.41
50:D3:60:CYS:O	50:D3:61:LEU:C	2.59	0.41
52:DI:70:THR:O	52:DI:70:THR:CG2	2.68	0.41
1:AA:28:A:H2'	1:AA:29:U:O4'	2.21	0.40
1:AA:484:G:H4'	1:AA:485:U:H5'	2.02	0.40
1:AA:662:U:H2'	1:AA:663:A:H8	1.81	0.40
1:AA:768:A:H4'	1:AA:1523:G:N2	2.35	0.40
1:AA:812:G:OP1	1:AA:812:G:C4'	2.68	0.40
1:AA:976:G:H5''	1:AA:1358:U:O2'	2.21	0.40
1:AA:1029:U:H5''	1:AA:1030:U:C5	2.46	0.40
1:AA:1084:G:H2'	1:AA:1085:U:C5	2.56	0.40
1:AA:1151:A:HO2'	1:AA:1152:A:H8	1.63	0.40
1:AA:1269:A:H1'	1:AA:1326:U:O4'	2.20	0.40
1:AA:1391:U:O2'	1:AA:1392:G:H5'	2.21	0.40
1:AA:1499:A:C1'	1:AA:1520:C:H5'	2.51	0.40
4:AE:55:VAL:N	4:AE:56:PRO:CD	2.84	0.40
4:AE:131:ASN:ND2	4:AE:134:ASN:H	2.19	0.40
4:AE:131:ASN:ND2	4:AE:134:ASN:N	2.69	0.40
7:AH:55:LYS:HE3	7:AH:55:LYS:HA	2.03	0.40
8:AI:38:PHE:O	8:AI:39:GLY:C	2.59	0.40
8:AI:64:ILE:HG22	8:AI:65:THR:H	1.86	0.40
8:AI:83:THR:HG23	8:AI:84:ARG:N	2.35	0.40
9:AJ:15:HIS:HD2	9:AJ:18:ILE:CG2	2.31	0.40
11:AL:87:LYS:NZ	11:AL:87:LYS:HA	2.36	0.40
15:AP:73:ALA:HB1	15:AP:77:GLU:OE2	2.21	0.40
16:AQ:7:LEU:C	16:AQ:9:GLY:H	2.24	0.40
18:AS:35:ARG:HB3	18:AS:71:GLY:HA2	2.02	0.40
20:AB:15:PHE:HD1	20:AB:16:GLY:N	2.19	0.40
23:BB:911:A:C6	34:BM:13:HIS:HB3	2.56	0.40
23:BB:1201:U:H2'	23:BB:1202:G:H8	1.86	0.40
23:BB:1315:C:H2'	23:BB:1316:U:H6	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1726:C:H2'	23:BB:1727:C:C6	2.57	0.40
23:BB:1812:U:H2'	23:BB:1813:G:C8	2.56	0.40
23:BB:1830:C:H2'	23:BB:1831:G:H8	1.86	0.40
23:BB:2007:U:H2'	23:BB:2008:C:C6	2.56	0.40
23:BB:2133:G:N3	23:BB:2133:G:H2'	2.36	0.40
23:BB:2335:A:P	36:BO:9:ARG:HG3	2.61	0.40
23:BB:2385:C:H2'	23:BB:2386:A:C8	2.56	0.40
23:BB:2520:C:O2'	23:BB:2521:C:H5'	2.21	0.40
23:BB:2530:A:N6	29:BG:155:PRO:HG3	2.37	0.40
25:BC:10:PRO:CG	25:BC:23:LEU:HD11	2.51	0.40
25:BC:70:LYS:HE3	25:BC:95:TYR:CD2	2.57	0.40
25:BC:114:GLN:HB2	25:BC:124:LYS:HZ1	1.86	0.40
26:BD:155:VAL:O	26:BD:155:VAL:HG13	2.21	0.40
26:BD:187:LEU:C	26:BD:188:LEU:HD12	2.41	0.40
27:BE:188:MET:O	27:BE:194:LYS:NZ	2.54	0.40
27:BE:191:ASP:C	27:BE:193:VAL:H	2.22	0.40
28:BF:108:PRO:HB3	28:BF:113:PHE:CE2	2.56	0.40
32:BK:23:LYS:CG	32:BK:24:VAL:N	2.85	0.40
33:BL:110:VAL:O	33:BL:126:ARG:NH2	2.53	0.40
35:BN:12:ARG:HD3	35:BN:20:MET:CG	2.49	0.40
35:BN:34:ILE:HD13	35:BN:34:ILE:H	1.83	0.40
37:BP:93:LYS:HB2	37:BP:96:LEU:HD12	2.02	0.40
37:BP:94:ALA:C	37:BP:96:LEU:H	2.23	0.40
38:BQ:34:ALA:C	38:BQ:38:VAL:HG12	2.42	0.40
38:BQ:35:PHE:H	38:BQ:35:PHE:HD2	1.69	0.40
38:BQ:97:ILE:HA	38:BQ:100:PHE:CE2	2.56	0.40
40:BS:71:VAL:HG12	40:BS:71:VAL:O	2.21	0.40
40:BS:81:SER:OG	40:BS:97:LEU:HB3	2.21	0.40
41:BT:50:LEU:O	41:BT:52:GLU:N	2.54	0.40
42:BU:43:LYS:HZ3	42:BU:45:GLN:HG2	1.87	0.40
42:BU:62:ALA:O	42:BU:63:ALA:C	2.60	0.40
44:BX:12:GLU:HB2	44:BX:14:LEU:HD11	2.03	0.40
51:B4:25:VAL:HB	51:B4:33:HIS:C	2.39	0.40
52:BI:32:VAL:HG13	52:BI:66:PHE:CD2	2.55	0.40
1:CA:35:G:H2'	1:CA:36:C:C6	2.56	0.40
1:CA:108:G:N3	1:CA:108:G:O4'	2.54	0.40
1:CA:152:A:N6	1:CA:170:U:C2	2.89	0.40
1:CA:415:A:N1	1:CA:428:G:O6	2.54	0.40
1:CA:1118:U:O4'	1:CA:1179:A:H1'	2.21	0.40
1:CA:1149:C:O2'	1:CA:1150:A:H5'	2.21	0.40
1:CA:1305:G:HO2'	1:CA:1306:A:H8	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.56	0.40
1:CA:1368:A:OP1	8:CI:112:ARG:NH2	2.54	0.40
2:CC:2:GLN:HE21	2:CC:2:GLN:CA	2.34	0.40
3:CD:8:LEU:O	3:CD:11:SER:HB2	2.20	0.40
5:CF:3:HIS:CA	5:CF:65:GLU:HG3	2.51	0.40
6:CG:68:VAL:HG12	6:CG:134:VAL:HA	2.02	0.40
8:CI:94:ARG:HH11	8:CI:98:ARG:NH1	2.18	0.40
13:CN:51:PRO:HG2	13:CN:52:ARG:N	2.30	0.40
14:CO:28:VAL:O	14:CO:32:THR:N	2.54	0.40
23:DB:3:U:H2'	23:DB:4:U:H6	1.83	0.40
23:DB:153:U:H2'	23:DB:154:U:H6	1.84	0.40
23:DB:265:A:O2'	23:DB:266:G:H4'	2.20	0.40
23:DB:452:G:C2	23:DB:458:G:C4	3.09	0.40
23:DB:877:A:N3	23:DB:877:A:H2'	2.36	0.40
23:DB:899:A:C2	23:DB:900:A:H1'	2.56	0.40
23:DB:900:A:H2'	23:DB:901:C:C6	2.55	0.40
23:DB:1205:A:C1'	23:DB:1206:G:P	3.09	0.40
23:DB:1427:A:H4'	23:DB:1428:C:O4'	2.20	0.40
23:DB:1439:A:C6	23:DB:1552:A:C5	3.09	0.40
23:DB:1501:G:O2'	23:DB:1502:A:H5'	2.20	0.40
23:DB:1791:A:O5'	25:DC:211:ARG:NE	2.52	0.40
23:DB:1797:G:H2'	23:DB:1798:U:H6	1.85	0.40
23:DB:1917:U:O2'	23:DB:1918:A:H5'	2.21	0.40
23:DB:2184:A:H2'	23:DB:2185:U:C6	2.56	0.40
23:DB:2458:G:H8	23:DB:2459:A:H62	1.68	0.40
23:DB:2636:C:H5'	26:DD:80:TRP:CZ2	2.56	0.40
23:DB:2784:U:O2'	23:DB:2785:C:H5'	2.21	0.40
25:DC:19:VAL:HG23	25:DC:206:LYS:NZ	2.36	0.40
25:DC:162:GLN:NE2	25:DC:174:ARG:NH1	2.69	0.40
25:DC:225:ASN:O	25:DC:227:VAL:HG12	2.21	0.40
26:DD:24:VAL:HG21	26:DD:193:VAL:CG1	2.51	0.40
26:DD:89:GLU:HG2	26:DD:93:GLY:CA	2.51	0.40
28:DF:135:ILE:HD11	28:DF:138:PRO:CA	2.36	0.40
28:DF:177:ARG:CZ	28:DF:178:LYS:HA	2.51	0.40
29:DG:3:VAL:O	29:DG:4:ALA:HB2	2.20	0.40
29:DG:7:PRO:C	29:DG:8:VAL:HG22	2.40	0.40
32:DK:52:VAL:HG21	32:DK:86:LEU:HD13	2.01	0.40
34:DM:5:LYS:O	34:DM:6:ARG:C	2.57	0.40
37:DP:28:LYS:HZ2	37:DP:44:GLY:H	1.69	0.40
39:DR:74:ILE:C	39:DR:75:VAL:HG22	2.40	0.40
40:DS:51:LEU:HD12	40:DS:51:LEU:HA	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:95:PHE:HD1	41:DT:97:GLY:N	2.19	0.40
42:DU:13:LEU:HD11	42:DU:69:VAL:H	1.85	0.40
50:D3:5:THR:HG23	50:D3:5:THR:O	2.21	0.40
50:D3:12:ARG:HB3	50:D3:23:HIS:CB	2.51	0.40
51:D4:1:MET:HG3	51:D4:2:LYS:CD	2.51	0.40
1:AA:219:U:H2'	1:AA:220:G:H8	1.85	0.40
1:AA:438:U:H2'	1:AA:494:G:O6	2.21	0.40
1:AA:495:A:H4'	1:AA:496:A:O5'	2.21	0.40
1:AA:529:G:H22	11:AL:47:ALA:HB2	1.85	0.40
1:AA:812:G:O2'	1:AA:813:U:H6	2.04	0.40
1:AA:974:A:H8	1:AA:974:A:OP1	2.04	0.40
1:AA:980:C:H2'	1:AA:981:U:H5'	2.03	0.40
1:AA:1311:A:H2'	1:AA:1312:G:O4'	2.21	0.40
1:AA:1401:G:H2'	1:AA:1402:C:O4'	2.21	0.40
3:AD:36:ALA:O	3:AD:38:GLY:N	2.54	0.40
3:AD:99:ASN:CB	3:AD:103:ARG:HH21	2.34	0.40
5:AF:7:VAL:O	5:AF:7:VAL:HG13	2.21	0.40
6:AG:53:SER:OG	6:AG:54:GLY:N	2.53	0.40
6:AG:112:ASP:H	6:AG:118:ARG:HD3	1.86	0.40
8:AI:49:GLN:HB3	8:AI:50:PRO:CD	2.51	0.40
8:AI:107:ALA:O	8:AI:109:GLN:HG2	2.21	0.40
8:AI:126:PHE:O	8:AI:128:LYS:N	2.54	0.40
11:AL:35:ARG:HH21	11:AL:75:GLU:HB3	1.78	0.40
12:AM:77:LYS:O	12:AM:81:ASP:N	2.44	0.40
12:AM:100:ARG:HH11	12:AM:103:THR:HB	1.86	0.40
15:AP:6:LEU:HD21	15:AP:74:LEU:HD11	2.02	0.40
16:AQ:59:GLU:N	16:AQ:74:LEU:HD23	2.34	0.40
23:BB:468:G:H5''	27:BE:55:SER:O	2.22	0.40
23:BB:573:U:H5'	54:BB:3434:HOH:O	2.20	0.40
23:BB:826:U:H2'	23:BB:828:U:O4'	2.21	0.40
23:BB:944:C:O2	23:BB:944:C:H2'	2.21	0.40
23:BB:1030:C:O2'	23:BB:1031:G:H5'	2.21	0.40
23:BB:1231:U:H2'	23:BB:1232:G:C8	2.56	0.40
23:BB:1278:C:H2'	23:BB:1279:G:C8	2.57	0.40
23:BB:1322:A:H2'	23:BB:1323:C:H5'	2.03	0.40
23:BB:1330:C:H2'	23:BB:1331:G:H8	1.86	0.40
23:BB:1566:A:C6	25:BC:213:ARG:CZ	3.05	0.40
23:BB:1597:A:H5''	23:BB:1598:A:H5'	2.03	0.40
23:BB:1918:A:H1'	23:BB:1919:A:N7	2.37	0.40
23:BB:2033:A:H1'	23:BB:2035:G:OP2	2.20	0.40
23:BB:2077:A:O2'	23:BB:2078:C:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2350:C:OP2	50:B3:41:ARG:HD2	2.21	0.40
23:BB:2492:U:O2'	23:BB:2493:U:H5'	2.21	0.40
23:BB:2649:C:H2'	23:BB:2650:U:C6	2.56	0.40
23:BB:2737:G:H2'	23:BB:2738:A:O4'	2.21	0.40
23:BB:2813:A:O2'	23:BB:2814:A:H5'	2.21	0.40
23:BB:2845:U:H4'	37:BP:54:LEU:CD2	2.50	0.40
23:BB:2884:U:H2'	23:BB:2885:G:H8	1.86	0.40
24:BV:33:GLY:C	24:BV:35:GLU:H	2.25	0.40
24:BV:75:GLN:C	34:BM:133:LYS:HZ3	2.25	0.40
24:BV:82:TYR:HB2	34:BM:36:VAL:HG12	2.01	0.40
25:BC:10:PRO:O	25:BC:21:PRO:HD2	2.21	0.40
25:BC:77:VAL:HG23	25:BC:115:ILE:CD1	2.48	0.40
26:BD:46:ARG:HD2	26:BD:80:TRP:CE2	2.56	0.40
26:BD:60:VAL:HB	26:BD:63:PRO:CG	2.47	0.40
27:BE:120:VAL:N	27:BE:189:THR:HG23	2.26	0.40
30:BH:45:GLU:OE1	30:BH:45:GLU:HA	2.21	0.40
31:BJ:66:GLY:C	31:BJ:68:LYS:H	2.25	0.40
32:BK:119:ALA:O	32:BK:121:GLU:N	2.53	0.40
33:BL:38:GLN:HA	33:BL:41:ARG:NH1	2.36	0.40
33:BL:63:LYS:CG	50:B3:11:LYS:HZ2	2.34	0.40
33:BL:120:VAL:HG11	33:BL:135:ILE:HG22	2.03	0.40
34:BM:33:LEU:HD12	34:BM:101:VAL:HG11	2.04	0.40
34:BM:38:ARG:HG3	34:BM:38:ARG:NH1	2.36	0.40
34:BM:73:ILE:HD13	34:BM:90:GLU:CG	2.52	0.40
41:BT:88:LYS:CG	41:BT:89:GLU:H	2.20	0.40
42:BU:73:ASN:HB2	42:BU:96:LYS:HZ3	1.83	0.40
43:BW:31:LEU:CD1	43:BW:66:VAL:HG23	2.51	0.40
43:BW:44:PHE:O	43:BW:44:PHE:HD1	2.04	0.40
47:B0:12:ARG:C	47:B0:14:MET:N	2.74	0.40
1:CA:358:U:H2'	1:CA:359:G:C8	2.56	0.40
1:CA:547:A:H4'	1:CA:548:G:O5'	2.22	0.40
1:CA:635:A:H2'	1:CA:636:U:C6	2.56	0.40
1:CA:806:C:O2'	1:CA:807:A:H5'	2.21	0.40
1:CA:918:A:H2'	1:CA:919:A:H8	1.82	0.40
1:CA:987:G:H2'	1:CA:988:G:C8	2.55	0.40
1:CA:1113:C:O2'	1:CA:1114:C:H5'	2.21	0.40
1:CA:1250:A:H5''	8:CI:68:GLY:HA2	2.03	0.40
1:CA:1261:A:N3	1:CA:1261:A:H2'	2.36	0.40
1:CA:1316:G:N2	1:CA:1318:A:H3'	2.36	0.40
1:CA:1510:C:H2'	1:CA:1511:G:H8	1.86	0.40
2:CC:194:VAL:HG12	2:CC:195:ILE:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:37:PRO:CD	3:CD:41:GLY:HA3	2.51	0.40
3:CD:56:GLU:HG2	3:CD:198:LEU:HD13	2.03	0.40
4:CE:131:ASN:C	4:CE:135:VAL:HG23	2.41	0.40
4:CE:148:SER:O	4:CE:151:MET:HB2	2.21	0.40
5:CF:84:VAL:HG22	5:CF:85:ILE:N	2.36	0.40
7:CH:21:LYS:O	7:CH:62:LEU:HD22	2.21	0.40
7:CH:85:TYR:CD1	7:CH:85:TYR:N	2.89	0.40
14:CO:88:ARG:NH2	23:DB:715:A:H5''	2.36	0.40
15:CP:32:PHE:C	15:CP:32:PHE:HD1	2.24	0.40
15:CP:56:ARG:O	15:CP:59:HIS:HB3	2.22	0.40
18:CS:30:LEU:HB2	18:CS:48:ILE:HG12	2.03	0.40
19:CT:69:ASN:H	19:CT:69:ASN:HD22	1.66	0.40
23:DB:26:G:H2'	23:DB:27:G:N9	2.36	0.40
23:DB:192:C:C2'	23:DB:193:U:H5'	2.51	0.40
23:DB:192:C:H2'	23:DB:193:U:H5'	2.04	0.40
23:DB:240:C:N4	23:DB:241:A:C6	2.90	0.40
23:DB:426:C:H2'	23:DB:427:U:C6	2.56	0.40
23:DB:664:G:O2'	23:DB:665:U:H5'	2.21	0.40
23:DB:927:A:H2'	23:DB:928:A:C8	2.56	0.40
23:DB:997:G:OP1	38:DQ:92:LYS:HB3	2.20	0.40
23:DB:1021:A:N6	23:DB:1142:A:N6	2.63	0.40
23:DB:1220:G:H2'	23:DB:1221:C:C6	2.56	0.40
23:DB:1708:C:O2'	23:DB:1709:U:H5'	2.22	0.40
23:DB:2135:A:C2	23:DB:2136:G:C8	3.09	0.40
23:DB:2194:U:O2'	23:DB:2195:U:H5'	2.20	0.40
23:DB:2472:G:O6	23:DB:2476:A:H4'	2.22	0.40
23:DB:2529:G:C4'	29:DG:175:LYS:HD3	2.52	0.40
23:DB:2645:G:H4'	23:DB:2646:C:OP2	2.22	0.40
23:DB:2758:A:O2'	23:DB:2759:G:H5'	2.21	0.40
23:DB:2876:G:H5''	37:DP:2:ASN:HA	2.03	0.40
25:DC:87:SER:O	25:DC:155:ARG:NH1	2.54	0.40
25:DC:172:THR:O	25:DC:181:ARG:O	2.39	0.40
26:DD:4:LEU:HD22	26:DD:51:THR:HB	2.02	0.40
26:DD:107:VAL:HG23	26:DD:175:LEU:O	2.20	0.40
26:DD:122:VAL:HA	26:DD:128:ARG:CD	2.51	0.40
26:DD:150:GLN:O	26:DD:152:PRO:CD	2.68	0.40
28:DF:62:GLN:HB3	28:DF:63:LYS:H	1.68	0.40
29:DG:36:LEU:HD22	29:DG:40:VAL:CG1	2.51	0.40
31:DJ:120:ARG:HB3	31:DJ:121:LYS:NZ	2.34	0.40
33:DL:50:PHE:O	33:DL:51:GLU:C	2.59	0.40
33:DL:84:LYS:O	33:DL:84:LYS:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DM:33:LEU:HD12	34:DM:101:VAL:HG21	2.03	0.40
34:DM:81:ARG:HH11	34:DM:81:ARG:HB2	1.87	0.40
34:DM:119:LEU:H	34:DM:119:LEU:CD2	2.32	0.40
37:DP:42:PHE:O	37:DP:43:GLU:HG2	2.21	0.40
38:DQ:77:LYS:O	38:DQ:80:ASN:HB3	2.20	0.40
39:DR:81:LYS:O	39:DR:82:HIS:C	2.59	0.40
42:DU:99:SER:O	42:DU:100:GLU:HG2	2.21	0.40
43:DW:41:GLY:HA2	43:DW:65:LYS:HB3	2.02	0.40
50:D3:28:LEU:CD1	50:D3:33:THR:HG21	2.50	0.40
52:DI:59:THR:O	52:DI:59:THR:CG2	2.69	0.40
1:AA:17:U:H1'	1:AA:1080:A:N3	2.36	0.40
1:AA:35:G:H2'	1:AA:36:C:H6	1.86	0.40
1:AA:70:U:H1'	1:AA:71:A:N7	2.36	0.40
1:AA:167:A:H2'	1:AA:168:G:H8	1.86	0.40
1:AA:425:G:O2'	1:AA:426:U:H5'	2.21	0.40
1:AA:612:C:H2'	1:AA:613:C:C6	2.55	0.40
1:AA:657:U:O2'	1:AA:658:C:H5'	2.21	0.40
1:AA:676:A:O2'	1:AA:677:U:H5'	2.21	0.40
1:AA:749:A:O2'	1:AA:750:C:H5'	2.22	0.40
1:AA:1036:A:H2'	1:AA:1036:A:N3	2.36	0.40
1:AA:1074:G:O2'	1:AA:1075:U:H5'	2.21	0.40
1:AA:1468:A:O2'	1:AA:1469:C:H5'	2.20	0.40
4:AE:95:MET:CE	4:AE:114:LEU:HD11	2.51	0.40
6:AG:29:LEU:HD12	6:AG:104:VAL:HG13	2.04	0.40
7:AH:76:ARG:HG3	7:AH:76:ARG:NH1	2.36	0.40
8:AI:57:VAL:C	8:AI:59:LYS:H	2.25	0.40
10:AK:52:ARG:HB3	10:AK:53:GLY:H	1.65	0.40
11:AL:58:ASN:H	11:AL:58:ASN:HD22	1.67	0.40
14:AO:25:GLU:HA	14:AO:80:LEU:CD1	2.52	0.40
16:AQ:10:ARG:HD3	16:AQ:55:GLY:H	1.87	0.40
19:AT:57:VAL:O	19:AT:57:VAL:HG12	2.21	0.40
20:AB:9:LEU:H	20:AB:9:LEU:CD1	2.33	0.40
22:BA:76:G:H2'	22:BA:77:U:C6	2.56	0.40
23:BB:7:G:H1'	31:BJ:135:GLN:NE2	2.32	0.40
23:BB:197:A:N6	23:BB:2430:A:H2'	2.36	0.40
23:BB:278:A:N3	23:BB:278:A:C2'	2.84	0.40
23:BB:482:A:N6	23:BB:506:G:H1'	2.37	0.40
23:BB:507:A:OP1	23:BB:508:A:N7	2.55	0.40
23:BB:670:A:H3'	33:BL:47:ARG:HD3	2.02	0.40
23:BB:710:U:H2'	23:BB:711:G:C8	2.56	0.40
23:BB:852:U:H2'	23:BB:853:C:H6	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:956:G:C1'	34:BM:81:ARG:HH22	2.33	0.40
23:BB:1278:C:H2'	23:BB:1279:G:H8	1.86	0.40
23:BB:1537:G:H2'	23:BB:1538:G:O4'	2.21	0.40
23:BB:1656:C:P	26:BD:141:ARG:HD3	2.61	0.40
23:BB:2083:G:H2'	23:BB:2084:C:H6	1.86	0.40
23:BB:2316:G:H2'	23:BB:2317:A:C8	2.56	0.40
23:BB:2636:C:H4'	26:BD:80:TRP:CE3	2.57	0.40
23:BB:2683:C:O2'	23:BB:2684:U:H5'	2.21	0.40
24:BV:77:VAL:CA	24:BV:89:ILE:HG22	2.42	0.40
25:BC:95:TYR:HB2	25:BC:99:GLU:HB3	2.03	0.40
25:BC:113:ASP:O	25:BC:115:ILE:HD12	2.21	0.40
25:BC:132:ARG:HH22	3:CD:159:GLU:HB3	1.85	0.40
26:BD:181:ASP:OD2	26:BD:186:LEU:HD23	2.21	0.40
28:BF:18:GLU:O	28:BF:19:PHE:HB3	2.20	0.40
28:BF:164:GLU:O	28:BF:168:LEU:HD21	2.21	0.40
28:BF:165:GLY:HA2	28:BF:168:LEU:CD2	2.51	0.40
29:BG:58:ALA:C	29:BG:60:GLY:H	2.25	0.40
29:BG:71:LEU:HD12	29:BG:74:MET:HE3	2.02	0.40
30:BH:6:LEU:H	30:BH:16:GLY:CA	2.34	0.40
31:BJ:103:ILE:HD11	31:BJ:124:VAL:HG21	2.03	0.40
33:BL:29:LYS:O	33:BL:36:LYS:NZ	2.54	0.40
33:BL:71:ALA:O	33:BL:72:ALA:C	2.59	0.40
35:BN:29:VAL:CG2	35:BN:75:ILE:HD11	2.44	0.40
36:BO:26:LEU:O	36:BO:27:VAL:HB	2.22	0.40
37:BP:19:PHE:O	37:BP:20:ARG:HB2	2.21	0.40
37:BP:104:GLY:O	37:BP:105:LYS:HB3	2.22	0.40
42:BU:11:ILE:HB	42:BU:69:VAL:CG1	2.51	0.40
45:BY:9:THR:HG23	45:BY:10:ARG:H	1.86	0.40
47:B0:49:ARG:HG2	47:B0:49:ARG:O	2.21	0.40
48:B1:8:ILE:HG21	48:B1:27:ARG:HH21	1.86	0.40
49:B2:11:LYS:HE2	49:B2:11:LYS:HB3	1.85	0.40
49:B2:42:LEU:CG	49:B2:43:THR:N	2.85	0.40
50:B3:22:LYS:O	50:B3:23:HIS:O	2.39	0.40
1:CA:321:A:H2'	1:CA:322:C:H6	1.87	0.40
1:CA:411:A:C4	1:CA:413:G:H1'	2.56	0.40
1:CA:521:G:OP1	11:CL:69:GLU:HB3	2.20	0.40
1:CA:896:C:O2'	1:CA:897:C:H5'	2.21	0.40
1:CA:1176:A:H3'	1:CA:1177:G:H8	1.86	0.40
1:CA:1248:A:H2	8:CI:71:ILE:HD11	1.85	0.40
1:CA:1510:C:H2'	1:CA:1511:G:C8	2.57	0.40
4:CE:24:VAL:HG23	4:CE:26:GLY:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:93:VAL:HG12	4:CE:94:PHE:N	2.36	0.40
5:CF:11:HIS:CD2	5:CF:13:ASP:HB3	2.56	0.40
7:CH:4:ASP:HB2	7:CH:80:PRO:HG3	2.04	0.40
7:CH:23:ALA:HB1	7:CH:60:LEU:O	2.21	0.40
7:CH:112:ASP:CG	7:CH:113:ARG:H	2.24	0.40
9:CJ:28:THR:CG2	9:CJ:86:ALA:HB1	2.51	0.40
9:CJ:98:VAL:HG23	9:CJ:98:VAL:O	2.21	0.40
10:CK:19:VAL:N	10:CK:34:THR:O	2.47	0.40
10:CK:116:PRO:C	10:CK:118:ASN:H	2.24	0.40
16:CQ:26:ARG:HH21	16:CQ:39:ARG:HG2	1.86	0.40
20:CB:27:LYS:CB	20:CB:28:PRO:HD3	2.44	0.40
20:CB:132:GLU:HA	20:CB:135:MET:CE	2.51	0.40
22:DA:19:C:O2'	22:DA:20:G:H5'	2.21	0.40
23:DB:79:C:O2'	23:DB:346:A:C8	2.74	0.40
23:DB:125:A:OP2	49:D2:19:ARG:NE	2.53	0.40
23:DB:199:A:N6	23:DB:2433:A:H2'	2.37	0.40
23:DB:338:G:H2'	23:DB:338:G:N3	2.36	0.40
23:DB:396:G:O2'	23:DB:397:U:H5'	2.21	0.40
23:DB:444:C:H2'	23:DB:445:C:C6	2.56	0.40
23:DB:523:C:H2'	23:DB:524:G:H8	1.87	0.40
23:DB:616:A:H3'	23:DB:617:G:C8	2.50	0.40
23:DB:671:C:HO2'	27:DE:85:PHE:HZ	1.64	0.40
23:DB:812:C:H5''	23:DB:1250:G:O2'	2.21	0.40
23:DB:951:C:O2'	23:DB:952:G:H5'	2.21	0.40
23:DB:1027:A:C2	23:DB:2488:G:H5''	2.56	0.40
23:DB:1145:C:O2'	23:DB:1146:C:H5'	2.21	0.40
23:DB:1292:G:H2'	23:DB:1293:C:H6	1.84	0.40
23:DB:1309:G:C5'	49:D2:7:PRO:HB2	2.50	0.40
23:DB:1396:U:O2	23:DB:1396:U:H5'	2.21	0.40
23:DB:1658:C:OP1	26:DD:136:ASN:ND2	2.54	0.40
23:DB:1790:C:OP2	25:DC:219:VAL:HB	2.21	0.40
23:DB:1841:U:C2	23:DB:1842:G:C8	3.10	0.40
23:DB:1891:G:H2'	23:DB:1892:C:H6	1.86	0.40
23:DB:2484:G:H21	34:DM:118:LYS:HG2	1.86	0.40
23:DB:2558:C:O2'	23:DB:2559:C:H5'	2.22	0.40
23:DB:2648:G:H2'	23:DB:2649:C:H6	1.85	0.40
23:DB:2653:U:H3'	23:DB:2654:A:H2'	2.03	0.40
23:DB:2705:A:H2'	23:DB:2706:A:O4'	2.21	0.40
23:DB:2737:G:H2'	23:DB:2738:A:O4'	2.21	0.40
24:DV:52:ALA:O	34:DM:133:LYS:HG2	2.21	0.40
25:DC:19:VAL:CG1	25:DC:20:ASN:N	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:44:ASN:HA	25:DC:48:ILE:O	2.22	0.40
25:DC:125:PRO:HA	25:DC:192:GLY:HA2	2.02	0.40
26:DD:23:PRO:HB3	26:DD:188:LEU:HG	2.04	0.40
26:DD:29:VAL:CG2	26:DD:30:GLU:H	2.24	0.40
26:DD:164:GLN:H	26:DD:164:GLN:HG3	1.65	0.40
26:DD:196:ALA:O	26:DD:197:THR:C	2.60	0.40
27:DE:38:GLY:CA	27:DE:93:SER:HB3	2.51	0.40
28:DF:26:GLN:HG2	28:DF:26:GLN:O	2.20	0.40
28:DF:126:ASN:OD1	28:DF:126:ASN:N	2.54	0.40
29:DG:141:GLY:O	29:DG:144:ALA:HB3	2.22	0.40
30:DH:83:LYS:O	30:DH:90:LEU:HA	2.22	0.40
33:DL:47:ARG:HE	33:DL:47:ARG:HB3	1.56	0.40
33:DL:123:ARG:CB	33:DL:142:ILE:H	2.33	0.40
37:DP:56:SER:HA	37:DP:58:PHE:HE2	1.87	0.40
38:DQ:97:ILE:CD1	39:DR:13:ARG:HH21	2.34	0.40
39:DR:21:ARG:O	39:DR:22:LEU:O	2.40	0.40
39:DR:52:PRO:O	39:DR:53:PHE:C	2.59	0.40
39:DR:96:VAL:HG13	39:DR:98:ILE:HG12	2.03	0.40
40:DS:24:ILE:HD12	40:DS:35:ILE:HG21	2.03	0.40
41:DT:11:LEU:HB2	41:DT:12:ARG:H	1.55	0.40
41:DT:21:SER:HA	41:DT:24:MET:SD	2.61	0.40
42:DU:46:LYS:CB	42:DU:53:GLN:HB2	2.51	0.40
42:DU:71:ILE:HG12	42:DU:72:PHE:N	2.37	0.40
43:DW:43:LYS:HB3	43:DW:78:PHE:HB2	2.03	0.40
43:DW:59:PHE:N	43:DW:59:PHE:CD1	2.87	0.40
48:D1:44:GLN:HE21	48:D1:44:GLN:HB2	1.66	0.40
50:D3:56:LEU:HD12	50:D3:56:LEU:C	2.42	0.40
52:DI:102:ARG:HG3	52:DI:141:ASP:CA	2.51	0.40
52:DI:140:GLU:HG2	52:DI:140:GLU:O	2.22	0.40
1:AA:36:C:O2'	1:AA:37:U:H5'	2.20	0.40
1:AA:130:A:O4'	16:AQ:64:ARG:HD2	2.21	0.40
1:AA:335:C:H4'	1:AA:1434:A:H5'	2.03	0.40
1:AA:529:G:O6	11:AL:45:ASN:HA	2.22	0.40
1:AA:640:A:O2'	1:AA:641:U:H5'	2.22	0.40
1:AA:861:G:O2'	1:AA:862:C:H5'	2.20	0.40
1:AA:938:A:H1'	1:AA:1376:U:O2'	2.22	0.40
1:AA:956:U:H2'	1:AA:957:U:O4'	2.22	0.40
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.21	0.40
1:AA:1195:C:H2'	1:AA:1197:A:O4'	2.21	0.40
1:AA:1337:G:H5''	1:AA:1338:G:OP1	2.21	0.40
1:AA:1368:A:O2'	1:AA:1369:C:H5'	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:195:ASN:HB2	3:AD:198:LEU:HG	2.03	0.40
4:AE:51:LYS:O	4:AE:52:ALA:HB2	2.21	0.40
5:AF:29:ILE:HG23	5:AF:66:ALA:HB2	2.03	0.40
7:AH:12:ARG:HD3	7:AH:26:MET:HE2	2.04	0.40
8:AI:41:GLU:H	8:AI:44:ARG:CZ	2.34	0.40
8:AI:122:ARG:HG3	8:AI:122:ARG:HH11	1.87	0.40
10:AK:33:ILE:HG13	10:AK:73:VAL:HG21	2.01	0.40
10:AK:57:SER:O	10:AK:58:THR:C	2.60	0.40
10:AK:60:PHE:HA	10:AK:63:GLN:CD	2.42	0.40
14:AO:87:ARG:C	14:AO:88:ARG:HG2	2.41	0.40
16:AQ:26:ARG:NH2	16:AQ:28:VAL:HG11	2.36	0.40
16:AQ:30:HIS:N	16:AQ:35:LYS:H	2.19	0.40
17:AR:64:LEU:C	17:AR:66:LEU:N	2.74	0.40
18:AS:57:VAL:HG21	18:AS:74:ALA:CB	2.51	0.40
20:AB:37:VAL:CG2	20:AB:38:HIS:N	2.84	0.40
20:AB:131:LYS:O	20:AB:134:LEU:HB2	2.21	0.40
22:BA:92:C:H2'	22:BA:93:C:H6	1.85	0.40
23:BB:3:U:HO2'	23:BB:4:U:H6	1.68	0.40
23:BB:189:G:P	46:BZ:12:ILE:HG21	2.61	0.40
23:BB:215:G:O4'	23:BB:216:A:H4'	2.22	0.40
23:BB:359:G:C2'	23:BB:360:U:H5'	2.51	0.40
23:BB:364:C:O2'	23:BB:365:U:H5'	2.21	0.40
23:BB:588:U:O4	23:BB:670:A:H1'	2.22	0.40
23:BB:593:U:H2'	23:BB:594:U:C6	2.57	0.40
23:BB:688:U:O2'	23:BB:689:A:H5'	2.22	0.40
23:BB:841:G:O2'	23:BB:842:U:H5'	2.22	0.40
23:BB:958:U:O4	34:BM:18:ARG:HB2	2.21	0.40
23:BB:1059:G:O2'	52:BI:112:LYS:HE2	2.21	0.40
23:BB:1112:G:O3'	29:BG:2:ARG:HG2	2.22	0.40
23:BB:1341:G:H2'	23:BB:1397:U:HO2'	1.85	0.40
23:BB:1399:C:H2'	23:BB:1400:U:H6	1.87	0.40
23:BB:1524:G:O2'	23:BB:1525:A:H5'	2.21	0.40
23:BB:1684:G:H2'	23:BB:1685:C:H6	1.86	0.40
23:BB:2057:G:O4'	47:B0:2:VAL:HG11	2.22	0.40
23:BB:2089:C:C2	23:BB:2090:A:C8	3.09	0.40
23:BB:2291:U:OP1	23:BB:2380:C:O2'	2.38	0.40
23:BB:2479:U:H6	23:BB:2479:U:O5'	2.05	0.40
24:BV:62:THR:HG22	24:BV:71:LYS:HG2	2.02	0.40
24:BV:63:ILE:HD12	24:BV:72:VAL:HG11	2.04	0.40
25:BC:207:ALA:O	25:BC:208:GLY:C	2.59	0.40
25:BC:264:LYS:O	25:BC:266:ILE:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:13:ARG:NH2	37:BP:12:MET:SD	2.95	0.40
26:BD:152:PRO:C	26:BD:153:GLY:O	2.59	0.40
29:BG:26:LYS:HG2	29:BG:31:GLU:CD	2.42	0.40
29:BG:84:LYS:HA	29:BG:84:LYS:HZ3	1.86	0.40
31:BJ:56:VAL:HB	31:BJ:124:VAL:HA	2.03	0.40
31:BJ:128:ASN:ND2	31:BJ:129:GLU:H	2.19	0.40
32:BK:60:ALA:HA	32:BK:87:LEU:CG	2.51	0.40
32:BK:76:VAL:HG12	32:BK:77:ILE:N	2.36	0.40
35:BN:32:GLU:HG2	35:BN:114:GLU:HG3	2.04	0.40
36:BO:53:THR:O	36:BO:54:VAL:O	2.40	0.40
37:BP:111:GLU:H	37:BP:111:GLU:HG3	1.61	0.40
38:BQ:16:ILE:C	38:BQ:18:LYS:N	2.75	0.40
38:BQ:33:VAL:CG1	38:BQ:34:ALA:N	2.78	0.40
39:BR:101:ILE:HG22	39:BR:102:SER:H	1.86	0.40
43:BW:40:ARG:CZ	43:BW:68:PHE:O	2.69	0.40
45:BY:15:ARG:HE	45:BY:15:ARG:H	1.63	0.40
46:BZ:12:ILE:O	46:BZ:12:ILE:HD12	2.22	0.40
46:BZ:63:ARG:HH22	46:BZ:66:ILE:HD11	1.87	0.40
47:B0:35:GLU:C	47:B0:37:HIS:N	2.72	0.40
47:B0:47:TYR:HA	47:B0:52:LYS:HB2	2.03	0.40
48:B1:7:LYS:O	48:B1:7:LYS:HG3	2.20	0.40
48:B1:41:VAL:O	48:B1:42:VAL:HG23	2.21	0.40
50:B3:19:GLY:O	50:B3:20:GLY:C	2.60	0.40
52:BI:16:MET:N	52:BI:42:ASN:OD1	2.55	0.40
52:BI:73:PRO:HA	52:BI:74:PRO:HD3	1.98	0.40
52:BI:75:ALA:HB3	52:BI:131:THR:HG21	2.03	0.40
1:CA:224:U:H2'	1:CA:225:C:H6	1.85	0.40
1:CA:462:G:H2'	1:CA:463:U:C6	2.56	0.40
1:CA:501:C:O2'	1:CA:502:A:H5'	2.21	0.40
1:CA:598:U:H2'	1:CA:599:C:H6	1.86	0.40
1:CA:658:C:O2'	1:CA:659:U:H5'	2.22	0.40
1:CA:994:A:C2	13:CN:4:SER:HA	2.56	0.40
1:CA:1067:A:H3'	1:CA:1094:G:OP1	2.21	0.40
1:CA:1271:A:H2'	1:CA:1272:G:C8	2.57	0.40
1:CA:1279:G:N1	9:CJ:45:ARG:NH1	2.70	0.40
3:CD:18:LEU:HB3	3:CD:20:LEU:HG	2.03	0.40
7:CH:17:GLN:HG3	7:CH:71:VAL:HG21	2.03	0.40
7:CH:29:SER:O	7:CH:33:VAL:HG23	2.21	0.40
8:CI:89:TYR:O	8:CI:90:ASP:HB2	2.21	0.40
10:CK:34:THR:HG21	10:CK:38:GLY:HA2	2.04	0.40
12:CM:9:PRO:O	12:CM:44:ILE:HG12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CN:66:THR:CG2	13:CN:82:LYS:HD3	2.51	0.40
16:CQ:45:VAL:HG12	16:CQ:46:HIS:O	2.21	0.40
20:CB:123:GLY:O	20:CB:124:THR:HB	2.22	0.40
22:DA:53:A:O2'	22:DA:54:G:H5'	2.20	0.40
22:DA:92:C:H2'	22:DA:93:C:C6	2.57	0.40
23:DB:205:G:O2'	23:DB:206:U:P	2.79	0.40
23:DB:222:A:H61	23:DB:232:G:H1'	1.85	0.40
23:DB:476:G:H22	23:DB:479:A:C5'	2.33	0.40
23:DB:565:C:H4'	23:DB:1253:A:C6	2.56	0.40
23:DB:631:A:O2'	33:DL:66:PHE:HB3	2.21	0.40
23:DB:856:G:H2'	23:DB:857:G:C8	2.56	0.40
23:DB:992:C:O2'	39:DR:91:GLN:HG2	2.21	0.40
23:DB:1120:G:H2'	23:DB:1121:C:H6	1.86	0.40
23:DB:1183:U:O2'	23:DB:1184:U:H5'	2.22	0.40
23:DB:1439:A:C8	23:DB:1440:U:C6	3.10	0.40
23:DB:1747:U:H2'	23:DB:1748:C:H6	1.87	0.40
23:DB:1789:A:C5'	25:DC:220:ARG:HH21	2.34	0.40
23:DB:1904:G:O2'	23:DB:1905:C:H5'	2.21	0.40
23:DB:2105:U:H2'	23:DB:2106:U:C6	2.57	0.40
25:DC:53:ILE:HG23	25:DC:216:ARG:HB2	2.03	0.40
27:DE:132:LYS:H	27:DE:134:LEU:CD1	2.34	0.40
28:DF:21:TYR:O	28:DF:22:ASN:HB2	2.21	0.40
28:DF:157:THR:C	28:DF:159:ALA:H	2.25	0.40
30:DH:12:LEU:C	30:DH:12:LEU:HD23	2.42	0.40
32:DK:39:ILE:CG2	32:DK:40:LYS:N	2.84	0.40
32:DK:68:GLY:HA2	32:DK:78:ARG:HA	2.02	0.40
34:DM:96:ILE:N	34:DM:96:ILE:HD12	2.36	0.40
34:DM:97:GLN:N	34:DM:98:PRO:HD3	2.36	0.40
36:DO:43:ASN:OD1	36:DO:44:GLY:N	2.54	0.40
36:DO:92:PHE:CE2	36:DO:94:ARG:HA	2.57	0.40
37:DP:47:ILE:HG21	37:DP:49:ILE:HG13	2.04	0.40
43:DW:47:GLY:HA2	43:DW:71:LYS:HB3	2.04	0.40
43:DW:67:LYS:CD	43:DW:71:LYS:H	2.35	0.40
43:DW:81:ILE:HG23	43:DW:83:ALA:N	2.28	0.40
45:DY:1:ALA:C	45:DY:43:ILE:HB	2.42	0.40
47:D0:23:ALA:C	47:D0:25:THR:H	2.24	0.40
49:D2:12:ARG:HA	49:D2:12:ARG:HD2	1.84	0.40
51:D4:18:LYS:O	51:D4:19:ARG:HG3	2.22	0.40
51:D4:30:GLU:CG	51:D4:33:HIS:HB2	2.52	0.40
52:DI:69:VAL:HG23	52:DI:69:VAL:O	2.22	0.40
1:AA:68:G:C4'	1:AA:171:A:H1'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:113:G:N2	1:AA:353:A:H8	2.20	0.40
1:AA:314:C:O2'	1:AA:315:A:H5'	2.21	0.40
1:AA:635:A:H2'	1:AA:636:U:C6	2.56	0.40
1:AA:645:G:O2'	1:AA:646:G:H5'	2.22	0.40
1:AA:754:C:O2	1:AA:754:C:H3'	2.21	0.40
1:AA:777:A:H2'	1:AA:778:G:H8	1.86	0.40
1:AA:829:G:H4'	20:AB:24:PRO:HG3	2.04	0.40
1:AA:1202:U:H2'	1:AA:1203:C:H5'	2.02	0.40
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.56	0.40
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.37	0.40
1:AA:1499:A:H2'	1:AA:1500:A:H8	1.87	0.40
4:AE:105:ILE:HB	4:AE:123:LEU:CA	2.42	0.40
10:AK:87:GLY:HA2	10:AK:113:THR:HG23	2.04	0.40
13:AN:19:TYR:HD2	13:AN:23:ARG:HD3	1.86	0.40
13:AN:65:GLN:HA	13:AN:65:GLN:HE21	1.86	0.40
15:AP:34:GLU:CD	15:AP:56:ARG:HD3	2.42	0.40
20:AB:42:LEU:HA	20:AB:45:THR:OG1	2.21	0.40
20:AB:73:ARG:C	20:AB:75:ALA:H	2.25	0.40
20:AB:138:ARG:HA	20:AB:141:GLU:CD	2.40	0.40
20:AB:209:VAL:O	20:AB:213:LEU:HB2	2.21	0.40
22:BA:45:A:O2'	22:BA:46:A:H5'	2.21	0.40
22:BA:73:A:N3	22:BA:73:A:H2'	2.36	0.40
23:BB:46:G:H2'	23:BB:47:C:C6	2.57	0.40
23:BB:64:A:H1'	41:BT:69:ARG:HE	1.86	0.40
23:BB:89:A:O2'	23:BB:90:U:H5'	2.21	0.40
23:BB:138:U:H5''	23:BB:139:U:OP1	2.21	0.40
23:BB:165:A:H2'	23:BB:166:U:H6	1.87	0.40
23:BB:259:G:H2'	23:BB:260:G:H8	1.87	0.40
23:BB:301:G:H5'	23:BB:334:C:O2'	2.21	0.40
23:BB:533:G:H5'	38:BQ:23:TYR:CE1	2.57	0.40
23:BB:782:A:H2	25:BC:228:ASP:HB3	1.87	0.40
23:BB:1132:U:C2	31:BJ:75:TYR:CE2	3.10	0.40
23:BB:1206:G:H2'	23:BB:1207:C:C6	2.56	0.40
23:BB:1212:G:O2'	23:BB:1236:G:N2	2.46	0.40
23:BB:1558:C:H4'	23:BB:1559:U:H5''	2.03	0.40
23:BB:1765:U:O2'	23:BB:1766:G:H5'	2.21	0.40
23:BB:2575:C:H1'	26:BD:147:GLY:O	2.21	0.40
24:BV:79:ARG:NH1	24:BV:86:LEU:HD11	2.35	0.40
25:BC:139:THR:HG22	25:BC:139:THR:O	2.22	0.40
27:BE:115:GLN:CA	27:BE:185:LYS:HE3	2.49	0.40
28:BF:87:LYS:HB3	28:BF:88:VAL:H	1.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:21:GLN:O	29:BG:36:LEU:HD13	2.21	0.40
29:BG:51:PHE:HE2	29:BG:63:GLN:NE2	2.18	0.40
29:BG:57:TYR:CZ	29:BG:59:ASP:HB2	2.56	0.40
30:BH:32:PRO:O	30:BH:34:GLY:N	2.47	0.40
32:BK:2:ILE:CD1	32:BK:8:LEU:HD21	2.52	0.40
35:BN:37:THR:OG1	35:BN:40:LYS:HD2	2.22	0.40
35:BN:41:ALA:C	35:BN:43:GLU:N	2.75	0.40
36:BO:30:ARG:O	36:BO:31:THR:O	2.39	0.40
37:BP:50:ARG:HD2	37:BP:62:LYS:HB2	2.03	0.40
38:BQ:12:ARG:O	38:BQ:15:LYS:HB3	2.21	0.40
38:BQ:101:ASP:O	38:BQ:104:ALA:HB3	2.22	0.40
38:BQ:108:LEU:HD22	38:BQ:108:LEU:HA	1.95	0.40
39:BR:33:VAL:O	39:BR:33:VAL:HG12	2.22	0.40
40:BS:1:MET:O	40:BS:3:THR:N	2.55	0.40
40:BS:2:GLU:OE1	40:BS:107:VAL:O	2.39	0.40
40:BS:34:ASP:CA	40:BS:37:THR:HG22	2.51	0.40
41:BT:34:VAL:HG11	41:BT:43:ILE:HD11	2.03	0.40
41:BT:39:THR:O	41:BT:43:ILE:HG12	2.22	0.40
41:BT:70:HIS:CG	41:BT:74:ILE:HB	2.56	0.40
42:BU:95:PHE:CD1	42:BU:102:ILE:HD12	2.56	0.40
43:BW:48:ALA:O	43:BW:49:ASN:ND2	2.54	0.40
43:BW:76:ARG:NH1	43:BW:76:ARG:HB3	2.37	0.40
47:B0:43:THR:O	47:B0:44:ALA:C	2.59	0.40
50:B3:11:LYS:HZ2	50:B3:11:LYS:HB2	1.86	0.40
1:CA:61:G:H2'	1:CA:62:U:O4'	2.21	0.40
1:CA:438:U:H2'	1:CA:494:G:O6	2.22	0.40
1:CA:449:G:H2'	1:CA:450:G:H8	1.86	0.40
1:CA:481:G:OP1	1:CA:481:G:H4'	2.21	0.40
1:CA:525:C:H2'	1:CA:526:C:C6	2.56	0.40
1:CA:797:C:O2'	1:CA:798:U:H5'	2.21	0.40
1:CA:812:G:O2'	1:CA:813:U:C6	2.72	0.40
1:CA:893:C:H2'	1:CA:894:G:C8	2.57	0.40
1:CA:1023:U:H2'	1:CA:1024:G:O4'	2.21	0.40
1:CA:1031:C:H5'	1:CA:1032:G:C4	2.57	0.40
1:CA:1236:A:H2'	1:CA:1237:C:C6	2.57	0.40
2:CC:143:LEU:H	2:CC:143:LEU:HD13	1.86	0.40
2:CC:192:TYR:N	2:CC:192:TYR:CD2	2.89	0.40
3:CD:120:LYS:O	3:CD:121:ALA:HB2	2.22	0.40
4:CE:105:ILE:HD12	4:CE:123:LEU:CD2	2.51	0.40
4:CE:137:ARG:HG2	4:CE:137:ARG:HH11	1.87	0.40
7:CH:94:VAL:CG2	7:CH:127:TYR:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:51:LEU:HD22	8:CI:56:MET:HG2	2.02	0.40
10:CK:108:ASN:OD1	10:CK:110:THR:HG23	2.21	0.40
11:CL:51:VAL:HG12	11:CL:52:CYS:N	2.35	0.40
11:CL:89:LEU:HD22	11:CL:89:LEU:N	2.36	0.40
12:CM:113:LYS:HD3	12:CM:113:LYS:N	2.37	0.40
18:CS:44:ILE:HG23	18:CS:63:ASP:HB2	2.03	0.40
21:CU:32:ARG:O	21:CU:32:ARG:HG2	2.21	0.40
23:DB:143:C:C2	41:DT:3:ARG:NH1	2.89	0.40
23:DB:222:A:N1	23:DB:233:A:H5''	2.37	0.40
23:DB:544:C:O2'	23:DB:545:U:O5'	2.39	0.40
23:DB:589:U:H4'	27:DE:87:ALA:CB	2.44	0.40
23:DB:635:C:O2'	23:DB:639:U:H5''	2.20	0.40
23:DB:691:C:O2'	23:DB:692:C:H5'	2.21	0.40
23:DB:725:G:H2'	23:DB:726:G:C1'	2.52	0.40
23:DB:1226:A:P	39:DR:78:ARG:HH22	2.44	0.40
23:DB:1916:A:H2'	23:DB:1917:U:C6	2.57	0.40
23:DB:2147:A:N3	23:DB:2147:A:C2'	2.84	0.40
23:DB:2257:U:C5'	43:DW:5:ALA:HB2	2.46	0.40
23:DB:2279:G:O6	43:DW:10:ARG:NH2	2.55	0.40
23:DB:2306:C:OP2	23:DB:2307:G:H8	2.04	0.40
23:DB:2347:C:OP1	23:DB:2347:C:H4'	2.21	0.40
23:DB:2350:C:O2'	23:DB:2351:G:H5'	2.21	0.40
23:DB:2377:A:H2'	23:DB:2378:A:C8	2.56	0.40
23:DB:2584:U:H6	23:DB:2584:U:O5'	2.05	0.40
23:DB:2633:G:H1'	26:DD:62:LYS:CG	2.45	0.40
23:DB:2758:A:H2'	23:DB:2759:G:H5'	2.03	0.40
25:DC:16:VAL:O	25:DC:16:VAL:CG1	2.69	0.40
26:DD:45:TYR:HB3	26:DD:46:ARG:H	1.73	0.40
27:DE:101:TYR:O	27:DE:105:LEU:HD22	2.21	0.40
27:DE:118:LEU:O	27:DE:119:ILE:HD13	2.21	0.40
28:DF:78:ILE:CG2	28:DF:82:TYR:HD1	2.35	0.40
28:DF:136:ILE:HG22	28:DF:137:PHE:N	2.37	0.40
28:DF:151:LEU:HG	28:DF:153:ILE:CD1	2.52	0.40
29:DG:154:GLU:OE2	29:DG:159:LYS:HB2	2.22	0.40
30:DH:88:GLY:O	30:DH:124:THR:HA	2.21	0.40
31:DJ:111:LYS:HE3	54:DJ:202:HOH:O	2.20	0.40
33:DL:27:LEU:HG	33:DL:28:GLY:O	2.21	0.40
35:DN:8:ARG:HD3	35:DN:43:GLU:OE2	2.20	0.40
35:DN:11:ASN:HD22	35:DN:11:ASN:HA	1.68	0.40
37:DP:34:GLY:O	37:DP:35:SER:HB3	2.20	0.40
37:DP:62:LYS:HD3	37:DP:74:GLN:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:74:GLN:O	37:DP:76:HIS:N	2.55	0.40
39:DR:21:ARG:HB3	39:DR:22:LEU:H	1.79	0.40
40:DS:84:ARG:NH2	40:DS:96:ILE:HD13	2.36	0.40
42:DU:49:PRO:CG	42:DU:50:ALA:H	2.34	0.40
42:DU:66:VAL:CG2	42:DU:67:SER:H	2.17	0.40
43:DW:30:VAL:CG1	43:DW:31:LEU:H	2.31	0.40
44:DX:9:LYS:HG2	44:DX:10:SER:H	1.85	0.40
48:D1:24:LYS:O	48:D1:24:LYS:HD3	2.22	0.40
48:D1:40:PRO:HD2	48:D1:45:HIS:HA	2.02	0.40
48:D1:49:LYS:HZ2	48:D1:50:GLU:N	2.20	0.40
52:DI:70:THR:O	52:DI:70:THR:HG23	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	AC	204/232 (88%)	135 (66%)	49 (24%)	20 (10%)	0	6
2	CC	204/232 (88%)	139 (68%)	45 (22%)	20 (10%)	0	6
3	AD	203/205 (99%)	131 (64%)	54 (27%)	18 (9%)	1	7
3	CD	203/205 (99%)	137 (68%)	49 (24%)	17 (8%)	1	8
4	AE	148/166 (89%)	107 (72%)	34 (23%)	7 (5%)	2	19
4	CE	148/166 (89%)	108 (73%)	31 (21%)	9 (6%)	1	13
5	AF	98/135 (73%)	69 (70%)	23 (24%)	6 (6%)	1	13
5	CF	98/135 (73%)	65 (66%)	23 (24%)	10 (10%)	0	6
6	AG	148/178 (83%)	103 (70%)	37 (25%)	8 (5%)	2	16
6	CG	150/178 (84%)	101 (67%)	36 (24%)	13 (9%)	1	8
7	AH	127/129 (98%)	105 (83%)	19 (15%)	3 (2%)	6	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	CH	127/129 (98%)	90 (71%)	31 (24%)	6 (5%)	2	19
8	AI	125/129 (97%)	87 (70%)	27 (22%)	11 (9%)	1	7
8	CI	125/129 (97%)	82 (66%)	33 (26%)	10 (8%)	1	9
9	AJ	96/103 (93%)	63 (66%)	21 (22%)	12 (12%)	0	4
9	CJ	96/103 (93%)	58 (60%)	21 (22%)	17 (18%)	0	1
10	AK	115/128 (90%)	75 (65%)	27 (24%)	13 (11%)	0	5
10	CK	115/128 (90%)	78 (68%)	27 (24%)	10 (9%)	1	8
11	AL	121/123 (98%)	74 (61%)	30 (25%)	17 (14%)	0	3
11	CL	121/123 (98%)	75 (62%)	28 (23%)	18 (15%)	0	2
12	AM	112/117 (96%)	87 (78%)	14 (12%)	11 (10%)	0	6
12	CM	111/117 (95%)	79 (71%)	17 (15%)	15 (14%)	0	3
13	AN	92/100 (92%)	59 (64%)	24 (26%)	9 (10%)	0	6
13	CN	92/100 (92%)	53 (58%)	24 (26%)	15 (16%)	0	2
14	AO	86/89 (97%)	66 (77%)	18 (21%)	2 (2%)	6	34
14	CO	86/89 (97%)	67 (78%)	16 (19%)	3 (4%)	3	26
15	AP	80/82 (98%)	59 (74%)	17 (21%)	4 (5%)	2	18
15	CP	78/82 (95%)	52 (67%)	19 (24%)	7 (9%)	1	7
16	AQ	78/83 (94%)	48 (62%)	26 (33%)	4 (5%)	2	17
16	CQ	79/83 (95%)	61 (77%)	13 (16%)	5 (6%)	1	13
17	AR	53/74 (72%)	27 (51%)	19 (36%)	7 (13%)	0	3
17	CR	53/74 (72%)	39 (74%)	11 (21%)	3 (6%)	1	15
18	AS	77/91 (85%)	57 (74%)	14 (18%)	6 (8%)	1	9
18	CS	78/91 (86%)	48 (62%)	17 (22%)	13 (17%)	0	2
19	AT	83/86 (96%)	69 (83%)	8 (10%)	6 (7%)	1	10
19	CT	83/86 (96%)	61 (74%)	16 (19%)	6 (7%)	1	10
20	AB	216/240 (90%)	145 (67%)	53 (24%)	18 (8%)	1	8
20	CB	216/240 (90%)	150 (69%)	36 (17%)	30 (14%)	0	3
21	AU	49/71 (69%)	22 (45%)	12 (24%)	15 (31%)	0	0
21	CU	49/71 (69%)	28 (57%)	15 (31%)	6 (12%)	0	4
24	BV	92/94 (98%)	62 (67%)	21 (23%)	9 (10%)	0	6
24	DV	92/94 (98%)	59 (64%)	27 (29%)	6 (6%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	BC	265/273 (97%)	103 (39%)	83 (31%)	79 (30%)	0	0
25	DC	265/273 (97%)	97 (37%)	93 (35%)	75 (28%)	0	0
26	BD	207/209 (99%)	90 (44%)	69 (33%)	48 (23%)	0	1
26	DD	207/209 (99%)	96 (46%)	67 (32%)	44 (21%)	0	1
27	BE	199/201 (99%)	98 (49%)	60 (30%)	41 (21%)	0	1
27	DE	199/201 (99%)	87 (44%)	63 (32%)	49 (25%)	0	0
28	BF	176/178 (99%)	95 (54%)	48 (27%)	33 (19%)	0	1
28	DF	176/178 (99%)	91 (52%)	53 (30%)	32 (18%)	0	1
29	BG	174/176 (99%)	118 (68%)	39 (22%)	17 (10%)	0	6
29	DG	174/176 (99%)	117 (67%)	39 (22%)	18 (10%)	0	6
30	BH	147/149 (99%)	87 (59%)	45 (31%)	15 (10%)	0	6
30	DH	147/149 (99%)	84 (57%)	44 (30%)	19 (13%)	0	3
31	BJ	138/142 (97%)	67 (49%)	42 (30%)	29 (21%)	0	1
31	DJ	138/142 (97%)	70 (51%)	36 (26%)	32 (23%)	0	1
32	BK	119/123 (97%)	71 (60%)	32 (27%)	16 (13%)	0	3
32	DK	119/123 (97%)	72 (60%)	25 (21%)	22 (18%)	0	1
33	BL	142/144 (99%)	60 (42%)	40 (28%)	42 (30%)	0	0
33	DL	142/144 (99%)	66 (46%)	37 (26%)	39 (28%)	0	0
34	BM	134/136 (98%)	69 (52%)	37 (28%)	28 (21%)	0	1
34	DM	134/136 (98%)	79 (59%)	31 (23%)	24 (18%)	0	1
35	BN	125/127 (98%)	73 (58%)	35 (28%)	17 (14%)	0	3
35	DN	125/127 (98%)	82 (66%)	32 (26%)	11 (9%)	1	7
36	BO	115/117 (98%)	64 (56%)	26 (23%)	25 (22%)	0	1
36	DO	115/117 (98%)	63 (55%)	33 (29%)	19 (16%)	0	2
37	BP	112/114 (98%)	39 (35%)	36 (32%)	37 (33%)	0	0
37	DP	112/114 (98%)	42 (38%)	38 (34%)	32 (29%)	0	0
38	BQ	115/117 (98%)	81 (70%)	22 (19%)	12 (10%)	0	6
38	DQ	115/117 (98%)	79 (69%)	22 (19%)	14 (12%)	0	4
39	BR	101/103 (98%)	44 (44%)	31 (31%)	26 (26%)	0	0
39	DR	101/103 (98%)	42 (42%)	31 (31%)	28 (28%)	0	0
40	BS	108/110 (98%)	63 (58%)	27 (25%)	18 (17%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	DS	108/110 (98%)	67 (62%)	20 (18%)	21 (19%)	0	1
41	BT	97/100 (97%)	42 (43%)	40 (41%)	15 (16%)	0	2
41	DT	97/100 (97%)	42 (43%)	32 (33%)	23 (24%)	0	1
42	BU	100/103 (97%)	33 (33%)	46 (46%)	21 (21%)	0	1
42	DU	100/103 (97%)	46 (46%)	41 (41%)	13 (13%)	0	3
43	BW	82/84 (98%)	29 (35%)	26 (32%)	27 (33%)	0	0
43	DW	82/84 (98%)	31 (38%)	30 (37%)	21 (26%)	0	0
44	BX	61/63 (97%)	28 (46%)	21 (34%)	12 (20%)	0	1
44	DX	61/63 (97%)	38 (62%)	15 (25%)	8 (13%)	0	3
45	BY	56/58 (97%)	29 (52%)	17 (30%)	10 (18%)	0	1
45	DY	56/58 (97%)	35 (62%)	17 (30%)	4 (7%)	1	11
46	BZ	68/70 (97%)	29 (43%)	26 (38%)	13 (19%)	0	1
46	DZ	68/70 (97%)	37 (54%)	22 (32%)	9 (13%)	0	3
47	B0	54/56 (96%)	30 (56%)	15 (28%)	9 (17%)	0	2
47	D0	54/56 (96%)	30 (56%)	15 (28%)	9 (17%)	0	2
48	B1	52/54 (96%)	19 (36%)	23 (44%)	10 (19%)	0	1
48	D1	52/54 (96%)	21 (40%)	22 (42%)	9 (17%)	0	2
49	B2	44/46 (96%)	23 (52%)	14 (32%)	7 (16%)	0	2
49	D2	44/46 (96%)	24 (54%)	12 (27%)	8 (18%)	0	1
50	B3	62/64 (97%)	30 (48%)	25 (40%)	7 (11%)	0	5
50	D3	62/64 (97%)	35 (56%)	17 (27%)	10 (16%)	0	2
51	B4	36/38 (95%)	18 (50%)	9 (25%)	9 (25%)	0	0
51	D4	36/38 (95%)	13 (36%)	11 (31%)	12 (33%)	0	0
52	BI	139/141 (99%)	124 (89%)	11 (8%)	4 (3%)	4	30
52	DI	139/141 (99%)	123 (88%)	11 (8%)	5 (4%)	3	25
All	All	11263/11902 (95%)	6645 (59%)	2936 (26%)	1682 (15%)	0	2

All (1682) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AC	2	GLN
2	AC	91	ALA
2	AC	153	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	AD	18	LEU
3	AD	31	CYS
3	AD	191	SER
5	AF	92	THR
8	AI	8	THR
8	AI	43	ALA
9	AJ	57	VAL
10	AK	56	LYS
10	AK	126	ARG
11	AL	10	PRO
11	AL	23	LEU
12	AM	6	ILE
12	AM	14	ALA
13	AN	52	ARG
20	AB	19	THR
20	AB	22	TRP
20	AB	163	ILE
20	AB	186	VAL
21	AU	14	ALA
21	AU	22	CYS
25	BC	21	PRO
25	BC	22	GLU
25	BC	28	PRO
25	BC	29	PHE
25	BC	31	PRO
25	BC	32	LEU
25	BC	47	ARG
25	BC	63	ILE
25	BC	64	VAL
25	BC	67	LYS
25	BC	68	ARG
25	BC	97	ASP
25	BC	103	ILE
25	BC	111	ALA
25	BC	114	GLN
25	BC	124	LYS
25	BC	125	PRO
25	BC	135	PRO
25	BC	141	HIS
25	BC	149	LYS
25	BC	156	SER
25	BC	176	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BC	209	ALA
25	BC	226	PRO
25	BC	227	VAL
25	BC	239	PHE
25	BC	246	PRO
25	BC	258	SER
25	BC	266	ILE
26	BD	9	VAL
26	BD	14	ILE
26	BD	18	ASP
26	BD	23	PRO
26	BD	27	ILE
26	BD	30	GLU
26	BD	33	ARG
26	BD	42	ASN
26	BD	59	ARG
26	BD	84	LEU
26	BD	92	VAL
26	BD	102	ALA
26	BD	114	LYS
26	BD	128	ARG
26	BD	130	GLN
26	BD	139	SER
26	BD	141	ARG
26	BD	154	LYS
26	BD	170	VAL
27	BE	4	VAL
27	BE	37	ALA
27	BE	44	ARG
27	BE	46	GLN
27	BE	49	ARG
27	BE	59	PRO
27	BE	84	THR
27	BE	86	ALA
27	BE	117	ARG
27	BE	129	PRO
27	BE	147	LEU
27	BE	148	ILE
27	BE	165	HIS
27	BE	196	VAL
28	BF	66	ILE
28	BF	73	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	BF	76	PHE
28	BF	131	VAL
28	BF	139	GLU
28	BF	149	ARG
28	BF	173	ASP
29	BG	6	ALA
29	BG	19	ASN
29	BG	91	VAL
30	BH	29	PHE
30	BH	38	PRO
30	BH	41	LYS
31	BJ	43	GLU
31	BJ	44	TYR
31	BJ	64	VAL
31	BJ	74	TYR
31	BJ	100	VAL
31	BJ	101	ILE
31	BJ	119	PHE
32	BK	35	VAL
32	BK	46	ALA
32	BK	53	LYS
32	BK	71	ARG
32	BK	72	PRO
32	BK	85	VAL
32	BK	89	ASN
32	BK	110	GLU
32	BK	120	PRO
33	BL	40	SER
33	BL	56	PRO
33	BL	62	PRO
33	BL	68	SER
33	BL	73	ILE
33	BL	85	VAL
33	BL	90	VAL
33	BL	117	THR
33	BL	118	THR
33	BL	119	PRO
33	BL	120	VAL
33	BL	126	ARG
33	BL	127	VAL
33	BL	141	LYS
34	BM	4	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	BM	14	LYS
34	BM	69	PRO
34	BM	77	PRO
34	BM	80	VAL
34	BM	98	PRO
34	BM	109	PRO
35	BN	37	THR
35	BN	89	SER
35	BN	94	TYR
35	BN	107	ASN
35	BN	113	ILE
35	BN	116	VAL
36	BO	37	ALA
36	BO	42	PRO
36	BO	54	VAL
37	BP	17	PRO
37	BP	23	ASP
37	BP	24	THR
37	BP	52	ARG
37	BP	55	HIS
37	BP	60	VAL
37	BP	72	VAL
37	BP	76	HIS
37	BP	85	VAL
37	BP	90	ALA
37	BP	94	ALA
38	BQ	34	ALA
38	BQ	91	ARG
39	BR	11	GLN
39	BR	15	SER
39	BR	17	GLY
39	BR	24	LYS
39	BR	47	VAL
39	BR	59	ILE
39	BR	74	ILE
39	BR	95	ASP
39	BR	101	ILE
40	BS	3	THR
40	BS	6	LYS
40	BS	67	ASP
40	BS	96	ILE
40	BS	103	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	BT	5	GLU
41	BT	34	VAL
42	BU	24	VAL
42	BU	54	PRO
42	BU	63	ALA
42	BU	71	ILE
42	BU	92	VAL
43	BW	11	ASN
43	BW	16	GLU
43	BW	18	LYS
43	BW	32	ALA
43	BW	44	PHE
43	BW	66	VAL
43	BW	75	ASN
43	BW	81	ILE
44	BX	7	ARG
44	BX	9	LYS
44	BX	33	ALA
45	BY	9	THR
45	BY	51	SER
46	BZ	7	PRO
46	BZ	8	LYS
46	BZ	40	CYS
46	BZ	58	ASP
46	BZ	60	PHE
47	B0	10	SER
47	B0	29	VAL
47	B0	35	GLU
48	B1	46	VAL
49	B2	4	THR
49	B2	44	VAL
50	B3	15	LYS
50	B3	23	HIS
50	B3	31	ILE
50	B3	57	VAL
50	B3	60	CYS
51	B4	5	ALA
51	B4	22	VAL
51	B4	24	ARG
51	B4	29	ALA
52	BI	18	ASN
2	CC	54	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	CD	22	SER
3	CD	24	VAL
3	CD	121	ALA
4	CE	23	THR
5	CF	98	GLU
6	CG	16	LYS
6	CG	62	GLU
7	CH	66	GLN
7	CH	82	LEU
9	CJ	34	ALA
9	CJ	57	VAL
9	CJ	61	ALA
9	CJ	67	ILE
11	CL	10	PRO
11	CL	32	VAL
11	CL	33	CYS
11	CL	43	LYS
11	CL	88	ASP
11	CL	101	LEU
11	CL	111	GLN
11	CL	117	GLY
11	CL	121	PRO
12	CM	105	ALA
13	CN	29	ILE
13	CN	50	LEU
14	CO	3	SER
14	CO	73	ASP
15	CP	28	ARG
16	CQ	56	ASP
18	CS	62	THR
19	CT	3	ILE
19	CT	4	LYS
20	CB	22	TRP
20	CB	72	LYS
20	CB	73	ARG
20	CB	124	THR
20	CB	206	ILE
20	CB	208	ALA
21	CU	37	TYR
25	DC	21	PRO
25	DC	22	GLU
25	DC	28	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	DC	29	PHE
25	DC	31	PRO
25	DC	47	ARG
25	DC	49	THR
25	DC	63	ILE
25	DC	64	VAL
25	DC	67	LYS
25	DC	97	ASP
25	DC	106	PRO
25	DC	113	ASP
25	DC	124	LYS
25	DC	125	PRO
25	DC	135	PRO
25	DC	149	LYS
25	DC	157	ALA
25	DC	163	ILE
25	DC	176	ARG
25	DC	194	VAL
25	DC	226	PRO
25	DC	227	VAL
25	DC	246	PRO
25	DC	266	ILE
26	DD	2	ILE
26	DD	9	VAL
26	DD	34	VAL
26	DD	39	ASP
26	DD	43	ASP
26	DD	73	VAL
26	DD	82	PHE
26	DD	84	LEU
26	DD	85	ALA
26	DD	89	GLU
26	DD	129	THR
26	DD	145	SER
26	DD	152	PRO
26	DD	155	VAL
26	DD	157	LYS
26	DD	160	LYS
26	DD	168	GLU
26	DD	193	VAL
26	DD	197	THR
26	DD	205	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	DE	17	THR
27	DE	35	TYR
27	DE	59	PRO
27	DE	86	ALA
27	DE	90	GLN
27	DE	147	LEU
28	DF	20	ASN
28	DF	46	LYS
28	DF	66	ILE
28	DF	73	VAL
28	DF	83	PRO
28	DF	104	THR
28	DF	132	ARG
28	DF	172	PHE
28	DF	173	ASP
28	DF	174	PHE
28	DF	176	PHE
29	DG	4	ALA
29	DG	8	VAL
29	DG	101	VAL
29	DG	175	LYS
30	DH	11	ASN
30	DH	38	PRO
30	DH	91	PHE
31	DJ	4	PHE
31	DJ	8	PRO
31	DJ	11	VAL
31	DJ	44	TYR
31	DJ	64	VAL
31	DJ	124	VAL
31	DJ	129	GLU
31	DJ	131	ASN
32	DK	17	ARG
32	DK	29	HIS
32	DK	71	ARG
32	DK	72	PRO
32	DK	120	PRO
33	DL	7	SER
33	DL	8	PRO
33	DL	9	ALA
33	DL	14	LYS
33	DL	15	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	DL	17	LYS
33	DL	40	SER
33	DL	54	GLN
33	DL	72	ALA
33	DL	77	ILE
33	DL	82	LEU
33	DL	92	LEU
33	DL	103	ILE
33	DL	111	ILE
33	DL	119	PRO
33	DL	121	THR
33	DL	126	ARG
33	DL	138	ALA
34	DM	16	ARG
34	DM	65	ILE
34	DM	72	PRO
34	DM	80	VAL
34	DM	84	LYS
34	DM	86	LYS
34	DM	101	VAL
34	DM	106	ASP
34	DM	109	PRO
35	DN	5	LYS
35	DN	58	ASP
35	DN	91	ALA
36	DO	27	VAL
36	DO	54	VAL
36	DO	90	VAL
37	DP	23	ASP
37	DP	24	THR
37	DP	39	LEU
37	DP	55	HIS
37	DP	60	VAL
37	DP	72	VAL
37	DP	75	THR
37	DP	76	HIS
37	DP	77	SER
37	DP	90	ALA
37	DP	110	LYS
37	DP	111	GLU
38	DQ	30	VAL
38	DQ	73	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	DQ	89	ILE
38	DQ	93	ILE
39	DR	5	PHE
39	DR	22	LEU
39	DR	27	ILE
39	DR	33	VAL
39	DR	64	VAL
39	DR	73	LYS
39	DR	75	VAL
39	DR	82	HIS
39	DR	83	TYR
39	DR	89	HIS
39	DR	93	PHE
39	DR	97	LYS
40	DS	4	ILE
40	DS	12	SER
40	DS	41	LYS
40	DS	103	ILE
41	DT	57	VAL
41	DT	62	VAL
41	DT	95	PHE
42	DU	63	ALA
42	DU	66	VAL
42	DU	75	ALA
42	DU	99	SER
43	DW	5	ALA
43	DW	10	ARG
43	DW	17	ALA
43	DW	30	VAL
43	DW	34	SER
43	DW	44	PHE
43	DW	45	HIS
43	DW	57	THR
43	DW	66	VAL
45	DY	37	ARG
46	DZ	3	LYS
46	DZ	10	GLU
46	DZ	21	VAL
46	DZ	28	VAL
47	D0	31	LYS
47	D0	35	GLU
47	D0	45	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	D1	12	SER
48	D1	23	THR
48	D1	46	VAL
49	D2	18	PHE
49	D2	44	VAL
51	D4	3	VAL
51	D4	19	ARG
51	D4	24	ARG
51	D4	26	ILE
52	DI	18	ASN
2	AC	19	SER
2	AC	25	THR
2	AC	54	ILE
2	AC	81	GLU
2	AC	100	ILE
2	AC	180	ASP
3	AD	25	ARG
3	AD	107	GLY
3	AD	152	SER
3	AD	172	VAL
3	AD	192	ALA
4	AE	20	VAL
4	AE	128	GLY
5	AF	62	MET
5	AF	64	VAL
5	AF	65	GLU
6	AG	84	TYR
6	AG	129	ASN
8	AI	57	VAL
8	AI	71	ILE
8	AI	108	ARG
9	AJ	75	ASP
9	AJ	92	LEU
10	AK	50	GLY
10	AK	53	GLY
10	AK	125	LYS
11	AL	19	ASN
11	AL	72	ASN
11	AL	84	GLY
12	AM	3	ILE
12	AM	66	GLY
12	AM	104	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	AN	51	PRO
13	AN	61	ASN
14	AO	73	ASP
15	AP	79	ASN
16	AQ	6	THR
16	AQ	34	GLY
17	AR	32	ILE
18	AS	5	LYS
19	AT	85	LEU
20	AB	18	GLN
21	AU	32	ARG
21	AU	34	ARG
24	BV	45	ASP
24	BV	64	VAL
24	BV	71	LYS
25	BC	53	ILE
25	BC	72	GLY
25	BC	90	ILE
25	BC	98	GLY
25	BC	107	LYS
25	BC	140	VAL
25	BC	143	VAL
25	BC	157	ALA
25	BC	163	ILE
25	BC	194	VAL
25	BC	196	ASN
25	BC	208	GLY
25	BC	255	LYS
26	BD	2	ILE
26	BD	34	VAL
26	BD	104	VAL
26	BD	129	THR
26	BD	155	VAL
26	BD	162	ALA
26	BD	180	VAL
26	BD	206	ALA
26	BD	207	VAL
27	BE	23	PHE
27	BE	52	VAL
27	BE	61	ARG
27	BE	62	GLN
27	BE	82	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	BE	90	GLN
27	BE	104	ALA
27	BE	120	VAL
27	BE	128	ALA
27	BE	171	ASP
27	BE	186	VAL
28	BF	3	LEU
28	BF	7	TYR
28	BF	19	PHE
28	BF	31	GLU
28	BF	46	LYS
28	BF	57	ALA
28	BF	67	THR
28	BF	75	GLY
28	BF	122	ASP
28	BF	136	ILE
28	BF	148	VAL
28	BF	150	GLY
28	BF	153	ILE
28	BF	162	ASP
28	BF	176	PHE
29	BG	25	ILE
29	BG	151	ARG
29	BG	159	LYS
29	BG	166	GLU
30	BH	8	LYS
31	BJ	4	PHE
31	BJ	6	ALA
31	BJ	50	THR
31	BJ	73	VAL
31	BJ	81	ILE
31	BJ	83	GLY
31	BJ	130	HIS
31	BJ	137	PRO
32	BK	25	LEU
32	BK	73	ASP
33	BL	29	LYS
33	BL	34	GLY
33	BL	48	ARG
33	BL	57	LEU
33	BL	77	ILE
33	BL	95	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	BL	128	THR
33	BL	140	GLY
34	BM	11	LYS
34	BM	36	VAL
34	BM	58	LYS
34	BM	86	LYS
34	BM	104	GLU
35	BN	5	LYS
35	BN	8	ARG
35	BN	11	ASN
35	BN	90	ARG
35	BN	112	TYR
36	BO	9	ARG
36	BO	21	LEU
36	BO	28	VAL
36	BO	32	PRO
36	BO	47	VAL
36	BO	49	VAL
36	BO	63	LYS
36	BO	95	SER
36	BO	115	LEU
37	BP	49	ILE
37	BP	78	PRO
37	BP	82	SER
37	BP	83	ILE
37	BP	91	VAL
37	BP	97	TYR
37	BP	102	ARG
37	BP	112	ARG
39	BR	25	LEU
39	BR	87	GLN
39	BR	97	LYS
39	BR	100	GLY
40	BS	5	ALA
40	BS	8	ARG
40	BS	29	VAL
41	BT	14	PRO
41	BT	30	ILE
41	BT	32	LEU
41	BT	63	VAL
41	BT	65	GLY
41	BT	81	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	BT	85	VAL
42	BU	21	ARG
42	BU	22	GLY
42	BU	64	ILE
42	BU	77	GLY
43	BW	2	HIS
43	BW	23	LYS
43	BW	37	VAL
43	BW	42	THR
43	BW	47	GLY
43	BW	49	ASN
43	BW	50	VAL
43	BW	52	CYS
43	BW	63	ASP
43	BW	65	LYS
43	BW	67	LYS
43	BW	68	PHE
43	BW	72	GLY
44	BX	16	THR
44	BX	30	MET
44	BX	40	SER
44	BX	46	VAL
46	BZ	4	ASP
46	BZ	9	TYR
46	BZ	26	SER
46	BZ	30	HIS
46	BZ	32	LEU
46	BZ	39	LYS
47	B0	39	ARG
47	B0	51	ARG
48	B1	5	ARG
48	B1	35	LEU
49	B2	43	THR
50	B3	16	THR
51	B4	3	VAL
51	B4	17	VAL
2	CC	25	THR
2	CC	63	ILE
2	CC	95	GLY
2	CC	128	MET
2	CC	145	ALA
2	CC	153	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	CD	47	LEU
3	CD	49	ASP
3	CD	120	LYS
3	CD	169	TRP
3	CD	191	SER
4	CE	15	ILE
4	CE	20	VAL
5	CF	95	ALA
6	CG	97	ALA
6	CG	130	LYS
7	CH	69	ALA
7	CH	122	GLY
8	CI	34	LEU
8	CI	55	ASP
9	CJ	33	GLY
9	CJ	37	ARG
9	CJ	60	ASP
9	CJ	68	ARG
9	CJ	74	VAL
9	CJ	94	ALA
10	CK	14	GLN
10	CK	17	ASP
10	CK	52	ARG
10	CK	53	GLY
10	CK	108	ASN
11	CL	13	ARG
11	CL	24	GLU
11	CL	73	LEU
11	CL	97	VAL
11	CL	104	SER
12	CM	3	ILE
12	CM	21	ILE
12	CM	23	GLY
12	CM	62	PHE
12	CM	65	GLU
13	CN	51	PRO
13	CN	70	HIS
15	CP	46	LYS
15	CP	47	GLU
15	CP	79	ASN
16	CQ	69	THR
17	CR	21	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
18	CS	8	PRO
18	CS	22	VAL
18	CS	27	LYS
20	CB	18	GLN
20	CB	44	LYS
20	CB	97	GLY
20	CB	153	MET
20	CB	188	THR
21	CU	22	CYS
21	CU	23	GLU
24	DV	14	LYS
24	DV	45	ASP
24	DV	70	ILE
25	DC	12	ARG
25	DC	39	SER
25	DC	53	ILE
25	DC	58	LYS
25	DC	65	ASP
25	DC	72	GLY
25	DC	88	ALA
25	DC	90	ILE
25	DC	93	VAL
25	DC	103	ILE
25	DC	115	ILE
25	DC	156	SER
25	DC	172	THR
25	DC	208	GLY
25	DC	210	ALA
25	DC	252	LYS
25	DC	257	ARG
25	DC	259	ASN
26	DD	45	TYR
26	DD	69	ALA
26	DD	77	ARG
26	DD	140	HIS
26	DD	141	ARG
26	DD	147	GLY
27	DE	5	LEU
27	DE	13	THR
27	DE	41	GLN
27	DE	42	GLY
27	DE	43	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	DE	56	GLY
27	DE	66	GLY
27	DE	67	ARG
27	DE	72	SER
27	DE	84	THR
27	DE	85	PHE
27	DE	135	ALA
27	DE	148	ILE
27	DE	156	ASN
27	DE	162	ARG
27	DE	192	ALA
28	DF	10	GLU
28	DF	22	ASN
28	DF	101	ARG
28	DF	122	ASP
28	DF	166	ARG
29	DG	2	ARG
29	DG	5	LYS
29	DG	59	ASP
29	DG	168	VAL
29	DG	174	LYS
30	DH	25	TYR
30	DH	29	PHE
30	DH	30	LEU
30	DH	121	VAL
31	DJ	43	GLU
31	DJ	65	THR
31	DJ	77	HIS
31	DJ	78	THR
31	DJ	81	ILE
31	DJ	128	ASN
31	DJ	135	GLN
32	DK	3	GLN
32	DK	52	VAL
32	DK	84	CYS
32	DK	85	VAL
32	DK	86	LEU
32	DK	97	THR
32	DK	110	GLU
33	DL	16	GLY
33	DL	27	LEU
33	DL	34	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	DL	38	GLN
33	DL	51	GLU
33	DL	78	ARG
33	DL	108	ALA
33	DL	116	VAL
33	DL	127	VAL
33	DL	142	ILE
34	DM	55	ARG
34	DM	89	VAL
34	DM	102	LEU
34	DM	132	THR
35	DN	7	GLY
36	DO	22	GLY
36	DO	84	GLU
36	DO	87	ILE
37	DP	19	PHE
37	DP	26	GLU
37	DP	41	ALA
37	DP	49	ILE
37	DP	68	GLY
37	DP	82	SER
37	DP	97	TYR
37	DP	105	LYS
38	DQ	6	GLY
38	DQ	21	LYS
38	DQ	31	TYR
38	DQ	87	VAL
38	DQ	88	GLU
39	DR	3	ALA
39	DR	4	VAL
39	DR	10	LYS
39	DR	11	GLN
39	DR	87	GLN
39	DR	98	ILE
40	DS	2	GLU
40	DS	9	HIS
40	DS	26	GLY
40	DS	44	ALA
40	DS	64	ALA
40	DS	69	LEU
40	DS	108	SER
41	DT	63	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	DT	71	GLY
41	DT	78	SER
41	DT	85	VAL
42	DU	24	VAL
42	DU	58	VAL
42	DU	64	ILE
43	DW	4	LYS
43	DW	58	LEU
43	DW	62	ALA
43	DW	63	ASP
43	DW	75	ASN
43	DW	77	LYS
43	DW	80	SER
44	DX	33	ALA
44	DX	61	ALA
46	DZ	31	ASP
46	DZ	40	CYS
47	D0	20	ALA
47	D0	36	LYS
48	D1	4	ILE
48	D1	16	THR
48	D1	30	PRO
48	D1	38	PHE
48	D1	47	ILE
49	D2	5	PHE
49	D2	7	PRO
49	D2	17	GLY
50	D3	29	ARG
51	D4	10	LEU
51	D4	27	CYS
51	D4	31	PRO
2	AC	59	PRO
2	AC	78	LYS
2	AC	136	ALA
3	AD	27	ILE
3	AD	28	ASP
3	AD	43	ARG
3	AD	151	GLN
3	AD	177	MET
4	AE	43	GLY
5	AF	94	HIS
6	AG	89	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	AI	44	ARG
8	AI	55	ASP
8	AI	127	SER
9	AJ	62	ARG
9	AJ	93	ALA
10	AK	70	ALA
10	AK	77	GLY
10	AK	91	GLY
11	AL	13	ARG
11	AL	60	PHE
11	AL	122	LYS
12	AM	7	ASN
12	AM	22	TYR
12	AM	65	GLU
12	AM	98	GLY
13	AN	21	ALA
13	AN	74	ARG
13	AN	80	ARG
16	AQ	5	ARG
17	AR	21	ASP
17	AR	71	ASP
19	AT	59	ARG
20	AB	20	ARG
20	AB	76	SER
21	AU	6	ARG
21	AU	24	LYS
21	AU	25	ALA
21	AU	40	PRO
24	BV	54	ALA
25	BC	4	LYS
25	BC	51	ARG
25	BC	56	GLY
25	BC	58	LYS
25	BC	59	GLN
25	BC	65	ASP
25	BC	91	ALA
25	BC	93	VAL
25	BC	142	ASN
25	BC	151	GLY
25	BC	164	VAL
25	BC	165	ALA
25	BC	173	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BC	214	GLY
26	BD	69	ALA
26	BD	99	GLU
26	BD	140	HIS
26	BD	156	PHE
26	BD	169	ARG
26	BD	174	SER
26	BD	185	ASN
26	BD	190	LYS
26	BD	193	VAL
26	BD	205	PRO
27	BE	54	GLY
27	BE	68	ALA
27	BE	69	ARG
27	BE	93	SER
27	BE	127	GLU
27	BE	191	ASP
28	BF	10	GLU
28	BF	14	LYS
28	BF	81	GLY
28	BF	83	PRO
28	BF	87	LYS
28	BF	114	ARG
29	BG	45	ALA
29	BG	127	GLN
30	BH	20	ASN
30	BH	37	VAL
30	BH	44	ILE
30	BH	127	GLU
31	BJ	46	PRO
31	BJ	121	LYS
31	BJ	127	GLY
31	BJ	138	GLN
32	BK	3	GLN
32	BK	121	GLU
33	BL	27	LEU
33	BL	64	PHE
33	BL	82	LEU
33	BL	84	LYS
33	BL	91	ASP
33	BL	94	THR
33	BL	143	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	BM	12	MET
34	BM	72	PRO
34	BM	81	ARG
34	BM	97	GLN
34	BM	105	MET
34	BM	131	VAL
35	BN	104	ALA
35	BN	115	LEU
36	BO	7	ARG
36	BO	38	GLN
36	BO	57	ALA
36	BO	68	LYS
37	BP	12	MET
37	BP	25	VAL
37	BP	39	LEU
37	BP	56	SER
37	BP	81	ASP
37	BP	105	LYS
38	BQ	23	TYR
38	BQ	26	ALA
38	BQ	73	ILE
38	BQ	88	GLU
38	BQ	92	LYS
39	BR	7	SER
39	BR	10	LYS
39	BR	29	THR
39	BR	37	GLU
39	BR	41	ILE
39	BR	72	VAL
39	BR	73	LYS
39	BR	98	ILE
40	BS	11	ARG
40	BS	12	SER
40	BS	104	THR
41	BT	13	ALA
41	BT	15	HIS
41	BT	74	ILE
41	BT	96	VAL
42	BU	14	THR
42	BU	35	VAL
42	BU	39	ASN
42	BU	59	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	BU	60	LYS
42	BU	72	PHE
43	BW	5	ALA
43	BW	77	LYS
44	BX	4	LYS
44	BX	28	LEU
45	BY	2	LYS
45	BY	10	ARG
45	BY	12	ALA
45	BY	14	GLY
45	BY	16	LEU
45	BY	57	GLU
48	B1	16	THR
48	B1	43	ARG
48	B1	47	ILE
50	B3	26	ALA
52	BI	23	VAL
2	CC	3	LYS
2	CC	65	VAL
2	CC	167	TYR
2	CC	180	ASP
3	CD	14	GLU
3	CD	34	GLU
5	CF	5	GLU
5	CF	89	VAL
6	CG	3	ARG
6	CG	78	ARG
6	CG	99	ALA
6	CG	112	ASP
6	CG	113	LYS
8	CI	121	ARG
9	CJ	75	ASP
9	CJ	77	VAL
9	CJ	93	ALA
10	CK	88	PRO
11	CL	98	ARG
12	CM	7	ASN
13	CN	31	SER
13	CN	52	ARG
13	CN	69	PRO
13	CN	73	LEU
14	CO	19	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	CP	27	ALA
15	CP	44	SER
16	CQ	28	VAL
16	CQ	47	ASP
17	CR	20	ILE
18	CS	33	TRP
18	CS	63	ASP
19	CT	68	LYS
20	CB	14	HIS
20	CB	15	PHE
20	CB	19	THR
20	CB	20	ARG
20	CB	43	GLU
20	CB	86	CYS
20	CB	94	ARG
20	CB	95	TRP
20	CB	114	LYS
20	CB	204	ASP
21	CU	17	ARG
25	DC	4	LYS
25	DC	109	LEU
25	DC	112	GLY
25	DC	121	ALA
25	DC	152	GLN
25	DC	165	ALA
25	DC	175	LEU
25	DC	209	ALA
25	DC	224	MET
25	DC	239	PHE
25	DC	243	PRO
26	DD	25	THR
26	DD	29	VAL
26	DD	47	ALA
26	DD	174	SER
26	DD	182	ALA
26	DD	187	LEU
27	DE	26	ALA
27	DE	36	ALA
27	DE	48	THR
27	DE	65	THR
27	DE	110	SER
27	DE	139	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	DE	154	ASP
27	DE	157	LEU
27	DE	168	ASP
27	DE	188	MET
27	DE	195	GLN
28	DF	43	ILE
28	DF	49	LEU
28	DF	108	PRO
28	DF	109	ARG
28	DF	114	ARG
28	DF	151	LEU
29	DG	6	ALA
29	DG	34	ARG
29	DG	45	ALA
29	DG	58	ALA
30	DH	32	PRO
30	DH	37	VAL
30	DH	66	ASN
30	DH	82	SER
31	DJ	46	PRO
31	DJ	53	TYR
31	DJ	58	ASN
31	DJ	60	ASP
31	DJ	125	TYR
31	DJ	127	GLY
32	DK	54	LYS
32	DK	83	ALA
32	DK	89	ASN
33	DL	5	THR
33	DL	13	LYS
33	DL	55	MET
33	DL	57	LEU
33	DL	107	PHE
34	DM	12	MET
34	DM	85	GLY
34	DM	104	GLU
36	DO	18	LEU
36	DO	23	ALA
36	DO	34	HIS
36	DO	52	SER
36	DO	63	LYS
36	DO	100	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	DP	17	PRO
37	DP	91	VAL
37	DP	112	ARG
38	DQ	86	SER
39	DR	29	THR
39	DR	40	MET
40	DS	8	ARG
40	DS	92	ARG
41	DT	15	HIS
41	DT	16	VAL
41	DT	32	LEU
41	DT	36	LYS
41	DT	37	ASP
41	DT	39	THR
41	DT	52	GLU
41	DT	60	THR
42	DU	30	SER
42	DU	93	ARG
43	DW	23	LYS
44	DX	8	GLU
44	DX	28	LEU
44	DX	31	GLN
45	DY	5	LYS
45	DY	12	ALA
46	DZ	2	LYS
46	DZ	35	ASP
47	D0	17	SER
47	D0	51	ARG
50	D3	10	ALA
50	D3	30	HIS
50	D3	47	ALA
51	D4	8	LYS
51	D4	28	SER
52	DI	23	VAL
2	AC	65	VAL
2	AC	186	SER
3	AD	29	THR
4	AE	25	LYS
4	AE	34	ALA
5	AF	54	LEU
6	AG	18	GLY
6	AG	57	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
6	AG	75	LYS
6	AG	86	VAL
7	AH	46	GLU
8	AI	67	LYS
9	AJ	56	HIS
9	AJ	61	ALA
9	AJ	74	VAL
10	AK	57	SER
10	AK	108	ASN
11	AL	14	LYS
11	AL	15	VAL
11	AL	47	ALA
11	AL	56	LEU
11	AL	67	GLY
11	AL	120	ARG
13	AN	31	SER
13	AN	94	GLY
15	AP	42	ILE
17	AR	22	TYR
17	AR	47	ARG
18	AS	27	LYS
18	AS	36	ARG
18	AS	65	MET
20	AB	11	ALA
20	AB	41	ASN
20	AB	88	GLN
20	AB	200	PRO
21	AU	26	GLY
21	AU	33	ARG
21	AU	36	PHE
21	AU	37	TYR
21	AU	41	THR
25	BC	61	TYR
25	BC	66	PHE
25	BC	224	MET
25	BC	230	PRO
25	BC	231	HIS
25	BC	251	THR
25	BC	265	PHE
26	BD	73	VAL
26	BD	125	TRP
26	BD	201	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	BE	39	ALA
27	BE	53	THR
27	BE	112	LEU
27	BE	123	LYS
27	BE	153	LEU
28	BF	175	PRO
29	BG	11	PRO
29	BG	155	PRO
30	BH	12	LEU
30	BH	42	LYS
30	BH	118	PRO
31	BJ	11	VAL
31	BJ	85	LYS
33	BL	23	ILE
33	BL	30	THR
33	BL	33	ARG
33	BL	35	HIS
34	BM	3	GLN
34	BM	21	ALA
34	BM	59	ARG
34	BM	70	ASP
34	BM	71	LYS
34	BM	120	ALA
34	BM	127	LYS
35	BN	20	MET
36	BO	19	GLN
36	BO	55	GLU
36	BO	80	GLU
37	BP	26	GLU
37	BP	79	VAL
37	BP	96	LEU
37	BP	98	TYR
38	BQ	21	LYS
38	BQ	24	TYR
39	BR	21	ARG
39	BR	55	ASP
40	BS	13	SER
40	BS	28	LYS
40	BS	34	ASP
40	BS	71	VAL
40	BS	80	PRO
41	BT	61	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	BT	66	LYS
42	BU	7	ASP
42	BU	18	LYS
43	BW	6	GLY
43	BW	38	ARG
44	BX	24	GLU
44	BX	43	LEU
46	BZ	42	PRO
47	B0	53	VAL
48	B1	21	THR
49	B2	36	ALA
51	B4	7	VAL
51	B4	20	ASP
52	BI	49	GLU
2	CC	50	SER
2	CC	59	PRO
2	CC	110	LEU
3	CD	166	LYS
3	CD	203	TYR
4	CE	78	GLY
4	CE	87	VAL
4	CE	107	GLY
4	CE	146	MET
6	CG	129	ASN
7	CH	30	LYS
7	CH	94	VAL
8	CI	24	ASN
8	CI	57	VAL
8	CI	58	GLU
8	CI	90	ASP
9	CJ	56	HIS
9	CJ	58	ASN
10	CK	49	SER
10	CK	71	ASP
11	CL	23	LEU
12	CM	14	ALA
12	CM	22	TYR
12	CM	97	ARG
12	CM	102	LYS
12	CM	104	ASN
13	CN	18	LYS
13	CN	21	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
17	CR	63	TYR
18	CS	5	LYS
19	CT	67	HIS
20	CB	96	LEU
20	CB	128	LEU
20	CB	167	HIS
20	CB	193	ASP
24	DV	16	ALA
24	DV	71	LYS
25	DC	25	LYS
25	DC	32	LEU
25	DC	33	LEU
25	DC	56	GLY
25	DC	60	ALA
25	DC	68	ARG
25	DC	85	ASN
25	DC	161	VAL
25	DC	184	GLU
25	DC	199	HIS
25	DC	225	ASN
25	DC	235	GLU
25	DC	258	SER
25	DC	260	LYS
25	DC	265	PHE
26	DD	3	GLY
26	DD	32	ASN
26	DD	52	THR
26	DD	126	ASN
26	DD	173	GLN
27	DE	18	THR
27	DE	30	GLN
27	DE	45	ALA
27	DE	50	ALA
27	DE	160	ALA
28	DF	138	PRO
29	DG	11	PRO
29	DG	107	GLY
30	DH	86	ASP
30	DH	87	GLU
30	DH	92	GLY
31	DJ	50	THR
31	DJ	67	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DJ	75	TYR
31	DJ	85	LYS
31	DJ	123	LYS
31	DJ	137	PRO
32	DK	113	MET
32	DK	121	GLU
33	DL	109	LYS
35	DN	100	CYS
35	DN	113	ILE
36	DO	2	ASP
36	DO	28	VAL
36	DO	38	GLN
36	DO	42	PRO
37	DP	79	VAL
37	DP	96	LEU
38	DQ	85	ALA
38	DQ	101	ASP
39	DR	81	LYS
39	DR	88	GLY
40	DS	46	LEU
40	DS	80	PRO
40	DS	87	PRO
40	DS	99	ARG
41	DT	79	ASP
41	DT	80	TRP
41	DT	86	THR
42	DU	9	GLU
42	DU	25	LYS
42	DU	48	VAL
43	DW	55	ASP
46	DZ	19	GLY
47	D0	39	ARG
48	D1	50	GLU
49	D2	25	LYS
50	D3	32	LEU
50	D3	33	THR
50	D3	37	THR
52	DI	6	ALA
2	AC	14	VAL
2	AC	145	ALA
2	AC	167	TYR
4	AE	146	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	AI	122	ARG
9	AJ	36	VAL
10	AK	127	ARG
11	AL	42	LYS
11	AL	121	PRO
12	AM	105	ALA
14	AO	17	ASP
16	AQ	69	THR
17	AR	20	ILE
18	AS	8	PRO
19	AT	5	SER
19	AT	46	ALA
20	AB	24	PRO
20	AB	27	LYS
20	AB	87	ASP
20	AB	94	ARG
24	BV	55	GLU
25	BC	50	THR
25	BC	85	ASN
25	BC	115	ILE
25	BC	218	THR
25	BC	225	ASN
25	BC	236	GLY
26	BD	52	THR
26	BD	95	SER
26	BD	101	PHE
26	BD	189	VAL
28	BF	34	THR
28	BF	36	ASN
28	BF	88	VAL
29	BG	42	VAL
31	BJ	72	LYS
31	BJ	97	PRO
31	BJ	132	HIS
33	BL	83	ALA
33	BL	92	LEU
33	BL	104	GLN
33	BL	113	ALA
33	BL	136	GLU
35	BN	56	LYS
35	BN	102	PHE
36	BO	52	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BO	90	VAL
37	BP	3	ILE
37	BP	19	PHE
37	BP	59	THR
37	BP	92	ARG
37	BP	110	LYS
38	BQ	93	ILE
39	BR	77	PHE
40	BS	69	LEU
40	BS	99	ARG
42	BU	56	GLY
42	BU	84	PHE
44	BX	35	GLY
45	BY	17	PRO
45	BY	53	MET
46	BZ	66	ILE
47	B0	5	ASN
49	B2	8	SER
52	BI	14	ALA
2	CC	53	ARG
3	CD	25	ARG
3	CD	119	HIS
5	CF	35	LYS
5	CF	38	ARG
5	CF	41	ASP
5	CF	85	ILE
5	CF	92	THR
6	CG	55	LYS
6	CG	66	GLU
9	CJ	36	VAL
12	CM	49	GLU
12	CM	100	ARG
13	CN	43	ALA
13	CN	61	ASN
13	CN	74	ARG
15	CP	55	ASP
18	CS	13	HIS
18	CS	29	PRO
18	CS	53	GLY
18	CS	61	VAL
20	CB	172	ILE
20	CB	205	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	DV	52	ALA
25	DC	114	GLN
26	DD	48	ILE
26	DD	95	SER
26	DD	149	ASN
26	DD	203	VAL
27	DE	6	LYS
27	DE	11	ALA
27	DE	57	LYS
27	DE	58	LYS
27	DE	113	VAL
27	DE	130	LYS
27	DE	172	ALA
27	DE	190	ALA
27	DE	193	VAL
28	DF	8	LYS
28	DF	88	VAL
28	DF	134	GLN
28	DF	149	ARG
28	DF	153	ILE
28	DF	177	ARG
29	DG	40	VAL
30	DH	35	LYS
30	DH	68	ARG
30	DH	114	GLU
31	DJ	41	LYS
31	DJ	79	GLY
31	DJ	111	LYS
32	DK	14	SER
33	DL	23	ILE
33	DL	118	THR
34	DM	17	ASN
34	DM	71	LYS
34	DM	77	PRO
35	DN	11	ASN
35	DN	111	ALA
36	DO	107	ALA
37	DP	18	SER
37	DP	71	ARG
37	DP	85	VAL
38	DQ	78	PHE
39	DR	59	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	DR	71	LYS
39	DR	79	ARG
40	DS	22	ASP
40	DS	23	LEU
42	DU	28	LEU
43	DW	53	GLY
43	DW	61	LYS
43	DW	65	LYS
44	DX	20	ASN
44	DX	38	GLN
44	DX	52	ARG
49	D2	15	SER
50	D3	13	PHE
50	D3	60	CYS
51	D4	11	CYS
51	D4	17	VAL
52	DI	14	ALA
2	AC	26	LYS
2	AC	112	ALA
3	AD	6	PRO
4	AE	107	GLY
6	AG	6	ILE
9	AJ	95	GLY
10	AK	106	ILE
13	AN	33	VAL
18	AS	39	ILE
20	AB	205	ALA
21	AU	13	VAL
25	BC	14	HIS
25	BC	17	LYS
25	BC	30	ALA
25	BC	155	ARG
26	BD	175	LEU
27	BE	24	ASN
27	BE	199	MET
29	BG	32	LEU
29	BG	59	ASP
30	BH	75	LEU
31	BJ	84	ILE
33	BL	37	GLY
38	BQ	18	LYS
39	BR	4	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	B1	38	PHE
49	B2	6	GLN
2	CC	26	LYS
2	CC	144	GLY
3	CD	68	GLU
4	CE	17	VAL
5	CF	53	LYS
11	CL	99	GLY
13	CN	62	ARG
19	CT	44	ALA
19	CT	76	ALA
20	CB	200	PRO
26	DD	76	GLY
26	DD	87	GLY
26	DD	207	VAL
28	DF	84	ILE
28	DF	120	SER
29	DG	166	GLU
30	DH	31	VAL
32	DK	10	VAL
32	DK	108	ARG
34	DM	13	HIS
34	DM	111	GLU
35	DN	8	ARG
35	DN	41	ALA
35	DN	102	PHE
36	DO	85	LYS
37	DP	54	LEU
37	DP	80	VAL
40	DS	13	SER
41	DT	59	ASN
41	DT	66	LYS
41	DT	67	VAL
45	DY	30	ARG
50	D3	49	VAL
2	AC	90	VAL
3	AD	63	ILE
3	AD	175	GLY
10	AK	119	GLY
15	AP	41	PRO
20	AB	157	PRO
24	BV	72	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BV	84	PRO
25	BC	16	VAL
27	BE	113	VAL
29	BG	99	GLY
34	BM	26	VAL
34	BM	89	VAL
35	BN	39	PRO
37	BP	21	PRO
37	BP	69	VAL
38	BQ	89	ILE
49	B2	9	VAL
2	CC	107	LYS
8	CI	9	GLY
20	CB	163	ILE
21	CU	39	LYS
25	DC	55	GLY
25	DC	83	ASP
25	DC	164	VAL
32	DK	103	VAL
36	DO	103	VAL
39	DR	63	VAL
41	DT	58	VAL
49	D2	6	GLN
15	AP	49	GLY
19	AT	3	ILE
25	BC	158	GLY
31	BJ	18	VAL
31	BJ	22	GLY
31	BJ	103	ILE
32	BK	26	GLY
33	BL	139	GLY
33	BL	142	ILE
36	BO	27	VAL
36	BO	31	THR
48	B1	30	PRO
51	B4	25	VAL
2	CC	76	ILE
2	CC	127	VAL
4	CE	90	GLY
10	CK	15	VAL
10	CK	119	GLY
11	CL	78	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	CN	33	VAL
20	CB	13	VAL
27	DE	120	VAL
29	DG	14	VAL
31	DJ	139	VAL
37	DP	21	PRO
38	DQ	3	VAL
40	DS	71	VAL
3	AD	37	PRO
7	AH	71	VAL
9	AJ	41	PRO
9	AJ	96	VAL
11	AL	62	VAL
12	AM	23	GLY
19	AT	41	GLY
21	AU	52	VAL
25	BC	108	GLY
25	BC	171	VAL
25	BC	217	PRO
26	BD	98	VAL
28	BF	39	VAL
30	BH	34	GLY
30	BH	95	GLY
31	BJ	66	GLY
32	BK	115	ILE
34	BM	37	GLY
36	BO	87	ILE
42	BU	4	ILE
43	BW	35	ILE
3	CD	37	PRO
6	CG	68	VAL
8	CI	23	GLY
8	CI	71	ILE
9	CJ	100	ILE
18	CS	74	ALA
25	DC	195	GLY
27	DE	167	VAL
28	DF	81	GLY
31	DJ	100	VAL
32	DK	26	GLY
33	DL	31	GLY
33	DL	110	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	DL	135	ILE
34	DM	57	VAL
39	DR	47	VAL
39	DR	54	VAL
41	DT	96	VAL
52	DI	118	GLY
7	AH	77	VAL
8	AI	110	VAL
17	AR	43	ILE
20	AB	150	ILE
25	BC	46	GLY
26	BD	203	VAL
27	BE	76	PRO
27	BE	175	ILE
29	BG	130	ILE
30	BH	9	VAL
33	BL	11	GLY
36	BO	22	GLY
39	BR	27	ILE
43	BW	51	GLY
47	B0	34	GLY
48	B1	42	VAL
12	CM	42	VAL
16	CQ	32	ILE
18	CS	10	ILE
25	DC	217	PRO
30	DH	4	ILE
34	DM	87	GLY
34	DM	97	GLN
37	DP	69	VAL
47	D0	53	VAL
51	D4	23	ILE
24	BV	4	ILE
24	BV	70	ILE
29	BG	92	GLY
32	BK	15	GLY
37	BP	4	ILE
42	BU	48	VAL
47	B0	42	ILE
3	CD	27	ILE
21	CU	13	VAL

### 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	AC	170/189 (90%)	142 (84%)	28 (16%)	2 12
2	CC	170/189 (90%)	146 (86%)	24 (14%)	3 17
3	AD	172/172 (100%)	140 (81%)	32 (19%)	1 7
3	CD	172/172 (100%)	137 (80%)	35 (20%)	1 5
4	AE	113/125 (90%)	92 (81%)	21 (19%)	1 7
4	CE	113/125 (90%)	92 (81%)	21 (19%)	1 7
5	AF	87/116 (75%)	68 (78%)	19 (22%)	1 4
5	CF	87/116 (75%)	74 (85%)	13 (15%)	3 16
6	AG	123/146 (84%)	102 (83%)	21 (17%)	2 10
6	CG	125/146 (86%)	106 (85%)	19 (15%)	3 15
7	AH	104/104 (100%)	87 (84%)	17 (16%)	2 12
7	CH	104/104 (100%)	85 (82%)	19 (18%)	1 7
8	AI	105/106 (99%)	83 (79%)	22 (21%)	1 4
8	CI	105/106 (99%)	89 (85%)	16 (15%)	3 15
9	AJ	86/90 (96%)	66 (77%)	20 (23%)	1 3
9	CJ	86/90 (96%)	78 (91%)	8 (9%)	9 34
10	AK	90/98 (92%)	70 (78%)	20 (22%)	1 4
10	CK	90/98 (92%)	74 (82%)	16 (18%)	2 8
11	AL	103/103 (100%)	88 (85%)	15 (15%)	3 16
11	CL	103/103 (100%)	79 (77%)	24 (23%)	1 3
12	AM	92/95 (97%)	70 (76%)	22 (24%)	0 3
12	CM	91/95 (96%)	75 (82%)	16 (18%)	2 9
13	AN	79/83 (95%)	67 (85%)	12 (15%)	3 15
13	CN	79/83 (95%)	68 (86%)	11 (14%)	3 18
14	AO	76/77 (99%)	69 (91%)	7 (9%)	9 34
14	CO	76/77 (99%)	63 (83%)	13 (17%)	2 10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	AP	65/65 (100%)	56 (86%)	9 (14%)	3	18
15	CP	65/65 (100%)	54 (83%)	11 (17%)	2	11
16	AQ	74/77 (96%)	60 (81%)	14 (19%)	1	6
16	CQ	75/77 (97%)	66 (88%)	9 (12%)	5	23
17	AR	48/64 (75%)	45 (94%)	3 (6%)	18	50
17	CR	48/64 (75%)	41 (85%)	7 (15%)	3	16
18	AS	70/78 (90%)	60 (86%)	10 (14%)	3	17
18	CS	71/78 (91%)	53 (75%)	18 (25%)	0	2
19	AT	65/65 (100%)	56 (86%)	9 (14%)	3	18
19	CT	65/65 (100%)	51 (78%)	14 (22%)	1	4
20	AB	180/198 (91%)	142 (79%)	38 (21%)	1	4
20	CB	180/198 (91%)	153 (85%)	27 (15%)	3	15
21	AU	44/61 (72%)	36 (82%)	8 (18%)	1	8
21	CU	44/61 (72%)	30 (68%)	14 (32%)	0	2
24	BV	78/78 (100%)	66 (85%)	12 (15%)	2	14
24	DV	78/78 (100%)	69 (88%)	9 (12%)	5	24
25	BC	213/218 (98%)	145 (68%)	68 (32%)	0	2
25	DC	213/218 (98%)	150 (70%)	63 (30%)	0	2
26	BD	164/164 (100%)	112 (68%)	52 (32%)	0	2
26	DD	164/164 (100%)	113 (69%)	51 (31%)	0	2
27	BE	165/165 (100%)	115 (70%)	50 (30%)	0	2
27	DE	165/165 (100%)	127 (77%)	38 (23%)	1	3
28	BF	149/149 (100%)	119 (80%)	30 (20%)	1	5
28	DF	149/149 (100%)	122 (82%)	27 (18%)	1	8
29	BG	137/137 (100%)	105 (77%)	32 (23%)	1	3
29	DG	137/137 (100%)	111 (81%)	26 (19%)	1	7
30	BH	114/114 (100%)	85 (75%)	29 (25%)	0	2
30	DH	114/114 (100%)	90 (79%)	24 (21%)	1	4
31	BJ	114/116 (98%)	84 (74%)	30 (26%)	0	2
31	DJ	114/116 (98%)	85 (75%)	29 (25%)	0	2
32	BK	102/104 (98%)	78 (76%)	24 (24%)	1	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
32	DK	102/104 (98%)	81 (79%)	21 (21%)	1	5
33	BL	103/103 (100%)	62 (60%)	41 (40%)	0	1
33	DL	103/103 (100%)	68 (66%)	35 (34%)	0	1
34	BM	109/109 (100%)	77 (71%)	32 (29%)	0	2
34	DM	109/109 (100%)	75 (69%)	34 (31%)	0	2
35	BN	103/103 (100%)	78 (76%)	25 (24%)	0	3
35	DN	103/103 (100%)	76 (74%)	27 (26%)	0	2
36	BO	87/87 (100%)	58 (67%)	29 (33%)	0	1
36	DO	87/87 (100%)	69 (79%)	18 (21%)	1	5
37	BP	99/99 (100%)	77 (78%)	22 (22%)	1	4
37	DP	99/99 (100%)	67 (68%)	32 (32%)	0	1
38	BQ	89/89 (100%)	66 (74%)	23 (26%)	0	2
38	DQ	89/89 (100%)	71 (80%)	18 (20%)	1	5
39	BR	84/84 (100%)	68 (81%)	16 (19%)	1	7
39	DR	84/84 (100%)	58 (69%)	26 (31%)	0	2
40	BS	93/93 (100%)	72 (77%)	21 (23%)	1	3
40	DS	93/93 (100%)	77 (83%)	16 (17%)	2	10
41	BT	83/84 (99%)	60 (72%)	23 (28%)	0	2
41	DT	83/84 (99%)	60 (72%)	23 (28%)	0	2
42	BU	83/84 (99%)	62 (75%)	21 (25%)	0	3
42	DU	83/84 (99%)	60 (72%)	23 (28%)	0	2
43	BW	62/62 (100%)	46 (74%)	16 (26%)	0	2
43	DW	62/62 (100%)	45 (73%)	17 (27%)	0	2
44	BX	55/55 (100%)	40 (73%)	15 (27%)	0	2
44	DX	55/55 (100%)	43 (78%)	12 (22%)	1	4
45	BY	48/48 (100%)	36 (75%)	12 (25%)	0	3
45	DY	48/48 (100%)	33 (69%)	15 (31%)	0	2
46	BZ	62/62 (100%)	43 (69%)	19 (31%)	0	2
46	DZ	62/62 (100%)	46 (74%)	16 (26%)	0	2
47	B0	47/47 (100%)	31 (66%)	16 (34%)	0	1
47	D0	47/47 (100%)	33 (70%)	14 (30%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
48	B1	48/48 (100%)	33 (69%)	15 (31%)	0	2
48	D1	48/48 (100%)	33 (69%)	15 (31%)	0	2
49	B2	38/38 (100%)	27 (71%)	11 (29%)	0	2
49	D2	38/38 (100%)	27 (71%)	11 (29%)	0	2
50	B3	51/51 (100%)	33 (65%)	18 (35%)	0	1
50	D3	51/51 (100%)	40 (78%)	11 (22%)	1	4
51	B4	34/34 (100%)	21 (62%)	13 (38%)	0	1
51	D4	34/34 (100%)	17 (50%)	17 (50%)	0	0
52	BI	109/109 (100%)	106 (97%)	3 (3%)	43	72
52	DI	109/109 (100%)	104 (95%)	5 (5%)	27	59
All	All	9341/9692 (96%)	7268 (78%)	2073 (22%)	1	4

All (2073) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AC	17	TRP
2	AC	20	THR
2	AC	26	LYS
2	AC	31	ASN
2	AC	40	GLN
2	AC	42	LEU
2	AC	69	THR
2	AC	82	ASP
2	AC	88	LYS
2	AC	100	ILE
2	AC	102	ILE
2	AC	106	ARG
2	AC	113	LYS
2	AC	141	MET
2	AC	146	LYS
2	AC	156	LEU
2	AC	164	THR
2	AC	165	GLU
2	AC	166	TRP
2	AC	168	ARG
2	AC	174	LEU
2	AC	176	THR
2	AC	180	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AC	184	ASN
2	AC	185	THR
2	AC	189	HIS
2	AC	190	THR
2	AC	192	TYR
3	AD	7	LYS
3	AD	8	LEU
3	AD	10	LEU
3	AD	20	LEU
3	AD	21	LYS
3	AD	25	ARG
3	AD	35	GLN
3	AD	39	GLN
3	AD	40	HIS
3	AD	43	ARG
3	AD	55	ARG
3	AD	56	GLU
3	AD	58	GLN
3	AD	62	ARG
3	AD	64	TYR
3	AD	69	ARG
3	AD	85	THR
3	AD	94	GLU
3	AD	133	SER
3	AD	137	SER
3	AD	145	ARG
3	AD	147	LYS
3	AD	150	LYS
3	AD	153	ARG
3	AD	155	LYS
3	AD	158	LEU
3	AD	160	LEU
3	AD	176	LYS
3	AD	183	ARG
3	AD	186	GLU
3	AD	189	ASP
3	AD	194	ILE
4	AE	11	GLN
4	AE	12	GLU
4	AE	23	THR
4	AE	25	LYS
4	AE	32	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	AE	44	ARG
4	AE	45	VAL
4	AE	55	VAL
4	AE	68	ARG
4	AE	72	ASN
4	AE	81	GLN
4	AE	92	ARG
4	AE	102	THR
4	AE	110	MET
4	AE	122	VAL
4	AE	123	LEU
4	AE	125	LYS
4	AE	139	THR
4	AE	143	LEU
4	AE	151	MET
4	AE	158	LYS
5	AF	24	ARG
5	AF	37	HIS
5	AF	38	ARG
5	AF	39	LEU
5	AF	46	GLN
5	AF	53	LYS
5	AF	54	LEU
5	AF	55	HIS
5	AF	61	LEU
5	AF	65	GLU
5	AF	69	GLU
5	AF	71	ILE
5	AF	75	GLU
5	AF	76	THR
5	AF	78	PHE
5	AF	86	ARG
5	AF	87	SER
5	AF	88	MET
5	AF	92	THR
6	AG	3	ARG
6	AG	10	LYS
6	AG	11	ILE
6	AG	14	ASP
6	AG	16	LYS
6	AG	19	SER
6	AG	21	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
6	AG	22	LEU
6	AG	29	LEU
6	AG	46	LEU
6	AG	52	ARG
6	AG	55	LYS
6	AG	72	VAL
6	AG	78	ARG
6	AG	84	TYR
6	AG	89	GLU
6	AG	94	ARG
6	AG	112	ASP
6	AG	114	SER
6	AG	139	ASP
6	AG	143	MET
7	AH	4	ASP
7	AH	17	GLN
7	AH	26	MET
7	AH	30	LYS
7	AH	37	ASN
7	AH	48	PHE
7	AH	55	LYS
7	AH	61	THR
7	AH	64	TYR
7	AH	76	ARG
7	AH	82	LEU
7	AH	83	ARG
7	AH	93	LYS
7	AH	107	LYS
7	AH	111	THR
7	AH	113	ARG
7	AH	120	LEU
8	AI	3	ASN
8	AI	11	ARG
8	AI	26	LYS
8	AI	30	ASN
8	AI	35	GLU
8	AI	36	GLN
8	AI	38	PHE
8	AI	41	GLU
8	AI	44	ARG
8	AI	53	LEU
8	AI	56	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	AI	58	GLU
8	AI	59	LYS
8	AI	60	LEU
8	AI	61	ASP
8	AI	84	ARG
8	AI	86	LEU
8	AI	87	MET
8	AI	106	ASP
8	AI	112	ARG
8	AI	121	ARG
8	AI	126	PHE
9	AJ	5	ARG
9	AJ	11	LYS
9	AJ	14	ASP
9	AJ	18	ILE
9	AJ	35	GLN
9	AJ	40	ILE
9	AJ	45	ARG
9	AJ	48	ARG
9	AJ	50	THR
9	AJ	57	VAL
9	AJ	68	ARG
9	AJ	71	LEU
9	AJ	73	LEU
9	AJ	75	ASP
9	AJ	81	GLU
9	AJ	88	MET
9	AJ	89	ARG
9	AJ	92	LEU
9	AJ	98	VAL
9	AJ	102	LEU
10	AK	12	ARG
10	AK	33	ILE
10	AK	35	ASP
10	AK	36	ARG
10	AK	37	GLN
10	AK	52	ARG
10	AK	56	LYS
10	AK	58	THR
10	AK	71	ASP
10	AK	73	VAL
10	AK	83	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	AK	84	MET
10	AK	85	VAL
10	AK	92	ARG
10	AK	99	LEU
10	AK	107	THR
10	AK	108	ASN
10	AK	117	HIS
10	AK	121	ARG
10	AK	126	ARG
11	AL	18	SER
11	AL	20	VAL
11	AL	28	GLN
11	AL	30	ARG
11	AL	33	CYS
11	AL	35	ARG
11	AL	38	THR
11	AL	50	LYS
11	AL	58	ASN
11	AL	71	HIS
11	AL	74	GLN
11	AL	102	ASP
11	AL	103	CYS
11	AL	107	LYS
11	AL	118	VAL
12	AM	2	ARG
12	AM	11	HIS
12	AM	18	LEU
12	AM	27	THR
12	AM	28	ARG
12	AM	41	ASP
12	AM	43	LYS
12	AM	44	ILE
12	AM	57	ASP
12	AM	62	PHE
12	AM	64	VAL
12	AM	67	ASP
12	AM	68	LEU
12	AM	81	ASP
12	AM	90	HIS
12	AM	91	ARG
12	AM	97	ARG
12	AM	99	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	AM	100	ARG
12	AM	101	THR
12	AM	102	LYS
12	AM	106	ARG
13	AN	15	LEU
13	AN	27	LYS
13	AN	41	TRP
13	AN	45	LEU
13	AN	50	LEU
13	AN	53	ASP
13	AN	59	GLN
13	AN	60	ARG
13	AN	65	GLN
13	AN	73	LEU
13	AN	74	ARG
13	AN	76	PHE
14	AO	7	THR
14	AO	17	ASP
14	AO	25	GLU
14	AO	57	ARG
14	AO	58	MET
14	AO	64	LYS
14	AO	70	LYS
15	AP	4	ILE
15	AP	5	ARG
15	AP	26	ASN
15	AP	29	ASN
15	AP	31	ARG
15	AP	34	GLU
15	AP	46	LYS
15	AP	55	ASP
15	AP	63	GLN
16	AQ	4	ILE
16	AQ	10	ARG
16	AQ	15	LYS
16	AQ	25	GLU
16	AQ	26	ARG
16	AQ	39	ARG
16	AQ	45	VAL
16	AQ	52	CYS
16	AQ	60	ILE
16	AQ	67	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
16	AQ	74	LEU
16	AQ	76	ARG
16	AQ	78	VAL
16	AQ	80	LYS
17	AR	30	ASN
17	AR	52	ARG
17	AR	65	SER
18	AS	5	LYS
18	AS	12	LEU
18	AS	14	LEU
18	AS	20	LYS
18	AS	28	LYS
18	AS	36	ARG
18	AS	40	PHE
18	AS	47	THR
18	AS	72	GLU
18	AS	73	PHE
19	AT	4	LYS
19	AT	14	GLU
19	AT	26	MET
19	AT	29	THR
19	AT	53	MET
19	AT	59	ARG
19	AT	67	HIS
19	AT	70	LYS
19	AT	85	LEU
20	AB	9	LEU
20	AB	15	PHE
20	AB	22	TRP
20	AB	23	ASN
20	AB	26	MET
20	AB	31	PHE
20	AB	36	LYS
20	AB	38	HIS
20	AB	40	ILE
20	AB	46	VAL
20	AB	48	MET
20	AB	56	LEU
20	AB	57	ASN
20	AB	62	ARG
20	AB	67	LEU
20	AB	73	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	AB	81	ASP
20	AB	90	PHE
20	AB	94	ARG
20	AB	95	TRP
20	AB	101	THR
20	AB	116	LEU
20	AB	119	GLN
20	AB	121	GLN
20	AB	122	ASP
20	AB	125	PHE
20	AB	127	LYS
20	AB	128	LEU
20	AB	145	ASN
20	AB	158	ASP
20	AB	162	VAL
20	AB	188	THR
20	AB	196	ASP
20	AB	202	ASN
20	AB	206	ILE
20	AB	209	VAL
20	AB	212	TYR
20	AB	222	GLU
21	AU	11	PHE
21	AU	12	ASP
21	AU	16	ARG
21	AU	17	ARG
21	AU	33	ARG
21	AU	44	ARG
21	AU	48	LYS
21	AU	53	LYS
24	BV	3	THR
24	BV	9	ARG
24	BV	35	GLU
24	BV	40	ILE
24	BV	42	LEU
24	BV	46	LYS
24	BV	51	GLN
24	BV	59	GLU
24	BV	70	ILE
24	BV	73	LYS
24	BV	82	TYR
24	BV	87	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BC	5	CYS
25	BC	9	SER
25	BC	10	PRO
25	BC	13	ARG
25	BC	14	HIS
25	BC	17	LYS
25	BC	22	GLU
25	BC	23	LEU
25	BC	27	LYS
25	BC	28	PRO
25	BC	32	LEU
25	BC	33	LEU
25	BC	35	LYS
25	BC	36	ASN
25	BC	38	LYS
25	BC	44	ASN
25	BC	51	ARG
25	BC	58	LYS
25	BC	59	GLN
25	BC	62	ARG
25	BC	64	VAL
25	BC	78	GLU
25	BC	84	PRO
25	BC	86	ARG
25	BC	94	LEU
25	BC	100	ARG
25	BC	102	TYR
25	BC	110	LYS
25	BC	113	ASP
25	BC	124	LYS
25	BC	127	ASN
25	BC	128	THR
25	BC	129	LEU
25	BC	131	MET
25	BC	144	GLU
25	BC	145	MET
25	BC	152	GLN
25	BC	155	ARG
25	BC	162	GLN
25	BC	171	VAL
25	BC	172	THR
25	BC	175	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	BC	179	GLU
25	BC	180	MET
25	BC	181	ARG
25	BC	184	GLU
25	BC	186	ASP
25	BC	188	ARG
25	BC	194	VAL
25	BC	196	ASN
25	BC	201	LEU
25	BC	203	VAL
25	BC	206	LYS
25	BC	213	ARG
25	BC	216	ARG
25	BC	218	THR
25	BC	220	ARG
25	BC	222	THR
25	BC	224	MET
25	BC	225	ASN
25	BC	227	VAL
25	BC	231	HIS
25	BC	235	GLU
25	BC	237	ARG
25	BC	246	PRO
25	BC	250	GLN
25	BC	254	LYS
25	BC	261	ARG
26	BD	1	MET
26	BD	4	LEU
26	BD	8	LYS
26	BD	20	VAL
26	BD	25	THR
26	BD	26	VAL
26	BD	30	GLU
26	BD	34	VAL
26	BD	35	THR
26	BD	36	GLN
26	BD	37	VAL
26	BD	38	LYS
26	BD	39	ASP
26	BD	48	ILE
26	BD	50	VAL
26	BD	56	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	BD	59	ARG
26	BD	62	LYS
26	BD	64	GLU
26	BD	67	HIS
26	BD	70	LYS
26	BD	82	PHE
26	BD	84	LEU
26	BD	86	GLU
26	BD	89	GLU
26	BD	90	PHE
26	BD	96	ILE
26	BD	99	GLU
26	BD	103	ASP
26	BD	105	LYS
26	BD	113	SER
26	BD	127	PHE
26	BD	128	ARG
26	BD	133	THR
26	BD	138	LEU
26	BD	142	VAL
26	BD	148	GLN
26	BD	150	GLN
26	BD	151	THR
26	BD	154	LYS
26	BD	155	VAL
26	BD	157	LYS
26	BD	159	LYS
26	BD	160	LYS
26	BD	161	MET
26	BD	164	GLN
26	BD	165	MET
26	BD	167	ASN
26	BD	176	ASP
26	BD	177	VAL
26	BD	197	THR
26	BD	207	VAL
27	BE	1	MET
27	BE	2	GLU
27	BE	4	VAL
27	BE	5	LEU
27	BE	10	SER
27	BE	18	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	BE	22	ASP
27	BE	41	GLN
27	BE	43	THR
27	BE	44	ARG
27	BE	46	GLN
27	BE	47	LYS
27	BE	49	ARG
27	BE	55	SER
27	BE	57	LYS
27	BE	58	LYS
27	BE	61	ARG
27	BE	67	ARG
27	BE	69	ARG
27	BE	70	SER
27	BE	74	LYS
27	BE	78	TRP
27	BE	85	PHE
27	BE	98	LYS
27	BE	106	LYS
27	BE	107	SER
27	BE	109	LEU
27	BE	114	ARG
27	BE	118	LEU
27	BE	129	PRO
27	BE	132	LYS
27	BE	134	LEU
27	BE	139	LYS
27	BE	148	ILE
27	BE	150	THR
27	BE	152	GLU
27	BE	153	LEU
27	BE	155	GLU
27	BE	159	LEU
27	BE	162	ARG
27	BE	164	LEU
27	BE	169	VAL
27	BE	179	SER
27	BE	184	ASP
27	BE	188	MET
27	BE	189	THR
27	BE	193	VAL
27	BE	197	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	BE	199	MET
27	BE	200	LEU
28	BF	5	ASP
28	BF	9	ASP
28	BF	10	GLU
28	BF	14	LYS
28	BF	16	MET
28	BF	21	TYR
28	BF	37	MET
28	BF	55	ASP
28	BF	56	LEU
28	BF	59	ILE
28	BF	63	LYS
28	BF	87	LYS
28	BF	91	ARG
28	BF	93	GLU
28	BF	97	GLU
28	BF	102	LEU
28	BF	122	ASP
28	BF	126	ASN
28	BF	132	ARG
28	BF	139	GLU
28	BF	142	TYR
28	BF	143	ASP
28	BF	147	ARG
28	BF	149	ARG
28	BF	151	LEU
28	BF	152	ASP
28	BF	168	LEU
28	BF	172	PHE
28	BF	174	PHE
28	BF	177	ARG
29	BG	2	ARG
29	BG	3	VAL
29	BG	17	LYS
29	BG	18	ILE
29	BG	23	ILE
29	BG	25	ILE
29	BG	29	ASN
29	BG	34	ARG
29	BG	46	ASP
29	BG	47	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
29	BG	49	LEU
29	BG	55	ASP
29	BG	57	TYR
29	BG	59	ASP
29	BG	70	LEU
29	BG	72	ASN
29	BG	80	GLU
29	BG	86	LEU
29	BG	94	ARG
29	BG	98	LYS
29	BG	113	ASP
29	BG	121	THR
29	BG	128	THR
29	BG	133	LYS
29	BG	143	VAL
29	BG	146	ASP
29	BG	150	TYR
29	BG	151	ARG
29	BG	152	ARG
29	BG	169	ARG
29	BG	174	LYS
29	BG	176	LYS
30	BH	1	MET
30	BH	2	GLN
30	BH	5	LEU
30	BH	7	ASP
30	BH	8	LYS
30	BH	18	GLN
30	BH	22	LYS
30	BH	27	ARG
30	BH	28	ASN
30	BH	30	LEU
30	BH	33	GLN
30	BH	35	LYS
30	BH	42	LYS
30	BH	47	PHE
30	BH	48	GLU
30	BH	55	GLU
30	BH	57	LYS
30	BH	68	ARG
30	BH	70	GLU
30	BH	73	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
30	BH	75	LEU
30	BH	77	THR
30	BH	89	LYS
30	BH	98	ASP
30	BH	112	LYS
30	BH	124	THR
30	BH	132	PHE
30	BH	135	HIS
30	BH	139	PHE
31	BJ	3	THR
31	BJ	12	LYS
31	BJ	15	TRP
31	BJ	21	THR
31	BJ	23	LYS
31	BJ	24	THR
31	BJ	25	LEU
31	BJ	28	LEU
31	BJ	31	GLU
31	BJ	34	ARG
31	BJ	35	ARG
31	BJ	37	ARG
31	BJ	39	LYS
31	BJ	49	ASP
31	BJ	58	ASN
31	BJ	61	LYS
31	BJ	69	ARG
31	BJ	70	THR
31	BJ	75	TYR
31	BJ	90	GLU
31	BJ	96	ARG
31	BJ	98	GLU
31	BJ	102	GLU
31	BJ	114	LEU
31	BJ	116	ARG
31	BJ	118	MET
31	BJ	119	PHE
31	BJ	122	LEU
31	BJ	136	GLN
31	BJ	139	VAL
32	BK	4	GLU
32	BK	9	ASN
32	BK	17	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
32	BK	20	MET
32	BK	21	CYS
32	BK	30	ARG
32	BK	31	ARG
32	BK	32	TYR
32	BK	54	LYS
32	BK	58	LEU
32	BK	62	VAL
32	BK	64	ARG
32	BK	71	ARG
32	BK	78	ARG
32	BK	86	LEU
32	BK	87	LEU
32	BK	93	GLN
32	BK	95	ILE
32	BK	98	ARG
32	BK	108	ARG
32	BK	109	SER
32	BK	110	GLU
32	BK	116	ILE
32	BK	120	PRO
33	BL	2	ARG
33	BL	13	LYS
33	BL	14	LYS
33	BL	18	ARG
33	BL	27	LEU
33	BL	29	LYS
33	BL	33	ARG
33	BL	36	LYS
33	BL	39	LYS
33	BL	41	ARG
33	BL	47	ARG
33	BL	55	MET
33	BL	56	PRO
33	BL	57	LEU
33	BL	59	ARG
33	BL	60	ARG
33	BL	61	LEU
33	BL	70	LYS
33	BL	76	GLU
33	BL	78	ARG
33	BL	82	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	BL	84	LYS
33	BL	90	VAL
33	BL	91	ASP
33	BL	92	LEU
33	BL	96	LYS
33	BL	103	ILE
33	BL	104	GLN
33	BL	105	ILE
33	BL	106	GLU
33	BL	107	PHE
33	BL	111	ILE
33	BL	112	LEU
33	BL	115	GLU
33	BL	116	VAL
33	BL	118	THR
33	BL	121	THR
33	BL	122	VAL
33	BL	126	ARG
33	BL	127	VAL
33	BL	143	GLU
34	BM	1	MET
34	BM	3	GLN
34	BM	5	LYS
34	BM	8	LYS
34	BM	9	PHE
34	BM	11	LYS
34	BM	12	MET
34	BM	14	LYS
34	BM	18	ARG
34	BM	22	GLN
34	BM	28	PHE
34	BM	33	LEU
34	BM	36	VAL
34	BM	45	GLN
34	BM	54	THR
34	BM	55	ARG
34	BM	63	ILE
34	BM	71	LYS
34	BM	76	LYS
34	BM	86	LYS
34	BM	88	ASN
34	BM	96	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	BM	100	LYS
34	BM	104	GLU
34	BM	105	MET
34	BM	109	PRO
34	BM	117	PHE
34	BM	118	LYS
34	BM	124	LEU
34	BM	132	THR
34	BM	133	LYS
34	BM	136	MET
35	BN	1	MET
35	BN	3	HIS
35	BN	9	GLN
35	BN	10	LEU
35	BN	11	ASN
35	BN	13	ASN
35	BN	21	PHE
35	BN	22	ARG
35	BN	33	ILE
35	BN	34	ILE
35	BN	35	LYS
35	BN	45	ARG
35	BN	48	VAL
35	BN	57	THR
35	BN	65	LEU
35	BN	73	ASN
35	BN	75	ILE
35	BN	87	PHE
35	BN	94	TYR
35	BN	98	LEU
35	BN	99	LYS
35	BN	103	ARG
35	BN	112	TYR
35	BN	116	VAL
35	BN	120	GLU
36	BO	1	MET
36	BO	2	ASP
36	BO	3	LYS
36	BO	5	SER
36	BO	9	ARG
36	BO	10	ARG
36	BO	13	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BO	15	ARG
36	BO	25	ARG
36	BO	31	THR
36	BO	32	PRO
36	BO	34	HIS
36	BO	35	ILE
36	BO	38	GLN
36	BO	40	ILE
36	BO	56	LYS
36	BO	60	GLU
36	BO	62	LEU
36	BO	64	TYR
36	BO	67	ASN
36	BO	68	LYS
36	BO	69	ASP
36	BO	74	VAL
36	BO	84	GLU
36	BO	85	LYS
36	BO	93	ASP
36	BO	97	PHE
36	BO	112	GLU
36	BO	116	GLN
37	BP	2	ASN
37	BP	11	GLN
37	BP	15	ASP
37	BP	24	THR
37	BP	38	ARG
37	BP	42	PHE
37	BP	46	VAL
37	BP	47	ILE
37	BP	50	ARG
37	BP	52	ARG
37	BP	55	HIS
37	BP	56	SER
37	BP	60	VAL
37	BP	73	PHE
37	BP	74	GLN
37	BP	79	VAL
37	BP	87	ARG
37	BP	88	ARG
37	BP	100	ARG
37	BP	108	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	BP	111	GLU
37	BP	113	LEU
38	BQ	10	ARG
38	BQ	12	ARG
38	BQ	21	LYS
38	BQ	32	ARG
38	BQ	36	GLN
38	BQ	38	VAL
38	BQ	39	ILE
38	BQ	47	ARG
38	BQ	53	LYS
38	BQ	55	GLN
38	BQ	65	ASN
38	BQ	71	ASN
38	BQ	80	ASN
38	BQ	84	LYS
38	BQ	87	VAL
38	BQ	90	ASP
38	BQ	91	ARG
38	BQ	92	LYS
38	BQ	94	LEU
38	BQ	96	ASP
38	BQ	101	ASP
38	BQ	102	LYS
38	BQ	108	LEU
39	BR	12	HIS
39	BR	13	ARG
39	BR	16	GLU
39	BR	18	GLN
39	BR	25	LEU
39	BR	39	LEU
39	BR	40	MET
39	BR	43	ASN
39	BR	52	PRO
39	BR	53	PHE
39	BR	55	ASP
39	BR	66	HIS
39	BR	79	ARG
39	BR	83	TYR
39	BR	94	THR
39	BR	95	ASP
40	BS	3	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	BS	4	ILE
40	BS	6	LYS
40	BS	8	ARG
40	BS	9	HIS
40	BS	13	SER
40	BS	16	LYS
40	BS	28	LYS
40	BS	36	LEU
40	BS	37	THR
40	BS	60	HIS
40	BS	67	ASP
40	BS	69	LEU
40	BS	77	ASP
40	BS	80	PRO
40	BS	88	ARG
40	BS	90	LYS
40	BS	94	ASP
40	BS	95	ARG
40	BS	102	HIS
40	BS	110	ARG
41	BT	1	MET
41	BT	5	GLU
41	BT	6	ARG
41	BT	8	LEU
41	BT	10	VAL
41	BT	11	LEU
41	BT	15	HIS
41	BT	21	SER
41	BT	24	MET
41	BT	28	ASN
41	BT	30	ILE
41	BT	31	VAL
41	BT	44	LYS
41	BT	47	VAL
41	BT	52	GLU
41	BT	66	LYS
41	BT	68	LYS
41	BT	69	ARG
41	BT	79	ASP
41	BT	85	VAL
41	BT	89	GLU
41	BT	91	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	BT	94	ASP
42	BU	3	LYS
42	BU	6	ARG
42	BU	33	VAL
42	BU	38	ILE
42	BU	43	LYS
42	BU	52	ASN
42	BU	59	GLU
42	BU	61	GLU
42	BU	64	ILE
42	BU	66	VAL
42	BU	68	ASN
42	BU	71	ILE
42	BU	72	PHE
42	BU	80	ASP
42	BU	81	ARG
42	BU	85	ARG
42	BU	88	ASP
42	BU	90	LYS
42	BU	93	ARG
42	BU	95	PHE
42	BU	100	GLU
43	BW	2	HIS
43	BW	8	SER
43	BW	10	ARG
43	BW	18	LYS
43	BW	19	ARG
43	BW	20	LEU
43	BW	23	LYS
43	BW	40	ARG
43	BW	44	PHE
43	BW	45	HIS
43	BW	54	ARG
43	BW	55	ASP
43	BW	65	LYS
43	BW	69	GLU
43	BW	81	ILE
43	BW	84	GLU
44	BX	2	LYS
44	BX	5	GLU
44	BX	7	ARG
44	BX	8	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
44	BX	12	GLU
44	BX	15	ASN
44	BX	17	GLU
44	BX	18	LEU
44	BX	34	SER
44	BX	36	GLN
44	BX	38	GLN
44	BX	41	HIS
44	BX	44	LYS
44	BX	45	GLN
44	BX	53	VAL
45	BY	6	ILE
45	BY	7	THR
45	BY	8	GLN
45	BY	9	THR
45	BY	10	ARG
45	BY	15	ARG
45	BY	16	LEU
45	BY	19	HIS
45	BY	20	LYS
45	BY	31	ILE
45	BY	37	ARG
45	BY	39	ASP
46	BZ	4	ASP
46	BZ	6	HIS
46	BZ	8	LYS
46	BZ	13	THR
46	BZ	15	SER
46	BZ	18	CYS
46	BZ	24	ILE
46	BZ	25	ARG
46	BZ	30	HIS
46	BZ	32	LEU
46	BZ	33	ASN
46	BZ	35	ASP
46	BZ	40	CYS
46	BZ	49	ARG
46	BZ	58	ASP
46	BZ	63	ARG
46	BZ	65	ASN
46	BZ	66	ILE
46	BZ	70	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
47	B0	3	GLN
47	B0	4	GLN
47	B0	5	ASN
47	B0	11	LYS
47	B0	12	ARG
47	B0	14	MET
47	B0	16	ARG
47	B0	21	LEU
47	B0	25	THR
47	B0	27	LEU
47	B0	29	VAL
47	B0	32	THR
47	B0	35	GLU
47	B0	39	ARG
47	B0	51	ARG
47	B0	52	LYS
48	B1	4	ILE
48	B1	5	ARG
48	B1	6	GLU
48	B1	7	LYS
48	B1	9	LYS
48	B1	23	THR
48	B1	24	LYS
48	B1	32	LYS
48	B1	33	LEU
48	B1	34	GLU
48	B1	36	LYS
48	B1	44	GLN
48	B1	49	LYS
48	B1	52	LYS
48	B1	53	ILE
49	B2	12	ARG
49	B2	18	PHE
49	B2	19	ARG
49	B2	21	ARG
49	B2	25	LYS
49	B2	26	ASN
49	B2	29	GLN
49	B2	33	ARG
49	B2	41	ARG
49	B2	45	SER
49	B2	46	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	B3	3	ILE
50	B3	4	LYS
50	B3	6	VAL
50	B3	11	LYS
50	B3	12	ARG
50	B3	18	LYS
50	B3	21	PHE
50	B3	25	HIS
50	B3	28	LEU
50	B3	29	ARG
50	B3	30	HIS
50	B3	32	LEU
50	B3	35	LYS
50	B3	37	THR
50	B3	41	ARG
50	B3	44	ARG
50	B3	46	LYS
50	B3	51	LYS
51	B4	2	LYS
51	B4	4	ARG
51	B4	8	LYS
51	B4	9	LYS
51	B4	12	ARG
51	B4	18	LYS
51	B4	19	ARG
51	B4	20	ASP
51	B4	23	ILE
51	B4	27	CYS
51	B4	33	HIS
51	B4	36	ARG
51	B4	37	GLN
52	BI	2	LYS
52	BI	96	LYS
52	BI	141	ASP
2	CC	2	GLN
2	CC	13	ILE
2	CC	19	SER
2	CC	20	THR
2	CC	25	THR
2	CC	28	PHE
2	CC	30	ASP
2	CC	40	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	CC	46	LEU
2	CC	87	ARG
2	CC	88	LYS
2	CC	96	VAL
2	CC	128	MET
2	CC	129	PHE
2	CC	130	ARG
2	CC	134	LYS
2	CC	143	LEU
2	CC	164	THR
2	CC	165	GLU
2	CC	166	TRP
2	CC	168	ARG
2	CC	176	THR
2	CC	181	ILE
2	CC	206	ILE
3	CD	2	ARG
3	CD	16	THR
3	CD	25	ARG
3	CD	28	ASP
3	CD	30	LYS
3	CD	39	GLN
3	CD	46	ARG
3	CD	47	LEU
3	CD	48	SER
3	CD	49	ASP
3	CD	55	ARG
3	CD	58	GLN
3	CD	69	ARG
3	CD	71	PHE
3	CD	77	GLU
3	CD	84	ASN
3	CD	92	LEU
3	CD	93	LEU
3	CD	99	ASN
3	CD	100	VAL
3	CD	106	PHE
3	CD	125	ASN
3	CD	127	ARG
3	CD	130	ASN
3	CD	137	SER
3	CD	146	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	CD	147	LYS
3	CD	154	VAL
3	CD	160	LEU
3	CD	162	GLU
3	CD	164	ARG
3	CD	170	LEU
3	CD	186	GLU
3	CD	196	GLU
3	CD	199	ILE
4	CE	9	GLU
4	CE	11	GLN
4	CE	14	LEU
4	CE	21	SER
4	CE	23	THR
4	CE	25	LYS
4	CE	28	ARG
4	CE	30	PHE
4	CE	55	VAL
4	CE	61	LYS
4	CE	89	THR
4	CE	92	ARG
4	CE	95	MET
4	CE	104	ILE
4	CE	120	HIS
4	CE	133	ILE
4	CE	141	ASP
4	CE	144	GLU
4	CE	146	MET
4	CE	147	ASN
4	CE	151	MET
5	CF	3	HIS
5	CF	6	ILE
5	CF	13	ASP
5	CF	39	LEU
5	CF	54	LEU
5	CF	55	HIS
5	CF	59	TYR
5	CF	62	MET
5	CF	72	ASP
5	CF	76	THR
5	CF	86	ARG
5	CF	91	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	CF	97	THR
6	CG	2	ARG
6	CG	8	GLN
6	CG	10	LYS
6	CG	26	VAL
6	CG	46	LEU
6	CG	56	SER
6	CG	58	LEU
6	CG	71	THR
6	CG	75	LYS
6	CG	78	ARG
6	CG	84	TYR
6	CG	89	GLU
6	CG	98	LEU
6	CG	108	ARG
6	CG	110	ARG
6	CG	115	MET
6	CG	117	LEU
6	CG	134	VAL
6	CG	153	TYR
7	CH	6	ILE
7	CH	8	ASP
7	CH	14	ARG
7	CH	28	SER
7	CH	45	ILE
7	CH	47	ASP
7	CH	53	ASP
7	CH	57	GLU
7	CH	68	LYS
7	CH	72	GLU
7	CH	79	ARG
7	CH	82	LEU
7	CH	88	LYS
7	CH	107	LYS
7	CH	110	MET
7	CH	117	GLN
7	CH	123	GLU
7	CH	124	ILE
7	CH	128	VAL
8	CI	4	GLN
8	CI	6	TYR
8	CI	26	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
8	CI	27	ILE
8	CI	37	TYR
8	CI	45	MET
8	CI	52	GLU
8	CI	55	ASP
8	CI	60	LEU
8	CI	61	ASP
8	CI	62	LEU
8	CI	74	GLN
8	CI	87	MET
8	CI	109	GLN
8	CI	121	ARG
8	CI	122	ARG
9	CJ	32	THR
9	CJ	37	ARG
9	CJ	47	GLU
9	CJ	57	VAL
9	CJ	71	LEU
9	CJ	77	VAL
9	CJ	78	GLU
9	CJ	92	LEU
10	CK	16	SER
10	CK	28	ASN
10	CK	31	VAL
10	CK	34	THR
10	CK	45	THR
10	CK	55	ARG
10	CK	64	VAL
10	CK	69	CYS
10	CK	75	GLU
10	CK	76	TYR
10	CK	78	ILE
10	CK	81	LEU
10	CK	84	MET
10	CK	97	ARG
10	CK	109	ILE
10	CK	112	VAL
11	CL	8	ARG
11	CL	14	LYS
11	CL	17	LYS
11	CL	26	CYS
11	CL	28	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
11	CL	33	CYS
11	CL	34	THR
11	CL	40	THR
11	CL	42	LYS
11	CL	46	SER
11	CL	49	ARG
11	CL	53	ARG
11	CL	61	GLU
11	CL	69	GLU
11	CL	73	LEU
11	CL	75	GLU
11	CL	88	ASP
11	CL	93	ARG
11	CL	98	ARG
11	CL	107	LYS
11	CL	109	ARG
11	CL	111	GLN
11	CL	120	ARG
11	CL	122	LYS
12	CM	2	ARG
12	CM	15	VAL
12	CM	40	GLU
12	CM	45	SER
12	CM	46	GLU
12	CM	49	GLU
12	CM	56	ARG
12	CM	65	GLU
12	CM	67	ASP
12	CM	88	LEU
12	CM	92	ARG
12	CM	97	ARG
12	CM	102	LYS
12	CM	106	ARG
12	CM	109	LYS
12	CM	112	ARG
13	CN	5	MET
13	CN	17	ASP
13	CN	19	TYR
13	CN	23	ARG
13	CN	31	SER
13	CN	44	VAL
13	CN	48	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	CN	50	LEU
13	CN	82	LYS
13	CN	89	ARG
13	CN	95	LEU
14	CO	4	THR
14	CO	39	GLN
14	CO	44	GLU
14	CO	50	HIS
14	CO	51	SER
14	CO	53	ARG
14	CO	56	LEU
14	CO	59	VAL
14	CO	63	ARG
14	CO	69	LEU
14	CO	78	THR
14	CO	80	LEU
14	CO	83	ARG
15	CP	5	ARG
15	CP	19	VAL
15	CP	23	ASP
15	CP	25	ARG
15	CP	28	ARG
15	CP	32	PHE
15	CP	35	ARG
15	CP	50	THR
15	CP	57	ILE
15	CP	67	ILE
15	CP	68	SER
16	CQ	5	ARG
16	CQ	7	LEU
16	CQ	20	ILE
16	CQ	26	ARG
16	CQ	39	ARG
16	CQ	48	GLU
16	CQ	60	ILE
16	CQ	64	ARG
16	CQ	80	LYS
17	CR	23	LYS
17	CR	25	ILE
17	CR	35	SER
17	CR	37	LYS
17	CR	38	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
17	CR	42	ARG
17	CR	47	ARG
18	CS	3	SER
18	CS	5	LYS
18	CS	10	ILE
18	CS	11	ASP
18	CS	12	LEU
18	CS	13	HIS
18	CS	20	LYS
18	CS	26	ASP
18	CS	27	LYS
18	CS	28	LYS
18	CS	33	TRP
18	CS	36	ARG
18	CS	38	THR
18	CS	47	THR
18	CS	52	ASN
18	CS	62	THR
18	CS	64	GLU
18	CS	73	PHE
19	CT	9	ARG
19	CT	11	ILE
19	CT	25	SER
19	CT	29	THR
19	CT	35	TYR
19	CT	47	GLN
19	CT	48	LYS
19	CT	51	ASN
19	CT	53	MET
19	CT	66	ILE
19	CT	69	ASN
19	CT	70	LYS
19	CT	73	ARG
19	CT	77	ASN
20	CB	8	MET
20	CB	9	LEU
20	CB	22	TRP
20	CB	23	ASN
20	CB	35	ASN
20	CB	36	LYS
20	CB	37	VAL
20	CB	46	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	CB	53	LEU
20	CB	57	ASN
20	CB	62	ARG
20	CB	65	LYS
20	CB	84	LEU
20	CB	94	ARG
20	CB	116	LEU
20	CB	121	GLN
20	CB	139	GLU
20	CB	143	LEU
20	CB	145	ASN
20	CB	168	GLU
20	CB	176	ASN
20	CB	207	ARG
20	CB	211	LEU
20	CB	213	LEU
20	CB	219	THR
20	CB	221	ARG
20	CB	222	GLU
21	CU	7	GLU
21	CU	8	ASN
21	CU	16	ARG
21	CU	17	ARG
21	CU	20	ARG
21	CU	22	CYS
21	CU	24	LYS
21	CU	33	ARG
21	CU	35	GLU
21	CU	36	PHE
21	CU	37	TYR
21	CU	38	GLU
21	CU	42	THR
21	CU	48	LYS
24	DV	18	ARG
24	DV	35	GLU
24	DV	41	GLU
24	DV	42	LEU
24	DV	51	GLN
24	DV	69	GLU
24	DV	70	ILE
24	DV	79	ARG
24	DV	86	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	DC	5	CYS
25	DC	10	PRO
25	DC	12	ARG
25	DC	22	GLU
25	DC	28	PRO
25	DC	29	PHE
25	DC	32	LEU
25	DC	33	LEU
25	DC	34	GLU
25	DC	38	LYS
25	DC	42	ARG
25	DC	47	ARG
25	DC	49	THR
25	DC	51	ARG
25	DC	57	HIS
25	DC	58	LYS
25	DC	61	TYR
25	DC	62	ARG
25	DC	64	VAL
25	DC	67	LYS
25	DC	69	ASN
25	DC	84	PRO
25	DC	85	ASN
25	DC	86	ARG
25	DC	96	LYS
25	DC	102	TYR
25	DC	104	LEU
25	DC	107	LYS
25	DC	110	LYS
25	DC	119	VAL
25	DC	120	ASP
25	DC	124	LYS
25	DC	127	ASN
25	DC	128	THR
25	DC	129	LEU
25	DC	133	ASN
25	DC	141	HIS
25	DC	143	VAL
25	DC	145	MET
25	DC	155	ARG
25	DC	162	GLN
25	DC	167	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
25	DC	171	VAL
25	DC	175	LEU
25	DC	179	GLU
25	DC	188	ARG
25	DC	194	VAL
25	DC	203	VAL
25	DC	206	LYS
25	DC	211	ARG
25	DC	218	THR
25	DC	224	MET
25	DC	231	HIS
25	DC	235	GLU
25	DC	237	ARG
25	DC	246	PRO
25	DC	250	GLN
25	DC	251	THR
25	DC	254	LYS
25	DC	256	THR
25	DC	264	LYS
25	DC	267	VAL
25	DC	268	ARG
26	DD	4	LEU
26	DD	7	LYS
26	DD	8	LYS
26	DD	12	THR
26	DD	14	ILE
26	DD	15	PHE
26	DD	16	THR
26	DD	25	THR
26	DD	27	ILE
26	DD	32	ASN
26	DD	33	ARG
26	DD	34	VAL
26	DD	36	GLN
26	DD	40	LEU
26	DD	45	TYR
26	DD	49	GLN
26	DD	52	THR
26	DD	62	LYS
26	DD	67	HIS
26	DD	70	LYS
26	DD	77	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	DD	79	LEU
26	DD	82	PHE
26	DD	83	ARG
26	DD	91	THR
26	DD	101	PHE
26	DD	104	VAL
26	DD	106	LYS
26	DD	107	VAL
26	DD	108	ASP
26	DD	114	LYS
26	DD	116	LYS
26	DD	118	PHE
26	DD	121	THR
26	DD	124	ARG
26	DD	126	ASN
26	DD	127	PHE
26	DD	128	ARG
26	DD	133	THR
26	DD	137	SER
26	DD	138	LEU
26	DD	139	SER
26	DD	142	VAL
26	DD	151	THR
26	DD	152	PRO
26	DD	157	LYS
26	DD	176	ASP
26	DD	185	ASN
26	DD	188	LEU
26	DD	197	THR
26	DD	208	LYS
27	DE	1	MET
27	DE	5	LEU
27	DE	19	PHE
27	DE	21	ARG
27	DE	24	ASN
27	DE	40	ARG
27	DE	43	THR
27	DE	49	ARG
27	DE	53	THR
27	DE	74	LYS
27	DE	84	THR
27	DE	94	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	DE	97	ASN
27	DE	99	LYS
27	DE	100	MET
27	DE	107	SER
27	DE	109	LEU
27	DE	117	ARG
27	DE	118	LEU
27	DE	132	LYS
27	DE	134	LEU
27	DE	137	LYS
27	DE	143	LEU
27	DE	148	ILE
27	DE	152	GLU
27	DE	154	ASP
27	DE	155	GLU
27	DE	157	LEU
27	DE	158	PHE
27	DE	164	LEU
27	DE	167	VAL
27	DE	171	ASP
27	DE	173	THR
27	DE	184	ASP
27	DE	185	LYS
27	DE	188	MET
27	DE	191	ASP
27	DE	196	VAL
28	DF	14	LYS
28	DF	23	SER
28	DF	32	LYS
28	DF	37	MET
28	DF	45	ASP
28	DF	48	LEU
28	DF	59	ILE
28	DF	77	LYS
28	DF	90	LEU
28	DF	93	GLU
28	DF	107	VAL
28	DF	108	PRO
28	DF	112	ASP
28	DF	114	ARG
28	DF	126	ASN
28	DF	132	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	DF	133	GLU
28	DF	135	ILE
28	DF	143	ASP
28	DF	151	LEU
28	DF	161	SER
28	DF	162	ASP
28	DF	164	GLU
28	DF	168	LEU
28	DF	172	PHE
28	DF	174	PHE
28	DF	177	ARG
29	DG	5	LYS
29	DG	8	VAL
29	DG	15	ASP
29	DG	24	THR
29	DG	29	ASN
29	DG	33	THR
29	DG	35	THR
29	DG	37	ASN
29	DG	43	LYS
29	DG	48	THR
29	DG	54	ARG
29	DG	71	LEU
29	DG	80	GLU
29	DG	85	LYS
29	DG	86	LEU
29	DG	93	TYR
29	DG	100	ASN
29	DG	101	VAL
29	DG	104	LEU
29	DG	116	LEU
29	DG	121	THR
29	DG	126	THR
29	DG	132	LEU
29	DG	154	GLU
29	DG	161	VAL
29	DG	171	LYS
30	DH	4	ILE
30	DH	7	ASP
30	DH	8	LYS
30	DH	11	ASN
30	DH	30	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
30	DH	35	LYS
30	DH	38	PRO
30	DH	44	ILE
30	DH	50	ARG
30	DH	53	GLU
30	DH	57	LYS
30	DH	68	ARG
30	DH	70	GLU
30	DH	75	LEU
30	DH	77	THR
30	DH	96	THR
30	DH	97	ARG
30	DH	101	ASP
30	DH	112	LYS
30	DH	119	ASN
30	DH	122	LEU
30	DH	124	THR
30	DH	129	GLU
30	DH	141	LYS
31	DJ	1	MET
31	DJ	3	THR
31	DJ	4	PHE
31	DJ	5	THR
31	DJ	7	LYS
31	DJ	15	TRP
31	DJ	25	LEU
31	DJ	27	ARG
31	DJ	31	GLU
31	DJ	35	ARG
31	DJ	36	LEU
31	DJ	41	LYS
31	DJ	47	HIS
31	DJ	49	ASP
31	DJ	52	ASP
31	DJ	61	LYS
31	DJ	69	ARG
31	DJ	84	ILE
31	DJ	85	LYS
31	DJ	91	GLU
31	DJ	92	MET
31	DJ	95	ARG
31	DJ	109	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
31	DJ	118	MET
31	DJ	120	ARG
31	DJ	121	LYS
31	DJ	132	HIS
31	DJ	135	GLN
31	DJ	140	LEU
32	DK	2	ILE
32	DK	6	THR
32	DK	7	MET
32	DK	10	VAL
32	DK	32	TYR
32	DK	41	ILE
32	DK	47	ILE
32	DK	56	ASP
32	DK	58	LEU
32	DK	59	LYS
32	DK	65	THR
32	DK	75	SER
32	DK	84	CYS
32	DK	90	ASN
32	DK	92	GLU
32	DK	95	ILE
32	DK	98	ARG
32	DK	104	THR
32	DK	105	ARG
32	DK	117	SER
32	DK	120	PRO
33	DL	2	ARG
33	DL	3	LEU
33	DL	14	LYS
33	DL	19	LEU
33	DL	21	ARG
33	DL	27	LEU
33	DL	29	LYS
33	DL	38	GLN
33	DL	42	SER
33	DL	46	VAL
33	DL	47	ARG
33	DL	48	ARG
33	DL	50	PHE
33	DL	51	GLU
33	DL	55	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	DL	60	ARG
33	DL	64	PHE
33	DL	69	ARG
33	DL	73	ILE
33	DL	77	ILE
33	DL	78	ARG
33	DL	92	LEU
33	DL	96	LYS
33	DL	104	GLN
33	DL	106	GLU
33	DL	107	PHE
33	DL	109	LYS
33	DL	116	VAL
33	DL	119	PRO
33	DL	121	THR
33	DL	125	LEU
33	DL	128	THR
33	DL	135	ILE
33	DL	136	GLU
33	DL	142	ILE
34	DM	1	MET
34	DM	2	LEU
34	DM	5	LYS
34	DM	6	ARG
34	DM	9	PHE
34	DM	11	LYS
34	DM	12	MET
34	DM	14	LYS
34	DM	16	ARG
34	DM	17	ASN
34	DM	18	ARG
34	DM	22	GLN
34	DM	26	VAL
34	DM	38	ARG
34	DM	42	THR
34	DM	62	LYS
34	DM	67	VAL
34	DM	72	PRO
34	DM	76	LYS
34	DM	80	VAL
34	DM	81	ARG
34	DM	84	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	DM	89	VAL
34	DM	90	GLU
34	DM	91	TYR
34	DM	96	ILE
34	DM	97	GLN
34	DM	100	LYS
34	DM	105	MET
34	DM	112	LEU
34	DM	115	GLU
34	DM	118	LYS
34	DM	124	LEU
34	DM	134	THR
35	DN	1	MET
35	DN	2	ARG
35	DN	4	ARG
35	DN	6	SER
35	DN	14	SER
35	DN	18	GLN
35	DN	36	THR
35	DN	42	LYS
35	DN	43	GLU
35	DN	45	ARG
35	DN	46	ARG
35	DN	49	GLU
35	DN	56	LYS
35	DN	57	THR
35	DN	58	ASP
35	DN	65	LEU
35	DN	71	ARG
35	DN	76	VAL
35	DN	81	ASN
35	DN	87	PHE
35	DN	90	ARG
35	DN	94	TYR
35	DN	95	THR
35	DN	96	ARG
35	DN	98	LEU
35	DN	121	LYS
35	DN	127	GLU
36	DO	2	ASP
36	DO	4	LYS
36	DO	18	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	DO	27	VAL
36	DO	29	HIS
36	DO	30	ARG
36	DO	35	ILE
36	DO	38	GLN
36	DO	40	ILE
36	DO	60	GLU
36	DO	65	THR
36	DO	68	LYS
36	DO	87	ILE
36	DO	97	PHE
36	DO	98	GLN
36	DO	99	TYR
36	DO	103	VAL
36	DO	108	ASP
37	DP	1	SER
37	DP	8	GLU
37	DP	15	ASP
37	DP	18	SER
37	DP	24	THR
37	DP	28	LYS
37	DP	38	ARG
37	DP	46	VAL
37	DP	47	ILE
37	DP	50	ARG
37	DP	52	ARG
37	DP	54	LEU
37	DP	58	PHE
37	DP	60	VAL
37	DP	70	GLU
37	DP	73	PHE
37	DP	74	GLN
37	DP	75	THR
37	DP	76	HIS
37	DP	79	VAL
37	DP	80	VAL
37	DP	81	ASP
37	DP	83	ILE
37	DP	84	SER
37	DP	87	ARG
37	DP	91	VAL
37	DP	97	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	DP	101	GLU
37	DP	108	ARG
37	DP	109	ILE
37	DP	111	GLU
37	DP	112	ARG
38	DQ	2	ARG
38	DQ	4	LYS
38	DQ	13	HIS
38	DQ	27	ARG
38	DQ	35	PHE
38	DQ	36	GLN
38	DQ	39	ILE
38	DQ	40	LYS
38	DQ	53	LYS
38	DQ	58	GLN
38	DQ	70	GLN
38	DQ	78	PHE
38	DQ	84	LYS
38	DQ	90	ASP
38	DQ	91	ARG
38	DQ	93	ILE
38	DQ	101	ASP
38	DQ	116	LEU
39	DR	4	VAL
39	DR	6	GLN
39	DR	7	SER
39	DR	10	LYS
39	DR	12	HIS
39	DR	13	ARG
39	DR	18	GLN
39	DR	22	LEU
39	DR	23	GLU
39	DR	26	ASP
39	DR	32	THR
39	DR	37	GLU
39	DR	43	ASN
39	DR	62	GLU
39	DR	70	GLU
39	DR	73	LYS
39	DR	75	VAL
39	DR	79	ARG
39	DR	84	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	DR	85	LYS
39	DR	86	GLN
39	DR	91	GLN
39	DR	92	TRP
39	DR	94	THR
39	DR	96	VAL
39	DR	99	THR
40	DS	3	THR
40	DS	9	HIS
40	DS	11	ARG
40	DS	19	LEU
40	DS	23	LEU
40	DS	24	ILE
40	DS	25	ARG
40	DS	30	SER
40	DS	55	ILE
40	DS	62	ASP
40	DS	76	VAL
40	DS	82	MET
40	DS	83	LYS
40	DS	85	ILE
40	DS	86	MET
40	DS	110	ARG
41	DT	3	ARG
41	DT	5	GLU
41	DT	6	ARG
41	DT	11	LEU
41	DT	15	HIS
41	DT	18	GLU
41	DT	19	LYS
41	DT	24	MET
41	DT	25	GLU
41	DT	29	THR
41	DT	50	LEU
41	DT	51	PHE
41	DT	58	VAL
41	DT	61	LEU
41	DT	62	VAL
41	DT	64	LYS
41	DT	66	LYS
41	DT	68	LYS
41	DT	69	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	DT	73	ARG
41	DT	76	ARG
41	DT	82	LYS
41	DT	88	LYS
42	DU	4	ILE
42	DU	8	ASP
42	DU	13	LEU
42	DU	25	LYS
42	DU	26	ASN
42	DU	27	VAL
42	DU	29	SER
42	DU	40	LEU
42	DU	42	LYS
42	DU	57	ILE
42	DU	58	VAL
42	DU	60	LYS
42	DU	61	GLU
42	DU	65	GLN
42	DU	69	VAL
42	DU	71	ILE
42	DU	80	ASP
42	DU	85	ARG
42	DU	94	PHE
42	DU	95	PHE
42	DU	96	LYS
42	DU	98	ASN
42	DU	99	SER
43	DW	2	HIS
43	DW	3	LYS
43	DW	10	ARG
43	DW	13	ARG
43	DW	14	ASP
43	DW	15	SER
43	DW	16	GLU
43	DW	18	LYS
43	DW	19	ARG
43	DW	25	PHE
43	DW	37	VAL
43	DW	39	GLN
43	DW	40	ARG
43	DW	61	LYS
43	DW	63	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
43	DW	75	ASN
43	DW	82	GLU
44	DX	8	GLU
44	DX	14	LEU
44	DX	18	LEU
44	DX	20	ASN
44	DX	23	ARG
44	DX	25	GLN
44	DX	28	LEU
44	DX	30	MET
44	DX	31	GLN
44	DX	39	GLN
44	DX	44	LYS
44	DX	47	ARG
45	DY	5	LYS
45	DY	10	ARG
45	DY	13	ILE
45	DY	18	LYS
45	DY	26	LEU
45	DY	29	ARG
45	DY	34	THR
45	DY	35	VAL
45	DY	40	THR
45	DY	43	ILE
45	DY	44	ARG
45	DY	46	MET
45	DY	53	MET
45	DY	57	GLU
45	DY	58	GLU
46	DZ	9	TYR
46	DZ	20	ASN
46	DZ	24	ILE
46	DZ	28	VAL
46	DZ	31	ASP
46	DZ	33	ASN
46	DZ	40	CYS
46	DZ	47	LYS
46	DZ	48	GLN
46	DZ	50	ASP
46	DZ	56	ARG
46	DZ	64	PHE
46	DZ	65	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	DZ	66	ILE
46	DZ	67	PRO
46	DZ	69	SER
47	D0	2	VAL
47	D0	4	GLN
47	D0	5	ASN
47	D0	8	THR
47	D0	12	ARG
47	D0	15	ARG
47	D0	19	ASP
47	D0	21	LEU
47	D0	22	THR
47	D0	32	THR
47	D0	37	HIS
47	D0	51	ARG
47	D0	52	LYS
47	D0	53	VAL
48	D1	8	ILE
48	D1	12	SER
48	D1	18	HIS
48	D1	19	PHE
48	D1	22	THR
48	D1	24	LYS
48	D1	25	ASN
48	D1	26	LYS
48	D1	27	ARG
48	D1	31	GLU
48	D1	33	LEU
48	D1	35	LEU
48	D1	41	VAL
48	D1	44	GLN
48	D1	49	LYS
49	D2	3	ARG
49	D2	10	LEU
49	D2	15	SER
49	D2	18	PHE
49	D2	19	ARG
49	D2	25	LYS
49	D2	28	ARG
49	D2	34	ARG
49	D2	39	ARG
49	D2	44	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	D2	46	LYS
50	D3	2	LYS
50	D3	7	ARG
50	D3	24	LYS
50	D3	29	ARG
50	D3	32	LEU
50	D3	34	LYS
50	D3	35	LYS
50	D3	48	MET
50	D3	53	ASP
50	D3	54	LEU
50	D3	61	LEU
51	D4	2	LYS
51	D4	8	LYS
51	D4	9	LYS
51	D4	11	CYS
51	D4	13	ASN
51	D4	17	VAL
51	D4	19	ARG
51	D4	20	ASP
51	D4	23	ILE
51	D4	24	ARG
51	D4	25	VAL
51	D4	26	ILE
51	D4	27	CYS
51	D4	30	GLU
51	D4	32	LYS
51	D4	35	GLN
51	D4	36	ARG
52	DI	2	LYS
52	DI	5	GLN
52	DI	54	ILE
52	DI	99	LYS
52	DI	121	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (317) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AC	2	GLN
2	AC	5	HIS
2	AC	40	GLN
2	AC	68	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AC	122	GLN
2	AC	139	ASN
2	AC	184	ASN
3	AD	35	GLN
3	AD	84	ASN
3	AD	99	ASN
3	AD	135	GLN
3	AD	195	ASN
4	AE	69	ASN
4	AE	72	ASN
4	AE	96	GLN
4	AE	121	ASN
4	AE	131	ASN
5	AF	14	GLN
5	AF	17	GLN
5	AF	46	GLN
5	AF	58	HIS
6	AG	67	ASN
6	AG	85	GLN
6	AG	121	ASN
7	AH	3	GLN
7	AH	17	GLN
8	AI	4	GLN
8	AI	24	ASN
8	AI	30	ASN
8	AI	31	GLN
8	AI	36	GLN
8	AI	49	GLN
8	AI	109	GLN
9	AJ	15	HIS
9	AJ	20	GLN
9	AJ	70	HIS
9	AJ	99	GLN
10	AK	28	ASN
10	AK	37	GLN
10	AK	100	ASN
11	AL	58	ASN
11	AL	72	ASN
12	AM	99	GLN
13	AN	59	GLN
13	AN	61	ASN
13	AN	65	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	AO	27	GLN
14	AO	34	GLN
14	AO	39	GLN
15	AP	9	HIS
15	AP	18	GLN
15	AP	29	ASN
15	AP	63	GLN
17	AR	53	GLN
18	AS	51	HIS
18	AS	55	GLN
19	AT	12	GLN
19	AT	20	ASN
19	AT	54	GLN
19	AT	60	GLN
20	AB	23	ASN
20	AB	35	ASN
20	AB	108	GLN
20	AB	119	GLN
20	AB	121	GLN
20	AB	145	ASN
20	AB	167	HIS
20	AB	202	ASN
24	BV	49	ASN
24	BV	51	GLN
24	BV	80	HIS
24	BV	88	HIS
25	BC	20	ASN
25	BC	36	ASN
25	BC	43	ASN
25	BC	52	HIS
25	BC	89	ASN
25	BC	127	ASN
25	BC	133	ASN
25	BC	162	GLN
25	BC	225	ASN
25	BC	250	GLN
26	BD	32	ASN
26	BD	58	ASN
26	BD	130	GLN
26	BD	134	HIS
26	BD	149	ASN
26	BD	164	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	BD	167	ASN
26	BD	173	GLN
26	BD	185	ASN
27	BE	29	HIS
27	BE	46	GLN
27	BE	92	HIS
27	BE	97	ASN
27	BE	136	GLN
27	BE	156	ASN
27	BE	195	GLN
28	BF	26	GLN
28	BF	36	ASN
28	BF	80	GLN
28	BF	126	ASN
29	BG	19	ASN
29	BG	21	GLN
29	BG	29	ASN
29	BG	142	GLN
30	BH	2	GLN
30	BH	11	ASN
30	BH	43	ASN
30	BH	73	ASN
31	BJ	40	HIS
31	BJ	77	HIS
31	BJ	80	HIS
31	BJ	131	ASN
31	BJ	135	GLN
31	BJ	136	GLN
32	BK	5	GLN
32	BK	9	ASN
32	BK	82	ASN
32	BK	88	ASN
33	BL	38	GLN
33	BL	99	ASN
34	BM	3	GLN
34	BM	17	ASN
35	BN	9	GLN
35	BN	13	ASN
35	BN	73	ASN
35	BN	81	ASN
36	BO	38	GLN
36	BO	67	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
36	BO	98	GLN
36	BO	104	GLN
37	BP	2	ASN
37	BP	11	GLN
37	BP	40	GLN
38	BQ	43	GLN
38	BQ	51	GLN
38	BQ	55	GLN
38	BQ	58	GLN
38	BQ	80	ASN
39	BR	18	GLN
39	BR	86	GLN
39	BR	87	GLN
40	BS	9	HIS
40	BS	57	ASN
41	BT	28	ASN
42	BU	39	ASN
42	BU	65	GLN
42	BU	68	ASN
43	BW	2	HIS
43	BW	49	ASN
43	BW	56	HIS
44	BX	31	GLN
44	BX	36	GLN
44	BX	38	GLN
44	BX	45	GLN
44	BX	58	ASN
45	BY	8	GLN
45	BY	19	HIS
46	BZ	30	HIS
46	BZ	41	HIS
46	BZ	65	ASN
47	B0	3	GLN
48	B1	25	ASN
50	B3	23	HIS
51	B4	13	ASN
51	B4	35	GLN
52	BI	11	GLN
52	BI	29	GLN
52	BI	30	GLN
52	BI	33	ASN
52	BI	93	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	CC	2	GLN
2	CC	101	ASN
2	CC	184	ASN
2	CC	189	HIS
3	CD	39	GLN
3	CD	53	GLN
3	CD	58	GLN
3	CD	99	ASN
3	CD	115	GLN
3	CD	119	HIS
3	CD	130	ASN
3	CD	135	GLN
3	CD	151	GLN
3	CD	163	GLN
4	CE	42	ASN
4	CE	72	ASN
4	CE	145	ASN
5	CF	17	GLN
5	CF	46	GLN
5	CF	63	ASN
6	CG	8	GLN
6	CG	27	ASN
6	CG	121	ASN
7	CH	3	GLN
7	CH	17	GLN
7	CH	37	ASN
7	CH	75	GLN
7	CH	117	GLN
8	CI	80	HIS
8	CI	109	GLN
9	CJ	58	ASN
9	CJ	99	GLN
10	CK	28	ASN
10	CK	37	GLN
10	CK	63	GLN
10	CK	108	ASN
10	CK	118	ASN
11	CL	28	GLN
11	CL	45	ASN
11	CL	71	HIS
12	CM	7	ASN
13	CN	34	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	CN	61	ASN
14	CO	36	ASN
15	CP	40	ASN
15	CP	63	GLN
16	CQ	8	GLN
17	CR	51	GLN
18	CS	42	ASN
18	CS	52	ASN
19	CT	2	ASN
19	CT	69	ASN
19	CT	74	HIS
19	CT	83	ASN
20	CB	23	ASN
20	CB	50	ASN
20	CB	108	GLN
20	CB	119	GLN
20	CB	121	GLN
20	CB	145	ASN
20	CB	202	ASN
24	DV	78	GLN
24	DV	87	GLN
25	DC	45	ASN
25	DC	52	HIS
25	DC	59	GLN
25	DC	127	ASN
25	DC	133	ASN
25	DC	141	HIS
25	DC	162	GLN
25	DC	196	ASN
25	DC	199	HIS
25	DC	225	ASN
25	DC	238	ASN
25	DC	259	ASN
26	DD	32	ASN
26	DD	36	GLN
26	DD	94	GLN
26	DD	164	GLN
26	DD	173	GLN
27	DE	24	ASN
27	DE	30	GLN
27	DE	94	GLN
27	DE	195	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
28	DF	36	ASN
28	DF	134	GLN
29	DG	29	ASN
29	DG	63	GLN
29	DG	72	ASN
29	DG	87	GLN
30	DH	20	ASN
30	DH	128	HIS
30	DH	133	GLN
31	DJ	135	GLN
32	DK	13	ASN
33	DL	104	GLN
34	DM	17	ASN
34	DM	22	GLN
34	DM	45	GLN
34	DM	60	GLN
34	DM	97	GLN
35	DN	9	GLN
35	DN	11	ASN
35	DN	18	GLN
35	DN	73	ASN
35	DN	81	ASN
35	DN	107	ASN
36	DO	34	HIS
36	DO	67	ASN
36	DO	98	GLN
36	DO	100	HIS
36	DO	104	GLN
37	DP	9	GLN
37	DP	11	GLN
37	DP	55	HIS
38	DQ	19	GLN
38	DQ	43	GLN
38	DQ	51	GLN
38	DQ	58	GLN
38	DQ	80	ASN
39	DR	6	GLN
39	DR	12	HIS
39	DR	43	ASN
39	DR	86	GLN
40	DS	7	HIS
40	DS	15	GLN

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Mol	Chain	Res	Type
40	DS	40	ASN
40	DS	57	ASN
41	DT	48	GLN
42	DU	52	ASN
42	DU	53	GLN
42	DU	65	GLN
43	DW	39	GLN
43	DW	56	HIS
44	DX	31	GLN
44	DX	45	GLN
45	DY	48	ASN
46	DZ	48	GLN
46	DZ	65	ASN
47	D0	4	GLN
48	D1	44	GLN
48	D1	45	HIS
49	D2	29	GLN
51	D4	13	ASN
52	DI	33	ASN

### 5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1529/1542 (99%)	277 (18%)	25 (1%)
1	CA	1529/1542 (99%)	249 (16%)	26 (1%)
22	BA	116/120 (96%)	23 (19%)	0
22	DA	116/120 (96%)	20 (17%)	1 (0%)
23	BB	2837/2904 (97%)	451 (15%)	18 (0%)
23	DB	2837/2904 (97%)	482 (16%)	22 (0%)
All	All	8964/9132 (98%)	1502 (16%)	92 (1%)

All (1502) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	A
1	AA	9	G
1	AA	14	U
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	48	C
1	AA	51	A
1	AA	52	C
1	AA	55	A
1	AA	61	G
1	AA	66	A
1	AA	72	A
1	AA	76	G
1	AA	78	A
1	AA	79	G
1	AA	83	C
1	AA	85	U
1	AA	86	G
1	AA	87	C
1	AA	88	U
1	AA	89	U
1	AA	95	C
1	AA	108	G
1	AA	121	U
1	AA	122	G
1	AA	131	A
1	AA	151	A
1	AA	164	G
1	AA	182	A
1	AA	183	C
1	AA	197	A
1	AA	209	U
1	AA	210	C
1	AA	239	U
1	AA	240	G
1	AA	243	A
1	AA	244	U
1	AA	245	U
1	AA	247	G
1	AA	250	A
1	AA	251	G
1	AA	253	A
1	AA	257	G
1	AA	258	G
1	AA	266	G
1	AA	267	C
1	AA	280	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	289	G
1	AA	316	C
1	AA	324	G
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	345	C
1	AA	352	C
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	373	A
1	AA	381	C
1	AA	382	A
1	AA	397	A
1	AA	398	U
1	AA	406	G
1	AA	408	A
1	AA	411	A
1	AA	412	A
1	AA	414	A
1	AA	415	A
1	AA	421	U
1	AA	422	C
1	AA	424	G
1	AA	429	U
1	AA	430	A
1	AA	434	U
1	AA	435	A
1	AA	438	U
1	AA	459	A
1	AA	461	A
1	AA	462	G
1	AA	463	U
1	AA	464	U
1	AA	465	A
1	AA	466	A
1	AA	467	U
1	AA	468	A
1	AA	469	C
1	AA	476	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	481	G
1	AA	482	A
1	AA	484	G
1	AA	485	U
1	AA	493	A
1	AA	500	G
1	AA	511	C
1	AA	518	C
1	AA	522	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	547	A
1	AA	559	A
1	AA	562	U
1	AA	572	A
1	AA	573	A
1	AA	576	C
1	AA	577	G
1	AA	607	A
1	AA	639	G
1	AA	650	G
1	AA	653	U
1	AA	665	A
1	AA	693	G
1	AA	700	G
1	AA	721	G
1	AA	724	G
1	AA	731	G
1	AA	733	G
1	AA	747	A
1	AA	748	G
1	AA	755	G
1	AA	777	A
1	AA	781	A
1	AA	782	A
1	AA	793	U
1	AA	794	A
1	AA	812	G
1	AA	815	A
1	AA	817	C
1	AA	818	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	819	A
1	AA	828	U
1	AA	829	G
1	AA	841	C
1	AA	842	U
1	AA	843	U
1	AA	844	G
1	AA	845	A
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	931	C
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	976	G
1	AA	977	A
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1002	G
1	AA	1004	A
1	AA	1009	U
1	AA	1022	A
1	AA	1026	G
1	AA	1030	U
1	AA	1031	C
1	AA	1034	G
1	AA	1035	A
1	AA	1043	G
1	AA	1044	A
1	AA	1045	C
1	AA	1049	U
1	AA	1050	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1051	C
1	AA	1053	G
1	AA	1054	C
1	AA	1055	A
1	AA	1065	U
1	AA	1066	C
1	AA	1070	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1108	G
1	AA	1111	A
1	AA	1112	C
1	AA	1126	U
1	AA	1130	A
1	AA	1136	C
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1158	C
1	AA	1159	U
1	AA	1168	U
1	AA	1169	A
1	AA	1174	G
1	AA	1179	A
1	AA	1181	G
1	AA	1183	U
1	AA	1196	A
1	AA	1197	A
1	AA	1201	A
1	AA	1202	U
1	AA	1209	C
1	AA	1212	U
1	AA	1213	A
1	AA	1214	C
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1228	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1253	G
1	AA	1256	A
1	AA	1258	G
1	AA	1261	A
1	AA	1270	G
1	AA	1278	G
1	AA	1279	G
1	AA	1280	A
1	AA	1281	C
1	AA	1285	A
1	AA	1286	U
1	AA	1287	A
1	AA	1298	U
1	AA	1300	G
1	AA	1301	U
1	AA	1305	G
1	AA	1316	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1336	C
1	AA	1338	G
1	AA	1346	A
1	AA	1347	G
1	AA	1353	G
1	AA	1362	A
1	AA	1363	A
1	AA	1364	U
1	AA	1378	C
1	AA	1379	G
1	AA	1380	U
1	AA	1381	U
1	AA	1398	A
1	AA	1403	C
1	AA	1404	C
1	AA	1409	C
1	AA	1419	G
1	AA	1432	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	1446	A
1	AA	1447	A
1	AA	1451	U
1	AA	1452	C
1	AA	1490	U
1	AA	1493	A
1	AA	1497	G
1	AA	1499	A
1	AA	1503	A
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	C
1	AA	1529	G
1	AA	1530	G
1	AA	1533	C
1	AA	1534	A
22	BA	11	C
22	BA	12	C
22	BA	13	G
22	BA	14	U
22	BA	15	A
22	BA	16	G
22	BA	25	U
22	BA	26	C
22	BA	28	C
22	BA	29	A
22	BA	30	C
22	BA	35	C
22	BA	42	C
22	BA	44	G
22	BA	45	A
22	BA	56	G
22	BA	66	A
22	BA	67	G
22	BA	84	G
22	BA	90	C
22	BA	99	A
22	BA	108	A
22	BA	109	A
23	BB	2	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	3	U
23	BB	4	U
23	BB	13	A
23	BB	14	A
23	BB	33	C
23	BB	34	U
23	BB	35	G
23	BB	46	G
23	BB	49	A
23	BB	63	A
23	BB	64	A
23	BB	71	A
23	BB	74	A
23	BB	75	G
23	BB	84	A
23	BB	85	G
23	BB	91	A
23	BB	92	U
23	BB	96	C
23	BB	100	U
23	BB	101	A
23	BB	102	U
23	BB	103	A
23	BB	104	A
23	BB	118	A
23	BB	119	A
23	BB	120	U
23	BB	125	A
23	BB	126	A
23	BB	140	C
23	BB	142	A
23	BB	144	A
23	BB	160	A
23	BB	162	U
23	BB	163	C
23	BB	181	A
23	BB	186	G
23	BB	196	A
23	BB	199	A
23	BB	209	C
23	BB	216	A
23	BB	221	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	222	A
23	BB	224	U
23	BB	230	G
23	BB	241	A
23	BB	248	G
23	BB	252	G
23	BB	255	A
23	BB	265	A
23	BB	266	G
23	BB	271	G
23	BB	277	G
23	BB	278	A
23	BB	279	A
23	BB	311	A
23	BB	312	G
23	BB	323	C
23	BB	324	A
23	BB	329	G
23	BB	330	A
23	BB	349	U
23	BB	353	C
23	BB	355	U
23	BB	371	A
23	BB	372	G
23	BB	386	G
23	BB	387	U
23	BB	395	U
23	BB	396	G
23	BB	397	U
23	BB	405	U
23	BB	411	G
23	BB	423	A
23	BB	424	G
23	BB	435	C
23	BB	444	C
23	BB	451	U
23	BB	455	C
23	BB	457	A
23	BB	479	A
23	BB	480	A
23	BB	481	G
23	BB	491	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	498	G
23	BB	504	A
23	BB	505	A
23	BB	508	A
23	BB	509	C
23	BB	512	G
23	BB	518	G
23	BB	527	C
23	BB	530	G
23	BB	532	A
23	BB	533	G
23	BB	544	C
23	BB	545	U
23	BB	546	U
23	BB	547	A
23	BB	548	G
23	BB	555	G
23	BB	563	A
23	BB	572	A
23	BB	573	U
23	BB	575	A
23	BB	588	U
23	BB	603	A
23	BB	613	A
23	BB	614	A
23	BB	615	U
23	BB	616	A
23	BB	627	A
23	BB	632	A
23	BB	637	A
23	BB	640	C
23	BB	645	C
23	BB	646	U
23	BB	654	A
23	BB	655	A
23	BB	671	C
23	BB	686	U
23	BB	717	C
23	BB	719	C
23	BB	722	A
23	BB	728	G
23	BB	730	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	747	U
23	BB	757	G
23	BB	765	C
23	BB	775	G
23	BB	782	A
23	BB	784	G
23	BB	785	G
23	BB	805	G
23	BB	806	C
23	BB	812	C
23	BB	819	A
23	BB	827	U
23	BB	828	U
23	BB	846	U
23	BB	847	U
23	BB	859	G
23	BB	872	U
23	BB	876	C
23	BB	877	A
23	BB	878	A
23	BB	899	A
23	BB	910	A
23	BB	912	C
23	BB	932	U
23	BB	933	A
23	BB	934	U
23	BB	941	A
23	BB	946	C
23	BB	955	U
23	BB	961	C
23	BB	973	A
23	BB	974	G
23	BB	983	A
23	BB	985	C
23	BB	989	G
23	BB	991	C
23	BB	993	G
23	BB	995	C
23	BB	996	A
23	BB	1005	C
23	BB	1012	U
23	BB	1013	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	1019	U
23	BB	1022	G
23	BB	1025	G
23	BB	1026	G
23	BB	1033	U
23	BB	1042	G
23	BB	1046	A
23	BB	1047	G
23	BB	1070	A
23	BB	1088	A
23	BB	1090	A
23	BB	1112	G
23	BB	1122	G
23	BB	1126	A
23	BB	1132	U
23	BB	1133	A
23	BB	1134	A
23	BB	1135	C
23	BB	1136	G
23	BB	1139	G
23	BB	1142	A
23	BB	1156	A
23	BB	1157	G
23	BB	1172	C
23	BB	1174	U
23	BB	1176	U
23	BB	1179	G
23	BB	1195	G
23	BB	1205	A
23	BB	1206	G
23	BB	1211	C
23	BB	1212	G
23	BB	1218	G
23	BB	1237	A
23	BB	1247	A
23	BB	1248	G
23	BB	1251	C
23	BB	1253	A
23	BB	1256	G
23	BB	1266	G
23	BB	1271	G
23	BB	1272	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	1273	U
23	BB	1275	A
23	BB	1276	A
23	BB	1301	A
23	BB	1302	A
23	BB	1312	U
23	BB	1325	U
23	BB	1330	C
23	BB	1337	G
23	BB	1341	G
23	BB	1345	C
23	BB	1352	U
23	BB	1365	A
23	BB	1368	G
23	BB	1379	U
23	BB	1383	A
23	BB	1384	A
23	BB	1396	U
23	BB	1397	U
23	BB	1416	G
23	BB	1419	A
23	BB	1420	A
23	BB	1427	A
23	BB	1428	C
23	BB	1434	A
23	BB	1450	G
23	BB	1451	C
23	BB	1453	A
23	BB	1454	C
23	BB	1455	G
23	BB	1459	G
23	BB	1460	U
23	BB	1461	C
23	BB	1476	U
23	BB	1477	A
23	BB	1478	G
23	BB	1482	G
23	BB	1490	A
23	BB	1493	C
23	BB	1494	A
23	BB	1504	A
23	BB	1508	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	1509	A
23	BB	1510	G
23	BB	1524	G
23	BB	1532	A
23	BB	1535	A
23	BB	1537	G
23	BB	1538	G
23	BB	1540	G
23	BB	1552	A
23	BB	1558	C
23	BB	1559	U
23	BB	1567	G
23	BB	1569	A
23	BB	1578	U
23	BB	1583	A
23	BB	1585	C
23	BB	1608	A
23	BB	1610	A
23	BB	1613	G
23	BB	1634	A
23	BB	1635	A
23	BB	1640	A
23	BB	1647	U
23	BB	1648	U
23	BB	1649	G
23	BB	1674	G
23	BB	1700	A
23	BB	1701	A
23	BB	1703	G
23	BB	1706	C
23	BB	1707	G
23	BB	1713	A
23	BB	1715	G
23	BB	1716	U
23	BB	1723	G
23	BB	1729	U
23	BB	1730	C
23	BB	1731	G
23	BB	1733	G
23	BB	1738	G
23	BB	1756	G
23	BB	1758	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	1764	C
23	BB	1773	A
23	BB	1776	G
23	BB	1781	U
23	BB	1786	A
23	BB	1791	A
23	BB	1800	C
23	BB	1801	A
23	BB	1816	C
23	BB	1829	A
23	BB	1833	C
23	BB	1870	C
23	BB	1873	G
23	BB	1876	A
23	BB	1884	G
23	BB	1906	G
23	BB	1914	C
23	BB	1927	A
23	BB	1929	G
23	BB	1930	G
23	BB	1937	A
23	BB	1938	A
23	BB	1939	U
23	BB	1940	U
23	BB	1955	U
23	BB	1967	C
23	BB	1970	A
23	BB	1971	U
23	BB	1972	G
23	BB	1991	U
23	BB	1993	U
23	BB	1997	C
23	BB	2022	U
23	BB	2023	C
23	BB	2031	A
23	BB	2032	G
23	BB	2033	A
23	BB	2043	C
23	BB	2052	A
23	BB	2055	C
23	BB	2056	G
23	BB	2060	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	2061	G
23	BB	2062	A
23	BB	2069	G
23	BB	2072	C
23	BB	2095	A
23	BB	2102	G
23	BB	2104	C
23	BB	2137	U
23	BB	2140	G
23	BB	2141	G
23	BB	2144	G
23	BB	2145	C
23	BB	2147	A
23	BB	2149	U
23	BB	2181	U
23	BB	2187	U
23	BB	2192	U
23	BB	2199	A
23	BB	2204	G
23	BB	2211	A
23	BB	2212	A
23	BB	2225	A
23	BB	2226	C
23	BB	2238	G
23	BB	2239	G
23	BB	2243	U
23	BB	2259	U
23	BB	2266	A
23	BB	2273	A
23	BB	2276	G
23	BB	2278	A
23	BB	2283	C
23	BB	2286	G
23	BB	2287	A
23	BB	2297	A
23	BB	2304	G
23	BB	2305	U
23	BB	2307	G
23	BB	2310	C
23	BB	2315	G
23	BB	2318	G
23	BB	2319	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	2320	U
23	BB	2321	U
23	BB	2322	A
23	BB	2325	G
23	BB	2333	A
23	BB	2334	U
23	BB	2336	A
23	BB	2337	G
23	BB	2347	C
23	BB	2383	G
23	BB	2385	C
23	BB	2402	U
23	BB	2406	A
23	BB	2423	U
23	BB	2424	C
23	BB	2426	A
23	BB	2429	G
23	BB	2430	A
23	BB	2434	A
23	BB	2441	U
23	BB	2448	A
23	BB	2472	G
23	BB	2476	A
23	BB	2491	U
23	BB	2502	G
23	BB	2505	G
23	BB	2506	U
23	BB	2518	A
23	BB	2529	G
23	BB	2535	G
23	BB	2554	U
23	BB	2566	A
23	BB	2567	G
23	BB	2573	C
23	BB	2585	U
23	BB	2586	U
23	BB	2597	G
23	BB	2602	A
23	BB	2609	U
23	BB	2610	C
23	BB	2613	U
23	BB	2621	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	BB	2629	U
23	BB	2654	A
23	BB	2682	A
23	BB	2689	U
23	BB	2690	U
23	BB	2714	G
23	BB	2726	A
23	BB	2739	U
23	BB	2744	G
23	BB	2748	A
23	BB	2751	G
23	BB	2752	C
23	BB	2757	A
23	BB	2765	A
23	BB	2778	A
23	BB	2791	G
23	BB	2797	U
23	BB	2800	A
23	BB	2801	G
23	BB	2808	G
23	BB	2820	A
23	BB	2821	A
23	BB	2836	U
23	BB	2850	A
23	BB	2866	U
23	BB	2867	G
23	BB	2872	A
23	BB	2873	A
23	BB	2883	A
23	BB	2903	U
1	CA	7	A
1	CA	9	G
1	CA	14	U
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	52	C
1	CA	55	A
1	CA	61	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	71	A
1	CA	72	A
1	CA	83	C
1	CA	85	U
1	CA	87	C
1	CA	92	U
1	CA	93	U
1	CA	94	G
1	CA	108	G
1	CA	121	U
1	CA	122	G
1	CA	131	A
1	CA	151	A
1	CA	164	G
1	CA	182	A
1	CA	183	C
1	CA	197	A
1	CA	209	U
1	CA	210	C
1	CA	239	U
1	CA	240	G
1	CA	243	A
1	CA	244	U
1	CA	245	U
1	CA	247	G
1	CA	250	A
1	CA	251	G
1	CA	253	A
1	CA	257	G
1	CA	258	G
1	CA	266	G
1	CA	267	C
1	CA	280	C
1	CA	289	G
1	CA	316	C
1	CA	324	G
1	CA	328	C
1	CA	329	A
1	CA	330	C
1	CA	332	G
1	CA	345	C
1	CA	352	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	354	G
1	CA	367	U
1	CA	372	C
1	CA	373	A
1	CA	382	A
1	CA	397	A
1	CA	398	U
1	CA	406	G
1	CA	408	A
1	CA	411	A
1	CA	412	A
1	CA	414	A
1	CA	415	A
1	CA	421	U
1	CA	422	C
1	CA	424	G
1	CA	429	U
1	CA	430	A
1	CA	434	U
1	CA	435	A
1	CA	438	U
1	CA	459	A
1	CA	461	A
1	CA	462	G
1	CA	463	U
1	CA	464	U
1	CA	465	A
1	CA	466	A
1	CA	467	U
1	CA	468	A
1	CA	469	C
1	CA	476	U
1	CA	479	U
1	CA	481	G
1	CA	482	A
1	CA	484	G
1	CA	485	U
1	CA	493	A
1	CA	500	G
1	CA	511	C
1	CA	518	C
1	CA	522	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	547	A
1	CA	559	A
1	CA	562	U
1	CA	572	A
1	CA	573	A
1	CA	576	C
1	CA	577	G
1	CA	607	A
1	CA	639	G
1	CA	650	G
1	CA	653	U
1	CA	665	A
1	CA	693	G
1	CA	700	G
1	CA	721	G
1	CA	724	G
1	CA	731	G
1	CA	733	G
1	CA	747	A
1	CA	748	G
1	CA	755	G
1	CA	781	A
1	CA	782	A
1	CA	793	U
1	CA	794	A
1	CA	812	G
1	CA	815	A
1	CA	817	C
1	CA	818	G
1	CA	819	A
1	CA	828	U
1	CA	829	G
1	CA	841	C
1	CA	842	U
1	CA	843	U
1	CA	844	G
1	CA	845	A
1	CA	907	A
1	CA	914	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	945	G
1	CA	961	U
1	CA	966	G
1	CA	969	A
1	CA	974	A
1	CA	976	G
1	CA	977	A
1	CA	981	U
1	CA	984	C
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1004	A
1	CA	1009	U
1	CA	1010	U
1	CA	1020	G
1	CA	1022	A
1	CA	1023	U
1	CA	1025	U
1	CA	1031	C
1	CA	1033	G
1	CA	1034	G
1	CA	1036	A
1	CA	1044	A
1	CA	1050	G
1	CA	1053	G
1	CA	1054	C
1	CA	1063	C
1	CA	1065	U
1	CA	1066	C
1	CA	1091	U
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1118	U
1	CA	1129	C
1	CA	1130	A
1	CA	1135	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1136	C
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1144	G
1	CA	1159	U
1	CA	1160	G
1	CA	1166	G
1	CA	1178	G
1	CA	1184	G
1	CA	1188	A
1	CA	1190	G
1	CA	1196	A
1	CA	1197	A
1	CA	1201	A
1	CA	1202	U
1	CA	1212	U
1	CA	1213	A
1	CA	1214	C
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1241	G
1	CA	1250	A
1	CA	1256	A
1	CA	1257	A
1	CA	1258	G
1	CA	1279	G
1	CA	1280	A
1	CA	1281	C
1	CA	1282	C
1	CA	1285	A
1	CA	1298	U
1	CA	1300	G
1	CA	1301	U
1	CA	1302	C
1	CA	1303	C
1	CA	1305	G
1	CA	1317	C
1	CA	1318	A
1	CA	1320	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1331	G
1	CA	1362	A
1	CA	1363	A
1	CA	1364	U
1	CA	1380	U
1	CA	1397	C
1	CA	1398	A
1	CA	1400	C
1	CA	1401	G
1	CA	1419	G
1	CA	1426	G
1	CA	1432	G
1	CA	1446	A
1	CA	1451	U
1	CA	1452	C
1	CA	1491	G
1	CA	1493	A
1	CA	1497	G
1	CA	1503	A
1	CA	1506	U
1	CA	1507	A
1	CA	1517	G
1	CA	1520	C
1	CA	1529	G
1	CA	1530	G
1	CA	1533	C
1	CA	1534	A
22	DA	13	G
22	DA	15	A
22	DA	16	G
22	DA	18	G
22	DA	25	U
22	DA	26	C
22	DA	27	C
22	DA	28	C
22	DA	29	A
22	DA	42	C
22	DA	52	A
22	DA	56	G
22	DA	57	A
22	DA	66	A
22	DA	67	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
22	DA	89	U
22	DA	90	C
22	DA	96	G
22	DA	99	A
22	DA	109	A
23	DB	2	G
23	DB	12	U
23	DB	27	G
23	DB	35	G
23	DB	46	G
23	DB	49	A
23	DB	51	G
23	DB	52	A
23	DB	63	A
23	DB	64	A
23	DB	71	A
23	DB	74	A
23	DB	75	G
23	DB	91	A
23	DB	98	G
23	DB	99	U
23	DB	100	U
23	DB	101	A
23	DB	102	U
23	DB	103	A
23	DB	118	A
23	DB	119	A
23	DB	120	U
23	DB	124	G
23	DB	125	A
23	DB	126	A
23	DB	128	C
23	DB	139	U
23	DB	141	G
23	DB	144	A
23	DB	160	A
23	DB	162	U
23	DB	163	C
23	DB	180	G
23	DB	181	A
23	DB	196	A
23	DB	206	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	216	A
23	DB	221	A
23	DB	222	A
23	DB	227	A
23	DB	230	G
23	DB	243	U
23	DB	248	G
23	DB	250	G
23	DB	252	G
23	DB	255	A
23	DB	265	A
23	DB	266	G
23	DB	267	C
23	DB	271	G
23	DB	277	G
23	DB	278	A
23	DB	281	C
23	DB	288	U
23	DB	289	G
23	DB	299	A
23	DB	301	G
23	DB	302	C
23	DB	311	A
23	DB	312	G
23	DB	322	A
23	DB	323	C
23	DB	329	G
23	DB	330	A
23	DB	333	G
23	DB	346	A
23	DB	353	C
23	DB	354	A
23	DB	355	U
23	DB	361	G
23	DB	362	A
23	DB	363	G
23	DB	365	U
23	DB	371	A
23	DB	372	G
23	DB	376	G
23	DB	386	G
23	DB	387	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	396	G
23	DB	403	U
23	DB	404	A
23	DB	405	U
23	DB	406	G
23	DB	411	G
23	DB	412	A
23	DB	424	G
23	DB	444	C
23	DB	448	U
23	DB	449	A
23	DB	450	G
23	DB	451	U
23	DB	455	C
23	DB	456	C
23	DB	457	A
23	DB	458	G
23	DB	475	C
23	DB	479	A
23	DB	480	A
23	DB	481	G
23	DB	491	G
23	DB	492	A
23	DB	504	A
23	DB	505	A
23	DB	506	G
23	DB	508	A
23	DB	509	C
23	DB	512	G
23	DB	515	A
23	DB	527	C
23	DB	529	A
23	DB	530	G
23	DB	531	C
23	DB	532	A
23	DB	533	G
23	DB	542	C
23	DB	544	C
23	DB	545	U
23	DB	546	U
23	DB	547	A
23	DB	548	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	549	G
23	DB	550	C
23	DB	554	U
23	DB	563	A
23	DB	572	A
23	DB	573	U
23	DB	575	A
23	DB	588	U
23	DB	603	A
23	DB	613	A
23	DB	614	A
23	DB	615	U
23	DB	616	A
23	DB	627	A
23	DB	632	A
23	DB	637	A
23	DB	640	C
23	DB	645	C
23	DB	646	U
23	DB	654	A
23	DB	655	A
23	DB	671	C
23	DB	686	U
23	DB	704	G
23	DB	718	A
23	DB	719	C
23	DB	727	A
23	DB	730	A
23	DB	747	U
23	DB	757	G
23	DB	765	C
23	DB	775	G
23	DB	782	A
23	DB	784	G
23	DB	785	G
23	DB	805	G
23	DB	806	C
23	DB	812	C
23	DB	819	A
23	DB	827	U
23	DB	828	U
23	DB	844	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	846	U
23	DB	847	U
23	DB	859	G
23	DB	869	G
23	DB	873	C
23	DB	877	A
23	DB	899	A
23	DB	910	A
23	DB	912	C
23	DB	919	U
23	DB	931	U
23	DB	932	U
23	DB	933	A
23	DB	941	A
23	DB	946	C
23	DB	955	U
23	DB	961	C
23	DB	973	A
23	DB	974	G
23	DB	982	C
23	DB	983	A
23	DB	989	G
23	DB	990	A
23	DB	991	C
23	DB	995	C
23	DB	996	A
23	DB	1012	U
23	DB	1013	C
23	DB	1022	G
23	DB	1025	G
23	DB	1033	U
23	DB	1034	G
23	DB	1046	A
23	DB	1047	G
23	DB	1062	G
23	DB	1070	A
23	DB	1088	A
23	DB	1090	A
23	DB	1098	A
23	DB	1099	G
23	DB	1111	A
23	DB	1112	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	1116	G
23	DB	1130	U
23	DB	1132	U
23	DB	1133	A
23	DB	1134	A
23	DB	1136	G
23	DB	1171	G
23	DB	1174	U
23	DB	1176	U
23	DB	1179	G
23	DB	1195	G
23	DB	1205	A
23	DB	1206	G
23	DB	1211	C
23	DB	1212	G
23	DB	1225	G
23	DB	1237	A
23	DB	1238	G
23	DB	1241	A
23	DB	1242	U
23	DB	1247	A
23	DB	1248	G
23	DB	1249	U
23	DB	1251	C
23	DB	1252	G
23	DB	1253	A
23	DB	1256	G
23	DB	1258	U
23	DB	1266	G
23	DB	1271	G
23	DB	1272	A
23	DB	1273	U
23	DB	1275	A
23	DB	1276	A
23	DB	1301	A
23	DB	1302	A
23	DB	1312	U
23	DB	1325	U
23	DB	1330	C
23	DB	1337	G
23	DB	1341	G
23	DB	1342	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	1345	C
23	DB	1352	U
23	DB	1365	A
23	DB	1368	G
23	DB	1379	U
23	DB	1383	A
23	DB	1384	A
23	DB	1396	U
23	DB	1397	U
23	DB	1416	G
23	DB	1419	A
23	DB	1420	A
23	DB	1427	A
23	DB	1428	C
23	DB	1434	A
23	DB	1450	G
23	DB	1451	C
23	DB	1453	A
23	DB	1454	C
23	DB	1455	G
23	DB	1459	G
23	DB	1460	U
23	DB	1461	C
23	DB	1476	U
23	DB	1477	A
23	DB	1478	G
23	DB	1482	G
23	DB	1490	A
23	DB	1493	C
23	DB	1494	A
23	DB	1504	A
23	DB	1508	A
23	DB	1509	A
23	DB	1510	G
23	DB	1524	G
23	DB	1532	A
23	DB	1535	A
23	DB	1537	G
23	DB	1538	G
23	DB	1540	G
23	DB	1552	A
23	DB	1558	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	1559	U
23	DB	1567	G
23	DB	1569	A
23	DB	1578	U
23	DB	1583	A
23	DB	1585	C
23	DB	1608	A
23	DB	1610	A
23	DB	1613	G
23	DB	1634	A
23	DB	1635	A
23	DB	1640	A
23	DB	1647	U
23	DB	1648	U
23	DB	1649	G
23	DB	1674	G
23	DB	1700	A
23	DB	1701	A
23	DB	1703	G
23	DB	1706	C
23	DB	1707	G
23	DB	1713	A
23	DB	1715	G
23	DB	1716	U
23	DB	1723	G
23	DB	1729	U
23	DB	1730	C
23	DB	1731	G
23	DB	1733	G
23	DB	1738	G
23	DB	1756	G
23	DB	1758	U
23	DB	1764	C
23	DB	1773	A
23	DB	1776	G
23	DB	1781	U
23	DB	1786	A
23	DB	1791	A
23	DB	1800	C
23	DB	1801	A
23	DB	1816	C
23	DB	1829	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	1833	C
23	DB	1870	C
23	DB	1873	G
23	DB	1876	A
23	DB	1884	G
23	DB	1906	G
23	DB	1913	A
23	DB	1914	C
23	DB	1927	A
23	DB	1929	G
23	DB	1930	G
23	DB	1937	A
23	DB	1938	A
23	DB	1939	U
23	DB	1940	U
23	DB	1955	U
23	DB	1967	C
23	DB	1970	A
23	DB	1971	U
23	DB	1972	G
23	DB	1991	U
23	DB	1993	U
23	DB	1997	C
23	DB	2022	U
23	DB	2023	C
23	DB	2031	A
23	DB	2032	G
23	DB	2033	A
23	DB	2043	C
23	DB	2055	C
23	DB	2056	G
23	DB	2060	A
23	DB	2061	G
23	DB	2062	A
23	DB	2069	G
23	DB	2076	U
23	DB	2077	A
23	DB	2094	A
23	DB	2096	C
23	DB	2100	G
23	DB	2104	C
23	DB	2106	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	2107	G
23	DB	2108	A
23	DB	2109	U
23	DB	2110	G
23	DB	2134	A
23	DB	2135	A
23	DB	2138	G
23	DB	2145	C
23	DB	2146	C
23	DB	2147	A
23	DB	2149	U
23	DB	2156	G
23	DB	2157	G
23	DB	2181	U
23	DB	2183	A
23	DB	2190	G
23	DB	2199	A
23	DB	2204	G
23	DB	2210	U
23	DB	2211	A
23	DB	2212	A
23	DB	2225	A
23	DB	2239	G
23	DB	2250	G
23	DB	2253	G
23	DB	2268	A
23	DB	2270	A
23	DB	2283	C
23	DB	2287	A
23	DB	2288	A
23	DB	2289	G
23	DB	2297	A
23	DB	2305	U
23	DB	2307	G
23	DB	2308	G
23	DB	2309	A
23	DB	2310	C
23	DB	2311	A
23	DB	2319	G
23	DB	2321	U
23	DB	2322	A
23	DB	2325	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	2333	A
23	DB	2334	U
23	DB	2336	A
23	DB	2337	G
23	DB	2347	C
23	DB	2361	G
23	DB	2383	G
23	DB	2385	C
23	DB	2402	U
23	DB	2406	A
23	DB	2423	U
23	DB	2424	C
23	DB	2426	A
23	DB	2429	G
23	DB	2430	A
23	DB	2434	A
23	DB	2441	U
23	DB	2448	A
23	DB	2472	G
23	DB	2476	A
23	DB	2491	U
23	DB	2502	G
23	DB	2505	G
23	DB	2506	U
23	DB	2518	A
23	DB	2529	G
23	DB	2535	G
23	DB	2554	U
23	DB	2566	A
23	DB	2567	G
23	DB	2573	C
23	DB	2585	U
23	DB	2586	U
23	DB	2597	G
23	DB	2602	A
23	DB	2609	U
23	DB	2610	C
23	DB	2613	U
23	DB	2621	G
23	DB	2629	U
23	DB	2654	A
23	DB	2682	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	DB	2689	U
23	DB	2690	U
23	DB	2714	G
23	DB	2726	A
23	DB	2739	U
23	DB	2744	G
23	DB	2751	G
23	DB	2757	A
23	DB	2765	A
23	DB	2778	A
23	DB	2791	G
23	DB	2797	U
23	DB	2800	A
23	DB	2801	G
23	DB	2808	G
23	DB	2820	A
23	DB	2821	A
23	DB	2836	U
23	DB	2850	A
23	DB	2866	U
23	DB	2867	G
23	DB	2872	A
23	DB	2873	A
23	DB	2883	A
23	DB	2903	U

All (92) RNA pucker outliers are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	51	A
1	AA	60	A
1	AA	243	A
1	AA	279	A
1	AA	328	C
1	AA	366	A
1	AA	372	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	576	C
1	AA	913	A
1	AA	960	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	975	A
1	AA	1025	U
1	AA	1049	U
1	AA	1065	U
1	AA	1101	A
1	AA	1181	G
1	AA	1201	A
1	AA	1226	C
1	AA	1300	G
1	AA	1302	C
1	AA	1397	C
1	AA	1528	U
23	BB	63	A
23	BB	102	U
23	BB	162	U
23	BB	529	A
23	BB	670	A
23	BB	858	G
23	BB	1205	A
23	BB	1210	G
23	BB	1236	G
23	BB	1250	G
23	BB	1301	A
23	BB	1913	A
23	BB	2198	A
23	BB	2258	C
23	BB	2282	G
23	BB	2336	A
23	BB	2425	A
23	BB	2756	U
1	CA	51	A
1	CA	60	A
1	CA	243	A
1	CA	279	A
1	CA	328	C
1	CA	366	A
1	CA	372	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	960	U
1	CA	975	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	1030	U
1	CA	1049	U
1	CA	1064	G
1	CA	1065	U
1	CA	1135	U
1	CA	1201	A
1	CA	1224	U
1	CA	1226	C
1	CA	1300	G
1	CA	1301	U
1	CA	1302	C
1	CA	1319	A
1	CA	1397	C
1	CA	1451	U
22	DA	25	U
23	DB	63	A
23	DB	125	A
23	DB	143	C
23	DB	162	U
23	DB	199	A
23	DB	301	G
23	DB	544	C
23	DB	670	A
23	DB	982	C
23	DB	1133	A
23	DB	1205	A
23	DB	1210	G
23	DB	1211	C
23	DB	1301	A
23	DB	2076	U
23	DB	2198	A
23	DB	2282	G
23	DB	2286	G
23	DB	2324	U
23	DB	2336	A
23	DB	2425	A
23	DB	2756	U

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

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

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 343 ligands modelled in this entry, 343 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
21	AU	2
21	CU	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	CU	25:ALA	C	26:GLY	N	1.60
1	AU	25:ALA	C	26:GLY	N	1.16
1	AU	15:LEU	C	16:ARG	N	0.99

## 6 Fit of model and data i

### 6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å <sup>2</sup> )	Q < 0.9
1	AA	1530/1542 (99%)	-0.28	11 (0%) 87 85	16, 66, 135, 180	0
1	CA	1530/1542 (99%)	-0.36	7 (0%) 91 89	11, 49, 119, 180	0
2	AC	206/232 (88%)	0.32	6 (2%) 51 49	8, 56, 116, 163	0
2	CC	206/232 (88%)	0.20	7 (3%) 45 43	13, 68, 122, 154	0
3	AD	205/205 (100%)	0.76	24 (11%) 4 6	16, 65, 125, 180	0
3	CD	205/205 (100%)	0.77	12 (5%) 22 23	5, 49, 103, 156	0
4	AE	150/166 (90%)	0.48	5 (3%) 46 44	5, 56, 104, 151	0
4	CE	150/166 (90%)	0.60	9 (6%) 21 22	5, 49, 101, 167	0
5	AF	100/135 (74%)	1.22	19 (19%) 1 1	19, 64, 113, 150	0
5	CF	100/135 (74%)	1.15	16 (16%) 1 3	10, 65, 113, 147	0
6	AG	150/178 (84%)	0.26	9 (6%) 21 22	23, 86, 133, 180	0
6	CG	152/178 (85%)	-0.07	4 (2%) 56 53	22, 83, 132, 166	0
7	AH	129/129 (100%)	0.81	17 (13%) 3 5	8, 63, 113, 155	0
7	CH	129/129 (100%)	0.73	15 (11%) 4 6	5, 49, 104, 154	0
8	AI	127/129 (98%)	0.25	10 (7%) 12 15	5, 83, 126, 169	0
8	CI	127/129 (98%)	-0.19	1 (0%) 86 82	22, 81, 135, 161	0
9	AJ	98/103 (95%)	0.36	5 (5%) 28 27	14, 76, 141, 160	0
9	CJ	98/103 (95%)	0.09	2 (2%) 65 63	27, 78, 122, 143	0
10	AK	117/128 (91%)	0.69	6 (5%) 28 27	6, 56, 99, 164	0
10	CK	117/128 (91%)	0.37	7 (5%) 21 22	5, 44, 95, 117	0
11	AL	123/123 (100%)	0.75	12 (9%) 7 9	18, 59, 115, 162	0
11	CL	123/123 (100%)	0.51	6 (4%) 29 29	5, 34, 109, 141	0
12	AM	114/117 (97%)	0.37	7 (6%) 21 22	37, 96, 137, 155	0
12	CM	113/117 (96%)	0.08	3 (2%) 54 52	19, 92, 143, 180	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AN	96/100 (96%)	0.11	5 (5%) 27 27	11, 76, 133, 147	0
13	CN	96/100 (96%)	0.06	5 (5%) 27 27	32, 73, 130, 160	0
14	AO	88/89 (98%)	0.69	8 (9%) 9 11	15, 62, 104, 177	0
14	CO	88/89 (98%)	0.79	7 (7%) 12 14	5, 46, 113, 136	0
15	AP	82/82 (100%)	0.54	8 (9%) 7 9	20, 72, 132, 171	0
15	CP	80/82 (97%)	0.34	4 (5%) 28 28	5, 42, 126, 137	0
16	AQ	80/83 (96%)	1.28	23 (28%) 0 0	34, 77, 119, 158	0
16	CQ	81/83 (97%)	0.85	9 (11%) 5 7	11, 52, 113, 155	0
17	AR	55/74 (74%)	0.88	9 (16%) 1 2	16, 60, 124, 148	0
17	CR	55/74 (74%)	0.75	7 (12%) 3 5	17, 45, 118, 139	0
18	AS	79/91 (86%)	0.53	9 (11%) 5 7	44, 110, 140, 169	0
18	CS	80/91 (87%)	0.38	5 (6%) 20 20	47, 99, 151, 161	0
19	AT	85/86 (98%)	0.08	1 (1%) 79 75	37, 83, 123, 155	0
19	CT	85/86 (98%)	0.18	1 (1%) 79 75	9, 49, 103, 138	0
20	AB	218/240 (90%)	0.93	38 (17%) 1 2	17, 82, 131, 156	0
20	CB	218/240 (90%)	1.27	54 (24%) 0 0	13, 90, 135, 162	0
21	AU	51/71 (71%)	0.66	5 (9%) 7 9	29, 80, 131, 158	0
21	CU	51/71 (71%)	0.62	4 (7%) 13 15	34, 73, 112, 140	0
22	BA	117/120 (97%)	-0.24	2 (1%) 70 67	36, 62, 94, 157	0
22	DA	117/120 (97%)	-0.22	2 (1%) 70 67	27, 62, 113, 180	0
23	BB	2841/2904 (97%)	-0.09	29 (1%) 82 79	10, 49, 134, 180	0
23	DB	2841/2904 (97%)	-0.17	24 (0%) 86 82	5, 39, 133, 180	0
24	BV	94/94 (100%)	0.74	13 (13%) 2 4	20, 75, 130, 149	0
24	DV	94/94 (100%)	0.83	7 (7%) 14 17	17, 71, 119, 130	0
25	BC	267/273 (97%)	1.22	51 (19%) 1 1	5, 51, 136, 180	0
25	DC	267/273 (97%)	1.58	77 (28%) 0 0	5, 46, 139, 180	0
26	BD	209/209 (100%)	2.25	91 (43%) 0 0	21, 82, 174, 180	0
26	DD	209/209 (100%)	1.21	45 (21%) 0 1	5, 60, 139, 180	0
27	BE	201/201 (100%)	1.58	61 (30%) 0 0	8, 78, 147, 180	0
27	DE	201/201 (100%)	1.30	40 (19%) 1 1	5, 76, 164, 180	0
28	BF	178/178 (100%)	1.18	37 (20%) 1 1	43, 98, 152, 180	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
28	DF	178/178 (100%)	0.39	15 (8%) 11 13	29, 89, 138, 180	0
29	BG	176/176 (100%)	1.19	33 (18%) 1 2	23, 94, 154, 180	0
29	DG	176/176 (100%)	1.02	32 (18%) 1 2	20, 86, 154, 172	0
30	BH	149/149 (100%)	2.78	78 (52%) 0 0	23, 120, 170, 180	0
30	DH	149/149 (100%)	1.57	47 (31%) 0 0	31, 100, 153, 180	0
31	BJ	140/142 (98%)	1.03	24 (17%) 1 2	14, 79, 160, 180	0
31	DJ	140/142 (98%)	0.93	22 (15%) 2 3	14, 61, 136, 162	0
32	BK	121/123 (98%)	1.44	30 (24%) 0 0	13, 57, 106, 147	0
32	DK	121/123 (98%)	0.52	2 (1%) 70 67	5, 37, 84, 143	0
33	BL	144/144 (100%)	2.79	67 (46%) 0 0	19, 93, 160, 180	0
33	DL	144/144 (100%)	2.02	57 (39%) 0 0	7, 74, 150, 179	0
34	BM	136/136 (100%)	0.83	20 (14%) 2 3	16, 71, 168, 180	0
34	DM	136/136 (100%)	1.64	40 (29%) 0 0	10, 66, 152, 180	0
35	BN	127/127 (100%)	1.64	30 (23%) 0 0	19, 67, 149, 180	0
35	DN	127/127 (100%)	0.88	12 (9%) 8 10	5, 45, 143, 180	0
36	BO	117/117 (100%)	2.03	34 (29%) 0 0	20, 82, 150, 180	0
36	DO	117/117 (100%)	1.22	19 (16%) 1 2	20, 77, 150, 169	0
37	BP	114/114 (100%)	1.85	49 (42%) 0 0	21, 84, 177, 180	0
37	DP	114/114 (100%)	1.40	30 (26%) 0 0	8, 69, 148, 180	0
38	BQ	117/117 (100%)	0.46	8 (6%) 17 19	8, 63, 125, 174	0
38	DQ	117/117 (100%)	1.12	19 (16%) 1 2	11, 57, 127, 180	0
39	BR	103/103 (100%)	1.50	28 (27%) 0 0	33, 100, 153, 180	0
39	DR	103/103 (100%)	2.34	45 (43%) 0 0	26, 92, 154, 180	0
40	BS	110/110 (100%)	1.12	19 (17%) 1 2	14, 57, 132, 180	0
40	DS	110/110 (100%)	0.69	10 (9%) 9 11	5, 45, 137, 175	0
41	BT	99/100 (99%)	1.12	20 (20%) 1 1	25, 73, 150, 170	0
41	DT	99/100 (99%)	1.54	28 (28%) 0 0	16, 84, 160, 180	0
42	BU	102/103 (99%)	1.64	33 (32%) 0 0	18, 92, 158, 178	0
42	DU	102/103 (99%)	0.60	14 (13%) 3 4	11, 103, 161, 180	0
43	BW	84/84 (100%)	2.26	31 (36%) 0 0	22, 87, 153, 180	0
43	DW	84/84 (100%)	1.58	29 (34%) 0 0	20, 81, 149, 180	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
44	BX	63/63 (100%)	1.45	12 (19%) 1 1	28, 92, 148, 170	0
44	DX	63/63 (100%)	1.48	18 (28%) 0 0	47, 96, 162, 171	0
45	BY	58/58 (100%)	1.62	13 (22%) 0 0	29, 72, 150, 180	0
45	DY	58/58 (100%)	1.16	7 (12%) 4 6	5, 60, 129, 177	0
46	BZ	70/70 (100%)	0.69	6 (8%) 10 13	20, 68, 134, 168	0
46	DZ	70/70 (100%)	0.89	7 (10%) 7 9	16, 59, 132, 180	0
47	B0	56/56 (100%)	2.15	21 (37%) 0 0	23, 89, 163, 180	0
47	D0	56/56 (100%)	1.55	12 (21%) 0 1	12, 61, 148, 180	0
48	B1	54/54 (100%)	2.30	21 (38%) 0 0	18, 89, 142, 179	0
48	D1	54/54 (100%)	2.78	27 (50%) 0 0	22, 77, 153, 173	0
49	B2	46/46 (100%)	0.74	7 (15%) 2 3	11, 47, 152, 180	0
49	D2	46/46 (100%)	0.58	1 (2%) 62 59	13, 48, 112, 129	0
50	B3	64/64 (100%)	1.48	16 (25%) 0 0	15, 61, 149, 180	0
50	D3	64/64 (100%)	1.33	14 (21%) 0 1	8, 55, 125, 169	0
51	B4	38/38 (100%)	1.62	10 (26%) 0 0	36, 85, 161, 180	0
51	D4	38/38 (100%)	1.62	12 (31%) 0 0	20, 80, 168, 180	0
52	BI	141/141 (100%)	2.90	87 (61%) 0 0	61, 151, 180, 180	0
52	DI	141/141 (100%)	1.55	44 (31%) 0 0	84, 157, 180, 180	0
All	All	20439/21034 (97%)	0.51	2161 (10%) 6 8	5, 61, 145, 180	0

All (2161) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
36	BO	57	ALA	23.4
36	BO	58	ILE	21.6
33	BL	98	ALA	18.3
45	BY	3	THR	17.6
36	BO	59	ALA	16.4
26	BD	92	VAL	13.7
35	BN	126	ALA	13.5
33	BL	82	LEU	12.8
43	BW	83	ALA	12.6
48	D1	4	ILE	12.5
35	BN	124	ALA	12.4
33	BL	83	ALA	12.4
33	BL	99	ASN	12.4

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Mol	Chain	Res	Type	RSRZ
26	BD	90	PHE	12.2
25	DC	7	PRO	12.1
33	BL	1	MET	11.9
25	BC	7	PRO	11.6
33	DL	100	ILE	11.6
27	DE	3	LEU	11.5
26	BD	133	THR	11.4
35	BN	125	ALA	11.3
27	DE	2	GLU	11.3
33	BL	9	ALA	11.2
44	BX	1	MET	11.0
33	DL	99	ASN	10.9
48	D1	3	GLY	10.9
33	BL	8	PRO	10.8
30	DH	122	LEU	10.8
27	BE	2	GLU	10.7
26	DD	69	ALA	10.6
42	BU	29	SER	10.5
35	BN	127	GLU	10.5
33	BL	97	ALA	10.5
40	BS	1	MET	10.4
33	BL	7	SER	10.4
26	BD	91	THR	10.4
35	BN	123	GLU	10.4
51	B4	1	MET	10.3
45	DY	58	GLU	10.0
23	BB	139	U	10.0
35	DN	119	SER	10.0
30	BH	91	PHE	10.0
30	BH	90	LEU	9.9
45	DY	1	ALA	9.9
26	BD	17	GLU	9.9
42	BU	1	ALA	9.9
43	BW	58	LEU	9.7
36	BO	69	ASP	9.7
34	DM	132	THR	9.6
36	BO	60	GLU	9.5
30	BH	93	SER	9.5
27	BE	1	MET	9.5
30	BH	124	THR	9.5
30	BH	147	VAL	9.5
43	BW	52	CYS	9.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BN	119	SER	9.3
44	DX	37	LEU	9.3
34	DM	134	THR	9.3
47	B0	56	LYS	9.3
48	D1	5	ARG	9.2
42	BU	89	GLY	9.2
43	BW	79	ILE	9.2
34	DM	133	LYS	9.2
31	BJ	131	ASN	9.2
28	DF	74	ALA	9.1
26	DD	90	PHE	9.1
27	BE	4	VAL	9.1
33	BL	5	THR	9.1
52	BI	47	SER	9.1
44	DX	34	SER	9.1
27	BE	5	LEU	9.0
27	BE	201	ALA	9.0
44	DX	36	GLN	9.0
52	BI	97	VAL	9.0
39	DR	55	ASP	9.0
35	BN	121	LYS	9.0
48	B1	1	ALA	8.9
33	DL	11	GLY	8.9
35	DN	124	ALA	8.8
25	DC	5	CYS	8.7
50	B3	63	TYR	8.7
25	BC	5	CYS	8.6
29	BG	176	LYS	8.6
48	D1	53	ILE	8.6
27	DE	171	ASP	8.5
35	BN	122	ALA	8.5
37	DP	59	THR	8.5
27	DE	19	PHE	8.5
39	DR	44	GLY	8.4
39	DR	26	ASP	8.4
29	BG	1	SER	8.4
47	D0	44	ALA	8.4
52	DI	98	GLY	8.3
26	BD	140	HIS	8.3
39	DR	53	PHE	8.3
50	D3	63	TYR	8.3
28	DF	73	VAL	8.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
47	D0	55	ALA	8.3
30	BH	122	LEU	8.2
47	B0	51	ARG	8.2
48	B1	4	ILE	8.2
26	DD	70	LYS	8.2
48	B1	3	GLY	8.2
42	BU	88	ASP	8.2
29	BG	58	ALA	8.1
43	BW	2	HIS	8.0
26	BD	132	ALA	8.0
35	DN	123	GLU	8.0
26	BD	134	HIS	8.0
25	BC	166	ARG	8.0
26	BD	149	ASN	7.9
41	DT	2	ILE	7.9
30	BH	128	HIS	7.9
26	DD	91	THR	7.8
30	BH	86	ASP	7.8
30	BH	92	GLY	7.7
25	DC	8	THR	7.7
41	DT	4	GLU	7.7
36	DO	58	ILE	7.7
27	DE	169	VAL	7.6
36	DO	59	ALA	7.5
29	DG	42	VAL	7.5
38	DQ	117	ALA	7.5
44	BX	38	GLN	7.4
30	BH	130	VAL	7.3
27	BE	3	LEU	7.3
47	D0	33	SER	7.3
37	DP	19	PHE	7.3
26	DD	92	VAL	7.3
41	DT	93	LEU	7.3
34	BM	56	ALA	7.3
52	BI	85	ILE	7.3
39	DR	59	ILE	7.3
43	DW	58	LEU	7.3
51	B4	23	ILE	7.3
44	DX	32	ALA	7.2
26	BD	126	ASN	7.2
34	BM	136	MET	7.2
39	DR	42	ALA	7.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	DE	145	ASP	7.2
43	BW	78	PHE	7.2
27	BE	15	SER	7.2
52	BI	21	PRO	7.1
31	DJ	1	MET	7.1
33	BL	77	ILE	7.1
27	DE	170	ARG	7.1
36	DO	21	LEU	7.1
33	BL	39	LYS	7.1
52	BI	60	VAL	7.1
23	DB	1175	A	7.1
52	BI	48	ILE	7.1
39	DR	12	HIS	7.1
31	BJ	1	MET	7.1
39	DR	34	GLU	7.1
52	BI	52	LEU	7.1
30	BH	142	VAL	7.1
50	B3	61	LEU	7.0
52	BI	58	ILE	7.0
29	DG	43	LYS	7.0
30	BH	84	ALA	7.0
39	DR	33	VAL	7.0
33	DL	52	GLY	6.9
47	B0	34	GLY	6.9
25	DC	268	ARG	6.9
39	DR	43	ASN	6.9
43	BW	82	GLU	6.9
26	BD	150	GLN	6.9
48	B1	53	ILE	6.8
48	B1	54	LYS	6.8
47	D0	43	THR	6.8
22	DA	88	C	6.7
30	BH	123	ARG	6.7
30	BH	80	ILE	6.7
26	DD	71	ALA	6.7
37	DP	80	VAL	6.7
27	BE	114	ARG	6.7
23	BB	137	U	6.7
33	DL	143	GLU	6.7
45	DY	57	GLU	6.7
29	BG	42	VAL	6.7
26	BD	89	GLU	6.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
50	B3	60	CYS	6.7
42	BU	2	ALA	6.6
33	DL	55	MET	6.6
47	B0	33	SER	6.6
47	B0	55	ALA	6.6
4	CE	158	LYS	6.6
13	CN	35	ALA	6.6
26	BD	34	VAL	6.6
27	DE	23	PHE	6.6
34	DM	91	TYR	6.6
15	AP	43	ALA	6.6
33	DL	1	MET	6.6
37	BP	3	ILE	6.5
43	DW	52	CYS	6.5
48	D1	27	ARG	6.5
4	AE	158	LYS	6.5
29	BG	51	PHE	6.5
33	DL	144	GLU	6.5
30	BH	81	ALA	6.5
33	BL	6	LEU	6.5
52	BI	1	ALA	6.5
43	BW	45	HIS	6.4
52	BI	79	LEU	6.4
25	BC	114	GLN	6.4
35	DN	120	GLU	6.4
43	DW	83	ALA	6.4
26	BD	16	THR	6.4
52	BI	78	LEU	6.4
30	BH	144	VAL	6.3
36	BO	61	GLN	6.3
52	BI	59	THR	6.3
36	DO	24	THR	6.3
26	BD	139	SER	6.3
30	DH	149	GLU	6.3
37	DP	97	TYR	6.3
48	D1	2	LYS	6.3
33	DL	74	THR	6.3
33	BL	28	GLY	6.2
33	BL	38	GLN	6.2
47	B0	8	THR	6.2
35	DN	126	ALA	6.2
44	DX	35	GLY	6.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	BO	56	LYS	6.2
48	D1	32	LYS	6.2
39	BR	52	PRO	6.2
48	D1	52	LYS	6.2
51	D4	31	PRO	6.1
47	D0	56	LYS	6.1
26	BD	135	GLY	6.1
25	BC	21	PRO	6.1
38	DQ	96	ASP	6.1
50	B3	23	HIS	6.0
30	BH	87	GLU	6.0
52	BI	20	SER	6.0
42	BU	56	GLY	6.0
33	BL	53	GLY	5.9
37	BP	26	GLU	5.9
44	DX	33	ALA	5.9
30	DH	76	GLU	5.9
25	DC	6	LYS	5.9
15	AP	81	ALA	5.9
25	BC	267	VAL	5.9
29	DG	56	GLY	5.9
43	BW	4	LYS	5.9
48	D1	54	LYS	5.9
30	BH	148	ALA	5.9
41	DT	1	MET	5.9
43	BW	81	ILE	5.9
3	AD	146	GLU	5.9
37	BP	59	THR	5.9
52	BI	49	GLU	5.8
20	AB	15	PHE	5.8
43	BW	59	PHE	5.8
39	BR	11	GLN	5.8
33	DL	12	SER	5.8
52	BI	6	ALA	5.8
48	D1	13	SER	5.8
35	BN	67	PHE	5.8
48	B1	5	ARG	5.8
37	BP	97	TYR	5.8
39	DR	5	PHE	5.7
33	DL	2	ARG	5.7
50	B3	62	PRO	5.7
25	BC	8	THR	5.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	BO	89	ASP	5.7
30	BH	76	GLU	5.7
36	BO	88	LYS	5.7
43	DW	2	HIS	5.7
23	BB	645	C	5.7
44	DX	20	ASN	5.7
34	DM	135	VAL	5.7
25	BC	256	THR	5.6
26	BD	186	LEU	5.6
25	DC	85	ASN	5.6
27	BE	7	ASP	5.6
48	B1	49	LYS	5.6
25	DC	209	ALA	5.6
42	BU	30	SER	5.6
20	CB	124	THR	5.6
33	DL	6	LEU	5.6
33	BL	10	GLU	5.6
43	DW	79	ILE	5.6
36	DO	23	ALA	5.5
25	BC	6	LYS	5.5
38	DQ	91	ARG	5.5
33	BL	56	PRO	5.5
33	BL	117	THR	5.5
27	DE	201	ALA	5.5
30	BH	141	LYS	5.5
38	DQ	72	GLY	5.5
30	BH	94	ILE	5.5
43	DW	5	ALA	5.5
27	BE	145	ASP	5.5
39	BR	43	ASN	5.4
52	BI	34	ILE	5.4
26	BD	100	LEU	5.4
33	DL	92	LEU	5.4
6	CG	152	HIS	5.4
10	AK	49	SER	5.4
21	AU	10	PRO	5.4
52	BI	11	GLN	5.4
33	BL	2	ARG	5.4
39	BR	56	GLY	5.4
39	DR	98	ILE	5.4
29	BG	35	THR	5.3
35	BN	72	ASP	5.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
44	BX	37	LEU	5.3
35	BN	3	HIS	5.3
47	B0	49	ARG	5.3
34	DM	10	ARG	5.3
35	BN	120	GLU	5.3
8	CI	129	ARG	5.3
52	BI	86	LYS	5.3
34	BM	135	VAL	5.3
30	BH	102	ALA	5.3
48	B1	2	LYS	5.3
52	BI	54	ILE	5.3
38	DQ	46	TYR	5.2
41	DT	71	GLY	5.2
27	DE	112	LEU	5.2
43	BW	84	GLU	5.2
39	BR	41	ILE	5.2
34	DM	56	ALA	5.2
25	DC	166	ARG	5.2
35	DN	125	ALA	5.2
50	D3	62	PRO	5.2
33	BL	78	ARG	5.2
34	BM	2	LEU	5.1
43	BW	1	ALA	5.1
31	BJ	44	TYR	5.1
33	BL	52	GLY	5.1
31	BJ	10	THR	5.1
34	BM	1	MET	5.1
23	BB	546	U	5.1
26	BD	183	GLU	5.1
33	BL	3	LEU	5.1
36	BO	19	GLN	5.1
7	AH	1	SER	5.0
30	BH	82	SER	5.0
36	DO	60	GLU	5.0
36	DO	45	SER	5.0
48	D1	1	ALA	5.0
30	BH	149	GLU	5.0
40	BS	10	ALA	5.0
44	DX	38	GLN	5.0
44	DX	31	GLN	5.0
3	CD	171	GLU	5.0
36	DO	22	GLY	5.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
29	DG	51	PHE	5.0
26	DD	49	GLN	5.0
29	DG	59	ASP	5.0
43	DW	84	GLU	5.0
35	DN	122	ALA	4.9
47	D0	34	GLY	4.9
30	BH	127	GLU	4.9
31	DJ	43	GLU	4.9
46	DZ	4	ASP	4.9
20	CB	220	VAL	4.9
33	DL	4	ASN	4.9
17	CR	19	GLU	4.9
23	BB	140	C	4.9
52	DI	137	LEU	4.9
5	CF	96	VAL	4.9
20	AB	199	ILE	4.9
30	BH	50	ARG	4.9
52	BI	135	MET	4.9
20	CB	38	HIS	4.9
23	BB	2145	C	4.9
45	BY	2	LYS	4.9
33	BL	25	SER	4.9
14	AO	88	ARG	4.9
33	BL	144	GLU	4.9
26	DD	103	ASP	4.8
37	BP	4	ILE	4.8
52	BI	31	GLY	4.8
25	DC	3	VAL	4.8
28	BF	140	ILE	4.8
23	BB	1175	A	4.8
52	BI	96	LYS	4.8
50	D3	64	ALA	4.8
30	BH	126	GLY	4.8
26	DD	51	THR	4.8
30	DH	20	ASN	4.8
27	BE	143	LEU	4.8
44	BX	63	ALA	4.8
23	BB	136	G	4.8
33	DL	53	GLY	4.8
40	BS	103	ILE	4.8
42	BU	47	PRO	4.8
25	DC	242	HIS	4.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	B4	28	SER	4.7
26	BD	9	VAL	4.7
26	BD	25	THR	4.7
25	BC	127	ASN	4.7
27	DE	125	SER	4.7
27	BE	144	GLU	4.7
35	DN	127	GLU	4.7
45	BY	38	GLU	4.7
25	BC	165	ALA	4.7
36	DO	57	ALA	4.7
27	DE	140	ASP	4.7
34	BM	92	TRP	4.7
6	AG	76	SER	4.7
33	BL	12	SER	4.7
51	D4	1	MET	4.7
36	DO	89	ASP	4.7
48	B1	52	LYS	4.7
27	BE	136	GLN	4.7
41	DT	70	HIS	4.7
15	AP	82	ALA	4.7
42	DU	27	VAL	4.6
20	AB	8	MET	4.6
27	BE	188	MET	4.6
3	CD	163	GLN	4.6
52	BI	68	PHE	4.6
43	DW	82	GLU	4.6
25	BC	85	ASN	4.6
43	BW	80	SER	4.6
45	DY	3	THR	4.6
52	BI	10	LEU	4.6
37	BP	20	ARG	4.6
41	DT	72	GLN	4.6
14	CO	15	GLY	4.6
29	BG	21	GLN	4.6
30	DH	19	VAL	4.6
41	BT	95	PHE	4.6
30	DH	130	VAL	4.6
52	DI	25	PRO	4.6
48	D1	31	GLU	4.6
34	DM	40	ARG	4.6
38	DQ	86	SER	4.6
27	BE	17	THR	4.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
45	BY	40	THR	4.6
47	D0	35	GLU	4.5
25	DC	139	THR	4.5
52	BI	25	PRO	4.5
30	BH	85	GLY	4.5
33	BL	11	GLY	4.5
41	DT	99	ALA	4.5
33	BL	84	LYS	4.5
36	DO	86	GLY	4.5
34	DM	2	LEU	4.5
26	DD	93	GLY	4.5
30	BH	105	ALA	4.5
30	DH	145	ASN	4.5
40	BS	110	ARG	4.5
38	DQ	87	VAL	4.4
30	BH	66	ASN	4.4
37	DP	26	GLU	4.4
27	BE	115	GLN	4.4
34	DM	136	MET	4.4
27	DE	25	GLU	4.4
52	BI	18	ASN	4.4
52	BI	51	GLY	4.4
25	DC	247	TRP	4.4
27	DE	111	GLU	4.4
33	BL	35	HIS	4.4
45	DY	2	LYS	4.4
7	CH	129	ALA	4.4
23	BB	613	A	4.4
51	D4	30	GLU	4.4
30	BH	108	VAL	4.4
50	D3	28	LEU	4.4
36	BO	7	ARG	4.4
41	BT	96	VAL	4.4
32	BK	122	VAL	4.4
25	BC	242	HIS	4.4
44	BX	39	GLN	4.4
30	BH	19	VAL	4.4
37	BP	24	THR	4.4
27	BE	199	MET	4.4
52	DI	83	ALA	4.4
4	AE	157	GLY	4.4
52	BI	27	LEU	4.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
23	BB	2799	A	4.4
30	BH	125	THR	4.4
36	BO	116	GLN	4.4
26	DD	94	GLN	4.3
30	BH	20	ASN	4.3
30	BH	74	ALA	4.3
40	BS	93	ALA	4.3
29	DG	55	ASP	4.3
25	DC	256	THR	4.3
37	BP	28	LYS	4.3
44	BX	2	LYS	4.3
20	CB	51	GLU	4.3
52	BI	65	SER	4.3
47	B0	45	ASP	4.3
20	CB	17	HIS	4.3
38	DQ	88	GLU	4.3
36	DO	35	ILE	4.3
25	BC	268	ARG	4.3
33	BL	19	LEU	4.3
25	DC	65	ASP	4.3
52	BI	115	ASP	4.3
16	AQ	5	ARG	4.3
26	BD	64	GLU	4.3
32	BK	104	THR	4.3
38	BQ	111	LYS	4.3
41	DT	96	VAL	4.3
36	BO	43	ASN	4.3
52	BI	35	MET	4.3
42	BU	87	GLU	4.3
12	AM	55	LEU	4.3
27	BE	200	LEU	4.3
52	BI	84	GLY	4.3
29	DG	44	HIS	4.3
31	BJ	130	HIS	4.3
1	AA	845	A	4.3
33	DL	85	VAL	4.3
33	DL	58	TYR	4.2
34	BM	103	TYR	4.2
43	BW	69	GLU	4.2
27	DE	24	ASN	4.2
42	DU	2	ALA	4.2
43	BW	68	PHE	4.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	BP	87	ARG	4.2
34	DM	102	LEU	4.2
30	BH	146	VAL	4.2
52	BI	14	ALA	4.2
44	DX	24	GLU	4.2
20	AB	43	GLU	4.2
45	BY	57	GLU	4.2
29	BG	59	ASP	4.2
26	BD	111	GLY	4.2
47	B0	53	VAL	4.2
27	DE	199	MET	4.2
25	DC	114	GLN	4.2
37	BP	30	TRP	4.2
27	DE	22	ASP	4.2
27	BE	19	PHE	4.2
37	BP	50	ARG	4.2
3	AD	43	ARG	4.2
27	BE	42	GLY	4.2
30	BH	110	VAL	4.2
20	CB	52	ALA	4.2
8	AI	34	LEU	4.2
29	DG	39	ALA	4.2
50	B3	64	ALA	4.2
52	DI	135	MET	4.2
37	BP	13	LYS	4.2
47	B0	37	HIS	4.2
36	BO	87	ILE	4.2
43	DW	3	LYS	4.1
41	BT	25	GLU	4.1
34	DM	1	MET	4.1
15	AP	44	SER	4.1
28	BF	45	ASP	4.1
48	D1	12	SER	4.1
35	DN	121	LYS	4.1
39	DR	60	LYS	4.1
17	CR	63	TYR	4.1
25	DC	28	PRO	4.1
30	BH	132	PHE	4.1
39	BR	55	ASP	4.1
51	D4	23	ILE	4.1
52	BI	26	ALA	4.1
27	DE	153	LEU	4.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	BD	209	ALA	4.1
33	BL	49	GLY	4.1
34	DM	128	THR	4.1
43	DW	35	ILE	4.1
30	BH	133	GLN	4.1
52	BI	4	VAL	4.1
34	BM	55	ARG	4.1
37	BP	109	ILE	4.1
28	BF	35	LEU	4.1
23	DB	2799	A	4.1
26	DD	55	LYS	4.1
5	AF	1	MET	4.1
31	DJ	49	ASP	4.1
44	DX	19	LEU	4.1
31	DJ	4	PHE	4.0
50	D3	33	THR	4.0
11	AL	102	ASP	4.0
31	DJ	2	LYS	4.0
39	DR	58	VAL	4.0
26	BD	131	ASP	4.0
20	AB	212	TYR	4.0
30	BH	67	ALA	4.0
35	DN	1	MET	4.0
39	BR	29	THR	4.0
30	BH	115	VAL	4.0
42	BU	61	GLU	4.0
30	BH	63	ALA	4.0
30	DH	106	ALA	4.0
6	AG	78	ARG	4.0
26	BD	130	GLN	4.0
41	DT	91	GLN	4.0
23	DB	1174	U	4.0
52	BI	53	PRO	4.0
15	CP	47	GLU	4.0
26	BD	53	GLY	4.0
39	DR	27	ILE	4.0
31	DJ	10	THR	4.0
52	BI	70	THR	4.0
25	DC	156	SER	4.0
24	BV	1	MET	4.0
42	DU	60	LYS	4.0
52	BI	3	LYS	4.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	BU	71	ILE	4.0
52	BI	100	ILE	4.0
52	DI	99	LYS	4.0
37	BP	1	SER	4.0
41	BT	27	SER	4.0
30	DH	72	ILE	4.0
3	AD	173	ASP	4.0
28	BF	31	GLU	4.0
49	B2	14	ARG	4.0
30	BH	98	ASP	4.0
3	CD	176	LYS	4.0
1	AA	86	G	4.0
23	BB	1728	C	4.0
30	BH	73	ASN	4.0
30	BH	121	VAL	4.0
52	DI	97	VAL	4.0
25	BC	224	MET	4.0
43	BW	67	LYS	4.0
20	CB	35	ASN	3.9
20	CB	56	LEU	3.9
23	DB	2133	G	3.9
20	CB	126	ASP	3.9
45	DY	10	ARG	3.9
30	DH	77	THR	3.9
25	DC	257	ARG	3.9
26	BD	33	ARG	3.9
52	BI	73	PRO	3.9
20	CB	163	ILE	3.9
33	BL	66	PHE	3.9
44	DX	46	VAL	3.9
28	BF	42	ALA	3.9
45	BY	1	ALA	3.9
7	CH	127	TYR	3.9
12	AM	42	VAL	3.9
30	BH	59	ALA	3.9
28	DF	79	ARG	3.9
52	DI	84	GLY	3.9
25	DC	160	TYR	3.9
26	DD	17	GLU	3.9
26	DD	68	PHE	3.9
30	BH	104	THR	3.9
39	DR	78	ARG	3.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
25	BC	122	ALA	3.9
16	AQ	45	VAL	3.9
29	DG	40	VAL	3.9
34	DM	60	GLN	3.9
26	BD	2	ILE	3.9
27	DE	141	MET	3.9
33	BL	34	GLY	3.9
37	BP	44	GLY	3.9
30	BH	60	GLU	3.9
33	DL	115	GLU	3.9
30	DH	21	VAL	3.9
37	BP	19	PHE	3.9
26	DD	33	ARG	3.9
43	DW	6	GLY	3.9
52	BI	66	PHE	3.9
33	DL	3	LEU	3.8
5	AF	62	MET	3.8
43	DW	1	ALA	3.8
43	DW	37	VAL	3.8
52	DI	136	GLY	3.8
27	BE	192	ALA	3.8
39	BR	54	VAL	3.8
34	DM	106	ASP	3.8
26	DD	127	PHE	3.8
47	D0	45	ASP	3.8
20	AB	195	VAL	3.8
41	BT	26	LYS	3.8
25	DC	269	ARG	3.8
27	BE	155	GLU	3.8
36	BO	106	LEU	3.8
16	AQ	82	VAL	3.8
20	CB	34	ARG	3.8
34	DM	32	GLY	3.8
27	DE	110	SER	3.8
52	BI	7	TYR	3.8
33	BL	135	ILE	3.8
25	DC	59	GLN	3.8
38	BQ	88	GLU	3.8
39	BR	71	LYS	3.8
1	AA	461	A	3.8
38	DQ	58	GLN	3.8
23	DB	1459	G	3.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
41	BT	5	GLU	3.8
30	DH	131	SER	3.7
31	BJ	99	ARG	3.7
33	DL	136	GLU	3.7
20	AB	157	PRO	3.7
28	BF	145	VAL	3.7
43	DW	68	PHE	3.7
27	BE	38	GLY	3.7
30	DH	82	SER	3.7
33	DL	49	GLY	3.7
41	DT	98	GLY	3.7
26	BD	148	GLN	3.7
51	D4	25	VAL	3.7
28	BF	151	LEU	3.7
20	AB	68	PHE	3.7
30	BH	88	GLY	3.7
25	DC	190	THR	3.7
42	BU	91	LYS	3.7
39	BR	98	ILE	3.7
18	AS	40	PHE	3.7
23	BB	654	A	3.7
42	BU	32	LYS	3.7
27	DE	172	ALA	3.7
28	BF	116	LEU	3.7
27	BE	117	ARG	3.7
30	BH	143	ILE	3.7
35	BN	112	TYR	3.7
37	DP	112	ARG	3.7
33	BL	4	ASN	3.7
40	BS	66	ILE	3.7
31	BJ	100	VAL	3.7
27	BE	129	PRO	3.7
39	DR	16	GLU	3.7
40	DS	110	ARG	3.7
5	AF	52	ASN	3.7
25	BC	258	SER	3.7
25	DC	167	ASP	3.7
45	BY	39	ASP	3.7
52	BI	2	LYS	3.7
7	AH	117	GLN	3.7
30	DH	137	GLU	3.7
45	BY	41	PRO	3.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	B2	15	SER	3.7
52	BI	95	ASP	3.7
34	DM	103	TYR	3.7
37	BP	74	GLN	3.7
16	AQ	6	THR	3.7
29	DG	38	ASP	3.6
44	BX	62	GLY	3.6
35	BN	1	MET	3.6
30	DH	81	ALA	3.6
40	BS	92	ARG	3.6
37	DP	55	HIS	3.6
33	BL	91	ASP	3.6
43	BW	53	GLY	3.6
37	DP	60	VAL	3.6
29	BG	93	TYR	3.6
33	BL	123	ARG	3.6
50	B3	44	ARG	3.6
26	BD	86	GLU	3.6
33	DL	119	PRO	3.6
20	AB	156	LEU	3.6
30	BH	79	THR	3.6
20	AB	31	PHE	3.6
28	BF	129	MET	3.6
45	BY	23	LEU	3.6
23	DB	645	C	3.6
16	AQ	20	ILE	3.6
25	BC	116	GLN	3.6
36	BO	92	PHE	3.6
3	AD	178	GLU	3.6
25	DC	136	VAL	3.6
38	BQ	90	ASP	3.6
52	BI	8	VAL	3.6
30	BH	106	ALA	3.6
27	BE	153	LEU	3.6
30	DH	75	LEU	3.6
12	CM	3	ILE	3.6
26	BD	99	GLU	3.6
41	DT	94	ASP	3.6
31	DJ	13	ARG	3.6
33	DL	8	PRO	3.6
34	DM	3	GLN	3.6
43	DW	11	ASN	3.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	BE	191	ASP	3.6
30	BH	100	ALA	3.6
20	CB	123	GLY	3.6
26	BD	127	PHE	3.5
30	DH	139	PHE	3.5
33	DL	107	PHE	3.5
28	BF	64	PRO	3.5
43	BW	77	LYS	3.5
27	BE	8	ALA	3.5
52	BI	76	ALA	3.5
5	CF	94	HIS	3.5
43	DW	4	LYS	3.5
30	BH	109	GLU	3.5
36	BO	6	ALA	3.5
31	DJ	50	THR	3.5
26	DD	104	VAL	3.5
35	BN	118	ARG	3.5
26	BD	144	GLY	3.5
7	CH	89	ASP	3.5
27	BE	176	ASP	3.5
26	DD	42	ASN	3.5
25	DC	199	HIS	3.5
33	DL	59	ARG	3.5
2	AC	136	ALA	3.5
37	BP	22	GLY	3.5
32	BK	79	PHE	3.5
35	BN	71	ARG	3.5
13	CN	34	ASN	3.5
25	DC	127	ASN	3.5
26	BD	14	ILE	3.5
27	DE	168	ASP	3.5
30	DH	98	ASP	3.5
38	DQ	116	LEU	3.5
39	DR	92	TRP	3.5
30	BH	83	LYS	3.5
47	B0	27	LEU	3.5
37	DP	75	THR	3.5
20	AB	46	VAL	3.5
14	CO	16	ARG	3.5
20	AB	32	GLY	3.5
32	BK	89	ASN	3.5
41	BT	69	ARG	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
44	BX	27	ASN	3.5
5	AF	40	GLU	3.5
47	B0	28	SER	3.5
26	DD	100	LEU	3.5
15	AP	80	LYS	3.5
20	CB	68	PHE	3.5
23	BB	2402	U	3.5
30	BH	70	GLU	3.5
44	DX	39	GLN	3.5
48	B1	44	GLN	3.5
30	DH	128	HIS	3.5
25	BC	22	GLU	3.4
52	DI	7	TYR	3.4
26	BD	35	THR	3.4
26	BD	84	LEU	3.4
35	BN	20	MET	3.4
25	DC	162	GLN	3.4
40	BS	61	ASN	3.4
37	BP	75	THR	3.4
37	DP	4	ILE	3.4
45	BY	49	ALA	3.4
39	DR	6	GLN	3.4
52	DI	70	THR	3.4
25	DC	164	VAL	3.4
32	BK	84	CYS	3.4
25	BC	218	THR	3.4
27	DE	144	GLU	3.4
30	BH	116	ARG	3.4
30	BH	75	LEU	3.4
35	BN	9	GLN	3.4
52	BI	138	VAL	3.4
42	BU	55	GLY	3.4
24	BV	69	GLU	3.4
33	BL	40	SER	3.4
28	BF	56	LEU	3.4
47	B0	41	HIS	3.4
25	DC	218	THR	3.4
37	DP	1	SER	3.4
48	B1	16	THR	3.4
25	DC	57	HIS	3.4
5	AF	41	ASP	3.4
18	CS	25	GLY	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	BJ	79	GLY	3.4
20	CB	69	VAL	3.4
24	BV	34	LYS	3.4
16	AQ	60	ILE	3.4
16	CQ	6	THR	3.4
25	BC	266	ILE	3.4
30	DH	94	ILE	3.4
52	BI	87	SER	3.4
26	BD	28	GLU	3.4
42	DU	61	GLU	3.4
44	DX	1	MET	3.4
28	BF	141	ASP	3.4
28	BF	152	ASP	3.4
30	DH	141	LYS	3.4
36	DO	85	LYS	3.4
48	B1	35	LEU	3.4
28	DF	43	ILE	3.4
40	BS	40	ASN	3.4
26	BD	4	LEU	3.4
32	BK	121	GLU	3.4
33	DL	10	GLU	3.4
45	BY	24	LEU	3.3
25	BC	247	TRP	3.3
26	DD	88	GLU	3.3
27	BE	6	LYS	3.3
41	BT	72	GLN	3.3
27	BE	48	THR	3.3
27	DE	48	THR	3.3
38	DQ	59	LEU	3.3
49	B2	1	MET	3.3
41	BT	4	GLU	3.3
5	AF	63	ASN	3.3
52	DI	30	GLN	3.3
28	BF	131	VAL	3.3
30	DH	144	VAL	3.3
30	BH	129	GLU	3.3
1	CA	461	A	3.3
20	AB	213	LEU	3.3
50	D3	32	LEU	3.3
34	DM	24	THR	3.3
52	BI	134	SER	3.3
5	AF	66	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
5	AF	98	GLU	3.3
9	AJ	91	ASP	3.3
25	BC	43	ASN	3.3
40	BS	9	HIS	3.3
52	DI	37	PHE	3.3
39	BR	42	ALA	3.3
42	BU	59	GLU	3.3
46	BZ	27	THR	3.3
26	BD	201	LEU	3.3
25	BC	138	SER	3.3
25	DC	9	SER	3.3
40	DS	108	SER	3.3
27	BE	113	VAL	3.3
26	DD	140	HIS	3.3
28	DF	75	GLY	3.3
33	DL	117	THR	3.3
52	DI	81	LYS	3.3
24	BV	56	PHE	3.3
52	BI	30	GLN	3.3
8	AI	127	SER	3.3
26	BD	147	GLY	3.3
39	DR	24	LYS	3.3
23	BB	2308	G	3.3
28	BF	111	ARG	3.3
32	BK	90	ASN	3.3
51	B4	25	VAL	3.3
52	BI	28	GLY	3.3
37	BP	55	HIS	3.3
36	BO	76	LYS	3.3
34	BM	132	THR	3.3
24	BV	61	LEU	3.3
29	DG	106	LEU	3.3
6	CG	79	VAL	3.3
31	BJ	89	PHE	3.3
33	DL	35	HIS	3.3
29	BG	50	THR	3.2
26	DD	32	ASN	3.2
25	BC	154	ALA	3.2
43	BW	3	LYS	3.2
20	CB	160	LEU	3.2
39	DR	45	GLU	3.2
37	BP	46	VAL	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	DM	104	GLU	3.2
11	AL	43	LYS	3.2
8	AI	51	LEU	3.2
25	DC	116	GLN	3.2
51	B4	29	ALA	3.2
20	CB	50	ASN	3.2
33	DL	50	PHE	3.2
49	B2	18	PHE	3.2
28	DF	72	SER	3.2
39	BR	37	GLU	3.2
27	DE	42	GLY	3.2
8	AI	19	PHE	3.2
28	BF	175	PRO	3.2
30	DH	52	ALA	3.2
52	BI	38	CYS	3.2
30	BH	145	ASN	3.2
14	AO	16	ARG	3.2
50	B3	26	ALA	3.2
20	CB	55	GLU	3.2
28	BF	161	SER	3.2
52	BI	32	VAL	3.2
52	BI	137	LEU	3.2
25	BC	120	ASP	3.2
30	DH	47	PHE	3.2
39	DR	77	PHE	3.2
33	BL	85	VAL	3.2
23	DB	2402	U	3.2
20	AB	41	ASN	3.2
25	BC	4	LYS	3.2
51	D4	32	LYS	3.2
7	CH	44	PHE	3.2
2	AC	98	ALA	3.2
25	DC	172	THR	3.2
39	DR	11	GLN	3.2
45	BY	52	PHE	3.2
38	DQ	89	ILE	3.1
29	DG	2	ARG	3.1
33	BL	54	GLN	3.1
34	BM	3	GLN	3.1
49	B2	13	ASN	3.1
28	BF	153	ILE	3.1
6	AG	145	GLU	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
20	CB	158	ASP	3.1
29	DG	15	ASP	3.1
26	BD	74	GLU	3.1
33	BL	76	GLU	3.1
1	AA	844	G	3.1
26	BD	156	PHE	3.1
31	BJ	18	VAL	3.1
32	BK	21	CYS	3.1
42	DU	56	GLY	3.1
51	D4	38	GLY	3.1
42	BU	90	LYS	3.1
26	DD	125	TRP	3.1
33	DL	90	VAL	3.1
41	BT	32	LEU	3.1
5	AF	51	ILE	3.1
25	DC	178	GLY	3.1
29	DG	1	SER	3.1
33	DL	81	ASP	3.1
35	BN	2	ARG	3.1
41	BT	1	MET	3.1
51	D4	7	VAL	3.1
37	DP	30	TRP	3.1
24	BV	94	ALA	3.1
5	AF	35	LYS	3.1
7	CH	75	GLN	3.1
29	DG	57	TYR	3.1
30	BH	95	GLY	3.1
25	DC	93	VAL	3.1
26	BD	46	ARG	3.1
26	BD	200	ASP	3.1
28	BF	83	PRO	3.1
31	BJ	43	GLU	3.1
31	DJ	24	THR	3.1
33	DL	94	THR	3.1
52	BI	45	THR	3.1
52	BI	37	PHE	3.1
26	DD	74	GLU	3.1
33	BL	57	LEU	3.1
1	CA	412	A	3.1
29	BG	56	GLY	3.1
52	BI	15	GLY	3.1
14	CO	45	HIS	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
20	AB	158	ASP	3.1
27	DE	191	ASP	3.1
28	DF	42	ALA	3.1
18	CS	79	TYR	3.1
47	D0	54	ILE	3.1
20	CB	153	MET	3.1
32	BK	53	LYS	3.1
33	DL	57	LEU	3.1
39	DR	13	ARG	3.1
2	AC	158	GLY	3.1
27	DE	41	GLN	3.1
33	DL	5	THR	3.1
39	DR	19	THR	3.1
47	B0	42	ILE	3.1
30	DH	110	VAL	3.1
1	AA	78	A	3.1
42	BU	28	LEU	3.1
5	CF	95	ALA	3.1
33	DL	34	GLY	3.0
52	DI	5	GLN	3.0
26	BD	155	VAL	3.0
29	DG	167	VAL	3.0
3	AD	3	TYR	3.0
28	BF	6	TYR	3.0
26	DD	183	GLU	3.0
7	CH	120	LEU	3.0
7	CH	122	GLY	3.0
25	DC	115	ILE	3.0
30	DH	25	TYR	3.0
48	D1	51	ALA	3.0
35	BN	7	GLY	3.0
23	DB	2602	A	3.0
26	BD	43	ASP	3.0
18	CS	78	THR	3.0
40	DS	46	LEU	3.0
13	AN	30	ILE	3.0
29	DG	21	GLN	3.0
30	DH	61	VAL	3.0
33	BL	21	ARG	3.0
43	BW	37	VAL	3.0
50	D3	7	ARG	3.0
44	BX	15	ASN	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
28	BF	154	THR	3.0
30	DH	67	ALA	3.0
3	CD	159	GLU	3.0
29	DG	41	GLU	3.0
2	AC	75	VAL	3.0
3	AD	28	ASP	3.0
26	BD	187	LEU	3.0
38	BQ	86	SER	3.0
25	DC	210	ALA	3.0
26	BD	12	THR	3.0
27	DE	87	ALA	3.0
41	BT	71	GLY	3.0
43	BW	42	THR	3.0
52	BI	109	ALA	3.0
4	CE	115	GLU	3.0
39	DR	62	GLU	3.0
10	CK	81	LEU	3.0
29	BG	155	PRO	3.0
39	BR	51	VAL	3.0
52	BI	22	PRO	3.0
5	AF	88	MET	3.0
26	BD	11	MET	3.0
16	CQ	51	GLU	3.0
34	BM	133	LYS	3.0
48	D1	20	TYR	3.0
23	DB	139	U	3.0
32	BK	107	LEU	3.0
36	DO	92	PHE	3.0
26	BD	199	SER	3.0
52	BI	24	GLY	3.0
3	CD	180	THR	3.0
20	CB	162	VAL	3.0
15	AP	6	LEU	3.0
16	CQ	3	LYS	3.0
12	AM	52	ILE	3.0
43	BW	9	THR	3.0
25	DC	141	HIS	3.0
39	BR	12	HIS	3.0
1	AA	842	U	3.0
39	BR	92	TRP	3.0
36	DO	88	LYS	3.0
29	BG	41	GLU	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
41	DT	27	SER	3.0
42	BU	44	HIS	3.0
23	BB	1537	G	2.9
47	B0	46	GLY	2.9
37	DP	20	ARG	2.9
48	D1	8	ILE	2.9
6	AG	84	TYR	2.9
20	AB	153	MET	2.9
23	BB	2309	A	2.9
26	BD	51	THR	2.9
37	BP	21	PRO	2.9
48	D1	28	THR	2.9
26	DD	79	LEU	2.9
41	DT	53	VAL	2.9
26	BD	18	ASP	2.9
5	CF	1	MET	2.9
27	DE	155	GLU	2.9
46	BZ	63	ARG	2.9
7	CH	45	ILE	2.9
28	DF	24	VAL	2.9
51	B4	7	VAL	2.9
52	BI	69	VAL	2.9
52	BI	108	ILE	2.9
40	BS	32	ALA	2.9
27	BE	137	LYS	2.9
27	DE	86	ALA	2.9
37	DP	96	LEU	2.9
39	DR	39	LEU	2.9
25	BC	241	LYS	2.9
47	B0	52	LYS	2.9
32	BK	77	ILE	2.9
24	BV	3	THR	2.9
25	DC	110	LYS	2.9
20	CB	147	LEU	2.9
33	BL	142	ILE	2.9
28	DF	44	ALA	2.9
37	DP	65	ASN	2.9
27	BE	60	TRP	2.9
10	AK	50	GLY	2.9
23	BB	1726	C	2.9
11	AL	51	VAL	2.9
29	BG	147	LEU	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
41	DT	57	VAL	2.9
20	CB	159	ALA	2.9
3	AD	185	PRO	2.9
20	CB	161	PHE	2.9
30	BH	69	ALA	2.9
25	BC	28	PRO	2.9
25	DC	103	ILE	2.9
30	DH	146	VAL	2.9
26	BD	7	LYS	2.9
4	CE	157	GLY	2.9
33	DL	101	ILE	2.9
51	D4	37	GLN	2.9
1	AA	121	U	2.9
52	BI	128	ILE	2.9
29	DG	58	ALA	2.9
26	BD	77	ARG	2.9
37	BP	35	SER	2.9
52	BI	50	LYS	2.9
52	BI	80	LYS	2.9
24	DV	72	VAL	2.9
33	DL	118	THR	2.9
39	DR	29	THR	2.9
1	CA	466	A	2.9
37	BP	33	GLU	2.9
3	AD	175	GLY	2.9
20	AB	100	LEU	2.9
33	BL	124	GLY	2.9
34	BM	4	PRO	2.9
7	AH	110	MET	2.8
6	AG	77	ARG	2.8
26	BD	49	GLN	2.8
35	DN	57	THR	2.8
3	CD	28	ASP	2.8
18	AS	48	ILE	2.8
26	BD	5	VAL	2.8
43	DW	73	PRO	2.8
26	BD	80	TRP	2.8
26	BD	145	SER	2.8
39	DR	1	MET	2.8
26	BD	167	ASN	2.8
33	BL	126	ARG	2.8
39	BR	3	ALA	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
32	BK	101	GLY	2.8
12	AM	38	ILE	2.8
37	BP	85	VAL	2.8
21	AU	4	LYS	2.8
24	BV	91	PHE	2.8
28	BF	134	GLN	2.8
37	BP	67	GLU	2.8
44	BX	20	ASN	2.8
16	AQ	55	GLY	2.8
40	DS	23	LEU	2.8
41	DT	97	GLY	2.8
28	BF	174	PHE	2.8
10	AK	41	LEU	2.8
29	DG	36	LEU	2.8
29	DG	49	LEU	2.8
28	BF	144	LYS	2.8
16	AQ	4	ILE	2.8
24	DV	91	PHE	2.8
26	BD	27	ILE	2.8
47	D0	25	THR	2.8
52	BI	67	THR	2.8
34	DM	66	ARG	2.8
52	DI	52	LEU	2.8
18	AS	60	PHE	2.8
28	BF	30	VAL	2.8
29	DG	23	ILE	2.8
47	B0	32	THR	2.8
7	CH	62	LEU	2.8
29	BG	57	TYR	2.8
25	BC	164	VAL	2.8
26	BD	68	PHE	2.8
37	BP	77	SER	2.8
48	B1	46	VAL	2.8
30	DH	73	ASN	2.8
26	BD	56	LYS	2.8
9	AJ	34	ALA	2.8
39	BR	20	VAL	2.8
25	DC	128	THR	2.8
52	BI	72	THR	2.8
25	BC	126	GLY	2.8
1	AA	466	A	2.8
42	DU	69	VAL	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
52	BI	29	GLN	2.8
17	AR	20	ILE	2.8
27	BE	123	LYS	2.8
30	BH	89	LYS	2.8
30	BH	97	ARG	2.8
37	BP	61	ARG	2.8
43	BW	43	LYS	2.8
44	DX	40	SER	2.8
30	BH	117	LEU	2.8
26	BD	153	GLY	2.8
52	DI	125	THR	2.8
27	BE	158	PHE	2.8
27	BE	196	VAL	2.8
7	AH	13	ILE	2.8
37	BP	88	ARG	2.8
32	BK	119	ALA	2.8
5	CF	92	THR	2.8
52	BI	125	THR	2.8
6	AG	8	GLN	2.7
3	AD	22	SER	2.7
12	AM	29	SER	2.7
35	BN	98	LEU	2.7
6	AG	79	VAL	2.7
20	CB	198	VAL	2.7
5	AF	6	ILE	2.7
24	BV	4	ILE	2.7
31	BJ	40	HIS	2.7
2	CC	133	MET	2.7
3	AD	81	LEU	2.7
21	CU	28	LEU	2.7
48	D1	10	LEU	2.7
39	DR	83	TYR	2.7
4	CE	9	GLU	2.7
27	BE	140	ASP	2.7
34	DM	7	THR	2.7
40	DS	3	THR	2.7
26	BD	204	LYS	2.7
46	BZ	22	MET	2.7
12	AM	83	GLY	2.7
7	AH	102	VAL	2.7
16	AQ	27	PHE	2.7
25	BC	239	PHE	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
20	CB	150	ILE	2.7
41	DT	74	ILE	2.7
52	DI	128	ILE	2.7
25	DC	120	ASP	2.7
26	DD	204	LYS	2.7
1	AA	1493	A	2.7
5	CF	62	MET	2.7
11	AL	48	LEU	2.7
30	BH	101	ASP	2.7
34	DM	92	TRP	2.7
52	DI	78	LEU	2.7
25	DC	154	ALA	2.7
44	BX	26	PHE	2.7
33	BL	101	ILE	2.7
37	BP	49	ILE	2.7
12	CM	47	LEU	2.7
42	BU	101	THR	2.7
25	DC	112	GLY	2.7
5	CF	32	ALA	2.7
20	AB	159	ALA	2.7
28	BF	148	VAL	2.7
52	DI	132	ALA	2.7
27	BE	122	GLU	2.7
25	DC	20	ASN	2.7
43	DW	45	HIS	2.7
50	D3	48	MET	2.7
25	BC	257	ARG	2.7
42	DU	1	ALA	2.7
30	BH	131	SER	2.7
31	DJ	46	PRO	2.7
33	BL	50	PHE	2.7
17	CR	71	ASP	2.7
28	BF	157	THR	2.7
30	BH	78	VAL	2.7
33	DL	109	LYS	2.7
34	DM	11	LYS	2.7
34	DM	38	ARG	2.7
35	BN	70	THR	2.7
27	DE	138	LEU	2.7
37	BP	37	LYS	2.7
40	BS	28	LYS	2.7
20	CB	41	ASN	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	BJ	15	TRP	2.7
28	BF	137	PHE	2.7
38	DQ	32	ARG	2.7
41	DT	95	PHE	2.7
48	B1	32	LYS	2.7
25	DC	171	VAL	2.7
39	DR	64	VAL	2.7
33	BL	113	ALA	2.7
38	BQ	117	ALA	2.7
48	B1	50	GLU	2.7
18	CS	26	ASP	2.7
27	BE	43	THR	2.7
52	BI	91	LYS	2.7
11	CL	85	ARG	2.7
24	DV	56	PHE	2.7
27	BE	195	GLN	2.7
32	BK	78	ARG	2.7
5	AF	65	GLU	2.7
20	CB	200	PRO	2.7
38	BQ	3	VAL	2.7
28	BF	142	TYR	2.7
37	BP	94	ALA	2.7
29	BG	175	LYS	2.7
40	DS	109	ASP	2.7
46	BZ	33	ASN	2.7
29	BG	170	THR	2.7
39	DR	90	ARG	2.7
5	AF	64	VAL	2.7
34	BM	131	VAL	2.7
3	AD	194	ILE	2.7
52	DI	85	ILE	2.7
7	AH	98	LEU	2.6
27	BE	21	ARG	2.6
31	BJ	120	ARG	2.6
25	BC	238	ASN	2.6
10	CK	51	PHE	2.6
1	AA	1492	A	2.6
23	BB	653	U	2.6
43	DW	44	PHE	2.6
48	D1	21	THR	2.6
33	BL	16	GLY	2.6
7	CH	46	GLU	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
12	CM	46	GLU	2.6
43	BW	74	LYS	2.6
31	DJ	63	ALA	2.6
36	BO	64	TYR	2.6
20	AB	85	SER	2.6
33	DL	7	SER	2.6
36	BO	5	SER	2.6
39	BR	102	SER	2.6
37	BP	81	ASP	2.6
7	AH	17	GLN	2.6
16	AQ	8	GLN	2.6
16	AQ	11	VAL	2.6
18	AS	28	LYS	2.6
26	BD	70	LYS	2.6
31	BJ	119	PHE	2.6
31	DJ	15	TRP	2.6
23	DB	1171	G	2.6
27	BE	141	MET	2.6
33	BL	122	VAL	2.6
36	DO	1	MET	2.6
39	BR	19	THR	2.6
39	DR	41	ILE	2.6
40	BS	108	SER	2.6
40	BS	107	VAL	2.6
51	B4	38	GLY	2.6
2	AC	18	ASN	2.6
20	AB	211	LEU	2.6
33	BL	108	ALA	2.6
39	DR	65	ALA	2.6
34	DM	4	PRO	2.6
13	AN	46	LYS	2.6
26	BD	116	LYS	2.6
34	BM	117	PHE	2.6
7	AH	81	GLY	2.6
25	BC	41	GLY	2.6
26	BD	13	ARG	2.6
30	BH	134	VAL	2.6
30	DH	121	VAL	2.6
47	B0	35	GLU	2.6
52	BI	16	MET	2.6
37	DP	14	GLN	2.6
24	BV	63	ILE	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DN	33	ILE	2.6
25	DC	4	LYS	2.6
25	DC	189	ALA	2.6
31	BJ	123	LYS	2.6
25	BC	269	ARG	2.6
45	DY	37	ARG	2.6
18	AS	59	VAL	2.6
43	DW	80	SER	2.6
29	BG	38	ASP	2.6
17	CR	22	TYR	2.6
25	DC	61	TYR	2.6
33	DL	141	LYS	2.6
52	DI	1	ALA	2.6
48	D1	16	THR	2.6
52	DI	131	THR	2.6
29	DG	3	VAL	2.6
33	BL	112	LEU	2.6
46	DZ	18	CYS	2.6
7	AH	125	ILE	2.6
48	D1	36	LYS	2.6
28	BF	57	ALA	2.6
25	DC	238	ASN	2.6
8	AI	47	VAL	2.6
37	BP	43	GLU	2.6
1	CA	84	U	2.6
7	AH	100	ILE	2.6
20	AB	84	LEU	2.6
32	BK	17	ARG	2.6
26	BD	101	PHE	2.6
36	BO	45	SER	2.6
52	BI	46	ASP	2.6
33	DL	93	ASN	2.6
3	AD	200	VAL	2.6
7	AH	92	PRO	2.6
29	BG	43	LYS	2.6
42	BU	54	PRO	2.6
20	AB	26	MET	2.6
26	DD	80	TRP	2.6
5	AF	68	GLN	2.6
15	AP	39	PHE	2.6
47	D0	3	GLN	2.6
7	CH	1	SER	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
52	DI	101	SER	2.6
24	DV	69	GLU	2.6
7	AH	71	VAL	2.6
28	BF	73	VAL	2.6
31	DJ	64	VAL	2.6
32	BK	34	GLY	2.6
33	DL	116	VAL	2.6
41	DT	33	LYS	2.6
41	BT	28	ASN	2.6
48	D1	11	VAL	2.6
20	AB	28	PRO	2.6
41	DT	73	ARG	2.6
42	BU	40	LEU	2.6
13	CN	30	ILE	2.6
5	CF	80	PHE	2.6
15	CP	43	ALA	2.6
17	AR	63	TYR	2.6
33	DL	20	GLY	2.6
36	BO	52	SER	2.6
48	B1	6	GLU	2.6
17	AR	21	ASP	2.6
20	CB	193	ASP	2.6
16	CQ	52	CYS	2.6
20	CB	67	LEU	2.6
26	BD	23	PRO	2.6
37	BP	2	ASN	2.6
20	CB	14	HIS	2.6
28	BF	155	ILE	2.6
51	D4	33	HIS	2.6
37	DP	40	GLN	2.5
17	AR	19	GLU	2.5
25	DC	143	VAL	2.5
26	BD	141	ARG	2.5
40	BS	104	THR	2.5
43	BW	60	ALA	2.5
43	BW	62	ALA	2.5
51	B4	35	GLN	2.5
4	AE	113	VAL	2.5
22	BA	52	A	2.5
23	BB	1095	A	2.5
23	DB	898	C	2.5
43	BW	8	SER	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	BE	177	PRO	2.5
39	BR	1	MET	2.5
3	AD	162	GLU	2.5
20	CB	75	ALA	2.5
27	BE	41	GLN	2.5
52	DI	75	ALA	2.5
14	AO	15	GLY	2.5
50	B3	2	LYS	2.5
20	CB	190	SER	2.5
28	BF	112	ASP	2.5
39	BR	26	ASP	2.5
26	DD	128	ARG	2.5
33	DL	78	ARG	2.5
25	BC	225	ASN	2.5
15	CP	52	LEU	2.5
3	CD	106	PHE	2.5
40	BS	74	ILE	2.5
25	DC	258	SER	2.5
11	CL	123	ALA	2.5
26	BD	36	GLN	2.5
26	DD	31	ALA	2.5
13	CN	22	LYS	2.5
27	DE	53	THR	2.5
30	DH	13	GLY	2.5
31	BJ	23	LYS	2.5
37	BP	45	VAL	2.5
32	BK	115	ILE	2.5
33	BL	111	ILE	2.5
34	BM	10	ARG	2.5
52	DI	100	ILE	2.5
9	CJ	12	ALA	2.5
42	BU	82	VAL	2.5
43	DW	67	LYS	2.5
17	AR	73	HIS	2.5
31	BJ	47	HIS	2.5
26	BD	52	THR	2.5
50	D3	12	ARG	2.5
50	B3	13	PHE	2.5
20	CB	26	MET	2.5
7	CH	53	ASP	2.5
30	DH	136	SER	2.5
37	DP	74	GLN	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
44	BX	36	GLN	2.5
7	AH	74	ILE	2.5
20	CB	29	PHE	2.5
31	DJ	89	PHE	2.5
41	DT	92	ASN	2.5
26	BD	129	THR	2.5
37	DP	24	THR	2.5
39	DR	99	THR	2.5
48	D1	23	THR	2.5
27	BE	194	LYS	2.5
23	DB	2134	A	2.5
20	AB	198	VAL	2.5
25	BC	10	PRO	2.5
26	BD	170	VAL	2.5
29	BG	150	TYR	2.5
37	DP	61	ARG	2.5
39	DR	47	VAL	2.5
29	DG	114	HIS	2.5
38	DQ	55	GLN	2.5
41	BT	70	HIS	2.5
24	BV	59	GLU	2.5
10	CK	12	ARG	2.5
32	BK	8	LEU	2.5
33	BL	89	VAL	2.5
44	DX	21	LEU	2.5
39	DR	87	GLN	2.5
42	BU	53	GLN	2.5
25	DC	29	PHE	2.5
43	DW	78	PHE	2.5
13	CN	42	ASN	2.5
20	CB	178	LEU	2.5
39	BR	2	TYR	2.5
52	DI	12	VAL	2.5
8	AI	61	ASP	2.5
20	CB	39	ILE	2.5
27	DE	55	SER	2.5
50	B3	50	SER	2.5
28	BF	96	TRP	2.5
30	DH	50	ARG	2.5
38	DQ	50	ARG	2.5
41	DT	12	ARG	2.5
11	AL	62	VAL	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	BD	178	VAL	2.5
30	DH	107	GLY	2.5
32	BK	35	VAL	2.5
33	BL	116	VAL	2.5
25	DC	30	ALA	2.5
25	DC	60	ALA	2.5
31	DJ	6	ALA	2.5
33	DL	75	ALA	2.5
20	AB	200	PRO	2.5
34	DM	109	PRO	2.5
37	BP	9	GLN	2.5
30	DH	12	LEU	2.4
31	DJ	18	VAL	2.4
52	BI	12	VAL	2.4
52	BI	105	LEU	2.4
11	AL	63	THR	2.4
2	CC	182	ASP	2.4
38	DQ	73	ILE	2.4
3	AD	191	SER	2.4
28	DF	68	LYS	2.4
34	DM	30	SER	2.4
34	DM	93	VAL	2.4
36	BO	63	LYS	2.4
34	BM	134	THR	2.4
34	DM	9	PHE	2.4
41	BT	6	ARG	2.4
25	DC	21	PRO	2.4
52	BI	19	PRO	2.4
30	DH	95	GLY	2.4
50	B3	43	LEU	2.4
5	CF	25	TYR	2.4
16	AQ	52	CYS	2.4
17	AR	38	ILE	2.4
23	BB	1731	G	2.4
39	BR	62	GLU	2.4
50	D3	35	LYS	2.4
29	DG	46	ASP	2.4
33	DL	95	LEU	2.4
34	DM	105	MET	2.4
52	DI	69	VAL	2.4
52	DI	79	LEU	2.4
26	DD	13	ARG	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	BD	47	ALA	2.4
23	BB	138	U	2.4
27	BE	59	PRO	2.4
34	BM	83	GLY	2.4
36	BO	54	VAL	2.4
42	DU	48	VAL	2.4
29	DG	136	ASP	2.4
34	DM	47	GLU	2.4
30	BH	18	GLN	2.4
26	DD	152	PRO	2.4
30	DH	54	LEU	2.4
14	AO	72	LYS	2.4
16	AQ	46	HIS	2.4
3	CD	169	TRP	2.4
5	CF	42	TRP	2.4
25	BC	212	TRP	2.4
52	DI	96	LYS	2.4
23	BB	2286	G	2.4
14	AO	69	LEU	2.4
30	BH	119	ASN	2.4
36	BO	103	VAL	2.4
31	DJ	7	LYS	2.4
39	DR	71	LYS	2.4
5	AF	33	GLU	2.4
20	CB	165	ALA	2.4
27	BE	22	ASP	2.4
16	AQ	37	ILE	2.4
25	BC	162	GLN	2.4
29	BG	101	VAL	2.4
29	DG	13	GLY	2.4
52	BI	139	VAL	2.4
42	BU	68	ASN	2.4
43	DW	59	PHE	2.4
11	CL	24	GLU	2.4
26	BD	102	ALA	2.4
20	AB	66	ILE	2.4
23	BB	1727	C	2.4
30	DH	138	VAL	2.4
33	BL	90	VAL	2.4
43	DW	74	LYS	2.4
49	D2	37	LYS	2.4
42	DU	55	GLY	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
52	BI	5	GLN	2.4
38	BQ	35	PHE	2.4
6	AG	15	PRO	2.4
25	DC	10	PRO	2.4
30	DH	38	PRO	2.4
11	AL	75	GLU	2.4
28	BF	139	GLU	2.4
37	DP	87	ARG	2.4
52	DI	6	ALA	2.4
33	DL	84	LYS	2.4
51	B4	9	LYS	2.4
32	BK	85	VAL	2.4
37	BP	73	PHE	2.4
25	BC	51	ARG	2.4
42	BU	93	ARG	2.4
22	DA	52	A	2.4
27	BE	11	ALA	2.4
33	BL	143	GLU	2.4
25	BC	115	ILE	2.4
26	DD	2	ILE	2.4
26	BD	181	ASP	2.4
27	DE	116	ASP	2.4
29	BG	61	TRP	2.4
31	BJ	17	VAL	2.4
1	CA	86	G	2.4
33	BL	26	GLY	2.4
27	BE	72	SER	2.4
52	DI	124	MET	2.4
10	CK	82	GLU	2.4
35	BN	75	ILE	2.4
50	D3	30	HIS	2.4
28	BF	130	GLY	2.3
29	DG	16	VAL	2.3
50	B3	29	ARG	2.3
26	DD	64	GLU	2.3
28	DF	47	LYS	2.3
14	CO	77	TYR	2.3
20	CB	156	LEU	2.3
21	AU	3	ILE	2.3
37	DP	47	ILE	2.3
33	BL	37	GLY	2.3
36	DO	93	ASP	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	BD	81	GLU	2.3
11	AL	47	ALA	2.3
29	BG	25	ILE	2.3
31	BJ	54	ILE	2.3
46	DZ	9	TYR	2.3
30	BH	6	LEU	2.3
37	DP	113	LEU	2.3
52	DI	26	ALA	2.3
43	DW	19	ARG	2.3
26	DD	126	ASN	2.3
26	DD	203	VAL	2.3
32	BK	103	VAL	2.3
46	BZ	43	PHE	2.3
46	DZ	45	THR	2.3
33	DL	104	GLN	2.3
3	AD	122	ILE	2.3
7	CH	124	ILE	2.3
25	DC	177	SER	2.3
34	DM	33	LEU	2.3
50	B3	39	ARG	2.3
23	DB	846	U	2.3
41	BT	10	VAL	2.3
43	BW	41	GLY	2.3
25	DC	43	ASN	2.3
45	BY	19	HIS	2.3
6	CG	77	ARG	2.3
2	CC	70	ALA	2.3
6	CG	60	ALA	2.3
23	DB	548	G	2.3
37	DP	3	ILE	2.3
52	BI	13	ALA	2.3
14	AO	74	VAL	2.3
1	CA	747	A	2.3
16	AQ	36	PHE	2.3
16	AQ	57	VAL	2.3
20	CB	90	PHE	2.3
47	B0	50	GLY	2.3
37	DP	33	GLU	2.3
37	BP	23	ASP	2.3
40	DS	66	ILE	2.3
52	DI	82	ALA	2.3
10	AK	88	PRO	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
29	BG	91	VAL	2.3
52	BI	77	VAL	2.3
16	AQ	9	GLY	2.3
33	DL	140	GLY	2.3
41	BT	21	SER	2.3
52	BI	136	GLY	2.3
37	DP	36	LYS	2.3
52	BI	112	LYS	2.3
29	BG	12	ALA	2.3
30	BH	140	ALA	2.3
33	DL	142	ILE	2.3
18	AS	73	PHE	2.3
36	BO	78	VAL	2.3
10	CK	52	ARG	2.3
20	CB	99	MET	2.3
25	DC	131	MET	2.3
18	AS	47	THR	2.3
27	DE	175	ILE	2.3
30	DH	80	ILE	2.3
9	AJ	36	VAL	2.3
24	DV	92	VAL	2.3
33	DL	134	ALA	2.3
17	CR	72	ARG	2.3
17	CR	23	LYS	2.3
33	BL	62	PRO	2.3
52	DI	94	LYS	2.3
17	AR	66	LEU	2.3
20	CB	42	LEU	2.3
47	B0	38	LEU	2.3
24	DV	4	ILE	2.3
14	CO	88	ARG	2.3
32	BK	63	VAL	2.3
35	BN	66	ALA	2.3
36	BO	70	ALA	2.3
25	DC	137	GLY	2.3
27	DE	38	GLY	2.3
7	CH	72	GLU	2.3
39	DR	52	PRO	2.3
2	CC	168	ARG	2.3
31	BJ	80	HIS	2.3
25	DC	119	VAL	2.3
31	DJ	42	ALA	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
39	DR	35	PHE	2.3
26	DD	197	THR	2.3
27	BE	71	GLY	2.3
27	DE	20	GLY	2.3
30	DH	119	ASN	2.3
33	DL	45	GLY	2.3
8	AI	62	LEU	2.3
23	DB	654	A	2.3
25	DC	109	LEU	2.3
26	BD	138	LEU	2.3
31	DJ	110	PRO	2.3
41	DT	8	LEU	2.3
20	AB	61	SER	2.3
5	AF	25	TYR	2.3
16	AQ	78	VAL	2.3
33	DL	54	GLN	2.3
37	BP	40	GLN	2.3
26	BD	125	TRP	2.3
33	DL	108	ALA	2.3
34	DM	127	LYS	2.3
52	BI	99	LYS	2.3
52	BI	98	GLY	2.3
13	AN	40	ARG	2.3
25	BC	243	PRO	2.3
3	AD	106	PHE	2.3
8	AI	29	ILE	2.3
3	AD	154	VAL	2.3
17	AR	39	VAL	2.3
36	DO	61	GLN	2.3
42	DU	44	HIS	2.3
47	D0	48	TYR	2.3
48	B1	12	SER	2.3
34	BM	32	GLY	2.2
25	DC	97	ASP	2.2
28	DF	45	ASP	2.2
47	B0	25	THR	2.2
7	CH	74	ILE	2.2
20	AB	161	PHE	2.2
37	BP	42	PHE	2.2
37	BP	60	VAL	2.2
42	BU	41	VAL	2.2
11	CL	75	GLU	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	DE	142	ALA	2.2
35	BN	43	GLU	2.2
38	DQ	41	ALA	2.2
39	BR	45	GLU	2.2
41	DT	5	GLU	2.2
23	DB	1913	A	2.2
16	AQ	43	LEU	2.2
25	DC	224	MET	2.2
27	BE	118	LEU	2.2
37	DP	37	LYS	2.2
41	DT	37	ASP	2.2
2	AC	99	GLN	2.2
4	CE	100	GLU	2.2
25	DC	208	GLY	2.2
30	DH	140	ALA	2.2
25	BC	211	ARG	2.2
4	AE	114	LEU	2.2
20	AB	56	LEU	2.2
52	BI	116	MET	2.2
14	CO	73	ASP	2.2
32	BK	99	ILE	2.2
52	DI	57	VAL	2.2
26	BD	198	GLY	2.2
26	DD	28	GLU	2.2
26	DD	72	GLY	2.2
33	DL	123	ARG	2.2
52	DI	129	GLU	2.2
16	CQ	80	LYS	2.2
17	CR	73	HIS	2.2
31	BJ	85	LYS	2.2
48	B1	36	LYS	2.2
16	AQ	7	LEU	2.2
22	BA	88	C	2.2
5	CF	51	ILE	2.2
34	DM	31	PHE	2.2
34	DM	18	ARG	2.2
39	BR	78	ARG	2.2
43	DW	76	ARG	2.2
7	AH	62	LEU	2.2
34	BM	64	TRP	2.2
20	AB	163	ILE	2.2
23	DB	1870	C	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	AD	44	LYS	2.2
20	CB	117	GLU	2.2
4	AE	81	GLN	2.2
39	BR	91	GLN	2.2
46	DZ	13	THR	2.2
25	BC	29	PHE	2.2
39	DR	14	VAL	2.2
5	CF	4	TYR	2.2
34	DM	98	PRO	2.2
38	DQ	31	TYR	2.2
20	CB	100	LEU	2.2
30	BH	77	THR	2.2
37	DP	92	ARG	2.2
48	D1	43	ARG	2.2
49	B2	41	ARG	2.2
7	AH	126	CYS	2.2
23	DB	1173	U	2.2
26	DD	146	ILE	2.2
34	DM	63	ILE	2.2
42	BU	102	ILE	2.2
7	AH	46	GLU	2.2
52	DI	56	VAL	2.2
28	DF	58	ALA	2.2
35	BN	79	LEU	2.2
52	BI	55	PRO	2.2
32	DK	97	THR	2.2
34	DM	6	ARG	2.2
36	BO	80	GLU	2.2
11	AL	52	CYS	2.2
3	AD	155	LYS	2.2
20	AB	34	ARG	2.2
20	CB	204	ASP	2.2
20	CB	31	PHE	2.2
18	AS	43	MET	2.2
27	BE	189	THR	2.2
48	B1	38	PHE	2.2
20	AB	216	VAL	2.2
41	DT	47	VAL	2.2
23	BB	1538	G	2.2
5	CF	54	LEU	2.2
5	CF	100	SER	2.2
9	AJ	29	ALA	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	BD	54	ALA	2.2
30	BH	58	LEU	2.2
42	DU	29	SER	2.2
44	DX	47	ARG	2.2
52	DI	102	ARG	2.2
2	CC	165	GLU	2.2
8	AI	27	ILE	2.2
14	AO	21	THR	2.2
20	CB	37	VAL	2.2
20	CB	209	VAL	2.2
31	DJ	102	GLU	2.2
40	BS	102	HIS	2.2
25	DC	79	ARG	2.2
12	AM	36	ALA	2.2
25	DC	191	LEU	2.2
29	BG	105	SER	2.2
52	BI	75	ALA	2.2
25	DC	246	PRO	2.2
27	BE	124	PHE	2.2
3	AD	129	VAL	2.2
11	AL	78	VAL	2.2
31	BJ	98	GLU	2.2
20	AB	14	HIS	2.2
20	CB	188	THR	2.2
29	DG	52	GLY	2.2
32	BK	71	ARG	2.2
51	B4	36	ARG	2.2
6	AG	51	GLN	2.1
25	DC	138	SER	2.1
27	BE	125	SER	2.1
39	BR	35	PHE	2.1
16	CQ	59	GLU	2.1
21	AU	44	ARG	2.1
23	BB	1459	G	2.1
24	BV	32	GLY	2.1
42	BU	25	LYS	2.1
16	AQ	72	TRP	2.1
20	AB	57	ASN	2.1
17	AR	22	TYR	2.1
25	BC	91	ALA	2.1
25	BC	209	ALA	2.1
29	BG	164	ALA	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
43	BW	46	ALA	2.1
46	BZ	9	TYR	2.1
34	DM	130	PHE	2.1
52	BI	104	GLN	2.1
29	DG	14	VAL	2.1
30	DH	129	GLU	2.1
37	BP	72	VAL	2.1
41	BT	79	ASP	2.1
38	DQ	108	LEU	2.1
21	CU	8	ASN	2.1
25	DC	170	TYR	2.1
26	DD	134	HIS	2.1
36	BO	50	ALA	2.1
38	BQ	20	ALA	2.1
48	B1	25	ASN	2.1
50	B3	42	HIS	2.1
21	AU	18	PHE	2.1
4	CE	12	GLU	2.1
15	CP	45	GLU	2.1
23	DB	278	A	2.1
26	BD	55	LYS	2.1
27	BE	127	GLU	2.1
33	BL	136	GLU	2.1
37	BP	10	GLU	2.1
42	BU	3	LYS	2.1
27	BE	175	ILE	2.1
30	BH	103	VAL	2.1
26	DD	54	ALA	2.1
39	DR	66	HIS	2.1
42	DU	68	ASN	2.1
29	BG	3	VAL	2.1
29	BG	172	GLU	2.1
36	BO	20	GLU	2.1
37	BP	63	ILE	2.1
42	DU	102	ILE	2.1
4	CE	70	MET	2.1
14	CO	2	LEU	2.1
18	AS	29	PRO	2.1
23	BB	1067	A	2.1
33	DL	79	LEU	2.1
14	AO	20	ASP	2.1
13	AN	86	ALA	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
19	CT	67	HIS	2.1
20	AB	215	ALA	2.1
20	CB	33	ALA	2.1
23	DB	546	U	2.1
23	DB	1460	U	2.1
29	DG	54	ARG	2.1
29	DG	122	ALA	2.1
39	DR	89	HIS	2.1
5	AF	5	GLU	2.1
24	DV	64	VAL	2.1
28	BF	103	ILE	2.1
32	BK	76	VAL	2.1
42	BU	48	VAL	2.1
20	CB	16	GLY	2.1
25	BC	156	SER	2.1
26	BD	95	SER	2.1
32	DK	14	SER	2.1
35	BN	90	ARG	2.1
40	DS	70	LYS	2.1
23	DB	1490	A	2.1
26	DD	43	ASP	2.1
27	BE	171	ASP	2.1
25	BC	57	HIS	2.1
26	BD	50	VAL	2.1
27	BE	187	VAL	2.1
3	CD	190	LEU	2.1
46	DZ	47	LYS	2.1
18	CS	60	PHE	2.1
20	AB	122	ASP	2.1
16	CQ	44	HIS	2.1
32	BK	52	VAL	2.1
36	BO	100	HIS	2.1
37	DP	79	VAL	2.1
42	BU	27	VAL	2.1
23	BB	846	U	2.1
31	DJ	3	THR	2.1
44	DX	23	ARG	2.1
3	CD	122	ILE	2.1
5	CF	82	ASP	2.1
11	CL	92	VAL	2.1
16	CQ	11	VAL	2.1
19	AT	66	ILE	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
25	BC	103	ILE	2.1
30	DH	22	LYS	2.1
40	BS	65	ASP	2.1
26	BD	164	GLN	2.1
20	AB	197	PHE	2.1
29	BG	11	PRO	2.1
50	D3	1	PRO	2.1
3	AD	174	ALA	2.1
2	CC	153	SER	2.1
4	CE	40	ASP	2.1
8	AI	20	ILE	2.1
13	AN	60	ARG	2.1
42	DU	25	LYS	2.1
3	AD	169	TRP	2.1
20	CB	201	GLY	2.1
46	DZ	58	ASP	2.1
20	CB	48	MET	2.1
16	AQ	69	THR	2.1
32	BK	82	ASN	2.1
1	CA	1534	A	2.1
21	CU	34	ARG	2.1
26	DD	86	GLU	2.1
27	DE	37	ALA	2.1
27	DE	122	GLU	2.1
33	BL	58	TYR	2.1
37	DP	98	TYR	2.1
50	D3	46	LYS	2.1
23	BB	1870	C	2.1
36	BO	47	VAL	2.1
50	B3	57	VAL	2.1
25	DC	63	ILE	2.1
36	BO	91	SER	2.1
21	CU	12	ASP	2.1
28	DF	173	ASP	2.1
48	D1	35	LEU	2.1
43	DW	25	PHE	2.1
43	DW	39	GLN	2.1
11	AL	25	ALA	2.1
20	CB	19	THR	2.1
23	BB	2797	U	2.1
16	AQ	58	VAL	2.1
25	DC	135	PRO	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	BJ	73	VAL	2.1
40	DS	10	ALA	2.1
29	BG	102	ILE	2.1
29	BG	132	LEU	2.1
33	BL	73	ILE	2.1
33	BL	22	GLY	2.1
35	BN	102	PHE	2.0
37	BP	5	LYS	2.0
3	AD	192	ALA	2.0
10	CK	83	VAL	2.0
26	BD	185	ASN	2.0
29	BG	24	THR	2.0
39	DR	103	ALA	2.0
43	BW	5	ALA	2.0
52	DI	33	ASN	2.0
52	DI	76	ALA	2.0
3	AD	27	ILE	2.0
26	BD	191	GLY	2.0
26	DD	186	LEU	2.0
37	BP	47	ILE	2.0
41	BT	98	GLY	2.0
34	BM	106	ASP	2.0
41	BT	80	TRP	2.0
30	DH	87	GLU	2.0
3	CD	174	ALA	2.0
33	BL	120	VAL	2.0
36	BO	113	ALA	2.0
48	D1	41	VAL	2.0
20	AB	214	GLY	2.0
31	DJ	5	THR	2.0
25	DC	124	LYS	2.0
40	DS	27	LYS	2.0
10	AK	51	PHE	2.0
20	CB	49	PHE	2.0
32	BK	113	MET	2.0
36	DO	7	ARG	2.0
49	B2	28	ARG	2.0
2	CC	166	TRP	2.0
5	CF	60	VAL	2.0
7	AH	115	ALA	2.0
11	AL	118	VAL	2.0
30	DH	147	VAL	2.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	CQ	7	LEU	2.0
4	CE	118	GLY	2.0
5	AF	67	PRO	2.0
25	DC	25	LYS	2.0
32	BK	39	ILE	2.0
30	BH	68	ARG	2.0
32	BK	102	PRO	2.0
40	BS	26	GLY	2.0
52	DI	93	ASN	2.0
3	CD	177	MET	2.0
23	DB	1458	U	2.0
25	BC	99	GLU	2.0
48	D1	18	HIS	2.0
25	DC	244	VAL	2.0
9	AJ	10	LEU	2.0
11	CL	93	ARG	2.0
26	BD	128	ARG	2.0
51	D4	16	ILE	2.0
43	DW	7	GLY	2.0
1	AA	87	C	2.0
15	AP	38	PHE	2.0
10	AK	118	ASN	2.0
30	BH	96	THR	2.0
35	BN	73	ASN	2.0
37	BP	70	GLU	2.0
39	BR	86	GLN	2.0
52	DI	49	GLU	2.0
48	B1	20	TYR	2.0
52	DI	4	VAL	2.0
28	DF	151	LEU	2.0
35	BN	8	ARG	2.0
37	BP	71	ARG	2.0
39	DR	49	ILE	2.0
41	DT	69	ARG	2.0
42	BU	85	ARG	2.0
51	D4	10	LEU	2.0
23	DB	549	G	2.0
42	BU	84	PHE	2.0
10	CK	108	ASN	2.0
27	BE	152	GLU	2.0
9	CJ	35	GLN	2.0
24	BV	72	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
25	DC	64	VAL	2.0
27	BE	138	LEU	2.0
33	BL	46	VAL	2.0
33	DL	110	VAL	2.0
41	DT	34	VAL	2.0
50	D3	6	VAL	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 monosaccharides 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<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
53	MG	AP	101	1/1	0.41	0.37	53,53,53,53	1
53	MG	BB	3042	1/1	0.48	0.09	95,95,95,95	0
53	MG	CA	1623	1/1	0.53	0.16	151,151,151,151	0
53	MG	AA	1612	1/1	0.58	0.16	104,104,104,104	0
53	MG	AA	1655	1/1	0.66	0.18	75,75,75,75	0
53	MG	BB	3082	1/1	0.68	0.16	19,19,19,19	0
53	MG	DB	3082	1/1	0.69	0.16	73,73,73,73	0
53	MG	AA	1644	1/1	0.70	0.10	96,96,96,96	0
53	MG	AA	1614	1/1	0.71	0.11	62,62,62,62	0
53	MG	DB	3059	1/1	0.72	0.09	127,127,127,127	0
53	MG	AA	1619	1/1	0.73	0.13	100,100,100,100	0
53	MG	BB	3090	1/1	0.75	0.08	74,74,74,74	0
53	MG	AA	1622	1/1	0.75	0.21	116,116,116,116	0
53	MG	AA	1636	1/1	0.77	0.61	127,127,127,127	0
53	MG	AA	1649	1/1	0.77	0.18	114,114,114,114	0
53	MG	BB	3033	1/1	0.78	0.29	93,93,93,93	0
53	MG	DB	3058	1/1	0.78	0.31	30,30,30,30	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
53	MG	DB	3060	1/1	0.79	0.11	77,77,77,77	0
53	MG	AA	1625	1/1	0.80	0.19	5,5,5,5	1
53	MG	DB	3024	1/1	0.80	0.11	36,36,36,36	0
53	MG	DB	3030	1/1	0.80	0.15	23,23,23,23	0
53	MG	DB	3057	1/1	0.80	0.09	28,28,28,28	0
53	MG	AA	1608	1/1	0.81	0.08	121,121,121,121	0
53	MG	CA	1660	1/1	0.81	0.15	65,65,65,65	0
53	MG	AA	1654	1/1	0.81	0.10	59,59,59,59	0
53	MG	BB	3017	1/1	0.82	0.10	72,72,72,72	0
53	MG	AA	1638	1/1	0.82	0.21	98,98,98,98	0
53	MG	BB	3094	1/1	0.82	0.08	35,35,35,35	0
53	MG	AA	1623	1/1	0.82	0.17	32,32,32,32	1
53	MG	BB	3081	1/1	0.83	0.16	46,46,46,46	0
53	MG	BB	3054	1/1	0.83	0.13	72,72,72,72	0
53	MG	BB	3088	1/1	0.83	0.15	34,34,34,34	0
53	MG	CA	1636	1/1	0.83	0.10	51,51,51,51	0
53	MG	DB	3050	1/1	0.84	0.11	74,74,74,74	0
53	MG	BB	3051	1/1	0.84	0.09	71,71,71,71	0
53	MG	DB	3013	1/1	0.84	0.15	34,34,34,34	0
53	MG	AA	1629	1/1	0.84	0.14	138,138,138,138	0
53	MG	BB	3028	1/1	0.84	0.20	40,40,40,40	0
53	MG	DB	3065	1/1	0.84	0.16	47,47,47,47	1
53	MG	DB	3034	1/1	0.84	0.16	66,66,66,66	0
53	MG	BB	3049	1/1	0.85	0.10	11,11,11,11	0
53	MG	AA	1653	1/1	0.85	0.10	65,65,65,65	0
53	MG	BB	3010	1/1	0.85	0.11	39,39,39,39	0
53	MG	CA	1662	1/1	0.85	0.14	26,26,26,26	0
53	MG	AA	1659	1/1	0.85	0.12	105,105,105,105	0
53	MG	DB	3104	1/1	0.85	0.12	50,50,50,50	0
53	MG	AA	1607	1/1	0.86	0.09	27,27,27,27	0
53	MG	BB	3110	1/1	0.86	0.13	60,60,60,60	0
53	MG	BB	3034	1/1	0.86	0.12	25,25,25,25	0
53	MG	AA	1641	1/1	0.86	0.11	49,49,49,49	0
53	MG	BB	3021	1/1	0.86	0.14	55,55,55,55	0
53	MG	AA	1615	1/1	0.86	0.12	43,43,43,43	0
53	MG	BB	3100	1/1	0.87	0.20	11,11,11,11	1
53	MG	BB	3018	1/1	0.87	0.09	27,27,27,27	0
53	MG	BB	3067	1/1	0.87	0.18	78,78,78,78	0
53	MG	CA	1630	1/1	0.87	0.09	5,5,5,5	1
53	MG	BB	3074	1/1	0.87	0.11	13,13,13,13	0
53	MG	BB	3007	1/1	0.87	0.15	28,28,28,28	0
53	MG	DB	3054	1/1	0.87	0.07	15,15,15,15	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
53	MG	BB	3046	1/1	0.88	0.07	51,51,51,51	0
53	MG	DB	3014	1/1	0.88	0.07	5,5,5,5	0
53	MG	CA	1627	1/1	0.88	0.14	29,29,29,29	1
53	MG	DB	3053	1/1	0.88	0.12	27,27,27,27	0
53	MG	DB	3052	1/1	0.89	0.17	60,60,60,60	0
53	MG	BB	3104	1/1	0.89	0.12	18,18,18,18	0
53	MG	AA	1639	1/1	0.89	0.06	47,47,47,47	0
53	MG	CA	1639	1/1	0.89	0.08	117,117,117,117	0
53	MG	CA	1645	1/1	0.89	0.12	82,82,82,82	0
53	MG	AA	1620	1/1	0.90	0.12	62,62,62,62	0
53	MG	CA	1637	1/1	0.90	0.09	68,68,68,68	0
53	MG	AA	1631	1/1	0.90	0.08	61,61,61,61	0
53	MG	CA	1643	1/1	0.90	0.08	41,41,41,41	0
53	MG	BB	3105	1/1	0.90	0.22	64,64,64,64	0
53	MG	CA	1649	1/1	0.90	0.18	88,88,88,88	0
53	MG	BB	3005	1/1	0.90	0.12	5,5,5,5	0
53	MG	CA	1608	1/1	0.90	0.06	110,110,110,110	0
53	MG	AA	1650	1/1	0.90	0.05	72,72,72,72	0
53	MG	CA	1624	1/1	0.90	0.13	48,48,48,48	0
53	MG	BB	3057	1/1	0.90	0.17	27,27,27,27	0
53	MG	DB	3094	1/1	0.90	0.24	5,5,5,5	1
53	MG	BB	3043	1/1	0.90	0.09	75,75,75,75	0
53	MG	DB	3110	1/1	0.90	0.18	54,54,54,54	0
53	MG	DB	3016	1/1	0.91	0.11	23,23,23,23	0
53	MG	DB	3023	1/1	0.91	0.06	34,34,34,34	0
53	MG	BB	3079	1/1	0.91	0.10	38,38,38,38	0
53	MG	DB	3029	1/1	0.91	0.29	41,41,41,41	0
53	MG	AA	1657	1/1	0.91	0.06	81,81,81,81	0
53	MG	CA	1631	1/1	0.91	0.08	36,36,36,36	0
53	MG	CA	1635	1/1	0.91	0.11	20,20,20,20	0
53	MG	BB	3059	1/1	0.91	0.08	10,10,10,10	0
53	MG	BB	3060	1/1	0.91	0.08	69,69,69,69	0
53	MG	AA	1617	1/1	0.91	0.12	78,78,78,78	0
53	MG	CA	1609	1/1	0.91	0.18	45,45,45,45	0
53	MG	CA	1611	1/1	0.91	0.12	71,71,71,71	0
53	MG	CA	1614	1/1	0.91	0.09	47,47,47,47	0
53	MG	CA	1657	1/1	0.91	0.07	37,37,37,37	0
53	MG	DB	3061	1/1	0.91	0.07	78,78,78,78	0
53	MG	DB	3063	1/1	0.91	0.08	13,13,13,13	0
53	MG	CA	1616	1/1	0.91	0.08	68,68,68,68	0
53	MG	AA	1602	1/1	0.91	0.08	62,62,62,62	0
53	MG	DB	3007	1/1	0.91	0.10	12,12,12,12	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
53	MG	BB	3096	1/1	0.91	0.14	43,43,43,43	0
53	MG	CA	1626	1/1	0.91	0.10	73,73,73,73	0
53	MG	DB	3025	1/1	0.92	0.15	21,21,21,21	0
53	MG	BB	3091	1/1	0.92	0.07	19,19,19,19	0
53	MG	AA	1624	1/1	0.92	0.16	79,79,79,79	0
53	MG	DB	3031	1/1	0.92	0.12	18,18,18,18	0
53	MG	BB	3080	1/1	0.92	0.08	31,31,31,31	0
53	MG	DB	3045	1/1	0.92	0.07	61,61,61,61	0
53	MG	BB	3097	1/1	0.92	0.16	74,74,74,74	0
53	MG	CA	1622	1/1	0.92	0.09	67,67,67,67	0
53	MG	CA	1646	1/1	0.92	0.08	42,42,42,42	0
53	MG	AA	1618	1/1	0.92	0.06	46,46,46,46	0
53	MG	CA	1650	1/1	0.92	0.12	82,82,82,82	0
53	MG	AA	1635	1/1	0.92	0.06	85,85,85,85	0
53	MG	BB	3040	1/1	0.92	0.10	21,21,21,21	0
53	MG	BB	3109	1/1	0.92	0.14	15,15,15,15	0
53	MG	CA	1628	1/1	0.92	0.06	55,55,55,55	1
53	MG	CA	1629	1/1	0.92	0.06	45,45,45,45	0
53	MG	BB	3089	1/1	0.92	0.09	45,45,45,45	0
53	MG	DB	3067	1/1	0.92	0.11	17,17,17,17	0
53	MG	CA	1607	1/1	0.92	0.06	18,18,18,18	0
53	MG	DB	3021	1/1	0.92	0.10	16,16,16,16	0
53	MG	CA	1632	1/1	0.92	0.12	61,61,61,61	0
53	MG	BB	3009	1/1	0.92	0.07	35,35,35,35	0
53	MG	DN	201	1/1	0.92	0.19	49,49,49,49	0
53	MG	BB	3084	1/1	0.93	0.11	5,5,5,5	0
53	MG	CA	1638	1/1	0.93	0.04	37,37,37,37	0
53	MG	BB	3052	1/1	0.93	0.10	19,19,19,19	0
53	MG	CA	1613	1/1	0.93	0.14	78,78,78,78	0
53	MG	BB	3053	1/1	0.93	0.07	6,6,6,6	0
53	MG	AA	1604	1/1	0.93	0.14	45,45,45,45	0
53	MG	AA	1647	1/1	0.93	0.10	23,23,23,23	0
53	MG	AA	1605	1/1	0.93	0.09	48,48,48,48	0
53	MG	CA	1653	1/1	0.93	0.26	45,45,45,45	0
53	MG	DB	3055	1/1	0.93	0.09	19,19,19,19	0
53	MG	BB	3035	1/1	0.93	0.08	12,12,12,12	0
53	MG	BB	3065	1/1	0.93	0.13	47,47,47,47	0
53	MG	BB	3098	1/1	0.93	0.16	45,45,45,45	0
53	MG	AA	1637	1/1	0.93	0.11	81,81,81,81	0
53	MG	BB	3071	1/1	0.93	0.11	24,24,24,24	0
53	MG	DB	3062	1/1	0.93	0.13	43,43,43,43	0
53	MG	AA	1606	1/1	0.93	0.06	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
53	MG	AA	1632	1/1	0.93	0.05	53,53,53,53	0
53	MG	DB	3017	1/1	0.93	0.12	5,5,5,5	0
53	MG	DB	3071	1/1	0.93	0.08	39,39,39,39	0
53	MG	DB	3018	1/1	0.93	0.09	29,29,29,29	0
53	MG	DB	3083	1/1	0.93	0.17	27,27,27,27	0
53	MG	AA	1634	1/1	0.93	0.10	85,85,85,85	0
53	MG	CA	1634	1/1	0.93	0.15	61,61,61,61	0
53	MG	DB	3108	1/1	0.93	0.07	5,5,5,5	0
53	MG	AA	1656	1/1	0.93	0.26	66,66,66,66	0
53	MG	AA	1643	1/1	0.93	0.09	73,73,73,73	0
53	MG	CA	1656	1/1	0.94	0.11	48,48,48,48	0
53	MG	BB	3072	1/1	0.94	0.09	24,24,24,24	0
53	MG	AA	1613	1/1	0.94	0.06	42,42,42,42	0
53	MG	BB	3093	1/1	0.94	0.23	5,5,5,5	1
53	MG	DB	3001	1/1	0.94	0.16	7,7,7,7	0
53	MG	BB	3075	1/1	0.94	0.18	31,31,31,31	0
53	MG	AA	1658	1/1	0.94	0.21	167,167,167,167	0
53	MG	AA	1642	1/1	0.94	0.08	70,70,70,70	0
53	MG	AA	1611	1/1	0.94	0.06	40,40,40,40	0
53	MG	BB	3099	1/1	0.94	0.11	30,30,30,30	0
53	MG	CA	1640	1/1	0.94	0.07	11,11,11,11	0
53	MG	CA	1642	1/1	0.94	0.09	45,45,45,45	0
53	MG	AA	1603	1/1	0.94	0.11	43,43,43,43	0
53	MG	BB	3083	1/1	0.94	0.09	20,20,20,20	0
53	MG	BB	3031	1/1	0.94	0.19	45,45,45,45	0
53	MG	DB	3072	1/1	0.94	0.07	30,30,30,30	0
53	MG	DB	3076	1/1	0.94	0.07	17,17,17,17	0
53	MG	DB	3077	1/1	0.94	0.17	57,57,57,57	0
53	MG	BB	3087	1/1	0.94	0.13	45,45,45,45	0
53	MG	AA	1645	1/1	0.94	0.11	27,27,27,27	0
53	MG	DB	3089	1/1	0.94	0.06	65,65,65,65	0
53	MG	CA	1652	1/1	0.94	0.07	44,44,44,44	0
53	MG	DB	3096	1/1	0.94	0.08	20,20,20,20	0
53	MG	DB	3102	1/1	0.94	0.10	26,26,26,26	0
53	MG	DB	3032	1/1	0.94	0.10	46,46,46,46	0
53	MG	DB	3107	1/1	0.94	0.09	19,19,19,19	0
53	MG	AA	1630	1/1	0.94	0.08	30,30,30,30	0
53	MG	DB	3043	1/1	0.94	0.14	9,9,9,9	0
53	MG	CA	1654	1/1	0.94	0.05	40,40,40,40	0
53	MG	AA	1646	1/1	0.95	0.30	60,60,60,60	0
53	MG	DB	3040	1/1	0.95	0.12	5,5,5,5	0
53	MG	CA	1648	1/1	0.95	0.08	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
53	MG	AA	1616	1/1	0.95	0.07	46,46,46,46	0
53	MG	BB	3064	1/1	0.95	0.06	39,39,39,39	0
53	MG	CA	1620	1/1	0.95	0.07	35,35,35,35	0
53	MG	BB	3036	1/1	0.95	0.14	37,37,37,37	0
53	MG	BB	3039	1/1	0.95	0.18	45,45,45,45	0
53	MG	BB	3016	1/1	0.95	0.13	15,15,15,15	0
53	MG	CA	1625	1/1	0.95	0.09	26,26,26,26	0
53	MG	BB	3041	1/1	0.95	0.05	30,30,30,30	0
53	MG	AA	1648	1/1	0.95	0.05	94,94,94,94	0
53	MG	AA	1627	1/1	0.95	0.14	72,72,72,72	0
53	MG	DB	3002	1/1	0.95	0.12	37,37,37,37	0
53	MG	DB	3004	1/1	0.95	0.13	19,19,19,19	0
53	MG	BB	3078	1/1	0.95	0.19	25,25,25,25	0
53	MG	BB	3101	1/1	0.95	0.05	12,12,12,12	0
53	MG	DB	3066	1/1	0.95	0.08	5,5,5,5	0
53	MG	BB	3019	1/1	0.95	0.08	27,27,27,27	0
53	MG	DB	3015	1/1	0.95	0.09	49,49,49,49	0
53	MG	AA	1628	1/1	0.95	0.10	26,26,26,26	0
53	MG	BB	3027	1/1	0.95	0.09	23,23,23,23	0
53	MG	AA	1652	1/1	0.95	0.08	25,25,25,25	0
53	MG	DB	3020	1/1	0.95	0.12	20,20,20,20	0
53	MG	CA	1603	1/1	0.95	0.13	69,69,69,69	0
53	MG	DB	3088	1/1	0.95	0.14	35,35,35,35	0
53	MG	CA	1605	1/1	0.95	0.07	18,18,18,18	0
53	MG	CA	1606	1/1	0.95	0.09	74,74,74,74	0
53	MG	BB	3030	1/1	0.95	0.05	53,53,53,53	0
53	MG	DB	3098	1/1	0.95	0.12	18,18,18,18	0
53	MG	DB	3099	1/1	0.95	0.07	9,9,9,9	0
53	MG	DB	3026	1/1	0.95	0.14	18,18,18,18	0
53	MG	DB	3027	1/1	0.95	0.08	10,10,10,10	0
53	MG	DB	3105	1/1	0.95	0.11	23,23,23,23	0
53	MG	DB	3106	1/1	0.95	0.06	21,21,21,21	0
53	MG	AA	1633	1/1	0.95	0.05	75,75,75,75	0
53	MG	AA	1601	1/1	0.95	0.06	26,26,26,26	0
53	MG	BB	3058	1/1	0.95	0.10	28,28,28,28	0
53	MG	CA	1612	1/1	0.95	0.08	29,29,29,29	0
53	MG	BB	3055	1/1	0.96	0.13	27,27,27,27	0
53	MG	BB	3076	1/1	0.96	0.05	24,24,24,24	0
53	MG	BB	3077	1/1	0.96	0.08	44,44,44,44	0
53	MG	DB	3022	1/1	0.96	0.08	15,15,15,15	0
53	MG	AA	1626	1/1	0.96	0.06	35,35,35,35	0
53	MG	AA	1610	1/1	0.96	0.09	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
53	MG	AA	1621	1/1	0.96	0.09	23,23,23,23	0
53	MG	BB	3047	1/1	0.96	0.06	114,114,114,114	0
53	MG	BB	3063	1/1	0.96	0.14	27,27,27,27	0
53	MG	DB	3070	1/1	0.96	0.07	46,46,46,46	0
53	MG	CA	1659	1/1	0.96	0.17	48,48,48,48	0
53	MG	BB	3048	1/1	0.96	0.06	20,20,20,20	0
53	MG	DB	3073	1/1	0.96	0.11	16,16,16,16	0
53	MG	CA	1615	1/1	0.96	0.09	101,101,101,101	0
53	MG	BB	3037	1/1	0.96	0.08	24,24,24,24	0
53	MG	DB	3033	1/1	0.96	0.09	11,11,11,11	0
53	MG	CA	1618	1/1	0.96	0.10	5,5,5,5	0
53	MG	DB	3036	1/1	0.96	0.09	16,16,16,16	0
53	MG	DB	3039	1/1	0.96	0.07	19,19,19,19	0
53	MG	DB	3090	1/1	0.96	0.15	28,28,28,28	0
53	MG	DB	3091	1/1	0.96	0.08	96,96,96,96	0
53	MG	BB	3038	1/1	0.96	0.04	58,58,58,58	0
53	MG	DB	3042	1/1	0.96	0.10	27,27,27,27	0
53	MG	DB	3005	1/1	0.96	0.07	9,9,9,9	0
53	MG	CA	1621	1/1	0.96	0.24	113,113,113,113	0
53	MG	DB	3046	1/1	0.96	0.08	33,33,33,33	0
53	MG	DB	3103	1/1	0.96	0.12	50,50,50,50	0
53	MG	DB	3008	1/1	0.96	0.13	24,24,24,24	0
53	MG	DB	3051	1/1	0.96	0.13	53,53,53,53	0
53	MG	BB	3108	1/1	0.96	0.08	19,19,19,19	0
53	MG	BB	3004	1/1	0.96	0.04	21,21,21,21	0
53	MG	CA	1644	1/1	0.96	0.06	29,29,29,29	0
53	MG	BB	3032	1/1	0.96	0.12	9,9,9,9	0
53	MG	BB	3013	1/1	0.96	0.09	31,31,31,31	0
53	MG	BB	3026	1/1	0.97	0.10	5,5,5,5	0
53	MG	BB	3056	1/1	0.97	0.10	19,19,19,19	0
53	MG	BB	3102	1/1	0.97	0.13	19,19,19,19	0
53	MG	AA	1640	1/1	0.97	0.08	44,44,44,44	0
53	MG	BB	3014	1/1	0.97	0.04	29,29,29,29	0
53	MG	CA	1651	1/1	0.97	0.09	14,14,14,14	0
53	MG	BB	3107	1/1	0.97	0.07	27,27,27,27	0
53	MG	BB	3029	1/1	0.97	0.08	13,13,13,13	0
53	MG	DB	3028	1/1	0.97	0.12	28,28,28,28	0
53	MG	BB	3015	1/1	0.97	0.08	24,24,24,24	0
53	MG	CA	1655	1/1	0.97	0.14	48,48,48,48	0
53	MG	BB	3061	1/1	0.97	0.06	42,42,42,42	0
53	MG	BB	3045	1/1	0.97	0.05	31,31,31,31	0
53	MG	CA	1658	1/1	0.97	0.07	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
53	MG	BB	3085	1/1	0.97	0.07	22,22,22,22	0
53	MG	DB	3035	1/1	0.97	0.10	30,30,30,30	0
53	MG	DB	3085	1/1	0.97	0.09	17,17,17,17	0
53	MG	DB	3086	1/1	0.97	0.14	69,69,69,69	0
53	MG	DB	3087	1/1	0.97	0.12	6,6,6,6	0
53	MG	BB	3001	1/1	0.97	0.06	10,10,10,10	0
53	MG	BB	3008	1/1	0.97	0.06	58,58,58,58	0
53	MG	CA	1633	1/1	0.97	0.09	47,47,47,47	0
53	MG	DB	3041	1/1	0.97	0.07	18,18,18,18	0
53	MG	BB	3066	1/1	0.97	0.09	59,59,59,59	0
53	MG	DB	3095	1/1	0.97	0.16	55,55,55,55	0
53	MG	BB	3003	1/1	0.97	0.06	13,13,13,13	0
53	MG	DB	3044	1/1	0.97	0.07	7,7,7,7	0
53	MG	BB	3069	1/1	0.97	0.07	9,9,9,9	0
53	MG	DB	3100	1/1	0.97	0.09	11,11,11,11	0
53	MG	AA	1651	1/1	0.97	0.07	84,84,84,84	0
53	MG	BB	3020	1/1	0.97	0.06	23,23,23,23	0
53	MG	DB	3010	1/1	0.97	0.09	12,12,12,12	0
53	MG	BB	3073	1/1	0.97	0.09	28,28,28,28	0
53	MG	BB	3011	1/1	0.97	0.13	7,7,7,7	0
53	MG	CA	1641	1/1	0.97	0.11	92,92,92,92	0
53	MG	BB	3022	1/1	0.97	0.08	38,38,38,38	0
53	MG	DB	3109	1/1	0.97	0.07	24,24,24,24	0
53	MG	BB	3025	1/1	0.97	0.16	53,53,53,53	0
53	MG	CA	1619	1/1	0.97	0.09	26,26,26,26	0
53	MG	DB	3038	1/1	0.98	0.09	16,16,16,16	0
53	MG	CA	1601	1/1	0.98	0.06	5,5,5,5	0
53	MG	CA	1602	1/1	0.98	0.15	32,32,32,32	0
53	MG	BB	3050	1/1	0.98	0.10	35,35,35,35	0
53	MG	DB	3074	1/1	0.98	0.09	25,25,25,25	0
53	MG	DB	3075	1/1	0.98	0.04	5,5,5,5	0
53	MG	CA	1604	1/1	0.98	0.09	18,18,18,18	0
53	MG	BB	3024	1/1	0.98	0.09	22,22,22,22	0
53	MG	DB	3078	1/1	0.98	0.08	18,18,18,18	0
53	MG	DB	3079	1/1	0.98	0.10	5,5,5,5	0
53	MG	DB	3080	1/1	0.98	0.09	12,12,12,12	0
53	MG	DB	3019	1/1	0.98	0.04	5,5,5,5	0
53	MG	BB	3002	1/1	0.98	0.10	10,10,10,10	0
53	MG	DB	3084	1/1	0.98	0.07	8,8,8,8	0
53	MG	BB	3092	1/1	0.98	0.07	11,11,11,11	0
53	MG	DB	3047	1/1	0.98	0.13	17,17,17,17	0
53	MG	DB	3049	1/1	0.98	0.06	5,5,5,5	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
53	MG	BB	3103	1/1	0.98	0.07	7,7,7,7	0
53	MG	CA	1661	1/1	0.98	0.04	62,62,62,62	0
53	MG	AA	1609	1/1	0.98	0.14	8,8,8,8	0
53	MG	CA	1610	1/1	0.98	0.03	34,34,34,34	0
53	MG	DB	3092	1/1	0.98	0.08	23,23,23,23	0
53	MG	DB	3093	1/1	0.98	0.06	10,10,10,10	0
53	MG	BB	3006	1/1	0.98	0.07	10,10,10,10	0
53	MG	DB	3003	1/1	0.98	0.07	14,14,14,14	0
53	MG	DB	3056	1/1	0.98	0.09	11,11,11,11	0
53	MG	BB	3106	1/1	0.98	0.11	46,46,46,46	0
53	MG	BB	3095	1/1	0.98	0.09	34,34,34,34	0
53	MG	DB	3006	1/1	0.98	0.07	5,5,5,5	0
53	MG	DB	3101	1/1	0.98	0.11	27,27,27,27	0
53	MG	BB	3068	1/1	0.98	0.09	24,24,24,24	0
53	MG	BB	3023	1/1	0.98	0.07	22,22,22,22	0
53	MG	DB	3009	1/1	0.98	0.08	7,7,7,7	0
53	MG	BB	3062	1/1	0.98	0.09	22,22,22,22	0
53	MG	DB	3064	1/1	0.98	0.07	28,28,28,28	0
53	MG	DB	3012	1/1	0.98	0.12	6,6,6,6	0
53	MG	CA	1617	1/1	0.98	0.10	9,9,9,9	0
53	MG	DB	3037	1/1	0.98	0.09	13,13,13,13	0
53	MG	DB	3068	1/1	0.98	0.12	14,14,14,14	0
53	MG	DB	3069	1/1	0.98	0.09	44,44,44,44	0
53	MG	BB	3086	1/1	0.99	0.15	37,37,37,37	0
53	MG	BB	3044	1/1	0.99	0.07	32,32,32,32	0
53	MG	BB	3012	1/1	0.99	0.08	41,41,41,41	0
53	MG	DB	3097	1/1	0.99	0.11	15,15,15,15	0
53	MG	DB	3081	1/1	0.99	0.06	25,25,25,25	0
53	MG	CA	1647	1/1	0.99	0.06	32,32,32,32	0
53	MG	DB	3011	1/1	0.99	0.09	8,8,8,8	0
53	MG	DB	3048	1/1	0.99	0.05	20,20,20,20	0
53	MG	BB	3070	1/1	0.99	0.09	32,32,32,32	0

## 6.5 Other polymers i

There are no such residues in this entry.