Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 08:49 AM UTC

PDB ID	:	4V6T / pdb_00004v6t
EMDB ID	:	EMD-5386
Title	:	Structure of the bacterial ribosome complexed by tmRNA-SmpB and EF-G during translocation and MLD-loading
Authors	:	Ramrath, D.J.F.; Yamamoto, H.; Rother, K.; Wittek, D.; Pech, M.; Mielke, T.; Loerke, J.; Scheerer, P.; Ivanov, P.; Teraoka, Y.; Shpanchenko, O.; Nierhaus, K.H.; Spahn, C.M.T.
Deposited on	:	2012-01-27
Resolution	:	8.30 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

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

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

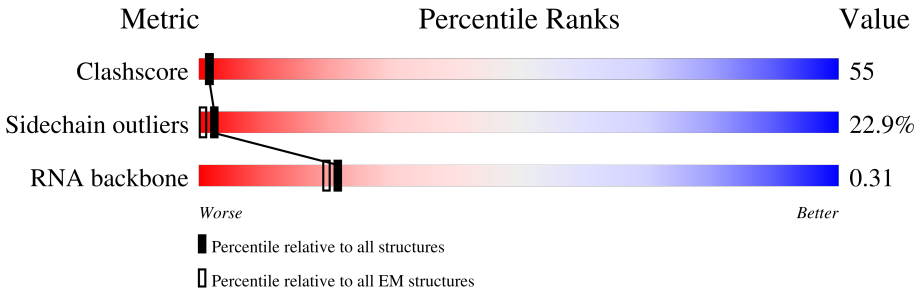
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

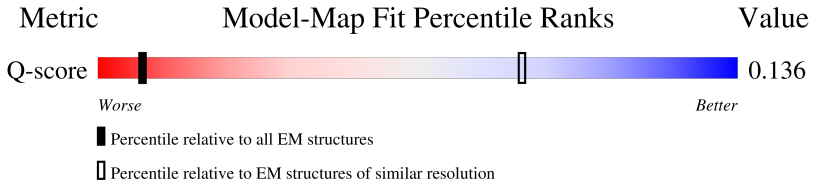
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 8.30 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	280 (7.82 - 8.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1539	16% 58% 26%
2	AB	218	19% 9% 60% 30%
3	AC	206	21% 20% 59% 19%
4	AD	205	16% 18% 61% 20%

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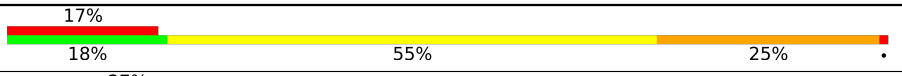
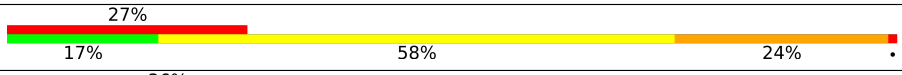
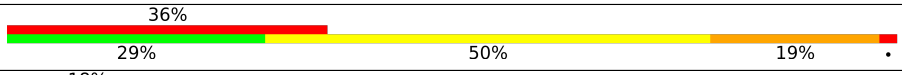
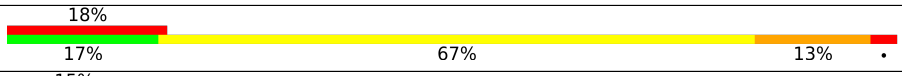
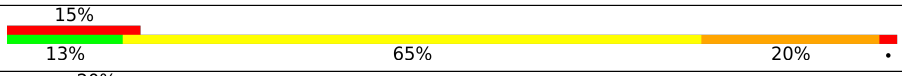
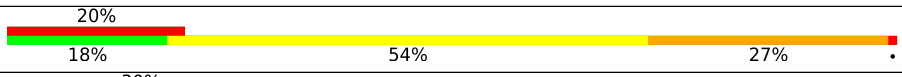
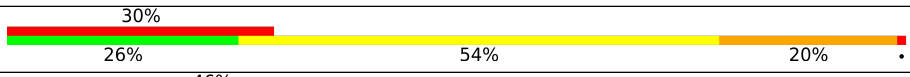
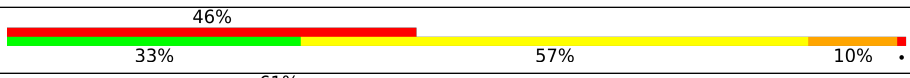
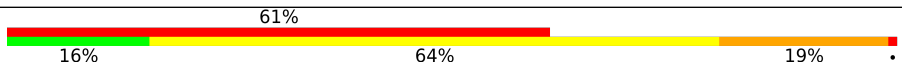
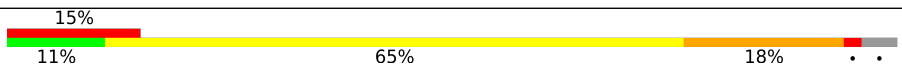
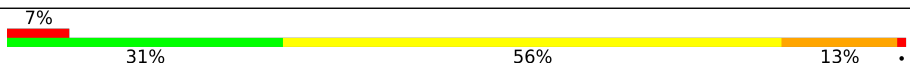
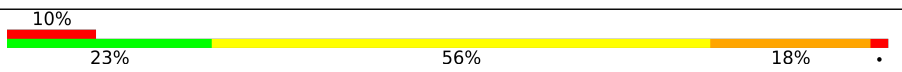
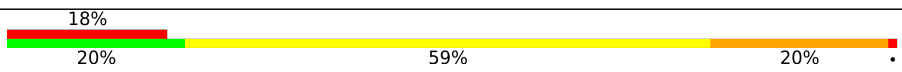
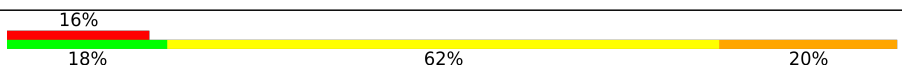
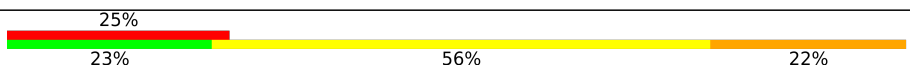
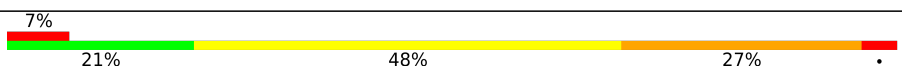
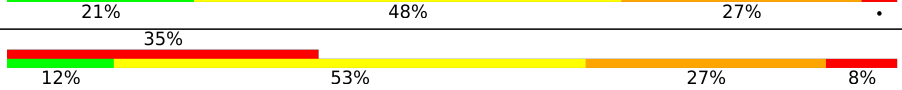
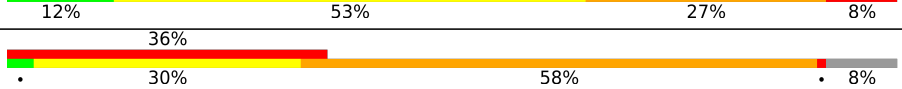
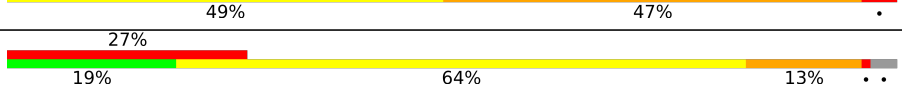
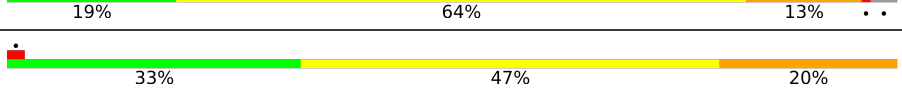
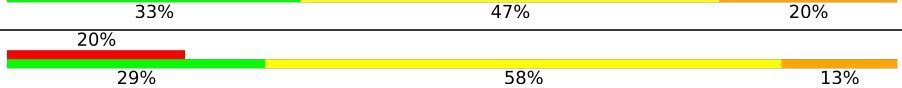
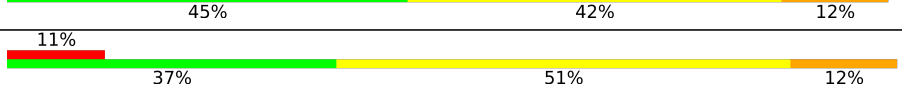
Mol	Chain	Length	Quality of chain
5	AE	150	
6	AF	100	
7	AG	151	
8	AH	129	
9	AI	127	
10	AJ	98	
11	AK	117	
12	AL	123	
13	AM	114	
14	AN	100	
15	AO	88	
16	AP	82	
17	AQ	80	
18	AR	55	
19	AS	79	
20	AT	85	
21	AU	51	
22	AV	363	
23	AW	123	
24	AX	77	
25	AY	691	
26	BA	2903	
27	BC	271	
28	BD	209	
29	BE	201	

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Mol	Chain	Length	Quality of chain
30	BF	177	28% 19% 60% 20%
31	BG	176	11% 28% 57% 14%
32	BH	149	74% 24% 59% 16%
33	BI	141	57% 17% 58% 23%
34	BJ	142	11% 49% 40% 10%
35	BK	122	48% 39% 50% 10%
36	BL	143	16% 33% 48% 17%
37	BM	136	21% 35% 46% 19%
38	BN	120	13% 33% 52% 13%
39	BO	116	12% 28% 57% 13%
40	BP	114	25% 28% 59% 12%
41	BQ	117	39% 52% 9%
42	BR	103	14% 40% 46% 13%
43	BS	110	11% 45% 45% 9%
44	BT	93	11% 33% 51% 16%
45	BU	102	16% 33% 51% 15%
46	BV	94	6% 45% 45% 11%
47	BW	76	16% 46% 42% 12%
48	BX	77	10% 38% 51% 10%
49	BY	63	8% 25% 52% 17% 5%
50	BZ	58	7% 34% 50% 16%
51	B0	56	30% 45% 43% 12%
52	B1	50	24% 28% 58% 14%
53	B2	46	15% 35% 54% 11%
54	B3	64	19% 36% 53% 9%

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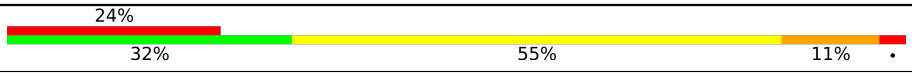
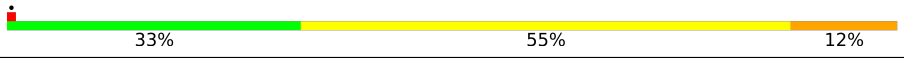
Mol	Chain	Length	Quality of chain
55	B4	38	
56	BB	119	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	PSU	AV	347	-	-	X	-

2 Entry composition

There are 56 unique types of molecules in this entry. The entry contains 157519 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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					AltConf	Trace
			Total	C	N	O	P		
1	AA	1538	32995	14716	6050	10691	1538	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 15 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0
			714	439	144	130	1		

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

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

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

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

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

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

- Molecule 19 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0
			638	408	120	108	2		

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

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

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

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

- Molecule 22 is a RNA chain called full length transfer messenger RNA (tmRNA).

Mol	Chain	Residues	Atoms					AltConf	Trace
22	AV	334	Total	C	N	O	P	0	0
			7135	3185	1286	2330	334		

- Molecule 23 is a protein called SsrA-binding protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
23	AW	122	Total	C	N	O	0	0
			993	637	181	175		

- Molecule 24 is a RNA chain called formyl-methionine specific initiator transfer RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AX	77	Total	C	N	O	P	0	0
			1640	732	297	535	76		

- Molecule 25 is a protein called elongation factor G.

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

- Molecule 26 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	BA	2903	Total	C	N	O	P	0	0
			62319	27801	11467	20149	2902		

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				AltConf	Trace
52	B1	50	Total	C	N	O	0	0
			410	263	75	72		

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

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

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

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

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

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

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

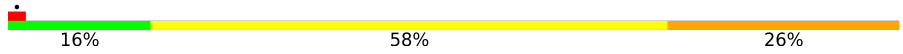
Mol	Chain	Residues	Atoms					AltConf	Trace
56	BB	119	Total 2548	C 1135	N 466	O 829	P 118	0	0

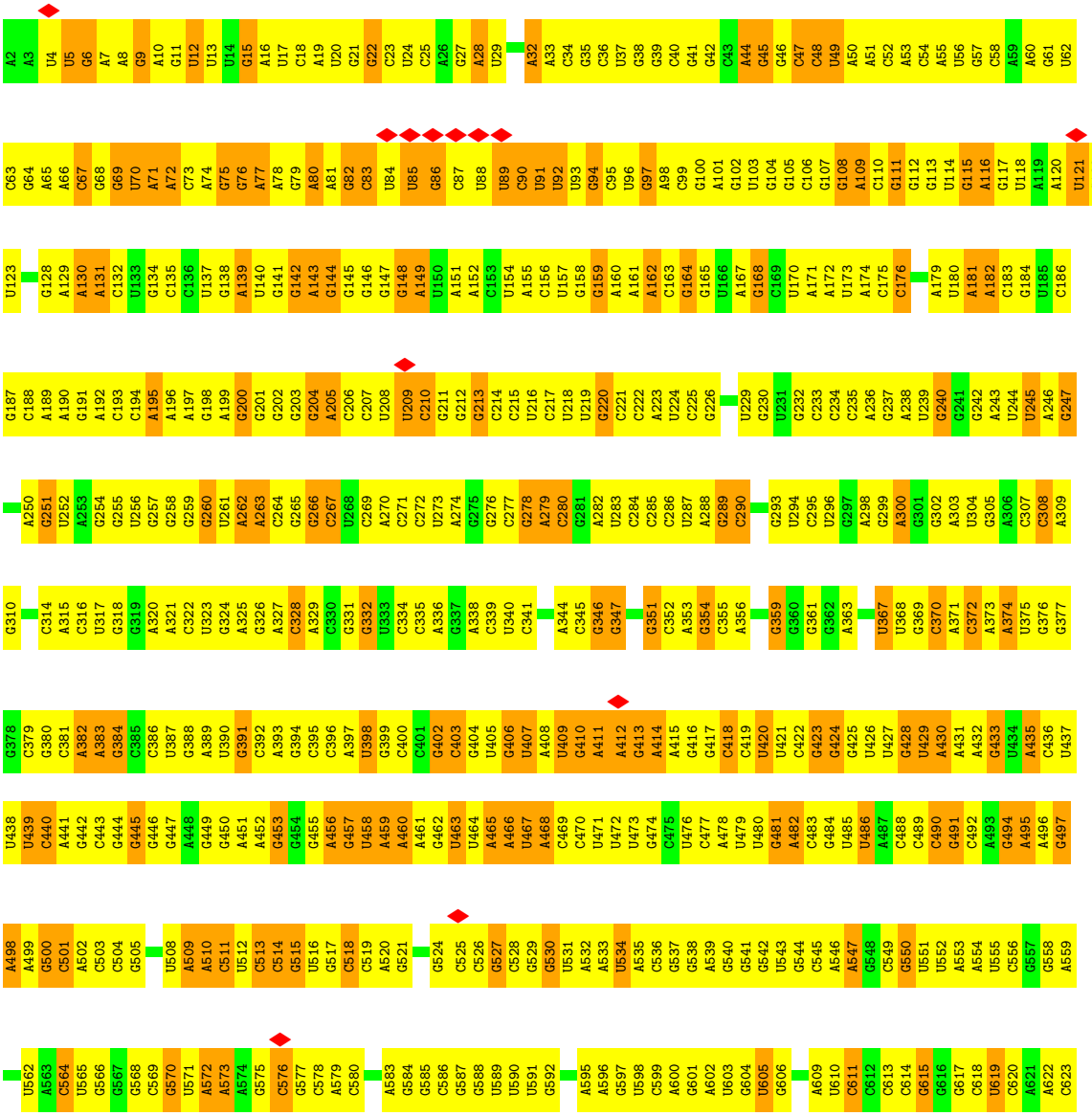
3 Residue-property plots (i)

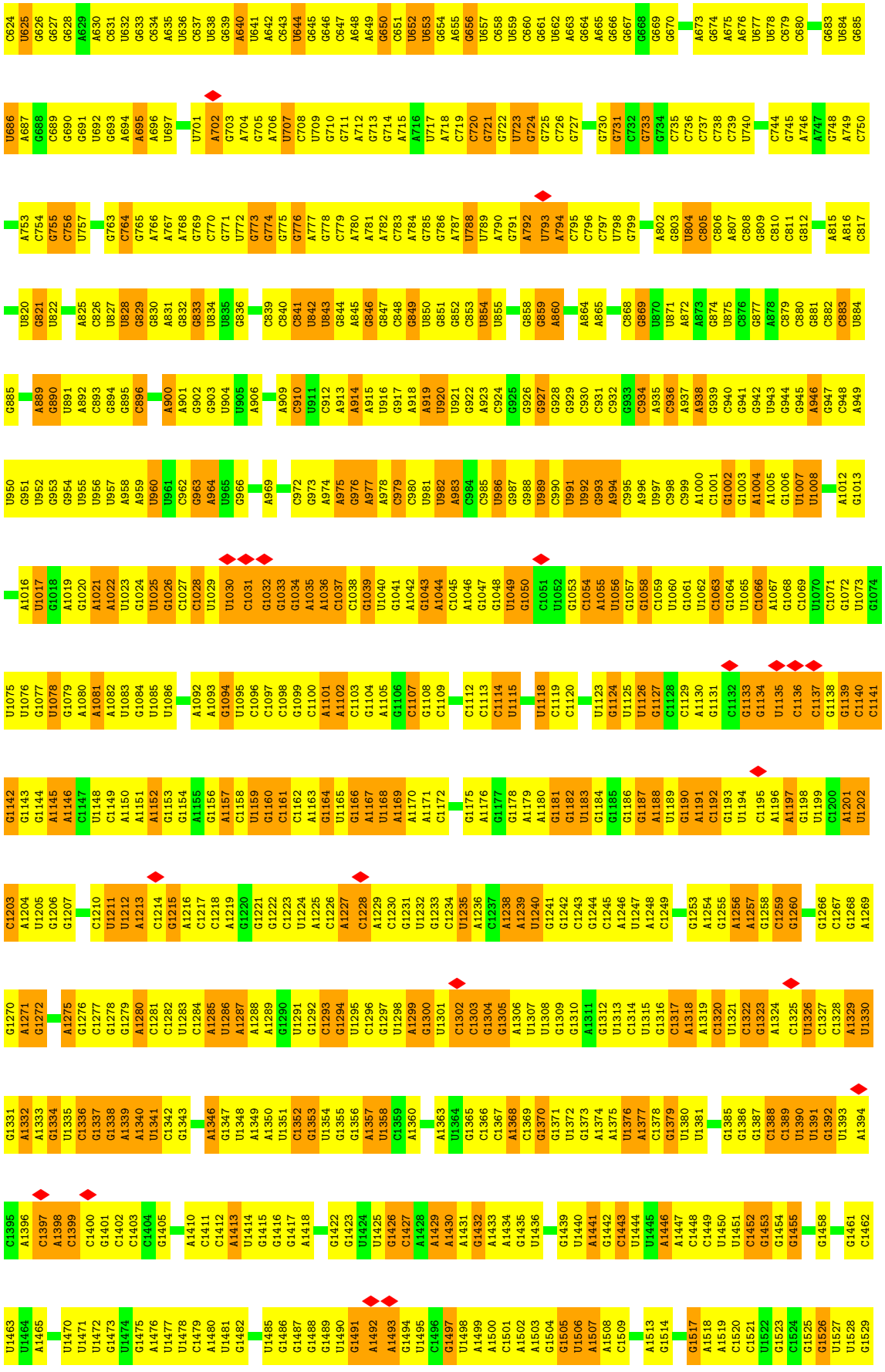
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

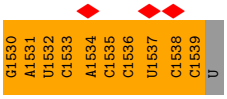
- Molecule 1: 16S ribosomal RNA

Chain AA:



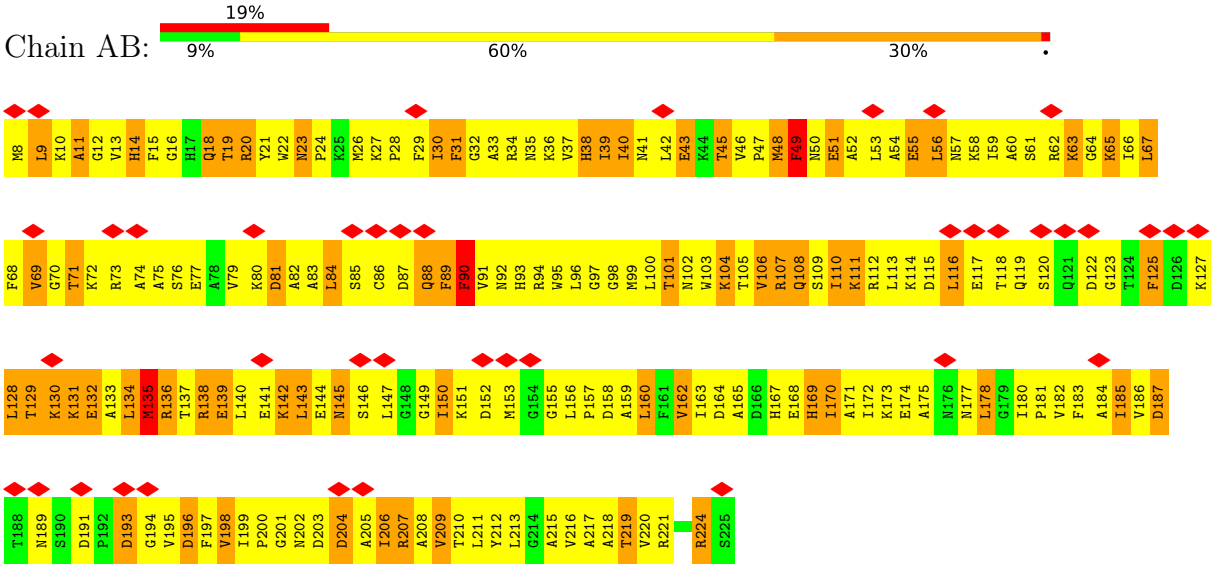






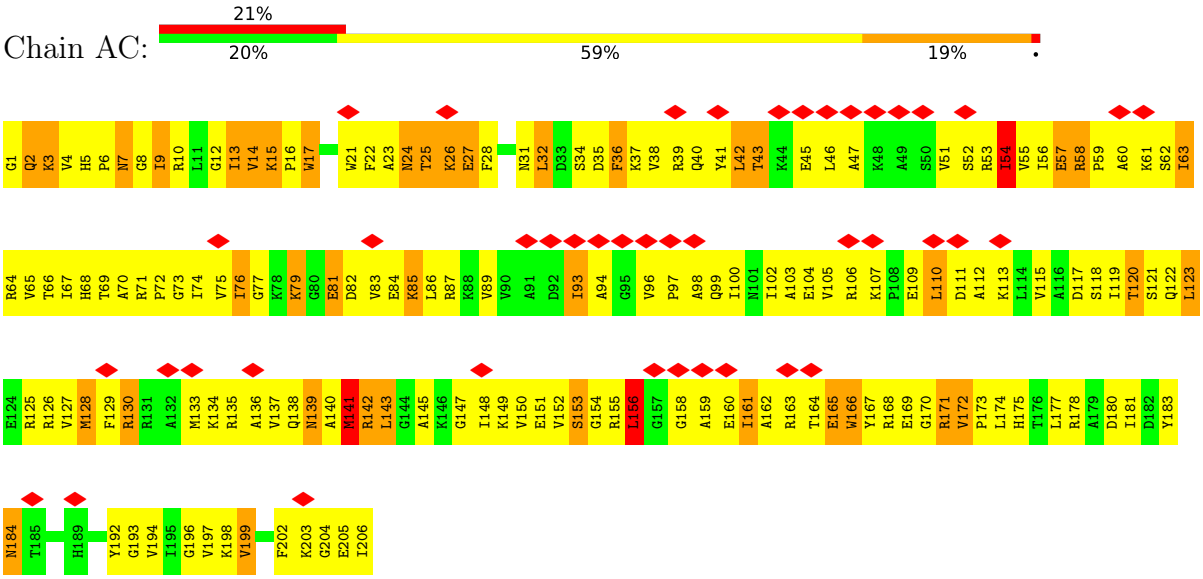
• Molecule 2: 30S ribosomal protein S2

Chain AB:



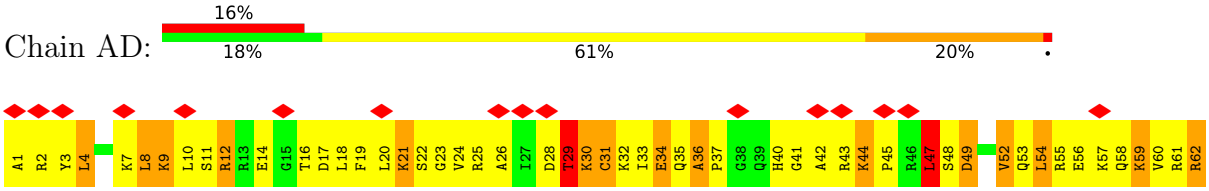
• Molecule 3: 30S ribosomal protein S3

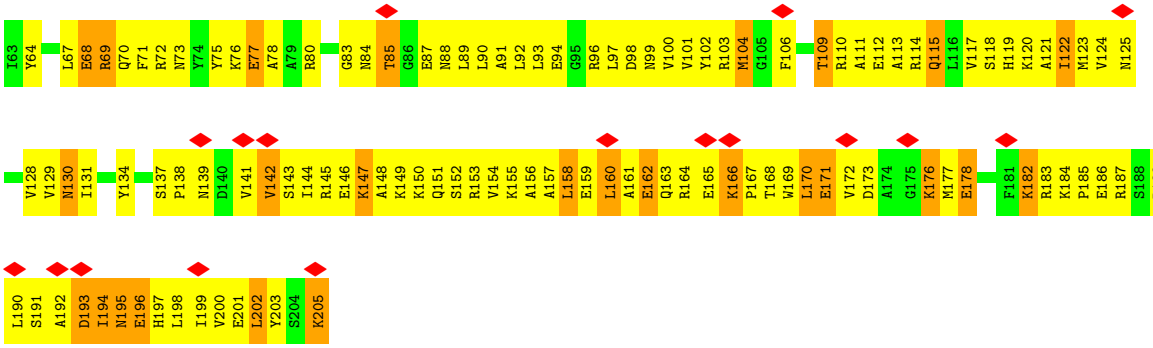
Chain AC:



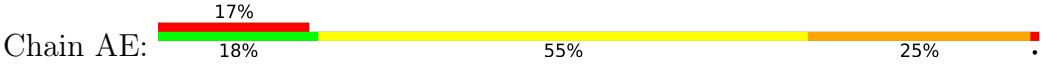
• Molecule 4: 30S ribosomal protein S4

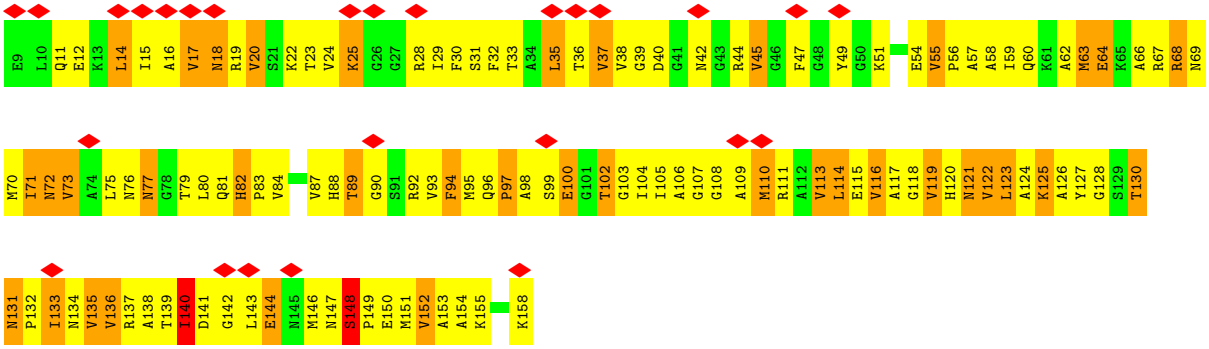
Chain AD:



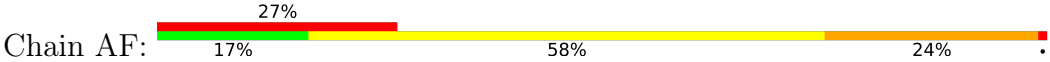


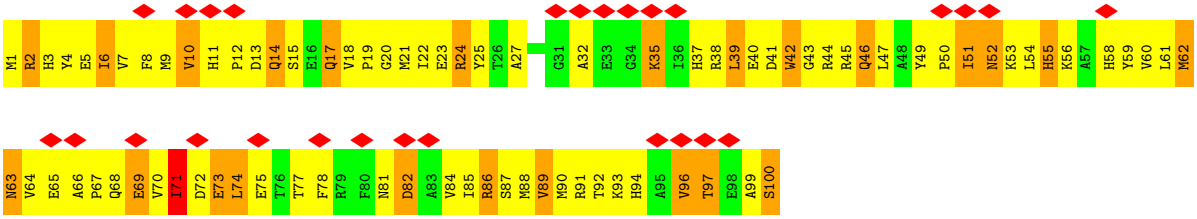
• Molecule 5: 30S ribosomal protein S5



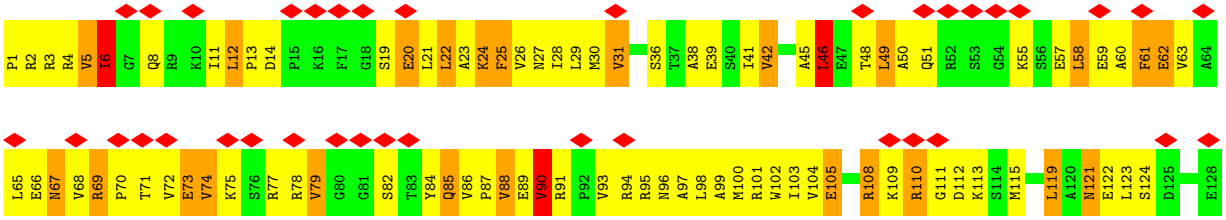


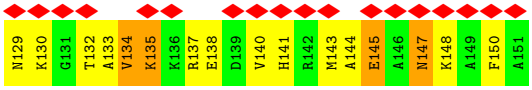
• Molecule 6: 30S ribosomal protein S6



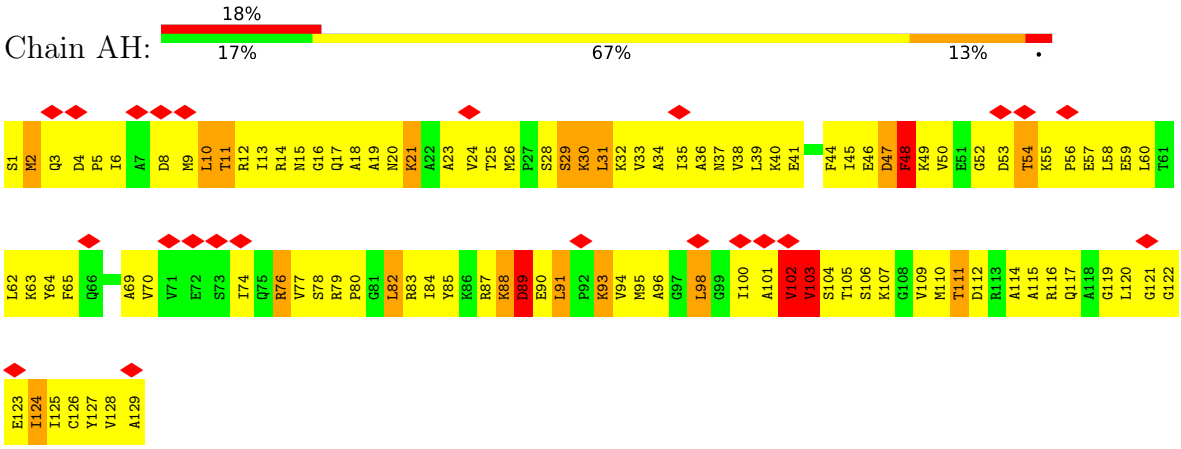


• Molecule 7: 30S ribosomal protein S7

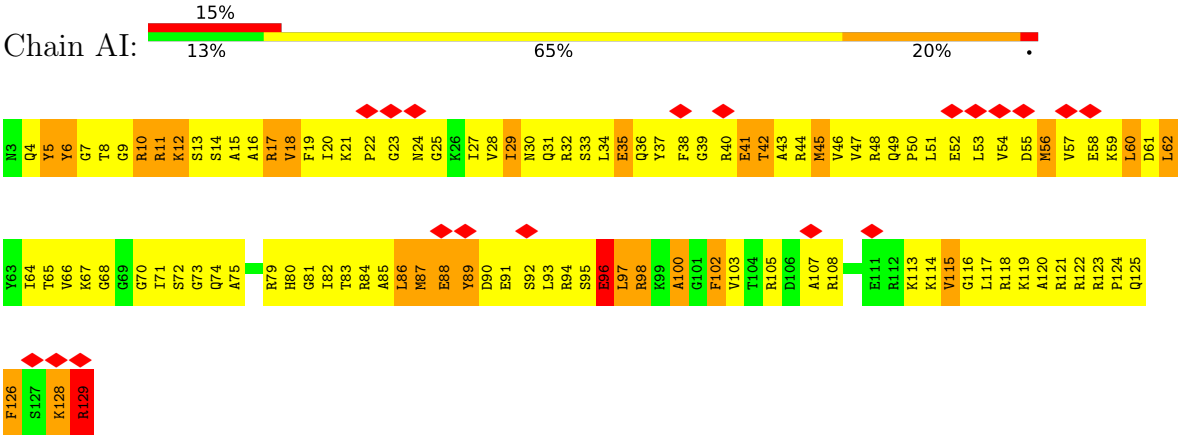




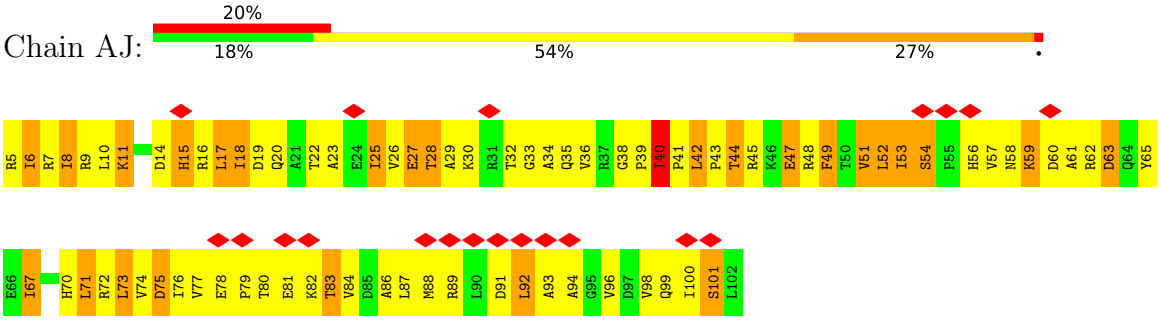
• Molecule 8: 30S ribosomal protein S8



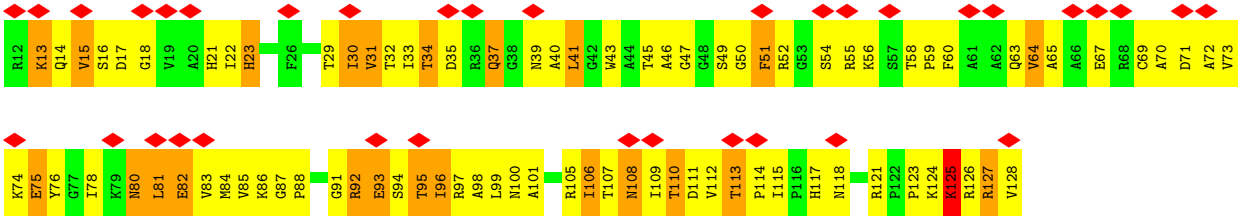
• Molecule 9: 30S ribosomal protein S9



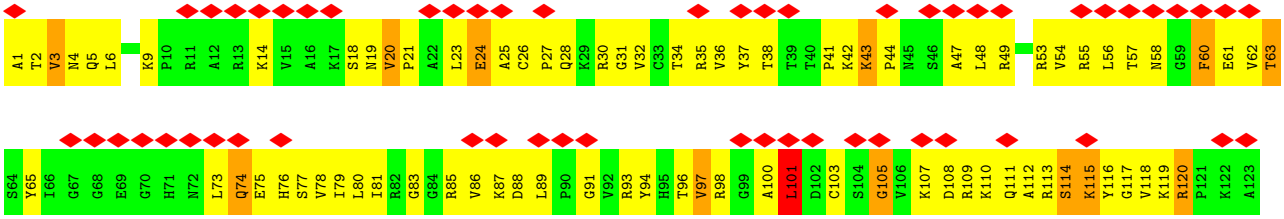
• Molecule 10: 30S ribosomal protein S10



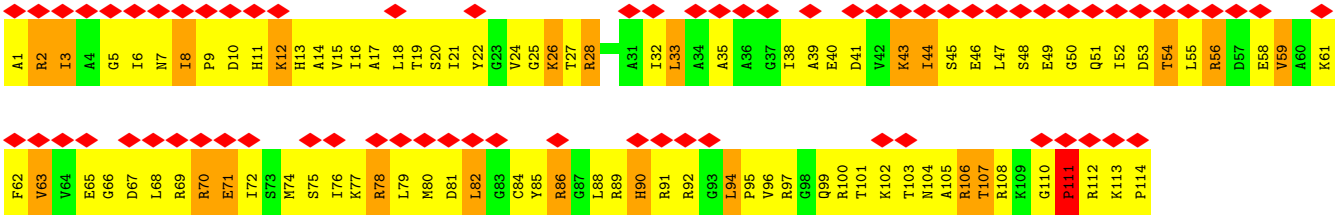
• Molecule 11: 30S ribosomal protein S11



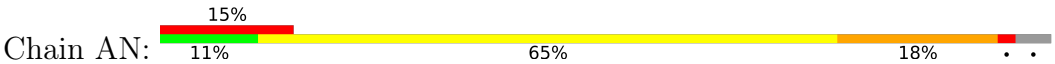
• Molecule 12: 30S ribosomal protein S12

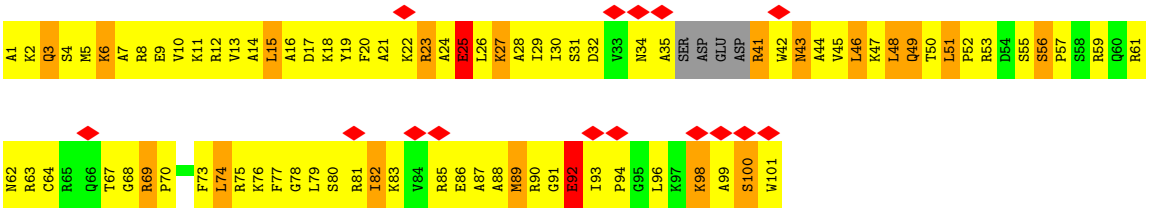


• Molecule 13: 30S ribosomal protein S13

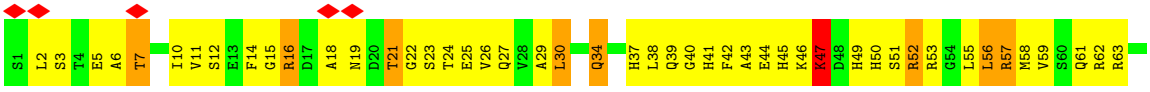


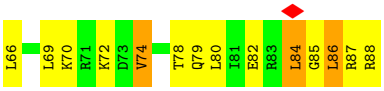
• Molecule 14: 30S ribosomal protein S14



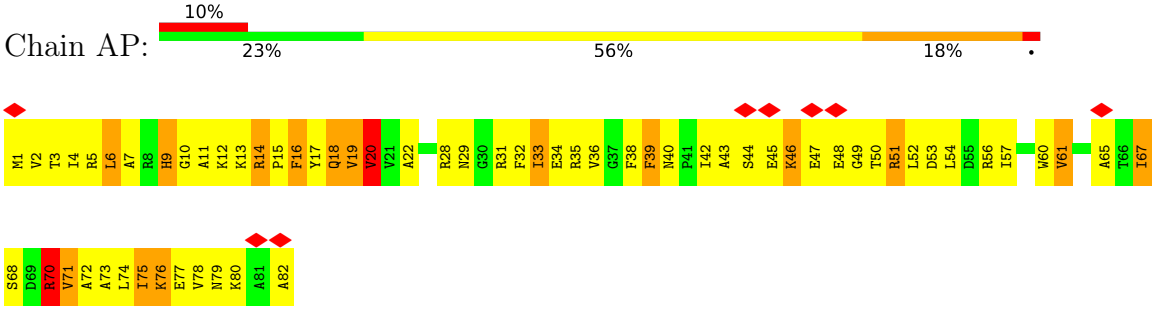


• Molecule 15: 30S ribosomal protein S15

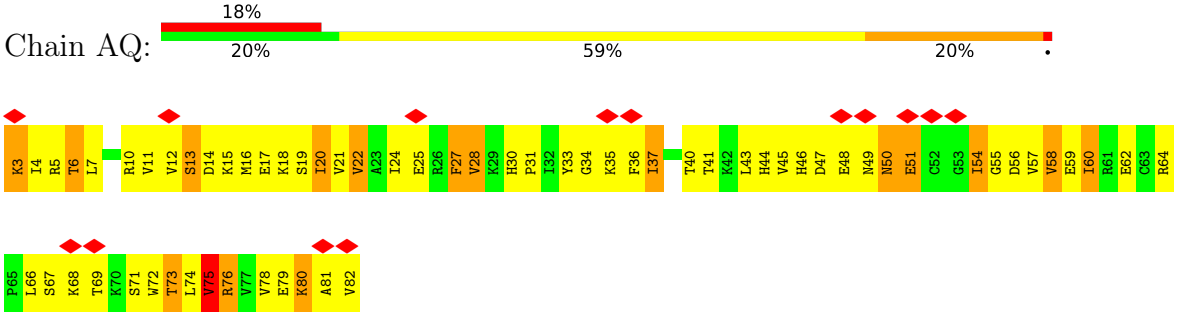




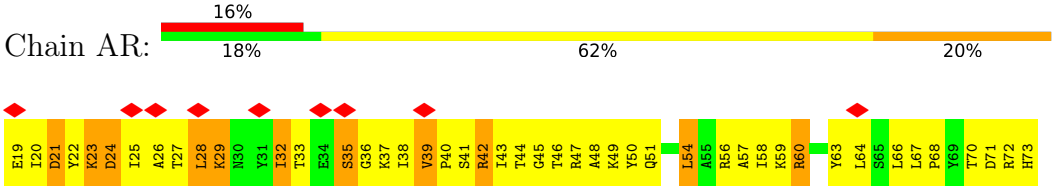
• Molecule 16: 30S ribosomal protein S16



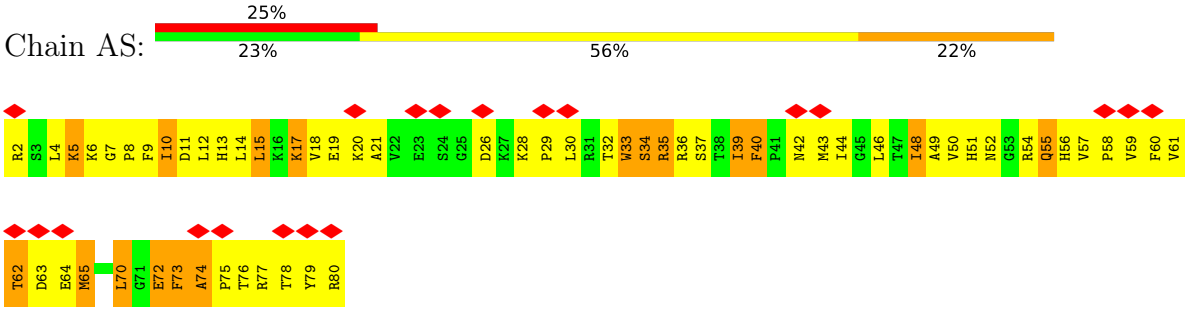
• Molecule 17: 30S ribosomal protein S17



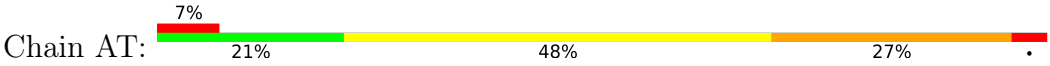
• Molecule 18: 30S ribosomal protein S18

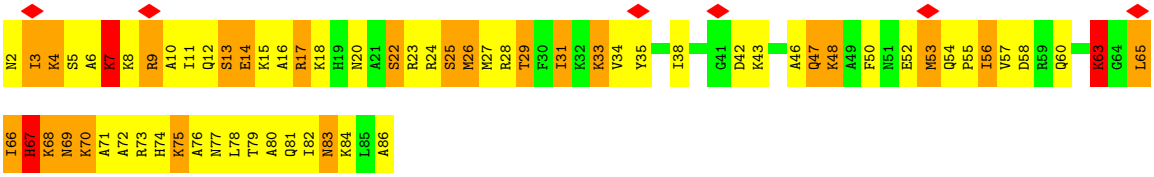


• Molecule 19: 30S ribosomal protein S19

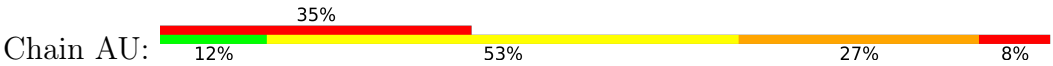


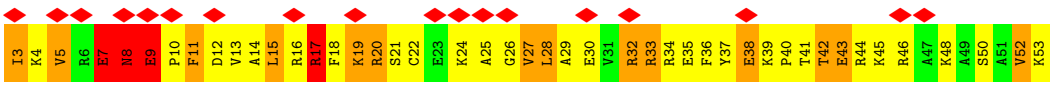
• Molecule 20: 30S ribosomal protein S20



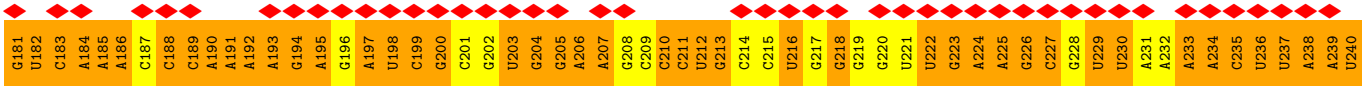


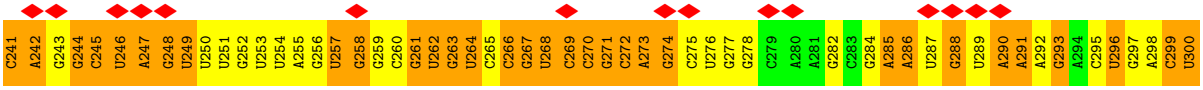
• Molecule 21: 30S ribosomal protein S21



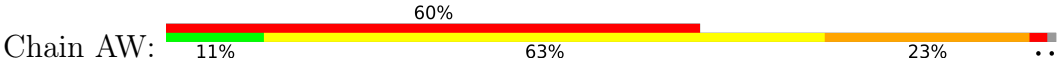


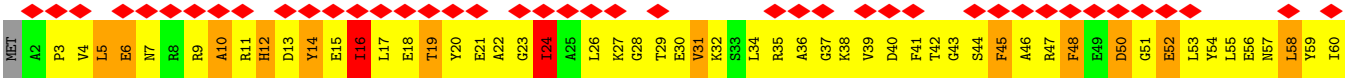
• Molecule 22: full length transfer messenger RNA (tmRNA)

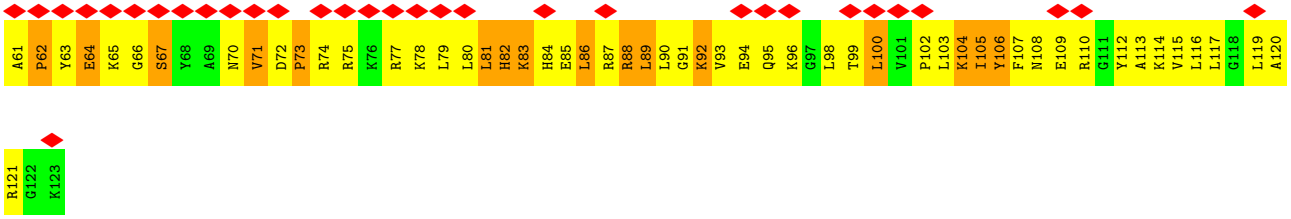




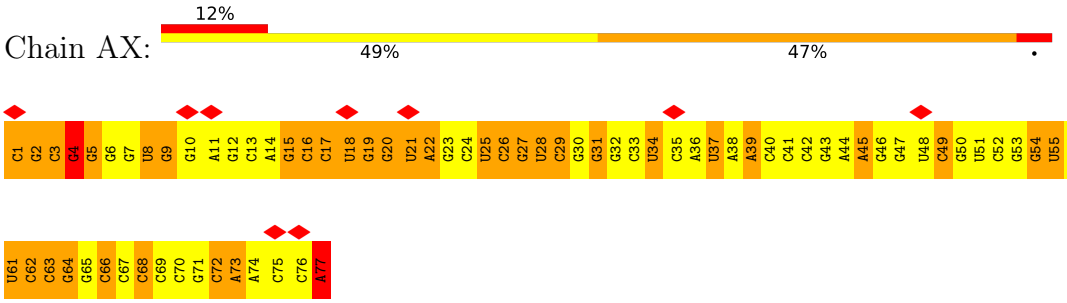
• Molecule 23: SsrA-binding protein



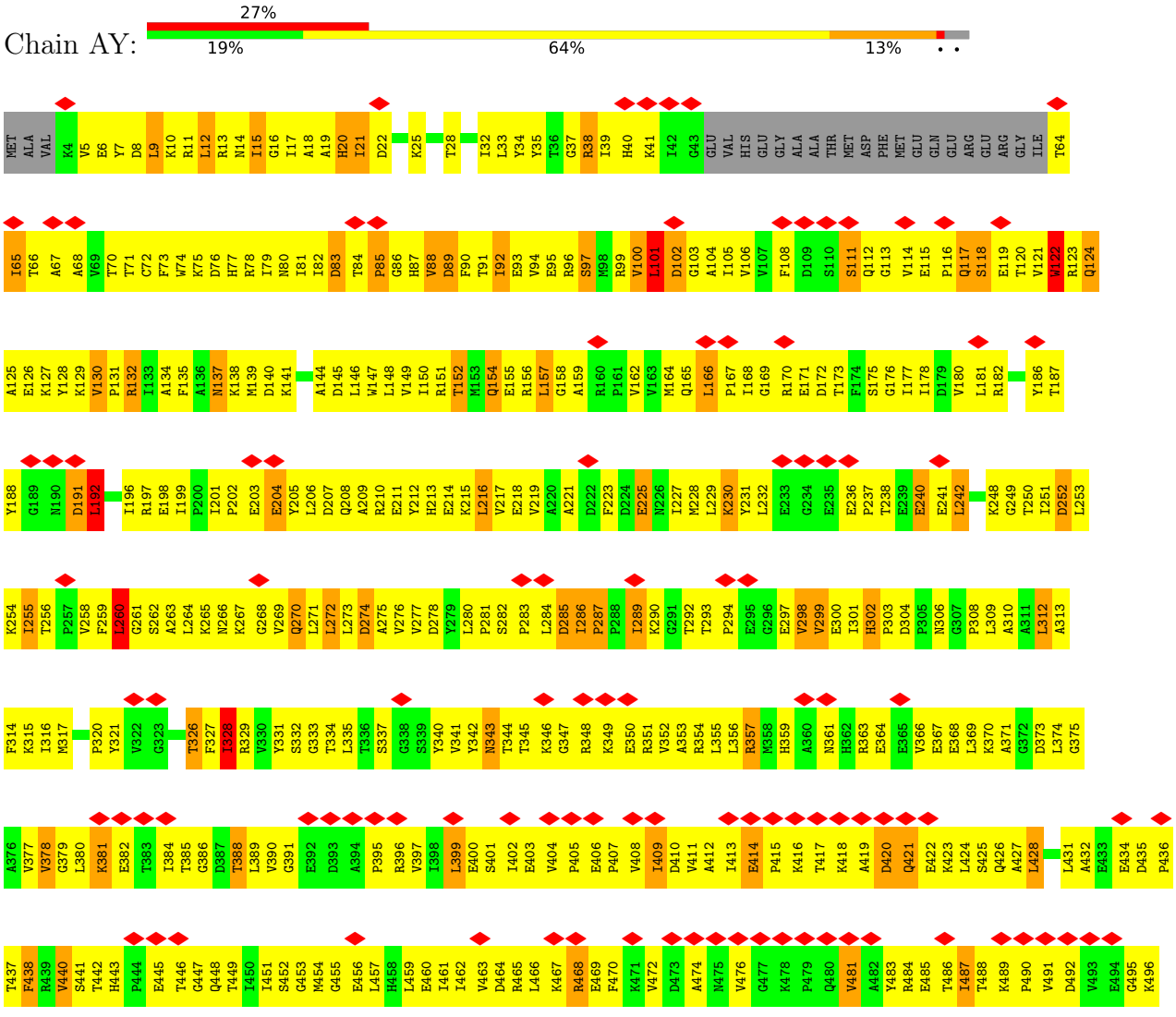


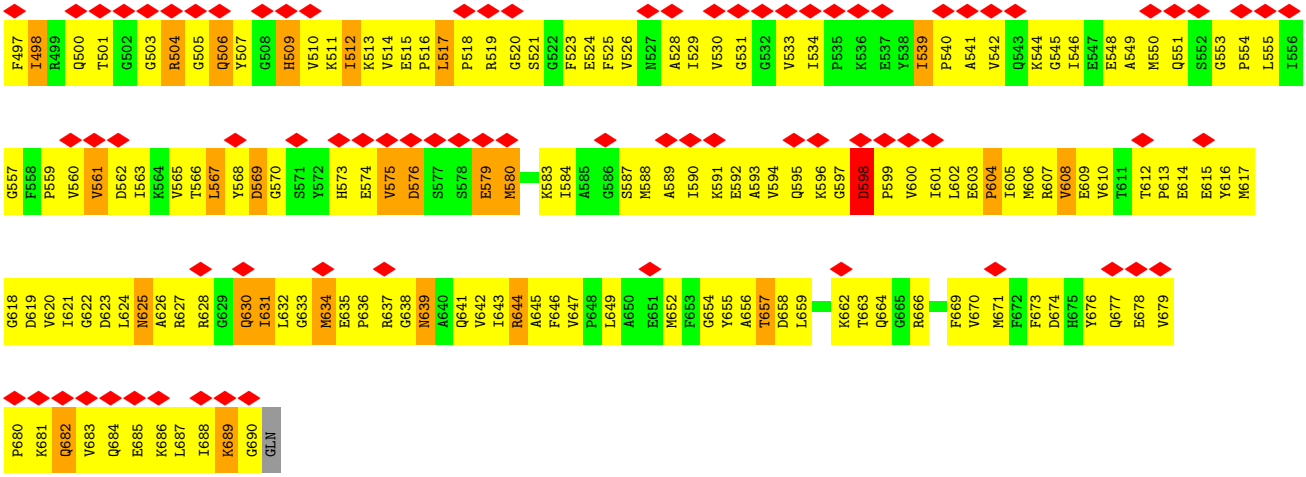


• Molecule 24: formyl-methionine specific initiator transfer RNA



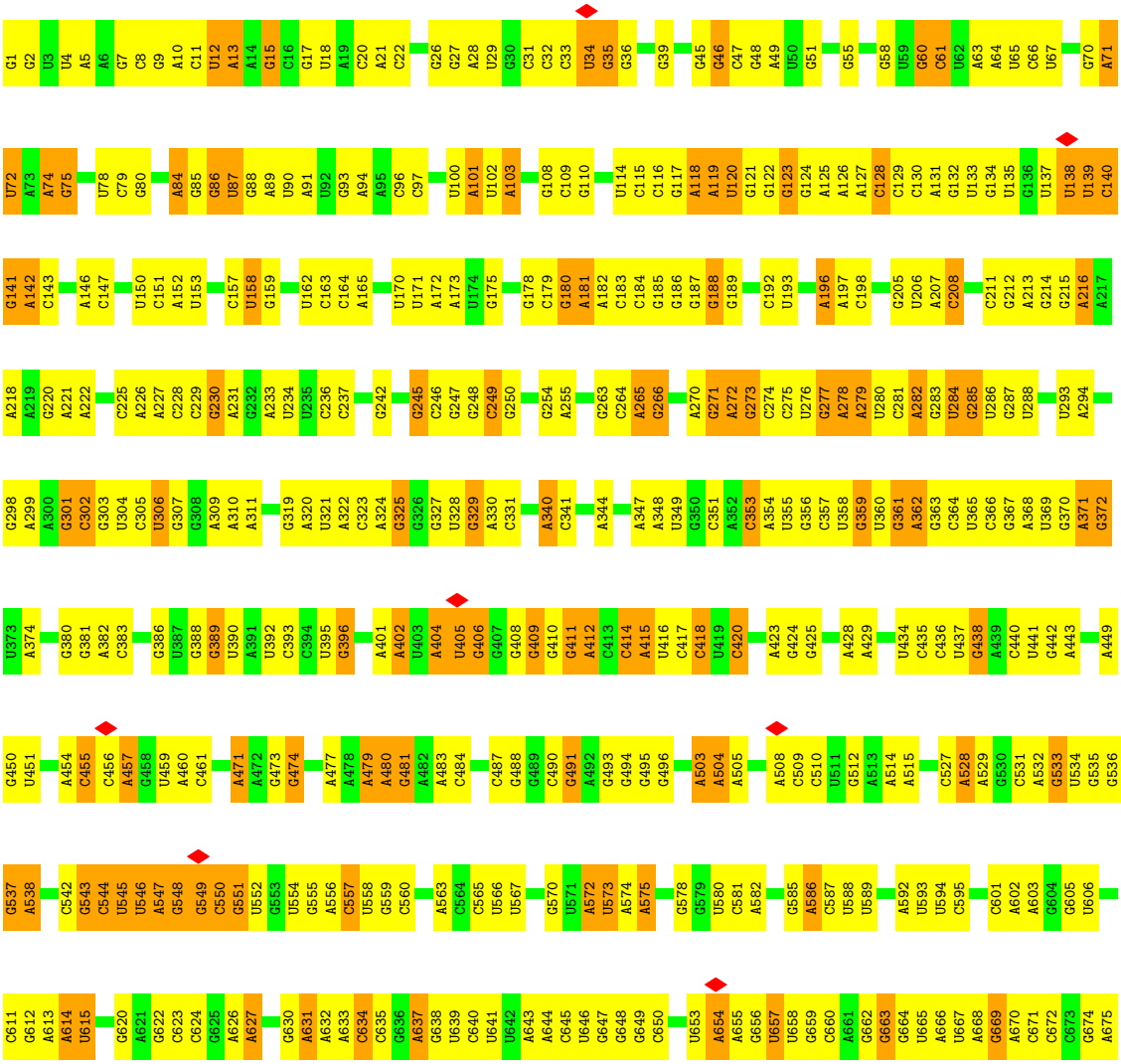
• Molecule 25: elongation factor G

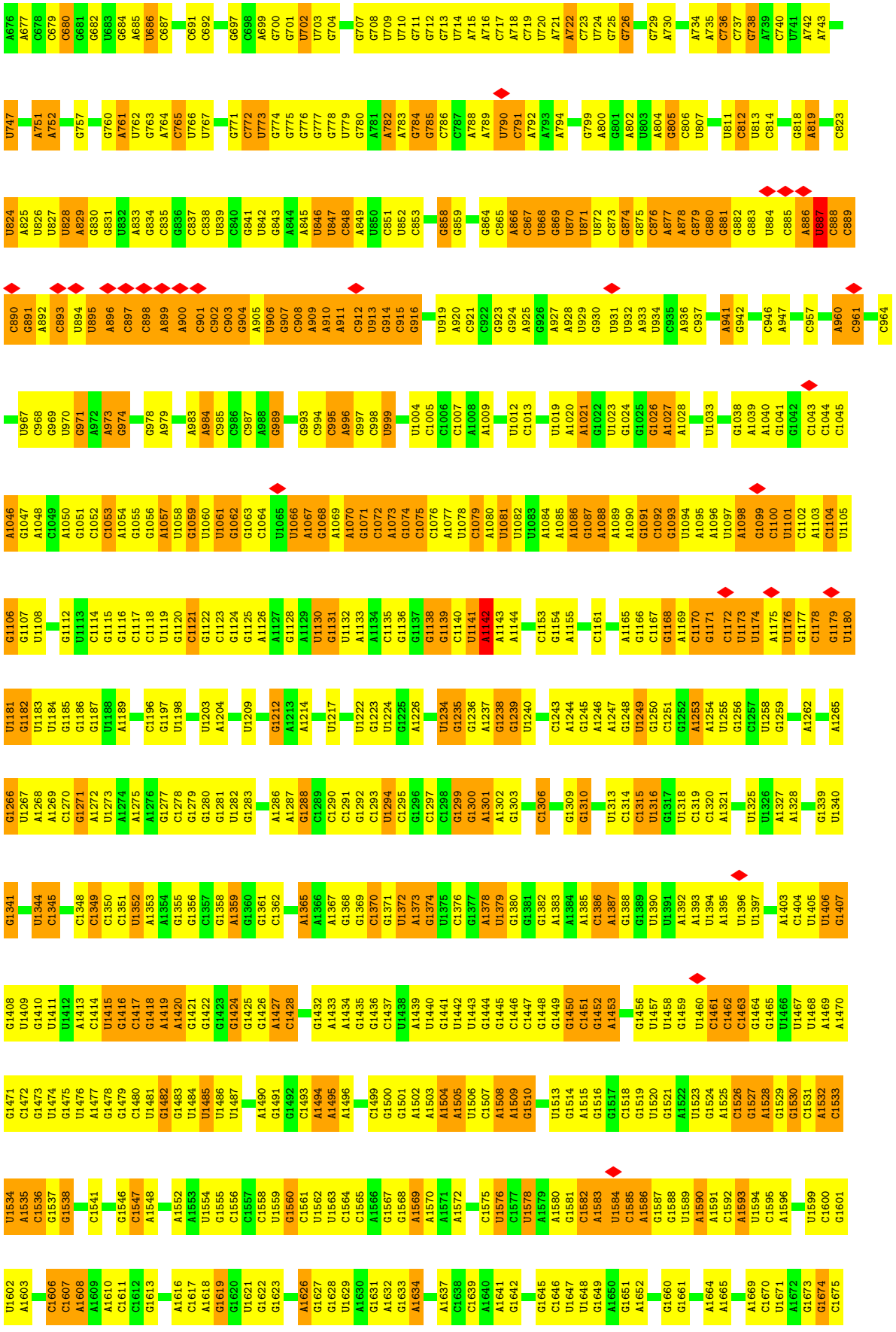


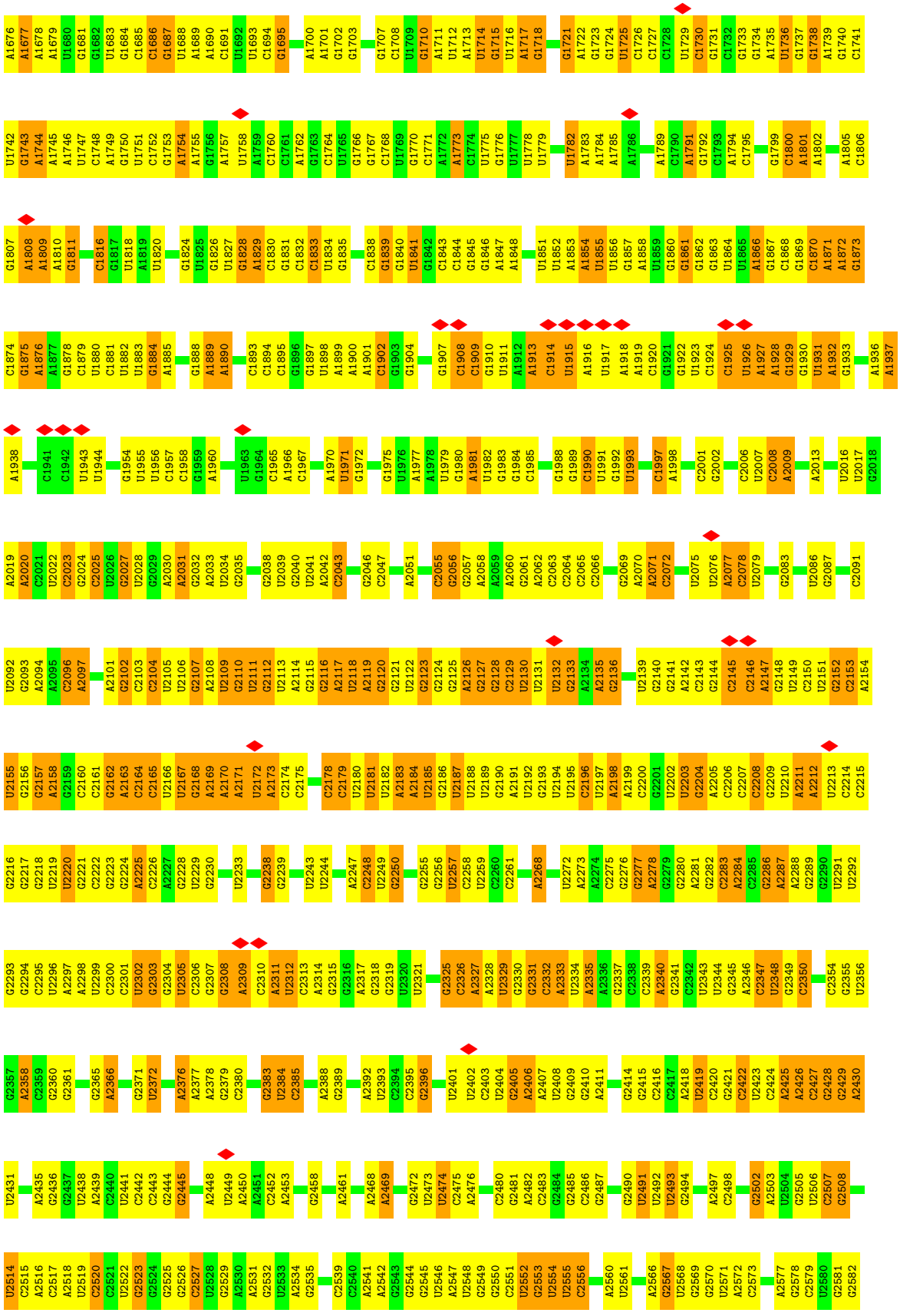


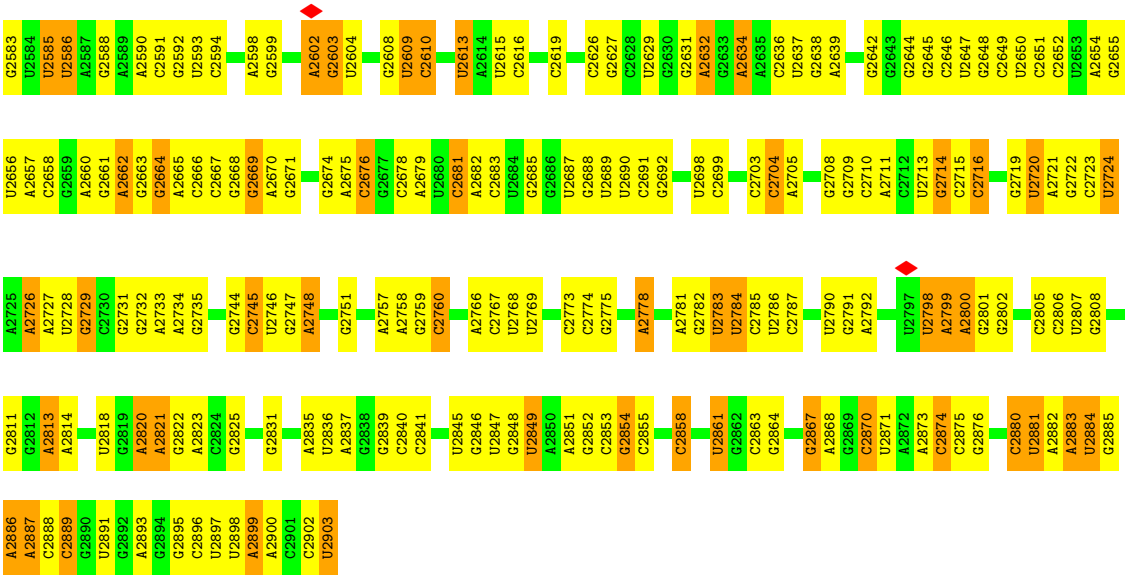
- Molecule 26: 23S ribosomal RNA

Chain BA:



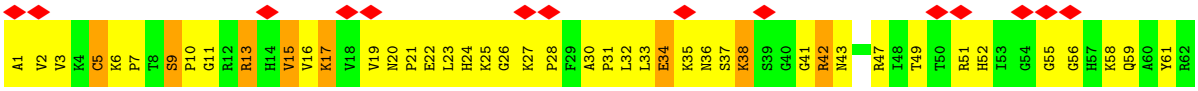


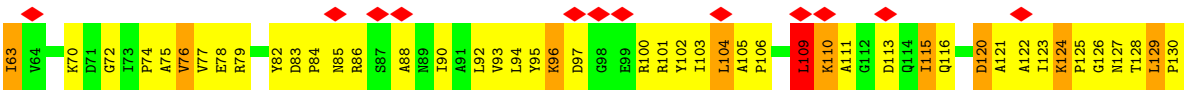


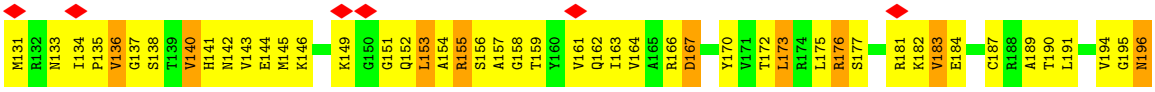


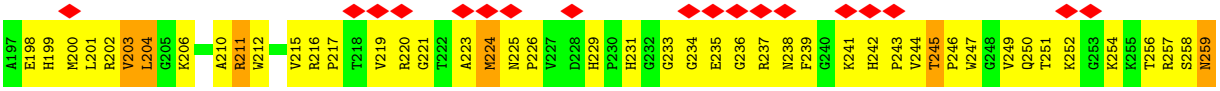
• Molecule 27: 50S ribosomal protein L2

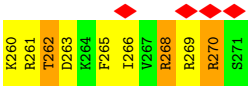
Chain BC:





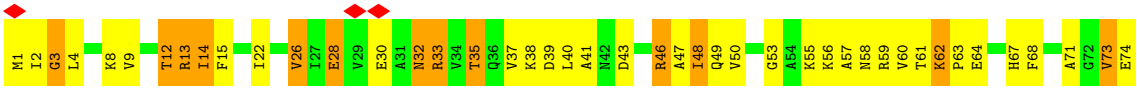


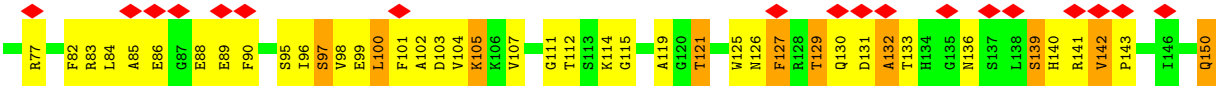


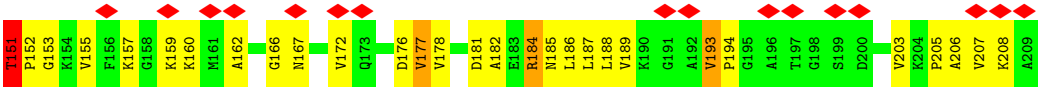


• Molecule 28: 50S ribosomal protein L3

Chain BD:

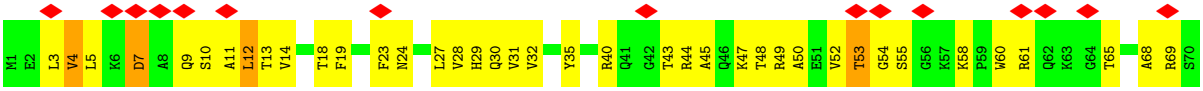


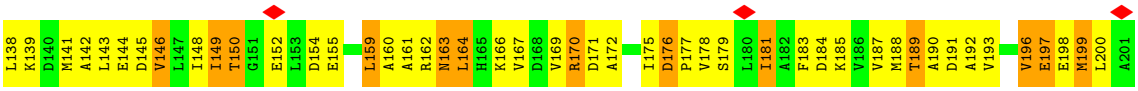




• Molecule 29: 50S ribosomal protein L4

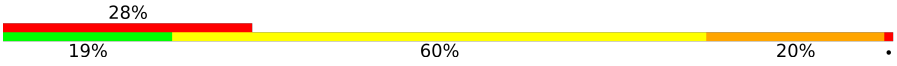
Chain BE:

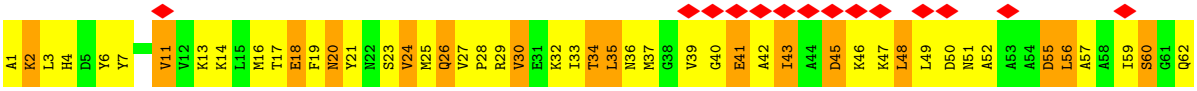


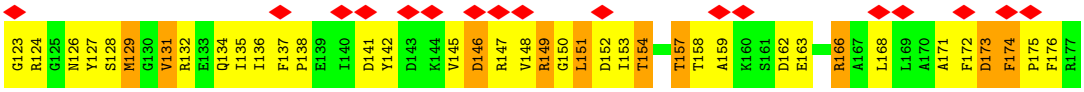


• Molecule 30: 50S ribosomal protein L5

Chain BF:

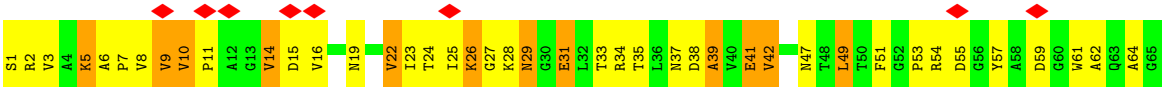


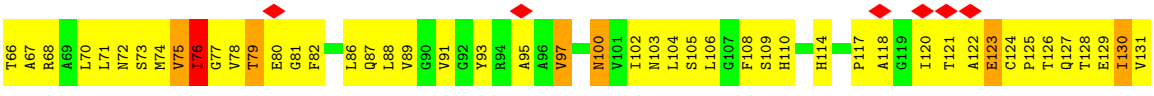


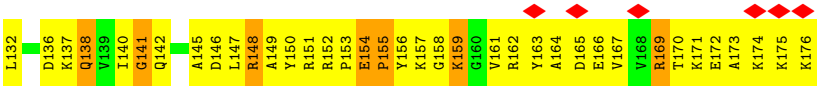


• Molecule 31: 50S ribosomal protein L6

Chain BG:

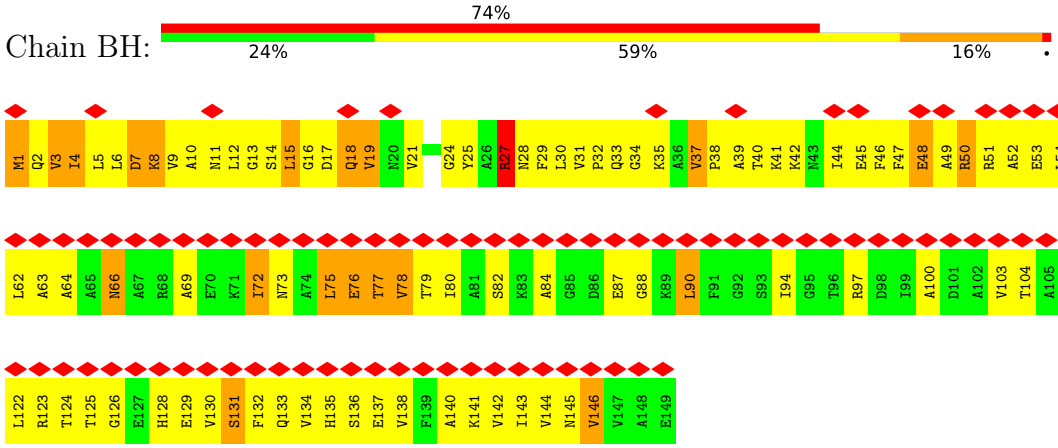






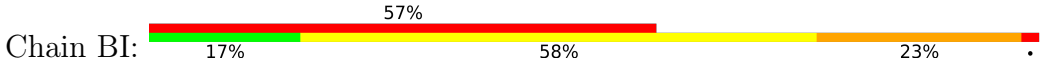
• Molecule 32: 50S ribosomal protein L9

Chain BH:



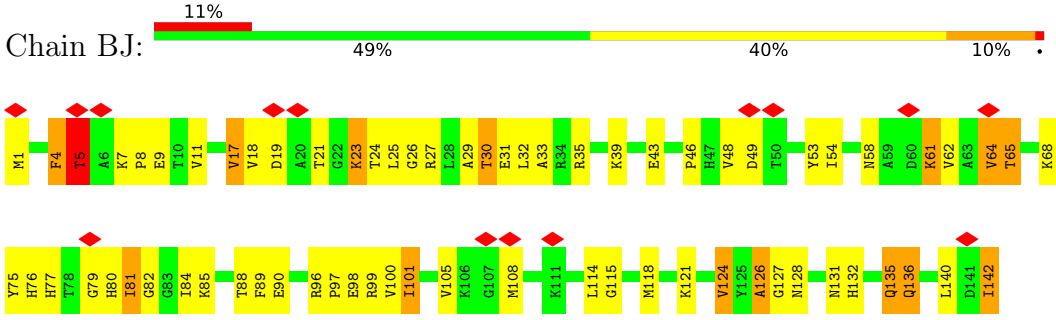
• Molecule 33: 50S ribosomal protein L11

Chain BI:



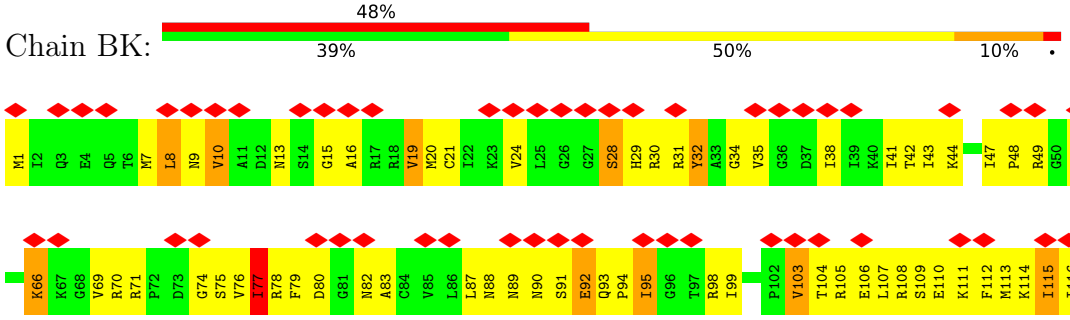
• Molecule 34: 50S ribosomal protein L13

Chain BJ:



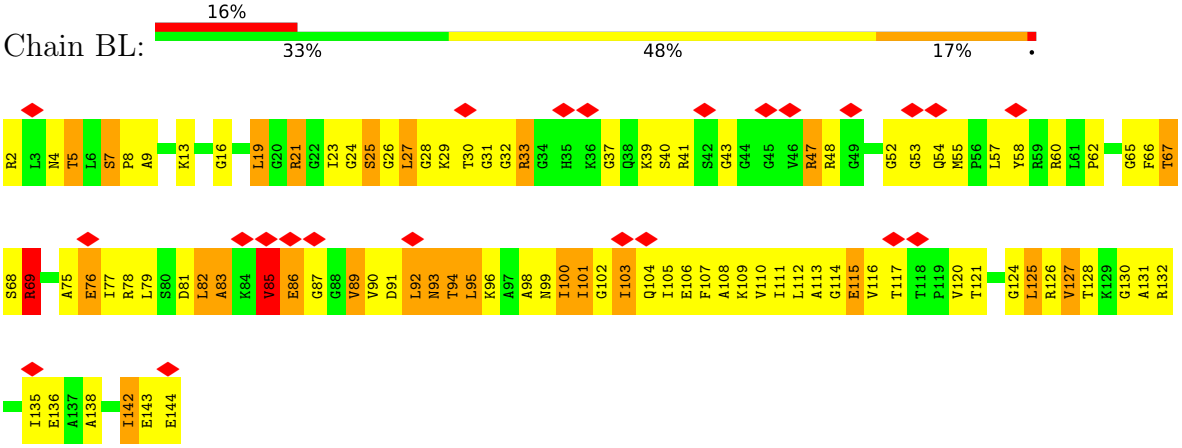
• Molecule 35: 50S ribosomal protein L14

Chain BK:



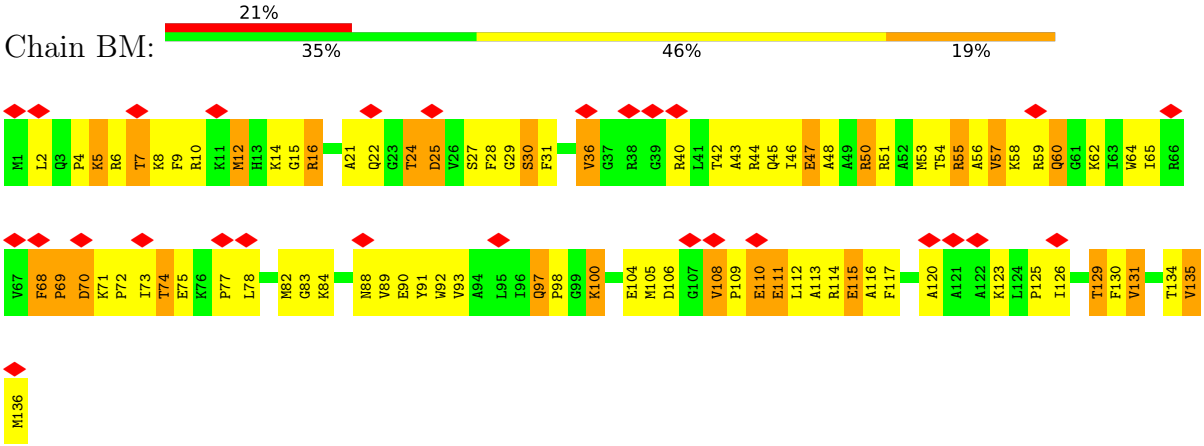
• Molecule 36: 50S ribosomal protein L15

Chain BL:



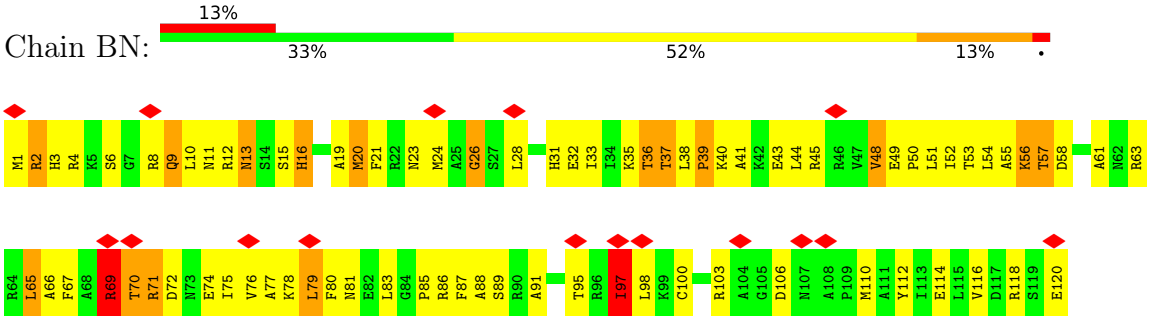
• Molecule 37: 50S ribosomal protein L16

Chain BM:



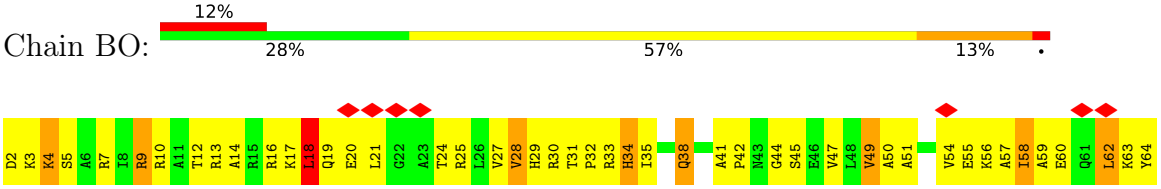
• Molecule 38: 50S ribosomal protein L17

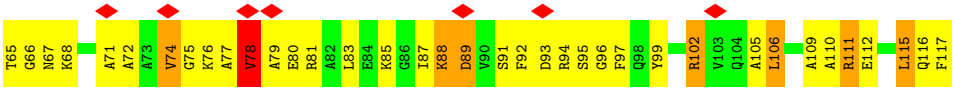
Chain BN:



• Molecule 39: 50S ribosomal protein L18

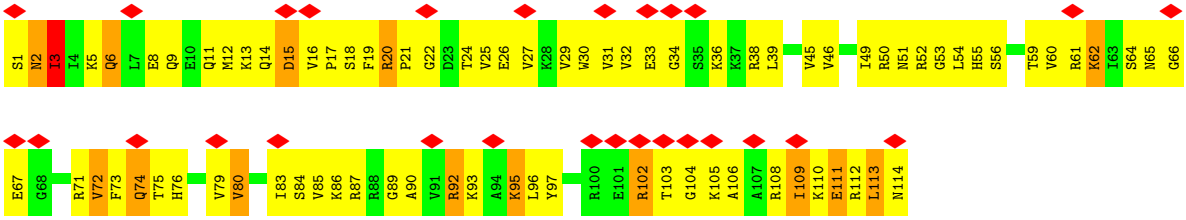
Chain BO:





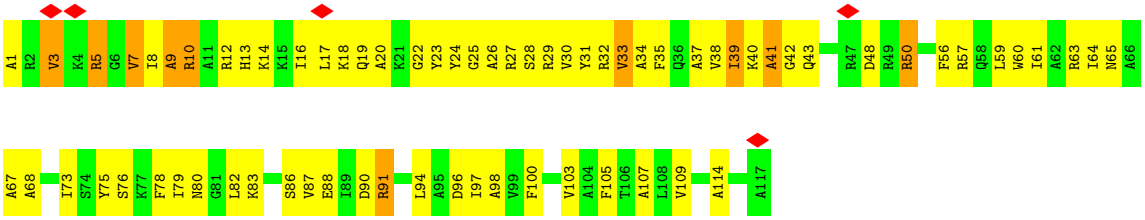
• Molecule 40: 50S ribosomal protein L19

Chain BP:



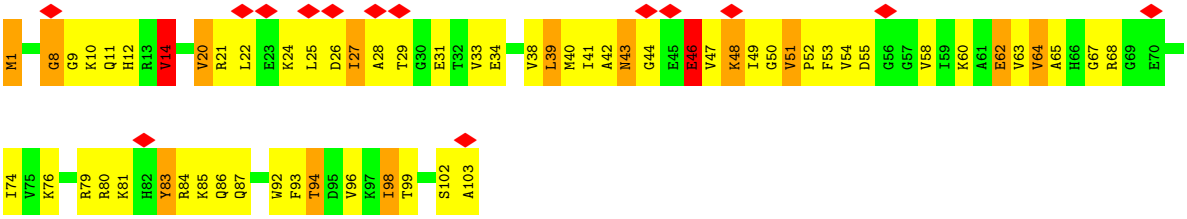
• Molecule 41: 50S ribosomal protein L20

Chain BQ:



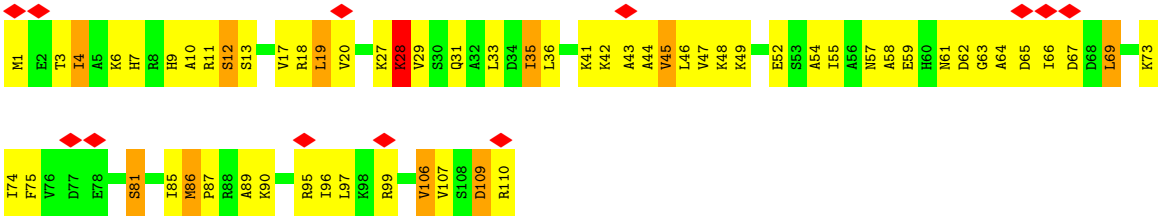
• Molecule 42: 50S ribosomal protein L21

Chain BR:



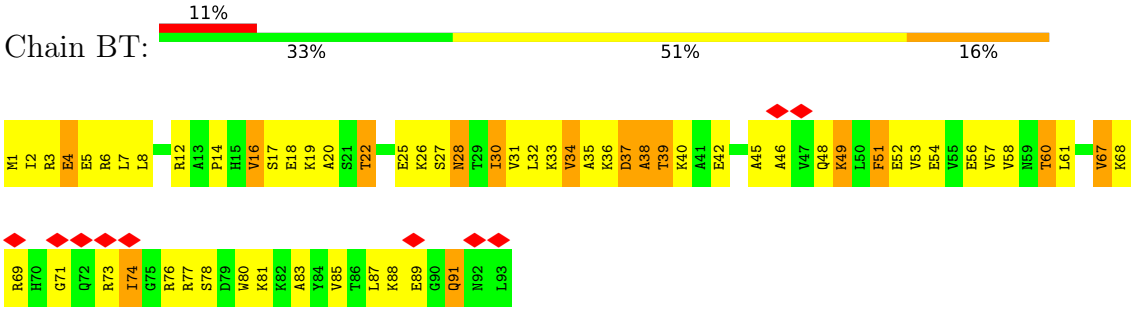
• Molecule 43: 50S ribosomal protein L22

Chain BS:



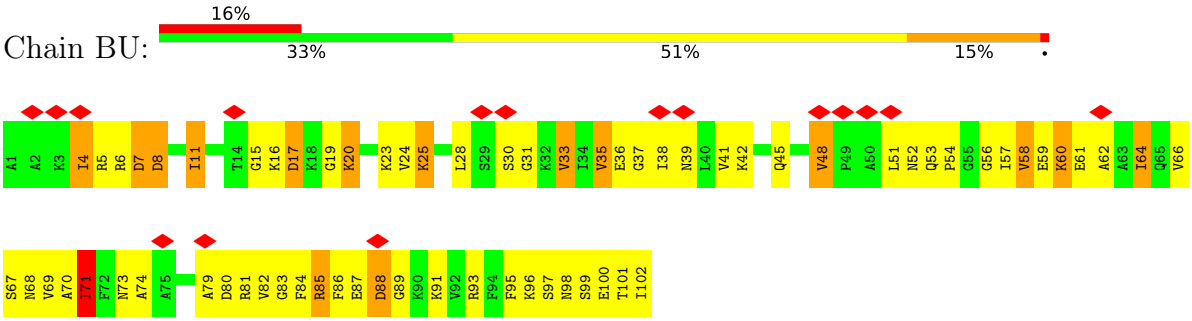
• Molecule 44: 50S ribosomal protein L23

Chain BT:



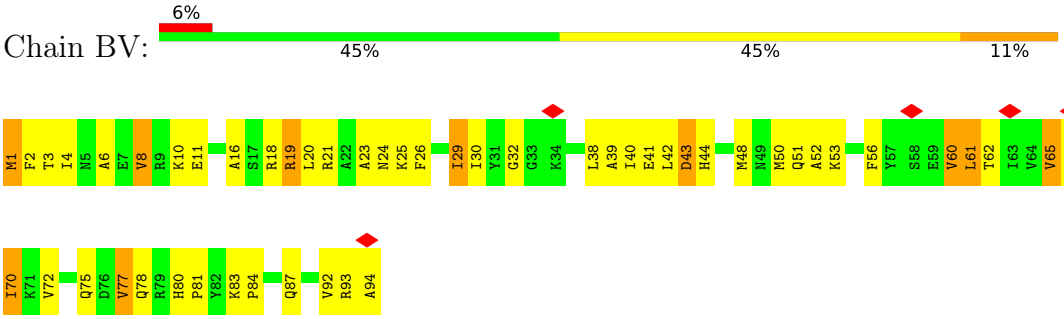
• Molecule 45: 50S ribosomal protein L24

Chain BU:



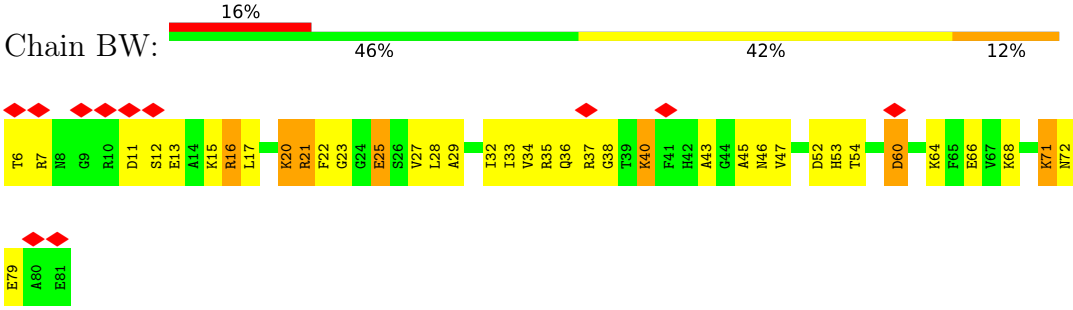
• Molecule 46: 50S ribosomal protein L25

Chain BV:



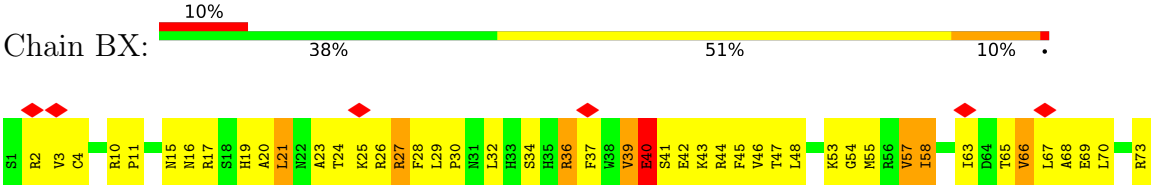
• Molecule 47: 50S ribosomal protein L27

Chain BW:



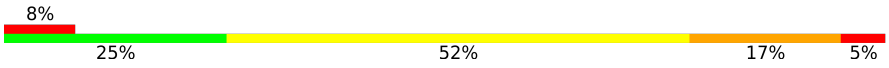
• Molecule 48: 50S ribosomal protein L28

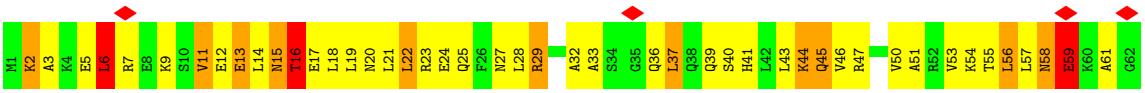
Chain BX:



• Molecule 49: 50S ribosomal protein L29

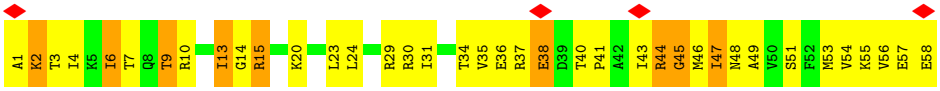
Chain BY:





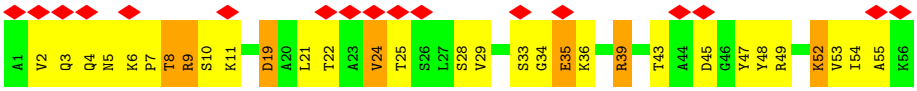
• Molecule 50: 50S ribosomal protein L30

Chain BZ:



• Molecule 51: 50S ribosomal protein L32

Chain B0:

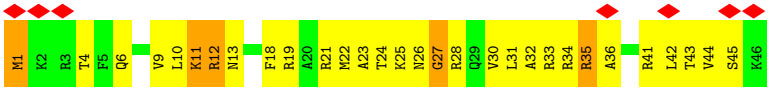


• Molecule 52: 50S ribosomal protein L33

Chain B1:

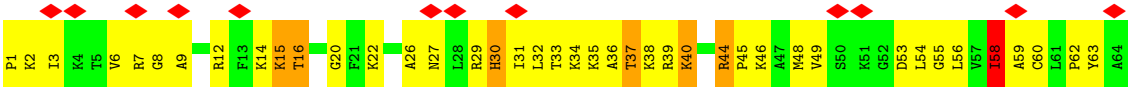
• Molecule 53: 50S ribosomal protein L34

Chain B2:

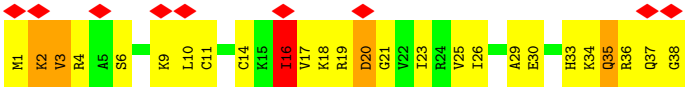


• Molecule 54: 50S ribosomal protein L35

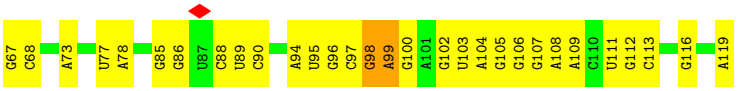
Chain B3:



• Molecule 55: 50S ribosomal protein L36



• Molecule 56: 5S ribosomal RNA



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	68843	Depositor
Resolution determination method	Not provided	
CTF correction method	The volumes were CTF-corrected in defocus groups, with an average of approximately 215 individual images per group	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	20	Depositor
Minimum defocus (nm)	2500	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	39000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	9.001	Depositor
Minimum map value	-3.389	Depositor
Average map value	0.205	Depositor
Map value standard deviation	0.751	Depositor
Recommended contour level	2	Depositor
Map size (Å)	378.0, 378.0, 378.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.26, 1.26, 1.26	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AA	0.49	0/36944	0.51	0/57632
2	AB	0.77	0/1736	1.13	10/2338 (0.4%)
3	AC	0.70	0/1652	1.01	4/2225 (0.2%)
4	AD	0.70	0/1665	1.07	11/2227 (0.5%)
5	AE	0.81	1/1119 (0.1%)	1.20	8/1504 (0.5%)
6	AF	0.81	0/836	1.15	5/1128 (0.4%)
7	AG	0.64	0/1196	1.04	7/1602 (0.4%)
8	AH	0.74	0/989	1.14	9/1326 (0.7%)
9	AI	0.63	1/1034 (0.1%)	1.01	5/1375 (0.4%)
10	AJ	0.76	0/797	1.05	4/1077 (0.4%)
11	AK	0.91	0/893	1.14	1/1205 (0.1%)
12	AL	0.77	0/969	1.09	5/1300 (0.4%)
13	AM	0.68	0/893	1.07	3/1193 (0.3%)
14	AN	0.67	0/785	1.11	6/1043 (0.6%)
15	AO	0.73	0/722	1.04	3/964 (0.3%)
16	AP	0.70	0/659	1.16	5/884 (0.6%)
17	AQ	0.65	0/658	1.04	3/881 (0.3%)
18	AR	0.75	0/463	1.03	3/621 (0.5%)
19	AS	0.60	0/653	1.16	10/877 (1.1%)
20	AT	0.69	0/671	0.97	3/888 (0.3%)
21	AU	1.04	0/431	1.27	6/570 (1.1%)
22	AV	0.48	15/7912 (0.2%)	0.79	19/12332 (0.2%)
23	AW	0.92	1/1011 (0.1%)	1.23	6/1354 (0.4%)
24	AX	0.55	1/1832 (0.1%)	0.81	2/2855 (0.1%)
25	AY	0.53	1/5313 (0.0%)	1.10	41/7195 (0.6%)
26	BA	0.88	6/69795 (0.0%)	0.61	4/108884 (0.0%)
27	BC	1.04	0/2122	1.20	6/2852 (0.2%)
28	BD	1.28	2/1586 (0.1%)	1.35	12/2134 (0.6%)
29	BE	1.18	0/1571	1.19	5/2113 (0.2%)
30	BF	0.81	0/1435	1.10	7/1926 (0.4%)
31	BG	0.94	0/1343	1.28	11/1816 (0.6%)
32	BH	0.87	0/1121	1.04	3/1515 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
33	BI	1.05	1/1046 (0.1%)	1.15	10/1410 (0.7%)
34	BJ	1.36	4/1152 (0.3%)	1.15	4/1551 (0.3%)
35	BK	1.17	1/948 (0.1%)	1.24	8/1268 (0.6%)
36	BL	1.27	2/1054 (0.2%)	1.38	11/1403 (0.8%)
37	BM	1.27	4/1093 (0.4%)	1.31	7/1460 (0.5%)
38	BN	1.25	0/974	1.24	9/1301 (0.7%)
39	BO	0.99	1/902 (0.1%)	1.19	6/1209 (0.5%)
40	BP	1.10	0/929	1.20	5/1242 (0.4%)
41	BQ	1.46	3/960 (0.3%)	1.29	5/1278 (0.4%)
42	BR	1.26	1/829 (0.1%)	1.39	7/1107 (0.6%)
43	BS	1.46	3/864 (0.3%)	1.29	6/1156 (0.5%)
44	BT	1.02	2/745 (0.3%)	1.20	7/994 (0.7%)
45	BU	1.19	3/788 (0.4%)	1.23	3/1051 (0.3%)
46	BV	1.02	0/766	1.17	4/1025 (0.4%)
47	BW	1.37	2/582 (0.3%)	1.21	0/769
48	BX	1.03	1/635 (0.2%)	1.13	4/848 (0.5%)
49	BY	0.98	0/510	1.39	8/677 (1.2%)
50	BZ	1.38	2/453 (0.4%)	1.35	5/605 (0.8%)
51	B0	1.23	1/450 (0.2%)	1.32	4/599 (0.7%)
52	B1	0.90	0/417	1.02	0/554
53	B2	1.39	0/380	1.38	5/498 (1.0%)
54	B3	1.21	1/513 (0.2%)	1.11	1/676 (0.1%)
55	B4	1.13	0/303	1.24	1/397 (0.3%)
56	BB	0.74	0/2847	0.60	0/4440
All	All	0.82	60/170946 (0.0%)	0.79	347/255354 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
4	AD	0	1
5	AE	0	1
9	AI	0	1
11	AK	0	1
13	AM	0	1
14	AN	0	1
21	AU	0	2
23	AW	0	1
24	AX	0	4
27	BC	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
28	BD	0	2
33	BI	0	1
42	BR	0	1
45	BU	0	1
50	BZ	0	1
All	All	0	20

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	AW	24	ILE	CA-CB	8.32	1.66	1.54
22	AV	110	U	C1'-N1	7.20	1.59	1.48
41	BQ	103	VAL	CA-CB	-7.17	1.45	1.54
22	AV	26	U	C1'-N1	7.13	1.59	1.48
26	BA	870	U	C1'-N1	7.12	1.59	1.48
26	BA	871	U	C1'-N1	7.12	1.59	1.48
22	AV	27	U	C1'-N1	7.11	1.59	1.48
22	AV	328	U	C1'-N1	7.09	1.59	1.48
22	AV	42	U	C1'-N1	7.08	1.59	1.48
22	AV	109	C	C1'-N1	6.59	1.58	1.48
22	AV	76	C	C1'-N1	6.58	1.58	1.48
22	AV	78	C	C1'-N1	6.57	1.58	1.48
22	AV	75	C	C1'-N1	6.55	1.58	1.48
22	AV	331	C	C1'-N1	6.54	1.58	1.48
35	BK	10	VAL	CA-CB	-6.53	1.46	1.54
26	BA	908	C	C1'-N1	6.52	1.58	1.48
44	BT	16	VAL	CA-CB	-6.49	1.46	1.54
50	BZ	49	ALA	CA-CB	-6.11	1.43	1.53
9	AI	129	ARG	C-OXT	6.01	1.35	1.23
33	BI	21	PRO	CA-C	5.98	1.57	1.52
22	AV	329	U	C1'-N1	5.95	1.57	1.48
34	BJ	136	GLN	C-O	-5.93	1.21	1.23
22	AV	330	U	C1'-N1	5.93	1.57	1.48
50	BZ	13	ILE	CA-CB	-5.92	1.46	1.54
22	AV	123	U	C1'-N1	5.84	1.56	1.47
47	BW	33	ILE	CA-CB	-5.83	1.46	1.54
45	BU	4	ILE	CA-CB	-5.80	1.47	1.54
54	B3	9	ALA	CA-CB	-5.79	1.44	1.53
22	AV	50	G	C1'-N9	-5.74	1.39	1.48
22	AV	131	U	C1'-N1	5.74	1.56	1.47
26	BA	887	U	C1'-N1	5.74	1.56	1.47
41	BQ	114	ALA	CA-CB	-5.67	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	AY	689	LYS	C-N	-5.64	1.25	1.33
44	BT	67	VAL	CA-CB	-5.64	1.46	1.55
37	BM	120	ALA	CA-C	-5.63	1.45	1.52
48	BX	66	VAL	CA-CB	-5.61	1.48	1.54
37	BM	131	VAL	CA-CB	-5.56	1.46	1.54
34	BJ	54	ILE	CA-CB	-5.54	1.47	1.54
45	BU	71	ILE	CA-CB	-5.53	1.48	1.54
26	BA	1142	A	N9-C4	-5.45	1.26	1.37
43	BS	45	VAL	CA-CB	-5.43	1.47	1.54
42	BR	14	VAL	CA-CB	-5.42	1.50	1.55
45	BU	58	VAL	CA-CB	5.41	1.61	1.53
28	BD	142	VAL	CA-CB	-5.39	1.47	1.54
24	AX	4	G	O5'-C5'	5.35	1.50	1.42
41	BQ	9	ALA	CA-CB	-5.30	1.46	1.53
36	BL	57	LEU	C-O	-5.30	1.18	1.24
34	BJ	53	TYR	CA-C	-5.24	1.46	1.52
36	BL	69	ARG	CA-C	-5.24	1.45	1.52
34	BJ	101	ILE	CA-C	-5.19	1.46	1.52
43	BS	86	MET	C-O	-5.17	1.20	1.25
39	BO	99	TYR	CA-C	-5.15	1.46	1.53
43	BS	106	VAL	CA-C	-5.14	1.46	1.52
5	AE	35	LEU	CA-C	-5.08	1.47	1.53
47	BW	21	ARG	CA-C	-5.07	1.47	1.52
28	BD	127	PHE	CA-C	-5.06	1.46	1.53
37	BM	65	ILE	CA-CB	-5.05	1.48	1.54
26	BA	906	U	C1'-N1	5.04	1.56	1.48
51	B0	8	THR	CA-CB	-5.01	1.45	1.53
37	BM	73	ILE	CA-CB	-5.00	1.48	1.54

All (347) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BD	151	THR	CA-C-N	15.77	139.55	119.84
28	BD	151	THR	C-N-CA	15.77	139.55	119.84
42	BR	51	VAL	CA-C-N	-12.33	104.43	119.84
42	BR	51	VAL	C-N-CA	-12.33	104.43	119.84
49	BY	16	THR	N-CA-C	-12.14	98.05	111.28
28	BD	142	VAL	CA-C-N	11.06	130.66	119.82
28	BD	142	VAL	C-N-CA	11.06	130.66	119.82
49	BY	6	LEU	N-CA-C	-10.91	99.06	112.38
25	AY	137	ASN	N-CA-C	10.19	122.34	111.03
35	BK	118	LEU	N-CA-C	-9.96	96.14	110.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	BY	56	LEU	N-CA-C	-9.85	96.35	110.24
37	BM	68	PHE	CA-C-N	9.84	132.13	119.84
37	BM	68	PHE	C-N-CA	9.84	132.13	119.84
31	BG	110	HIS	CA-C-N	-9.24	110.88	120.03
31	BG	110	HIS	C-N-CA	-9.24	110.88	120.03
43	BS	28	LYS	N-CA-C	-9.11	98.90	110.19
17	AQ	75	VAL	N-CA-C	-9.08	104.45	111.62
8	AH	48	PHE	N-CA-C	8.94	116.11	108.78
4	AD	184	LYS	CA-C-N	8.87	130.93	119.84
4	AD	184	LYS	C-N-CA	8.87	130.93	119.84
36	BL	83	ALA	N-CA-C	-8.86	99.33	111.56
22	AV	109	C	O3'-P-O5'	-8.62	91.07	104.00
22	AV	26	U	O3'-P-O5'	-8.61	91.08	104.00
22	AV	23	G	O3'-P-O5'	-8.61	91.09	104.00
22	AV	77	G	O3'-P-O5'	-8.60	91.09	104.00
22	AV	57	G	O3'-P-O5'	-8.60	91.10	104.00
22	AV	25	A	O3'-P-O5'	-8.59	91.11	104.00
22	AV	328	U	O3'-P-O5'	-8.59	91.11	104.00
26	BA	908	C	O3'-P-O5'	-8.59	91.11	104.00
22	AV	327	A	O3'-P-O5'	-8.59	91.12	104.00
26	BA	870	U	O3'-P-O5'	-8.59	91.12	104.00
22	AV	177	A	O3'-P-O5'	-8.58	91.13	104.00
22	AV	108	G	O3'-P-O5'	-8.58	91.13	104.00
22	AV	329	U	O3'-P-O5'	-8.58	91.13	104.00
22	AV	75	C	O3'-P-O5'	-8.57	91.14	104.00
22	AV	330	U	O3'-P-O5'	-8.57	91.14	104.00
22	AV	326	A	O3'-P-O5'	-8.56	91.16	104.00
22	AV	24	G	O3'-P-O5'	-8.56	91.16	104.00
50	BZ	15	ARG	N-CA-C	8.56	123.14	110.48
26	BA	907	G	O3'-P-O5'	-8.55	91.17	104.00
22	AV	178	G	O3'-P-O5'	-8.55	91.18	104.00
22	AV	76	C	O3'-P-O5'	-8.53	91.21	104.00
22	AV	134	G	O3'-P-O5'	-8.52	91.22	104.00
16	AP	14	ARG	CA-C-N	8.48	130.44	119.84
16	AP	14	ARG	C-N-CA	8.48	130.44	119.84
5	AE	148	SER	CA-C-N	8.46	130.41	119.84
5	AE	148	SER	C-N-CA	8.46	130.41	119.84
33	BI	72	THR	CA-C-N	8.40	129.04	120.38
33	BI	72	THR	C-N-CA	8.40	129.04	120.38
31	BG	6	ALA	CA-C-N	8.35	130.28	119.84
31	BG	6	ALA	C-N-CA	8.35	130.28	119.84
21	AU	8	ASN	N-CA-C	8.18	123.08	112.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	BF	166	ARG	N-CA-C	-8.15	102.09	110.97
7	AG	6	ILE	N-CA-C	8.05	118.64	108.82
36	BL	85	VAL	N-CA-C	-7.93	105.58	113.20
41	BQ	41	ALA	N-CA-C	-7.89	102.76	112.38
49	BY	11	VAL	N-CA-C	-7.84	105.55	111.90
28	BD	151	THR	C-N-CD	-7.84	92.86	125.00
40	BP	3	ILE	N-CA-C	-7.84	103.22	110.82
34	BJ	101	ILE	CB-CA-C	-7.82	101.79	112.04
42	BR	46	GLU	N-CA-C	7.82	121.22	108.55
37	BM	120	ALA	N-CA-C	-7.80	103.38	113.12
31	BG	76	ILE	N-CA-C	-7.79	101.13	112.04
39	BO	34	HIS	N-CA-C	7.72	120.80	109.69
15	AO	74	VAL	CB-CA-C	-7.57	102.12	112.04
27	BC	41	GLY	N-CA-C	-7.57	104.59	115.27
25	AY	286	ILE	CA-C-N	7.57	128.17	120.38
25	AY	286	ILE	C-N-CA	7.57	128.17	120.38
53	B2	6	GLN	CA-C-N	-7.51	112.94	120.31
53	B2	6	GLN	C-N-CA	-7.51	112.94	120.31
25	AY	126	GLU	N-CA-C	-7.50	104.02	113.01
25	AY	462	ILE	N-CA-C	-7.47	103.17	110.72
9	AI	96	GLU	N-CA-C	-7.47	104.69	113.88
43	BS	54	ALA	N-CA-C	-7.41	103.20	111.28
25	AY	274	ASP	N-CA-C	-7.38	103.17	111.14
6	AF	97	THR	N-CA-C	7.36	120.05	108.79
13	AM	2	ARG	N-CA-C	7.36	120.37	111.40
25	AY	260	LEU	N-CA-C	7.35	118.25	107.88
44	BT	16	VAL	N-CA-C	7.35	118.46	108.17
25	AY	414	GLU	CA-C-N	7.30	128.97	119.84
25	AY	414	GLU	C-N-CA	7.30	128.97	119.84
21	AU	29	ALA	N-CA-C	-7.29	103.33	111.71
2	AB	135	MET	N-CA-C	-7.25	103.53	112.88
2	AB	90	PHE	N-CA-C	7.24	119.07	108.86
46	BV	26	PHE	N-CA-C	7.19	114.47	108.07
2	AB	49	PHE	N-CA-C	-7.17	104.52	113.55
40	BP	2	ASN	N-CA-C	-7.11	104.87	113.97
51	B0	6	LYS	CA-C-N	7.03	128.62	119.84
51	B0	6	LYS	C-N-CA	7.03	128.62	119.84
32	BH	4	ILE	CB-CA-C	-6.99	101.84	111.49
35	BK	95	ILE	CB-CA-C	-6.99	102.58	112.22
23	AW	10	ALA	N-CA-C	6.99	119.92	111.40
33	BI	49	GLU	N-CA-C	6.96	118.98	108.46
42	BR	9	GLY	N-CA-C	-6.94	102.96	114.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BD	127	PHE	N-CA-C	-6.90	101.64	110.19
43	BS	49	LYS	N-CA-C	-6.89	103.88	112.90
7	AG	24	LYS	N-CA-C	-6.89	103.00	111.33
13	AM	8	ILE	CA-C-N	6.83	128.23	120.85
13	AM	8	ILE	C-N-CA	6.83	128.23	120.85
18	AR	66	LEU	N-CA-C	-6.83	104.43	112.89
25	AY	118	SER	N-CA-C	-6.80	103.10	111.33
6	AF	75	GLU	N-CA-C	-6.77	103.97	111.82
18	AR	39	VAL	N-CA-C	6.76	115.26	107.89
23	AW	29	THR	N-CA-C	-6.76	103.99	111.36
49	BY	58	ASN	N-CA-C	-6.74	106.94	114.62
53	B2	27	GLY	N-CA-C	-6.74	104.34	112.49
49	BY	45	GLN	N-CA-C	-6.73	101.61	110.43
38	BN	61	ALA	N-CA-C	-6.73	103.87	111.07
30	BF	84	ILE	N-CA-C	6.69	119.65	112.96
36	BL	103	ILE	N-CA-C	6.69	117.38	110.36
31	BG	75	VAL	N-CA-C	-6.67	106.99	113.53
33	BI	56	VAL	N-CA-C	6.67	115.83	107.70
21	AU	20	ARG	N-CA-C	-6.61	105.96	112.97
29	BE	146	VAL	CB-CA-C	-6.59	99.31	111.18
46	BV	26	PHE	CA-C-N	-6.58	113.48	120.66
46	BV	26	PHE	C-N-CA	-6.58	113.48	120.66
6	AF	71	ILE	N-CA-C	-6.58	103.39	110.23
33	BI	85	ILE	N-CA-C	6.53	118.00	109.58
40	BP	20	ARG	N-CA-C	6.51	114.08	108.22
5	AE	110	MET	N-CA-C	-6.50	105.92	114.31
20	AT	7	LYS	N-CA-C	-6.49	104.24	111.71
55	B4	16	ILE	CB-CA-C	-6.48	103.11	111.53
41	BQ	7	VAL	N-CA-C	-6.47	105.53	111.67
15	AO	84	LEU	N-CA-C	-6.47	104.87	112.89
45	BU	35	VAL	N-CA-C	6.45	117.53	107.28
19	AS	65	MET	N-CA-C	-6.43	103.98	112.72
39	BO	102	ARG	N-CA-C	-6.43	104.32	111.71
2	AB	138	ARG	N-CA-C	-6.42	103.56	111.33
41	BQ	19	GLN	N-CA-C	-6.36	105.48	113.18
25	AY	97	SER	N-CA-C	-6.32	104.40	111.28
14	AN	69	ARG	CA-C-N	6.29	126.42	119.87
14	AN	69	ARG	C-N-CA	6.29	126.42	119.87
25	AY	122	TRP	N-CA-C	6.28	117.92	111.14
42	BR	99	THR	N-CA-C	6.27	118.13	109.54
21	AU	17	ARG	N-CA-C	-6.27	106.00	113.21
43	BS	86	MET	CA-C-N	-6.27	113.49	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	BS	86	MET	C-N-CA	-6.27	113.49	119.89
24	AX	77	A	C4'-C3'-O3'	6.22	122.33	113.00
48	BX	19	HIS	N-CA-C	-6.21	104.51	111.28
30	BF	174	PHE	CA-C-N	6.20	127.59	119.84
30	BF	174	PHE	C-N-CA	6.20	127.59	119.84
19	AS	7	GLY	CA-C-N	6.20	127.59	119.84
19	AS	7	GLY	C-N-CA	6.20	127.59	119.84
14	AN	92	GLU	N-CA-C	6.19	123.99	110.80
27	BC	126	GLY	N-CA-C	-6.19	105.97	114.64
5	AE	140	ILE	N-CA-C	-6.18	104.31	110.30
2	AB	194	GLY	N-CA-C	-6.17	107.55	114.40
8	AH	89	ASP	N-CA-C	-6.17	105.01	112.54
31	BG	97	VAL	N-CA-C	6.17	122.17	109.34
2	AB	107	ARG	N-CA-C	-6.16	103.87	111.33
25	AY	15	ILE	N-CA-C	6.16	118.90	108.86
19	AS	40	PHE	CA-C-N	6.15	127.53	119.84
19	AS	40	PHE	C-N-CA	6.15	127.53	119.84
35	BK	24	VAL	N-CA-C	-6.14	99.41	109.12
14	AN	56	SER	CA-C-N	6.14	125.86	119.05
14	AN	56	SER	C-N-CA	6.14	125.86	119.05
25	AY	166	LEU	CA-C-N	6.13	125.89	119.76
25	AY	166	LEU	C-N-CA	6.13	125.89	119.76
19	AS	33	TRP	N-CA-C	-6.12	103.50	111.71
39	BO	78	VAL	CB-CA-C	-6.09	104.20	111.81
9	AI	102	PHE	N-CA-C	-6.09	105.34	112.89
31	BG	97	VAL	CB-CA-C	-6.05	101.37	111.29
36	BL	98	ALA	N-CA-C	-6.04	105.68	113.16
41	BQ	103	VAL	CB-CA-C	-6.04	104.11	112.02
25	AY	575	VAL	N-CA-C	6.00	116.97	111.81
44	BT	4	GLU	N-CA-C	-6.00	104.86	111.82
4	AD	102	TYR	N-CA-C	-5.98	104.84	111.36
26	BA	752	A	C4-N9-C1'	5.97	144.22	126.30
25	AY	561	VAL	N-CA-C	5.94	116.07	108.82
42	BR	33	VAL	CB-CA-C	-5.92	103.32	111.49
25	AY	539	ILE	CB-CA-C	-5.91	108.09	114.35
27	BC	245	THR	CA-C-N	-5.90	113.57	120.12
27	BC	245	THR	C-N-CA	-5.90	113.57	120.12
14	AN	25	GLU	N-CA-C	-5.89	105.69	114.64
39	BO	18	LEU	N-CA-C	-5.86	105.02	111.82
25	AY	302	HIS	CA-C-N	5.86	127.16	119.84
25	AY	302	HIS	C-N-CA	5.86	127.16	119.84
7	AG	12	LEU	CA-C-N	5.84	127.15	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	AG	12	LEU	C-N-CA	5.84	127.15	119.84
25	AY	302	HIS	N-CA-C	5.84	118.07	109.42
34	BJ	5	THR	CB-CA-C	-5.82	97.57	109.38
29	BE	88	ARG	N-CA-C	-5.81	103.34	110.31
44	BT	16	VAL	CB-CA-C	-5.80	102.18	110.83
30	BF	67	THR	N-CA-C	5.80	118.12	109.59
25	AY	598	ASP	CA-C-N	5.79	125.76	120.03
25	AY	598	ASP	C-N-CA	5.79	125.76	120.03
8	AH	103	VAL	N-CA-C	5.78	116.19	107.75
44	BT	39	THR	CB-CA-C	-5.77	99.29	109.62
32	BH	88	GLY	N-CA-C	5.76	123.19	115.59
15	AO	47	LYS	N-CA-C	-5.74	104.85	112.94
8	AH	11	THR	N-CA-C	-5.74	104.66	111.03
33	BI	122	GLU	N-CA-C	-5.74	106.91	114.31
23	AW	31	VAL	CB-CA-C	-5.73	104.40	112.14
35	BK	77	ILE	N-CA-C	-5.73	101.49	109.45
17	AQ	28	VAL	N-CA-C	5.72	115.90	108.35
10	AJ	18	ILE	N-CA-C	-5.71	105.16	110.53
5	AE	11	GLN	N-CA-C	5.69	122.92	110.80
25	AY	579	GLU	N-CA-C	-5.68	104.29	111.11
49	BY	59	GLU	N-CA-C	-5.68	105.08	111.28
43	BS	17	VAL	CB-CA-C	-5.67	104.40	112.22
38	BN	56	LYS	N-CA-C	-5.66	106.33	113.18
41	BQ	34	ALA	N-CA-C	-5.66	105.25	111.82
12	AL	105	GLY	N-CA-C	-5.63	105.34	112.54
19	AS	72	GLU	N-CA-C	-5.62	106.50	113.19
6	AF	96	VAL	N-CA-C	5.61	117.13	108.44
33	BI	3	LYS	N-CA-C	5.61	115.64	108.24
3	AC	184	ASN	N-CA-C	5.60	116.78	108.60
44	BT	22	THR	N-CA-C	-5.60	105.08	111.07
11	AK	41	LEU	N-CA-C	-5.60	106.50	113.55
4	AD	147	LYS	N-CA-C	-5.59	102.74	110.35
31	BG	141	GLY	N-CA-C	-5.59	106.01	112.50
36	BL	25	SER	N-CA-C	5.59	119.37	112.54
3	AC	156	LEU	N-CA-C	-5.59	101.77	110.10
25	AY	287	PRO	CA-C-N	5.58	126.82	119.84
25	AY	287	PRO	C-N-CA	5.58	126.82	119.84
38	BN	69	ARG	N-CA-C	-5.58	101.04	109.85
25	AY	154	GLN	N-CA-C	-5.57	106.31	114.39
4	AD	21	LYS	N-CA-C	-5.56	106.26	113.16
53	B2	35	ARG	N-CA-C	-5.56	104.85	111.69
27	BC	109	LEU	N-CA-C	5.56	118.25	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	BK	121	GLU	N-CA-C	5.56	118.93	108.65
20	AT	67	HIS	N-CA-C	5.55	118.53	110.42
3	AC	141	MET	N-CA-C	-5.54	105.32	111.36
31	BG	39	ALA	N-CA-C	-5.54	106.48	113.18
7	AG	90	VAL	N-CA-C	5.54	116.03	107.78
48	BX	66	VAL	CB-CA-C	-5.54	104.73	111.87
51	B0	24	VAL	N-CA-C	5.53	120.15	112.35
16	AP	20	VAL	N-CA-C	5.53	116.33	108.42
20	AT	63	LYS	N-CA-C	-5.53	105.34	111.36
38	BN	26	GLY	N-CA-C	-5.52	106.09	112.50
25	AY	151	ARG	N-CA-C	-5.52	106.62	113.19
44	BT	38	ALA	N-CA-C	5.51	122.53	110.80
45	BU	8	ASP	N-CA-C	-5.51	99.07	110.80
53	B2	45	SER	N-CA-C	5.51	117.16	108.96
46	BV	32	GLY	N-CA-C	-5.50	106.13	112.29
7	AG	46	LEU	N-CA-C	-5.49	104.83	112.45
34	BJ	115	GLY	N-CA-C	-5.46	106.17	112.73
12	AL	101	LEU	CB-CA-C	-5.46	110.26	116.54
34	BJ	126	ALA	N-CA-C	-5.46	106.58	113.18
17	AQ	66	LEU	N-CA-C	-5.45	108.40	114.62
7	AG	20	GLU	N-CA-C	-5.45	104.73	111.33
45	BU	88	ASP	N-CA-C	-5.44	99.88	109.02
19	AS	17	LYS	N-CA-C	-5.44	106.58	113.43
30	BF	96	TRP	N-CA-C	-5.43	104.77	111.40
12	AL	60	PHE	N-CA-C	-5.43	101.32	109.95
23	AW	67	SER	N-CA-C	5.42	116.92	110.19
23	AW	16	ILE	N-CA-C	5.42	116.58	109.21
35	BK	115	ILE	N-CA-C	5.42	116.15	110.62
25	AY	604	PRO	N-CA-C	5.42	119.38	110.55
25	AY	38	ARG	N-CA-C	-5.42	106.52	113.23
4	AD	29	THR	N-CA-C	-5.41	99.27	110.80
12	AL	97	VAL	CB-CA-C	-5.41	106.06	111.80
50	BZ	55	LYS	N-CA-C	-5.41	102.47	110.48
5	AE	122	VAL	CB-CA-C	-5.41	103.17	111.71
25	AY	576	ASP	N-CA-C	5.40	117.25	111.36
33	BI	131	THR	N-CA-C	-5.40	105.79	112.38
38	BN	19	ALA	N-CA-C	-5.39	106.54	113.01
35	BK	32	TYR	N-CA-C	5.39	117.87	109.52
10	AJ	40	ILE	CA-C-N	5.38	126.56	119.84
10	AJ	40	ILE	C-N-CA	5.38	126.56	119.84
8	AH	91	LEU	CA-C-N	5.35	127.25	120.51
8	AH	91	LEU	C-N-CA	5.35	127.25	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BD	9	VAL	N-CA-C	-5.35	107.57	111.90
12	AL	115	LYS	N-CA-C	-5.34	102.57	110.48
36	BL	43	GLY	N-CA-C	-5.34	107.73	115.27
2	AB	11	ALA	N-CA-C	5.34	116.84	109.15
16	AP	61	VAL	N-CA-C	-5.33	104.55	110.62
29	BE	104	ALA	N-CA-C	-5.33	104.52	111.02
2	AB	23	ASN	CA-C-N	5.32	125.39	119.32
2	AB	23	ASN	C-N-CA	5.32	125.39	119.32
36	BL	7	SER	CA-C-N	5.32	126.49	119.84
36	BL	7	SER	C-N-CA	5.32	126.49	119.84
4	AD	36	ALA	CA-C-N	-5.31	114.14	119.56
4	AD	36	ALA	C-N-CA	-5.31	114.14	119.56
6	AF	32	ALA	N-CA-C	-5.30	106.83	113.72
25	AY	580	MET	N-CA-C	5.30	116.74	111.07
19	AS	74	ALA	CA-C-N	5.30	126.46	119.84
19	AS	74	ALA	C-N-CA	5.30	126.46	119.84
39	BO	99	TYR	N-CA-CB	5.29	117.72	110.57
35	BK	89	ASN	N-CA-C	5.28	117.03	111.28
5	AE	89	THR	CB-CA-C	-5.27	110.06	117.23
4	AD	76	LYS	N-CA-C	-5.26	105.96	112.38
23	AW	71	VAL	N-CA-C	5.26	116.59	108.44
9	AI	97	LEU	N-CA-C	-5.25	104.97	111.33
21	AU	52	VAL	N-CA-C	-5.25	106.57	111.45
5	AE	97	PRO	N-CA-C	-5.25	106.24	113.53
8	AH	102	VAL	CB-CA-C	-5.24	102.69	111.29
25	AY	192	LEU	N-CA-C	-5.24	106.89	113.28
37	BM	97	GLN	CA-C-N	-5.24	113.29	119.84
37	BM	97	GLN	C-N-CA	-5.24	113.29	119.84
33	BI	103	ALA	N-CA-C	-5.24	104.63	111.02
38	BN	79	LEU	N-CA-C	-5.24	99.65	110.80
44	BT	51	PHE	N-CA-C	-5.24	106.28	113.30
9	AI	100	ALA	N-CA-C	-5.23	106.58	113.17
4	AD	49	ASP	N-CA-C	-5.22	105.70	111.71
36	BL	101	ILE	CB-CA-C	-5.22	102.74	111.29
25	AY	328	ILE	N-CA-C	5.21	117.26	108.81
28	BD	22	ILE	CB-CA-C	-5.21	105.14	110.71
25	AY	272	LEU	N-CA-C	-5.20	105.68	112.23
29	BE	93	SER	N-CA-C	-5.20	103.53	110.55
32	BH	27	ARG	N-CA-C	-5.20	101.95	109.59
28	BD	73	VAL	N-CA-C	-5.17	101.21	109.17
48	BX	40	GLU	N-CA-C	-5.16	104.72	111.02
25	AY	682	GLN	N-CA-C	-5.16	106.09	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	BF	45	ASP	N-CA-C	5.15	117.06	107.99
51	B0	19	ASP	N-CA-C	-5.15	106.99	113.28
25	AY	101	LEU	N-CA-C	5.15	116.97	110.33
10	AJ	51	VAL	CB-CA-C	-5.14	102.68	110.95
24	AX	1	C	N1-C1'-C2'	5.13	119.70	112.00
28	BD	14	ILE	N-CA-C	-5.13	100.81	108.46
29	BE	181	ILE	CB-CA-C	-5.13	106.38	111.30
18	AR	21	ASP	N-CA-C	5.12	117.03	108.99
25	AY	612	THR	N-CA-C	5.12	116.53	108.23
48	BX	66	VAL	N-CA-C	5.12	115.24	110.42
49	BY	15	ASN	N-CA-C	5.12	119.53	113.12
36	BL	52	GLY	N-CA-C	-5.12	101.11	112.17
40	BP	85	VAL	CB-CA-C	-5.11	104.89	111.53
38	BN	9	GLN	N-CA-C	-5.10	107.73	114.31
28	BD	150	GLN	N-CA-C	-5.10	104.80	111.02
50	BZ	6	ILE	N-CA-C	5.10	114.92	107.37
22	AV	340	G	C4'-C3'-O3'	-5.10	105.35	113.00
37	BM	30	SER	N-CA-C	-5.10	107.13	113.55
8	AH	55	LYS	CA-C-N	5.09	126.21	119.84
8	AH	55	LYS	C-N-CA	5.09	126.21	119.84
40	BP	85	VAL	N-CA-C	5.09	114.07	106.85
42	BR	98	ILE	CB-CA-C	-5.08	104.61	110.91
38	BN	16	HIS	N-CA-C	-5.08	105.66	111.14
25	AY	639	ASN	N-CA-C	-5.07	107.09	113.28
21	AU	9	GLU	N-CA-C	5.07	121.01	109.81
38	BN	97	ILE	CB-CA-C	-5.07	103.56	110.96
33	BI	72	THR	N-CA-C	5.06	117.98	110.39
37	BM	131	VAL	N-CA-C	5.06	115.99	108.65
31	BG	70	LEU	N-CA-C	-5.05	105.68	111.14
36	BL	9	ALA	N-CA-C	-5.05	103.38	110.50
2	AB	10	LYS	N-CA-C	-5.05	106.96	114.64
27	BC	5	CYS	N-CA-C	5.04	117.95	110.48
39	BO	58	ILE	CB-CA-C	-5.04	105.32	111.92
4	AD	26	ALA	N-CA-C	5.03	114.48	107.73
28	BD	3	GLY	N-CA-C	-5.03	103.89	112.64
50	BZ	45	GLY	N-CA-C	-5.03	108.43	114.66
54	B3	58	ILE	CB-CA-C	-5.03	105.35	112.14
9	AI	18	VAL	N-CA-C	5.02	114.70	106.72
25	AY	498	ILE	N-CA-C	5.02	119.78	109.34
3	AC	54	ILE	CB-CA-C	5.02	116.30	111.23
16	AP	70	ARG	N-CA-C	-5.01	105.95	111.71
50	BZ	44	ARG	N-CA-C	-5.01	105.92	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	AY	569	ASP	N-CA-C	5.00	114.94	107.88

There are no chirality outliers.

All (20) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	AD	47	LEU	Peptide
5	AE	100	GLU	Peptide
9	AI	5	TYR	Peptide
11	AK	125	LYS	Peptide
13	AM	111	PRO	Peptide
14	AN	25	GLU	Peptide
21	AU	38	GLU	Peptide
21	AU	7	GLU	Peptide
23	AW	106	TYR	Sidechain
24	AX	37	U	Sidechain
24	AX	39	A	Sidechain
24	AX	59	A	Sidechain
24	AX	77	A	Sidechain
27	BC	231	HIS	Peptide
28	BD	132	ALA	Peptide
28	BD	151	THR	Peptide
33	BI	37	PHE	Peptide
42	BR	8	GLY	Peptide
45	BU	52	ASN	Peptide
50	BZ	14	GLY	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32995	0	16600	2517	0
2	AB	1705	0	1731	437	0
3	AC	1625	0	1695	277	0
4	AD	1643	0	1710	310	0
5	AE	1106	0	1147	243	0
6	AF	818	0	808	118	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	AG	1182	0	1238	140	0
8	AH	979	0	1034	168	0
9	AI	1022	0	1070	226	0
10	AJ	787	0	828	187	0
11	AK	877	0	887	167	0
12	AL	955	0	1019	113	0
13	AM	884	0	944	168	0
14	AN	774	0	827	145	0
15	AO	714	0	736	70	0
16	AP	649	0	666	112	0
17	AQ	649	0	691	123	0
18	AR	456	0	478	49	0
19	AS	638	0	665	82	0
20	AT	665	0	714	94	0
21	AU	426	0	449	145	0
22	AV	7135	0	3594	2247	0
23	AW	993	0	1030	336	0
24	AX	1640	0	835	262	0
25	AY	5215	0	5279	983	0
26	BA	62319	0	31328	3015	0
27	BC	2083	0	2157	233	0
28	BD	1565	0	1616	123	0
29	BE	1552	0	1619	144	0
30	BF	1411	0	1443	248	0
31	BG	1323	0	1374	161	0
32	BH	1110	0	1148	160	0
33	BI	1032	0	1086	296	0
34	BJ	1129	0	1162	68	0
35	BK	939	0	1012	81	0
36	BL	1045	0	1117	134	0
37	BM	1074	0	1157	136	0
38	BN	961	0	1000	94	0
39	BO	892	0	923	94	0
40	BP	917	0	965	98	0
41	BQ	947	0	1022	69	0
42	BR	816	0	839	86	0
43	BS	857	0	922	48	0
44	BT	739	0	807	76	0
45	BU	780	0	834	66	0
46	BV	753	0	780	62	0
47	BW	575	0	589	31	0
48	BX	625	0	655	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	BY	509	0	543	89	0
50	BZ	449	0	491	31	0
51	B0	444	0	461	35	0
52	B1	410	0	440	37	0
53	B2	377	0	418	32	0
54	B3	504	0	574	44	0
55	B4	302	0	343	23	0
56	BB	2548	0	1292	104	0
All	All	157519	0	106792	14467	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 55.

All (14467) 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)
23:AW:38:LYS:HE2	26:BA:1910:G:P	1.23	1.71
22:AV:172:U:H2'	22:AV:173:C:C6	1.25	1.65
25:AY:633:GLY:HA2	26:BA:1068:G:C8	1.19	1.62
22:AV:323:A:H2'	22:AV:324:G:C8	1.34	1.62
22:AV:48:C:C2'	22:AV:49:C:H5"	1.25	1.62
1:AA:1389:C:H3'	1:AA:1390:U:C5	1.33	1.60
1:AA:1081:A:C5'	5:AE:22:LYS:HE2	1.18	1.60
1:AA:922:G:H22	1:AA:1398:A:C2'	1.02	1.57
22:AV:28:U:H2'	22:AV:29:G:C8	1.37	1.56
9:AI:128:LYS:CE	24:AX:35:C:H5"	1.15	1.56
25:AY:626:ALA:HB2	26:BA:2473:U:C1'	1.08	1.55
22:AV:8:A:C8	22:AV:334:A:C2'	1.83	1.55
22:AV:163:G:C2'	22:AV:164:G:H5'	1.32	1.54
25:AY:636:PRO:C	33:BI:25:PRO:HD2	1.29	1.53
26:BA:877:A:C2'	26:BA:878:A:H5'	1.35	1.53
9:AI:128:LYS:HE3	24:AX:35:C:C5'	1.12	1.52
26:BA:887:U:C1'	26:BA:888:C:H5'	1.40	1.51
22:AV:185:A:H2'	22:AV:186:A:C5	1.44	1.51
22:AV:322:U:H2'	22:AV:323:A:C8	1.45	1.50
1:AA:922:G:C2	1:AA:1398:A:N3	1.78	1.50
22:AV:158:U:C1'	22:AV:197:A:C2	1.93	1.50
26:BA:879:G:C2'	26:BA:880:G:H5'	1.38	1.49
22:AV:290:A:H4'	22:AV:291:A:C5'	1.35	1.49
22:AV:296:U:H2'	22:AV:297:G:C8	1.44	1.49
22:AV:48:C:C3'	22:AV:49:C:H5"	1.43	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:8:A:C8	22:AV:334:A:H2'	1.40	1.48
22:AV:199:C:H2'	22:AV:200:G:C8	1.46	1.48
25:AY:626:ALA:CB	26:BA:2473:U:H1'	1.44	1.47
26:BA:894:U:C2'	26:BA:895:U:H5"	1.43	1.47
1:AA:55:A:C2	25:AY:321:TYR:O	1.69	1.44
22:AV:44:C:N3	22:AV:263:G:N2	1.66	1.43
22:AV:139:C:H1'	22:AV:182:U:C6	1.53	1.43
1:AA:922:G:N3	1:AA:1398:A:C2	1.84	1.43
1:AA:1531:A:C2'	1:AA:1532:U:H5'	1.45	1.43
22:AV:172:U:C2'	22:AV:173:C:H6	1.28	1.43
3:AC:79:LYS:HE2	22:AV:184:A:P	1.59	1.43
1:AA:1081:A:H5'	5:AE:22:LYS:CE	1.41	1.43
22:AV:213:G:H1	22:AV:245:C:N4	1.13	1.43
25:AY:644:ARG:HH22	26:BA:1067:A:C4'	1.26	1.42
22:AV:208:G:H1'	22:AV:223:G:N2	1.30	1.42
1:AA:1100:C:C4	2:AB:94:ARG:NE	1.81	1.41
22:AV:266:C:C2'	22:AV:267:G:H5"	1.45	1.41
22:AV:48:C:H2'	22:AV:49:C:C5'	1.49	1.41
25:AY:626:ALA:CB	26:BA:2473:U:C1'	1.94	1.41
1:AA:55:A:N3	25:AY:321:TYR:HA	1.35	1.40
22:AV:8:A:N7	22:AV:334:A:H2'	1.10	1.40
22:AV:334:A:H5'	22:AV:335:C:N4	1.34	1.40
1:AA:922:G:N2	1:AA:1398:A:H2'	1.13	1.40
25:AY:633:GLY:CA	26:BA:1068:G:C8	2.04	1.39
25:AY:639:ASN:HA	33:BI:29:GLN:CG	1.46	1.39
2:AB:104:LYS:NZ	22:AV:121:A:H5"	1.32	1.39
1:AA:1100:C:N4	2:AB:94:ARG:NE	1.71	1.39
22:AV:180:G:H2'	22:AV:181:G:C1'	1.51	1.39
22:AV:158:U:O4'	22:AV:197:A:C2	1.70	1.38
26:BA:894:U:H2'	26:BA:895:U:C5'	1.54	1.38
22:AV:185:A:H2'	22:AV:186:A:C4	1.57	1.38
22:AV:239:A:H3'	22:AV:240:U:C5'	1.54	1.38
22:AV:244:G:N3	22:AV:245:C:H1'	1.38	1.37
22:AV:47:G:H2'	22:AV:48:C:C6	1.59	1.37
22:AV:204:G:OP2	22:AV:235:C:N4	1.58	1.37
22:AV:20:A:H3'	22:AV:21:C:C5	1.56	1.36
22:AV:163:G:O2'	22:AV:164:G:H5'	1.18	1.36
22:AV:137:C:H3'	22:AV:138:C:C5'	1.56	1.35
25:AY:636:PRO:O	33:BI:25:PRO:CD	1.74	1.35
1:AA:922:G:C4	1:AA:1398:A:C2	2.13	1.35
23:AW:45:PHE:HZ	25:AY:500:GLN:NE2	1.17	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:20:A:N6	23:AW:80:LEU:CD2	1.68	1.34
22:AV:14:G:N1	22:AV:343:C:N4	1.76	1.34
22:AV:208:G:C1'	22:AV:223:G:H22	1.40	1.34
3:AC:142:ARG:NH1	22:AV:129:G:OP1	1.61	1.34
26:BA:2093:G:O2'	26:BA:2198:A:N1	1.58	1.34
23:AW:38:LYS:HD3	26:BA:1911:U:OP2	1.26	1.33
22:AV:13:G:H2'	22:AV:14:G:C8	1.63	1.32
22:AV:227:C:O2	22:AV:233:A:N6	1.61	1.32
22:AV:21:C:C2	23:AW:78:LYS:NZ	1.97	1.32
1:AA:1494:G:H1'	26:BA:1913:A:C2	1.66	1.31
25:AY:639:ASN:CA	33:BI:29:GLN:HG3	1.57	1.31
22:AV:210:C:H2'	22:AV:240:U:C5	1.63	1.30
22:AV:269:C:H2'	22:AV:270:C:C5'	1.61	1.30
22:AV:158:U:H1'	22:AV:197:A:C2	1.58	1.30
22:AV:210:C:C2'	22:AV:240:U:H5	1.41	1.30
22:AV:213:G:N1	22:AV:245:C:N4	1.78	1.30
25:AY:617:MET:CE	26:BA:1095:A:O2'	1.80	1.30
22:AV:189:C:C2'	22:AV:190:A:H5"	1.62	1.30
22:AV:139:C:H1'	22:AV:182:U:C5	1.67	1.29
1:AA:921:U:N3	1:AA:1396:A:C2	2.00	1.29
24:AX:20:G:O6	26:BA:2112:G:H1'	1.30	1.29
26:BA:866:A:H2'	26:BA:867:C:C5'	1.59	1.29
26:BA:887:U:O2'	26:BA:888:C:H2'	1.33	1.29
23:AW:38:LYS:CE	26:BA:1910:G:P	2.11	1.29
22:AV:46:U:H4'	22:AV:312:A:O3'	1.32	1.28
26:BA:867:C:C2'	26:BA:868:U:H5'	1.63	1.28
22:AV:137:C:C3'	22:AV:138:C:H5"	1.63	1.28
22:AV:290:A:H1'	22:AV:291:A:C8	1.67	1.28
1:AA:1539:C:C5'	21:AU:17:ARG:HG3	1.62	1.27
25:AY:636:PRO:O	33:BI:23:VAL:O	1.52	1.27
22:AV:334:A:C5'	22:AV:335:C:H42	1.48	1.27
26:BA:883:G:C4	26:BA:884:U:C5	2.21	1.27
22:AV:245:C:H3'	22:AV:248:G:N3	1.50	1.27
25:AY:635:GLU:CG	33:BI:22:PRO:HA	1.62	1.27
26:BA:910:A:N6	37:BM:12:MET:HA	1.47	1.27
22:AV:8:A:H8	22:AV:334:A:O2'	1.06	1.27
22:AV:199:C:H2'	22:AV:200:G:N7	1.49	1.27
22:AV:205:G:OP1	22:AV:225:A:C2	1.86	1.27
25:AY:626:ALA:CA	26:BA:2473:U:H1'	1.64	1.27
3:AC:79:LYS:CE	22:AV:184:A:OP2	1.81	1.27
22:AV:44:C:O2'	22:AV:45:A:H5'	1.24	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1342:C:O2'	1:AA:1343:G:H5'	1.35	1.26
22:AV:114:G:N2	22:AV:132:U:C2	2.02	1.26
22:AV:49:C:N4	22:AV:67:G:H1	1.34	1.26
3:AC:79:LYS:HE2	22:AV:184:A:OP2	1.28	1.26
22:AV:334:A:N1	23:AW:112:TYR:CB	1.85	1.25
25:AY:634:MET:SD	26:BA:1068:G:H1'	1.75	1.25
22:AV:45:A:O2'	22:AV:46:U:H5'	1.34	1.25
22:AV:34:A:H1'	22:AV:322:U:O2	1.18	1.25
22:AV:248:G:C2'	22:AV:249:U:H5'	1.66	1.25
23:AW:38:LYS:HE2	26:BA:1910:G:OP2	1.35	1.25
26:BA:894:U:C3'	26:BA:895:U:H5"	1.66	1.25
22:AV:14:G:C2	22:AV:343:C:N4	2.02	1.25
1:AA:928:G:H5'	1:AA:1503:A:N6	1.51	1.24
23:AW:45:PHE:CZ	25:AY:500:GLN:NE2	2.04	1.24
26:BA:908:C:OP1	37:BM:22:GLN:HG3	1.37	1.24
1:AA:1411:C:O2'	1:AA:1412:C:H5'	1.35	1.24
22:AV:343:C:H4'	30:BF:78:ILE:CD1	1.65	1.24
3:AC:142:ARG:HH12	22:AV:129:G:P	1.61	1.24
1:AA:1103:C:O3'	2:AB:96:LEU:HD13	1.05	1.23
1:AA:1389:C:H3'	1:AA:1390:U:C6	1.71	1.23
22:AV:40:G:C8	22:AV:317:G:H1'	1.73	1.23
22:AV:163:G:O2'	22:AV:164:G:C5'	1.83	1.23
22:AV:216:U:O2'	22:AV:217:G:H5'	1.38	1.23
22:AV:303:G:H3'	22:AV:303:G:OP2	1.37	1.23
22:AV:266:C:H2'	22:AV:267:G:C5'	1.68	1.23
22:AV:31:G:O6	22:AV:34:A:C5'	1.85	1.23
22:AV:44:C:C2'	22:AV:45:A:H8	1.48	1.23
22:AV:333:G:OP2	22:AV:335:C:N4	1.72	1.23
22:AV:34:A:C2'	22:AV:35:C:H5'	1.69	1.22
22:AV:40:G:C8	22:AV:317:G:C1'	2.22	1.22
22:AV:267:G:O2'	22:AV:268:U:H5'	1.35	1.22
22:AV:290:A:C4'	22:AV:291:A:H5'	1.69	1.22
2:AB:104:LYS:NZ	22:AV:121:A:C5'	2.02	1.22
22:AV:21:C:O2'	22:AV:22:G:H5'	1.40	1.22
22:AV:309:A:H4'	22:AV:310:G:O4'	1.39	1.22
22:AV:324:G:N2	22:AV:325:G:C6	2.08	1.22
24:AX:77:A:H3'	26:BA:2422:C:O2	1.40	1.22
26:BA:883:G:O2'	26:BA:884:U:H5'	1.36	1.22
22:AV:165:A:H4'	22:AV:166:C:C6	1.73	1.22
23:AW:38:LYS:CE	26:BA:1910:G:OP2	1.88	1.22
22:AV:36:C:H2'	22:AV:37:C:C6	1.75	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:61:G:H4'	22:AV:62:G:C5'	1.70	1.21
25:AY:637:ARG:HD3	33:BI:25:PRO:CD	1.64	1.21
1:AA:1390:U:O2'	1:AA:1391:U:H5'	1.36	1.21
22:AV:61:G:C4'	22:AV:62:G:H5'	1.69	1.21
22:AV:14:G:N2	22:AV:343:C:N3	1.89	1.20
23:AW:38:LYS:CG	26:BA:1910:G:C3'	2.19	1.20
22:AV:31:G:C6	22:AV:34:A:H5"	1.75	1.20
26:BA:875:G:O2'	26:BA:876:C:H5'	1.38	1.20
26:BA:891:G:H2'	26:BA:892:A:C8	1.74	1.20
22:AV:194:G:O2'	22:AV:195:A:H5'	1.36	1.20
22:AV:334:A:C2	23:AW:112:TYR:HA	1.77	1.20
22:AV:52:G:N2	22:AV:72:A:H61	1.40	1.20
22:AV:158:U:O4'	22:AV:197:A:N1	1.75	1.20
26:BA:887:U:H1'	26:BA:888:C:C5'	1.71	1.20
22:AV:13:G:N2	22:AV:344:A:C6	2.10	1.19
22:AV:48:C:H2'	22:AV:49:C:C4'	1.72	1.19
22:AV:345:A:C6	22:AV:348:C:C4	2.29	1.19
22:AV:137:C:C4	22:AV:138:C:C5	2.30	1.19
22:AV:175:A:H2'	22:AV:176:G:H5'	1.24	1.19
26:BA:878:A:O2'	26:BA:879:G:H5'	1.42	1.19
22:AV:132:U:H2'	22:AV:133:A:H5'	1.25	1.19
1:AA:918:A:H2'	1:AA:919:A:C8	1.78	1.18
22:AV:14:G:N2	22:AV:343:C:N4	1.92	1.18
22:AV:163:G:N3	22:AV:164:G:C8	2.11	1.18
22:AV:343:C:C4'	30:BF:78:ILE:HD12	1.71	1.18
26:BA:890:C:O5'	26:BA:891:G:H5'	1.37	1.18
22:AV:244:G:H2'	22:AV:245:C:O4'	1.40	1.18
22:AV:163:G:C2'	22:AV:164:G:C5'	2.22	1.18
22:AV:218:G:O2'	22:AV:219:G:H5'	1.44	1.18
22:AV:46:U:H2'	22:AV:47:G:C8	1.79	1.17
22:AV:17:U:C2	22:AV:334:A:N6	2.12	1.17
22:AV:165:A:H5'	22:AV:166:C:N1	1.58	1.17
22:AV:244:G:H2'	22:AV:245:C:C4'	1.74	1.17
22:AV:310:G:O2'	22:AV:311:U:C6	1.98	1.17
1:AA:1339:A:C2	24:AX:32:G:H4'	1.78	1.17
9:AI:129:ARG:NH1	24:AX:36:A:H5"	1.58	1.17
22:AV:21:C:N4	22:AV:332:G:H1	1.41	1.17
22:AV:165:A:C4'	22:AV:166:C:C6	2.28	1.17
22:AV:174:A:O2'	22:AV:175:A:H5'	1.41	1.17
22:AV:60:U:H2'	22:AV:62:G:C4'	1.74	1.17
22:AV:114:G:N2	22:AV:132:U:O2	1.75	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:32:G:H1	24:AX:40:C:N4	1.43	1.17
22:AV:158:U:C1'	22:AV:197:A:N1	2.05	1.17
1:AA:922:G:N3	1:AA:1398:A:N3	1.87	1.16
22:AV:20:A:C3'	22:AV:21:C:C5	2.28	1.16
22:AV:28:U:C2'	22:AV:29:G:C8	2.28	1.16
22:AV:193:A:O2'	22:AV:194:G:H5'	1.45	1.16
22:AV:343:C:OP1	30:BF:79:ARG:HA	1.41	1.16
26:BA:866:A:C8	26:BA:914:G:C6	2.33	1.16
26:BA:894:U:H2'	26:BA:895:U:C4'	1.74	1.16
22:AV:20:A:O2'	22:AV:21:C:H5'	1.44	1.16
22:AV:67:G:N2	22:AV:303:G:N7	1.92	1.16
26:BA:876:C:H2'	26:BA:877:A:N7	1.60	1.16
26:BA:2092:U:C4'	26:BA:2093:G:OP1	1.94	1.16
26:BA:889:C:H2'	26:BA:891:G:C4	1.80	1.16
24:AX:77:A:H2'	26:BA:2422:C:N3	1.60	1.16
26:BA:889:C:H2'	26:BA:891:G:N9	1.56	1.16
1:AA:1412:C:O2'	1:AA:1413:A:H5'	1.41	1.16
22:AV:210:C:C2'	22:AV:240:U:C5	2.24	1.16
22:AV:210:C:C2	22:AV:240:U:O4	1.99	1.16
22:AV:271:G:O2'	22:AV:272:C:H5'	1.41	1.16
22:AV:183:C:H4'	22:AV:184:A:OP1	1.41	1.15
22:AV:323:A:C2'	22:AV:324:G:H8	1.58	1.15
22:AV:343:C:P	30:BF:79:ARG:HA	1.86	1.15
1:AA:1387:G:C2'	1:AA:1388:C:H5'	1.75	1.15
22:AV:38:A:H4'	22:AV:39:A:OP1	1.37	1.15
22:AV:229:U:H4'	22:AV:230:U:OP1	1.38	1.15
26:BA:878:A:C2'	26:BA:879:G:H5'	1.74	1.15
1:AA:1389:C:C3'	1:AA:1390:U:C5	2.30	1.15
22:AV:290:A:C1'	22:AV:291:A:C8	2.30	1.15
22:AV:306:U:H2'	22:AV:307:G:H8	1.01	1.15
25:AY:635:GLU:HB3	33:BI:22:PRO:C	1.71	1.15
1:AA:1539:C:O5'	21:AU:17:ARG:CG	1.92	1.15
22:AV:14:G:N2	22:AV:343:C:C4	2.14	1.15
22:AV:16:U:O2'	22:AV:18:C:C5'	1.95	1.15
22:AV:175:A:C2'	22:AV:176:G:H5'	1.76	1.15
22:AV:257:U:C2	22:AV:258:G:C2	2.34	1.15
23:AW:38:LYS:HG2	26:BA:1911:U:P	1.86	1.15
26:BA:877:A:H2'	26:BA:878:A:C5'	1.76	1.15
12:AL:76:HIS:CG	25:AY:421:GLN:OE1	1.99	1.14
22:AV:52:G:H21	22:AV:72:A:N6	1.44	1.14
22:AV:311:U:O2'	22:AV:312:A:H5'	1.42	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:928:G:H5'	1:AA:1503:A:H62	1.02	1.14
25:AY:626:ALA:HB2	26:BA:2473:U:N1	1.62	1.14
22:AV:49:C:N3	22:AV:303:G:C6	2.14	1.14
22:AV:63:C:C2'	22:AV:64:C:H5'	1.75	1.14
22:AV:298:A:H2'	22:AV:299:C:O4'	1.45	1.14
22:AV:311:U:C2'	22:AV:312:A:H5'	1.77	1.14
26:BA:880:G:O2'	26:BA:881:G:H5'	1.48	1.14
26:BA:2194:U:O2'	26:BA:2195:U:H5'	1.42	1.14
22:AV:199:C:C2'	22:AV:200:G:C8	2.31	1.14
22:AV:48:C:C2'	22:AV:49:C:C5'	2.13	1.13
22:AV:210:C:O2	22:AV:240:U:C4	2.00	1.13
26:BA:879:G:H2'	26:BA:880:G:C5'	1.78	1.13
22:AV:44:C:C2'	22:AV:45:A:C8	2.31	1.13
22:AV:49:C:C2	22:AV:303:G:N1	2.15	1.13
22:AV:265:C:O2'	22:AV:266:C:H5'	1.45	1.13
22:AV:320:U:H1'	22:AV:321:G:OP1	1.49	1.13
9:AI:129:ARG:NH2	24:AX:36:A:OP1	1.82	1.13
22:AV:139:C:C1'	22:AV:182:U:C5	2.31	1.13
22:AV:155:C:C2'	22:AV:156:G:H5'	1.77	1.13
23:AW:38:LYS:HG2	26:BA:1910:G:O3'	1.49	1.13
22:AV:59:U:O2'	22:AV:60:U:H5'	1.46	1.13
22:AV:324:G:N2	22:AV:325:G:C5	2.17	1.12
22:AV:33:A:N9	22:AV:35:C:OP1	1.81	1.12
1:AA:928:G:O2'	1:AA:1533:C:P	2.06	1.12
1:AA:1100:C:H41	2:AB:94:ARG:HD2	1.15	1.12
9:AI:129:ARG:HH12	24:AX:36:A:C5'	1.62	1.12
22:AV:131:U:H4'	22:AV:132:U:OP2	1.39	1.12
25:AY:157:LEU:H	25:AY:157:LEU:HD23	1.12	1.12
1:AA:1313:U:OP2	19:AS:5:LYS:HB3	1.49	1.12
22:AV:39:A:H2'	22:AV:40:G:H5'	1.12	1.12
26:BA:866:A:C6	26:BA:867:C:C5	2.38	1.12
1:AA:921:U:H1'	5:AE:23:THR:O	1.50	1.12
22:AV:249:U:O2'	22:AV:250:U:H5'	1.44	1.12
22:AV:256:G:C6	22:AV:273:A:N1	2.17	1.12
22:AV:285:A:C2'	22:AV:286:A:H5"	1.78	1.12
1:AA:1494:G:C1'	26:BA:1913:A:H2	1.63	1.11
22:AV:14:G:N2	22:AV:343:C:H42	1.47	1.11
22:AV:163:G:C2	22:AV:164:G:C8	2.37	1.11
22:AV:261:G:H4'	22:AV:262:U:OP1	1.50	1.11
26:BA:910:A:H62	37:BM:12:MET:CA	1.60	1.11
1:AA:1103:C:O3'	2:AB:96:LEU:CD1	1.97	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:14:G:H4'	22:AV:15:A:OP1	1.43	1.11
22:AV:34:A:H2'	22:AV:35:C:H5'	1.23	1.11
23:AW:38:LYS:CD	26:BA:1911:U:OP2	1.97	1.11
1:AA:928:G:O2'	1:AA:1532:U:O3'	1.69	1.11
22:AV:171:A:O2'	22:AV:172:U:H5'	1.48	1.11
22:AV:191:A:C3'	22:AV:192:A:H5"	1.79	1.11
22:AV:248:G:H2'	22:AV:249:U:H5'	1.32	1.11
22:AV:285:A:H2'	22:AV:286:A:C5'	1.79	1.11
22:AV:344:A:H4'	30:BF:76:PHE:N	1.66	1.11
23:AW:38:LYS:HG3	26:BA:1910:G:H3'	1.24	1.11
26:BA:876:C:H2'	26:BA:877:A:C5	1.84	1.11
22:AV:44:C:C4	22:AV:263:G:N2	2.19	1.11
22:AV:132:U:C2'	22:AV:133:A:H5'	1.80	1.11
22:AV:174:A:H2'	22:AV:175:A:C8	1.86	1.11
22:AV:269:C:C2'	22:AV:270:C:H5'	1.80	1.10
22:AV:323:A:C2'	22:AV:324:G:C8	2.30	1.10
1:AA:368:U:OP1	25:AY:353:ALA:CB	1.99	1.10
22:AV:67:G:N2	22:AV:303:G:C5	2.20	1.10
24:AX:71:G:H21	26:BA:1851:U:H5'	1.04	1.10
22:AV:116:A:H2'	22:AV:117:G:H5"	1.31	1.10
22:AV:303:G:H2'	22:AV:304:C:C6	1.86	1.10
25:AY:633:GLY:HA3	26:BA:1067:A:H2'	1.19	1.10
26:BA:875:G:H1	26:BA:902:C:N4	1.48	1.10
26:BA:2092:U:H4'	26:BA:2093:G:OP1	1.46	1.10
1:AA:922:G:N2	1:AA:1398:A:C4	2.20	1.10
1:AA:1100:C:H41	2:AB:94:ARG:CD	1.63	1.10
22:AV:17:U:H1'	22:AV:334:A:N6	1.67	1.10
22:AV:142:U:O2'	22:AV:143:C:H5'	1.49	1.10
22:AV:266:C:C5	22:AV:267:G:C8	2.39	1.10
26:BA:867:C:H2'	26:BA:868:U:H5'	1.12	1.10
26:BA:2092:U:C3'	26:BA:2093:G:OP1	1.99	1.10
25:AY:85:PRO:HA	25:AY:94:VAL:HG22	1.29	1.09
26:BA:895:U:H2'	26:BA:896:A:N7	1.66	1.09
1:AA:1531:A:H2'	1:AA:1532:U:C5'	1.81	1.09
22:AV:187:C:H2'	22:AV:188:C:H5"	1.21	1.09
22:AV:303:G:O2'	22:AV:304:C:H5'	1.49	1.09
26:BA:903:C:H2'	26:BA:904:G:C5'	1.82	1.09
1:AA:1097:C:C5'	1:AA:1170:A:H4'	1.63	1.09
1:AA:1100:C:N4	2:AB:94:ARG:CD	2.13	1.09
9:AI:129:ARG:HH12	24:AX:36:A:H5"	0.93	1.09
22:AV:63:C:C2	22:AV:73:A:C2	2.41	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:68:U:O4	22:AV:303:G:N7	1.84	1.09
22:AV:163:G:H2'	22:AV:164:G:H5'	1.11	1.09
22:AV:269:C:H2'	22:AV:270:C:H5'	1.16	1.09
24:AX:77:A:H2'	26:BA:2422:C:C2	1.87	1.09
22:AV:5:C:C2'	22:AV:6:U:H5'	1.80	1.09
22:AV:15:A:O2'	22:AV:331:C:OP1	1.68	1.09
22:AV:60:U:C2'	22:AV:62:G:H4'	1.81	1.09
22:AV:269:C:C2'	22:AV:270:C:C5'	2.30	1.09
23:AW:55:LEU:HD11	23:AW:102:PRO:HG3	1.20	1.09
25:AY:281:PRO:HB2	25:AY:286:ILE:HD11	1.33	1.09
22:AV:48:C:C3'	22:AV:49:C:C5'	2.29	1.09
22:AV:155:C:H2'	22:AV:156:G:H5'	1.35	1.09
22:AV:306:U:H2'	22:AV:307:G:C8	1.87	1.09
26:BA:871:U:O2'	37:BM:68:PHE:CD1	2.05	1.09
26:BA:895:U:H2'	26:BA:896:A:C8	1.88	1.09
26:BA:2193:G:O2'	26:BA:2194:U:H5'	1.51	1.09
22:AV:139:C:C1'	22:AV:182:U:C6	2.36	1.08
26:BA:909:A:H4'	26:BA:910:A:OP1	1.39	1.08
22:AV:31:G:O6	22:AV:34:A:H5"	0.91	1.08
26:BA:903:C:H2'	26:BA:904:G:H5'	1.28	1.08
26:BA:2096:C:OP2	32:BH:11:ASN:ND2	1.86	1.08
22:AV:45:A:O2'	22:AV:312:A:O2'	1.64	1.08
26:BA:887:U:C1'	26:BA:888:C:C5'	2.30	1.08
1:AA:921:U:O2	5:AE:23:THR:HG22	1.53	1.08
22:AV:248:G:O2'	22:AV:249:U:H5'	1.52	1.08
1:AA:917:G:C6	1:AA:918:A:C6	2.42	1.07
22:AV:61:G:H4'	22:AV:62:G:H5'	1.13	1.07
22:AV:343:C:OP1	30:BF:79:ARG:CA	2.02	1.07
24:AX:62:C:H3'	24:AX:63:C:H5"	1.15	1.07
1:AA:1104:G:P	2:AB:96:LEU:HD13	1.95	1.07
22:AV:322:U:H2'	22:AV:323:A:N7	1.66	1.07
23:AW:38:LYS:HG3	26:BA:1910:G:C3'	1.67	1.07
25:AY:490:PRO:HG3	25:AY:516:PRO:HD2	1.35	1.07
26:BA:877:A:C2'	26:BA:878:A:C5'	2.30	1.07
22:AV:205:G:P	22:AV:225:A:C2	2.48	1.07
26:BA:879:G:C2'	26:BA:880:G:C5'	2.30	1.07
26:BA:880:G:C2'	26:BA:881:G:H5'	1.85	1.07
1:AA:1103:C:H4'	2:AB:96:LEU:HB3	1.17	1.07
22:AV:63:C:H2'	22:AV:64:C:H5'	1.12	1.07
24:AX:71:G:N2	26:BA:1851:U:H5'	1.69	1.07
26:BA:899:A:H4'	26:BA:900:A:OP1	1.53	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1389:C:C3'	1:AA:1390:U:C6	2.38	1.06
22:AV:33:A:C8	22:AV:35:C:OP1	2.07	1.06
22:AV:44:C:H2'	22:AV:45:A:C8	1.89	1.06
22:AV:137:C:C5	22:AV:138:C:C5	2.42	1.06
22:AV:173:C:O2'	22:AV:174:A:H5'	1.55	1.06
22:AV:188:C:H2'	22:AV:189:C:H5'	1.30	1.06
22:AV:243:G:O2'	22:AV:244:G:H5'	1.54	1.06
22:AV:249:U:H2'	22:AV:250:U:C6	1.90	1.06
22:AV:322:U:C2'	22:AV:323:A:C8	2.37	1.06
1:AA:1539:C:H5"	21:AU:17:ARG:HG3	1.24	1.06
1:AA:1097:C:H5'	1:AA:1170:A:H4'	1.31	1.06
22:AV:13:G:C2'	22:AV:14:G:C8	2.37	1.06
22:AV:153:U:H4'	22:AV:154:C:OP2	1.56	1.06
22:AV:180:G:H2'	22:AV:181:G:H1'	1.13	1.06
26:BA:869:G:H2'	26:BA:870:U:H6	1.17	1.06
22:AV:188:C:N3	22:AV:189:C:H5	1.54	1.06
26:BA:883:G:H2'	26:BA:884:U:H6	1.19	1.06
22:AV:344:A:C4'	30:BF:76:PHE:N	2.19	1.05
22:AV:8:A:N7	22:AV:334:A:C2'	1.98	1.05
22:AV:17:U:N1	22:AV:334:A:N6	2.03	1.05
22:AV:185:A:C2'	22:AV:186:A:C5	2.38	1.05
22:AV:310:G:C2'	22:AV:311:U:C5	2.38	1.05
22:AV:334:A:N1	23:AW:112:TYR:CA	2.18	1.05
22:AV:38:A:H1'	22:AV:39:A:H8	1.15	1.05
22:AV:265:C:C2'	22:AV:266:C:H5'	1.87	1.05
22:AV:334:A:H5'	22:AV:335:C:C4	1.90	1.05
26:BA:908:C:OP1	37:BM:22:GLN:CG	2.03	1.05
22:AV:166:C:H2'	22:AV:167:G:H8	1.18	1.05
25:AY:635:GLU:HG2	33:BI:22:PRO:CA	1.84	1.05
26:BA:892:A:O2'	26:BA:893:C:H5'	1.57	1.05
22:AV:256:G:H2'	22:AV:258:G:O6	1.53	1.05
22:AV:270:C:O2'	22:AV:271:G:H5'	1.55	1.05
25:AY:634:MET:CG	26:BA:1068:G:H1'	1.86	1.05
26:BA:883:G:N3	26:BA:884:U:C6	2.24	1.05
3:AC:142:ARG:CG	3:AC:142:ARG:HH11	1.70	1.04
22:AV:8:A:H8	22:AV:334:A:C2'	1.39	1.04
22:AV:44:C:O2'	22:AV:45:A:C5'	2.05	1.04
22:AV:60:U:H2'	22:AV:62:G:H4'	1.09	1.04
22:AV:345:A:N6	22:AV:348:C:N3	2.04	1.04
26:BA:897:C:H2'	26:BA:898:C:C6	1.92	1.04
22:AV:266:C:C3'	22:AV:267:G:H5"	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:269:C:C4	22:AV:270:C:C5	2.44	1.04
22:AV:343:C:C5	30:BF:79:ARG:HB2	1.89	1.04
25:AY:637:ARG:CD	33:BI:25:PRO:HD3	1.87	1.04
1:AA:1079:G:C5	1:AA:1080:A:C6	2.46	1.04
1:AA:1107:C:P	3:AC:171:ARG:NH1	2.30	1.04
22:AV:14:G:H1	22:AV:343:C:N4	1.38	1.04
22:AV:128:U:H2'	22:AV:129:G:O4'	1.56	1.04
22:AV:315:G:C5	22:AV:316:A:N6	2.24	1.04
25:AY:626:ALA:HB2	26:BA:2473:U:O4'	1.55	1.04
26:BA:891:G:H2'	26:BA:892:A:H8	0.91	1.04
22:AV:5:C:H2'	22:AV:6:U:H5'	1.33	1.04
22:AV:224:A:O2'	22:AV:225:A:H8	1.40	1.04
26:BA:880:G:O2'	26:BA:899:A:N6	1.91	1.04
22:AV:38:A:H1'	22:AV:39:A:C8	1.91	1.04
22:AV:56:C:H2'	22:AV:57:G:H8	1.16	1.04
22:AV:189:C:H2'	22:AV:190:A:C5'	1.87	1.04
22:AV:225:A:C2	22:AV:226:G:C5	2.46	1.04
22:AV:290:A:C4'	22:AV:291:A:C5'	2.30	1.04
22:AV:345:A:OP2	30:BF:74:ALA:HB1	1.57	1.04
26:BA:866:A:C2'	26:BA:867:C:H5'	1.87	1.04
1:AA:922:G:C2	1:AA:1398:A:C4	2.46	1.03
3:AC:142:ARG:HH11	3:AC:142:ARG:HG2	1.18	1.03
22:AV:35:C:O2'	22:AV:36:C:H5'	1.58	1.03
22:AV:44:C:N4	22:AV:300:U:C5	2.25	1.03
22:AV:66:C:H1'	22:AV:70:A:C2	1.92	1.03
22:AV:180:G:C2'	22:AV:181:G:C1'	2.37	1.03
22:AV:196:G:N2	22:AV:197:A:H62	1.55	1.03
22:AV:212:U:O2'	22:AV:213:G:H3'	1.58	1.03
22:AV:257:U:H4'	22:AV:258:G:OP1	1.58	1.03
22:AV:290:A:H4'	22:AV:291:A:O5'	1.53	1.03
24:AX:52:C:H2'	24:AX:53:G:C8	1.92	1.03
1:AA:1081:A:H5'	5:AE:22:LYS:NZ	1.72	1.03
22:AV:44:C:C2	22:AV:263:G:N2	2.24	1.03
22:AV:239:A:H3'	22:AV:240:U:H5"	1.04	1.03
22:AV:9:U:H4'	22:AV:10:U:OP1	1.57	1.03
22:AV:32:A:H4'	22:AV:33:A:OP1	1.59	1.03
22:AV:334:A:N1	23:AW:112:TYR:HB3	1.26	1.03
23:AW:85:GLU:O	23:AW:89:LEU:HD21	1.57	1.03
1:AA:55:A:N1	25:AY:321:TYR:O	1.92	1.03
1:AA:918:A:H2'	1:AA:919:A:H8	0.86	1.03
22:AV:17:U:C1'	22:AV:334:A:N6	2.22	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:133:A:H2'	22:AV:134:G:H8	1.21	1.03
22:AV:344:A:H4'	30:BF:75:GLY:C	1.78	1.03
24:AX:33:C:O2	24:AX:39:A:N6	1.91	1.03
26:BA:866:A:O4'	26:BA:914:G:C2	2.12	1.03
22:AV:71:A:H2'	22:AV:72:A:C8	1.94	1.03
22:AV:205:G:OP1	22:AV:225:A:H2	1.30	1.03
22:AV:303:G:H3'	22:AV:303:G:P	1.98	1.03
24:AX:20:G:C6	26:BA:2112:G:H1'	1.92	1.03
22:AV:17:U:H5'	22:AV:19:G:OP2	1.59	1.02
22:AV:39:A:H2'	22:AV:40:G:C5'	1.89	1.02
22:AV:160:U:H2'	22:AV:161:U:H6	1.21	1.02
22:AV:137:C:P	22:AV:138:C:H5'	1.98	1.02
22:AV:303:G:H2'	22:AV:304:C:H6	1.12	1.02
1:AA:1081:A:C5'	5:AE:22:LYS:CE	1.98	1.02
1:AA:1096:C:O2'	1:AA:1170:A:O2'	1.76	1.02
22:AV:8:A:C8	22:AV:334:A:O2'	1.86	1.02
22:AV:158:U:H2'	22:AV:159:C:C6	1.95	1.02
24:AX:20:G:O6	26:BA:2112:G:C1'	2.07	1.02
25:AY:636:PRO:O	33:BI:25:PRO:HD2	0.84	1.02
26:BA:911:A:C6	37:BM:9:PHE:CG	2.47	1.02
22:AV:13:G:C2	22:AV:344:A:C6	2.48	1.02
22:AV:16:U:O2'	22:AV:18:C:H5"	1.53	1.02
22:AV:45:A:HO2'	22:AV:46:U:C5'	1.71	1.02
22:AV:185:A:C2'	22:AV:186:A:C4	2.43	1.02
24:AX:34:U:O2	24:AX:37:U:H5	1.43	1.02
1:AA:1387:G:H2'	1:AA:1388:C:H5'	1.38	1.02
1:AA:1494:G:C1'	26:BA:1913:A:C2	2.38	1.02
22:AV:166:C:H2'	22:AV:167:G:C8	1.95	1.02
22:AV:193:A:C2'	22:AV:194:G:H5'	1.89	1.02
22:AV:296:U:C2'	22:AV:297:G:C8	2.40	1.01
23:AW:89:LEU:HD23	23:AW:89:LEU:H	1.24	1.01
25:AY:658:ASP:CG	31:BG:176:LYS:HE2	1.84	1.01
12:AL:76:HIS:NE2	25:AY:421:GLN:HG2	1.74	1.01
22:AV:136:G:O2'	22:AV:137:C:H5'	1.60	1.01
22:AV:191:A:H3'	22:AV:192:A:C5'	1.89	1.01
23:AW:5:LEU:HG	23:AW:105:ILE:HD11	1.41	1.01
25:AY:644:ARG:NH2	26:BA:1067:A:C4'	1.89	1.01
26:BA:866:A:C2'	26:BA:867:C:C5'	2.37	1.01
25:AY:423:LYS:HB3	25:AY:472:VAL:HG22	1.41	1.01
22:AV:21:C:O2	23:AW:78:LYS:NZ	1.88	1.01
22:AV:33:A:C1'	22:AV:35:C:OP1	2.09	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:163:G:H2'	22:AV:164:G:C5'	1.88	1.01
22:AV:187:C:C2'	22:AV:188:C:H5"	1.90	1.01
22:AV:310:G:H2'	22:AV:311:U:C5	1.94	1.01
25:AY:617:MET:HE3	26:BA:1095:A:O4'	1.58	1.01
2:AB:104:LYS:HZ3	22:AV:121:A:C5'	1.66	1.00
22:AV:17:U:O2'	23:AW:114:LYS:HE2	1.60	1.00
22:AV:210:C:O2'	22:AV:240:U:H5	1.44	1.00
22:AV:266:C:C2'	22:AV:267:G:C5'	2.31	1.00
22:AV:174:A:H2'	22:AV:175:A:H8	1.19	1.00
22:AV:266:C:C3'	22:AV:267:G:C5'	2.39	1.00
22:AV:334:A:C2	23:AW:112:TYR:CA	2.44	1.00
1:AA:921:U:C4	1:AA:1396:A:N1	2.30	1.00
1:AA:1081:A:H5"	5:AE:22:LYS:HE2	1.41	1.00
22:AV:16:U:O2'	22:AV:18:C:O5'	1.77	1.00
22:AV:173:C:C2'	22:AV:174:A:H5'	1.91	1.00
22:AV:188:C:N3	22:AV:189:C:C5	2.30	1.00
22:AV:343:C:C4'	30:BF:73:VAL:H	1.72	1.00
25:AY:409:ILE:HD11	25:AY:654:GLY:HA2	1.44	1.00
1:AA:939:G:C5	1:AA:940:C:N4	2.30	1.00
3:AC:79:LYS:CE	22:AV:184:A:P	2.47	1.00
22:AV:185:A:C5	22:AV:186:A:N6	2.30	1.00
24:AX:49:C:H4'	24:AX:50:G:H5"	1.43	1.00
26:BA:903:C:O2'	26:BA:904:G:H5"	1.60	1.00
1:AA:939:G:C6	1:AA:940:C:N4	2.30	1.00
1:AA:922:G:C4	1:AA:1398:A:H2	1.63	1.00
1:AA:1098:C:H1'	1:AA:1169:A:H2	1.26	1.00
25:AY:634:MET:SD	26:BA:1068:G:C1'	2.49	1.00
1:AA:55:A:C2	25:AY:321:TYR:C	2.40	0.99
22:AV:62:G:N2	22:AV:64:C:C5	2.30	0.99
22:AV:345:A:C5	22:AV:348:C:C4	2.50	0.99
23:AW:38:LYS:NZ	26:BA:1910:G:OP2	1.93	0.99
25:AY:546:ILE:HG23	25:AY:590:ILE:HG13	1.40	0.99
1:AA:1531:A:C2'	1:AA:1532:U:C5'	2.38	0.99
22:AV:39:A:N6	22:AV:40:G:C6	2.30	0.99
22:AV:171:A:C2'	22:AV:172:U:H5'	1.93	0.99
22:AV:268:U:H2'	22:AV:269:C:C6	1.98	0.99
22:AV:46:U:C4'	22:AV:312:A:O3'	2.09	0.99
22:AV:150:G:N2	22:AV:151:C:H1'	1.76	0.99
25:AY:276:VAL:HA	25:AY:280:LEU:HD23	1.45	0.99
25:AY:616:TYR:C	26:BA:1095:A:OP1	2.04	0.99
22:AV:19:G:N2	23:AW:81:LEU:HD12	1.78	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:617:MET:HE3	26:BA:1095:A:C1'	1.90	0.99
12:AL:35:ARG:HH22	25:AY:418:LYS:HE3	1.27	0.99
22:AV:62:G:C2	22:AV:63:C:N4	2.30	0.99
22:AV:62:G:N2	22:AV:64:C:C4	2.30	0.99
22:AV:160:U:H2'	22:AV:161:U:C6	1.97	0.99
23:AW:45:PHE:HA	23:AW:102:PRO:HD3	1.43	0.99
1:AA:1096:C:C2'	1:AA:1170:A:HO2'	1.76	0.99
1:AA:1538:C:C2'	1:AA:1539:C:H5'	1.92	0.99
22:AV:137:C:N4	22:AV:138:C:C4	2.30	0.99
22:AV:225:A:N3	22:AV:226:G:C8	2.31	0.99
25:AY:428:LEU:HD13	25:AY:440:VAL:HG11	1.42	0.98
1:AA:918:A:C4	1:AA:919:A:N7	2.31	0.98
22:AV:243:G:C2'	22:AV:244:G:H5'	1.92	0.98
22:AV:40:G:C6	22:AV:316:A:C2	2.51	0.98
26:BA:910:A:H62	37:BM:12:MET:HA	0.95	0.98
22:AV:38:A:O2'	22:AV:39:A:C8	2.15	0.98
25:AY:84:THR:H	25:AY:85:PRO:HD2	1.27	0.98
25:AY:644:ARG:NH2	26:BA:1067:A:H4'	1.54	0.98
22:AV:12:U:C5	22:AV:348:C:H1'	1.99	0.98
22:AV:48:C:H2'	22:AV:49:C:H5"	1.01	0.98
22:AV:156:G:C6	22:AV:157:C:N4	2.31	0.98
22:AV:158:U:H2'	22:AV:159:C:H6	1.27	0.98
22:AV:264:U:O2	22:AV:298:A:C2	2.16	0.98
22:AV:310:G:N3	22:AV:311:U:O4	1.96	0.98
26:BA:885:C:OP2	26:BA:886:A:C6	2.17	0.98
25:AY:638:GLY:O	33:BI:25:PRO:C	2.06	0.98
26:BA:889:C:H3'	26:BA:889:C:O2	1.63	0.98
42:BR:42:ALA:HA	42:BR:46:GLU:HB2	1.45	0.98
1:AA:55:A:C2	25:AY:321:TYR:HA	1.97	0.98
1:AA:1539:C:C5'	21:AU:17:ARG:CG	2.41	0.98
22:AV:290:A:H4'	22:AV:291:A:H5'	0.98	0.98
1:AA:1389:C:C2	1:AA:1390:U:N3	2.31	0.98
22:AV:8:A:H3'	22:AV:8:A:N3	1.79	0.98
25:AY:626:ALA:CB	26:BA:2473:U:O4'	2.07	0.98
26:BA:868:U:C2'	26:BA:869:G:H5'	1.93	0.98
26:BA:894:U:H2'	26:BA:895:U:H5"	1.01	0.98
22:AV:263:G:O6	22:AV:299:C:N3	1.97	0.97
26:BA:887:U:H1'	26:BA:888:C:H5'	0.99	0.97
17:AQ:14:ASP:C	17:AQ:16:MET:SD	2.46	0.97
22:AV:144:U:H4'	22:AV:144:U:OP1	1.59	0.97
22:AV:136:G:H2'	22:AV:137:C:H6	1.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:185:A:C3'	22:AV:186:A:C8	2.46	0.97
22:AV:28:U:H2'	22:AV:29:G:N7	1.77	0.97
26:BA:891:G:O2'	26:BA:892:A:H5'	1.64	0.97
26:BA:910:A:N7	37:BM:12:MET:HG2	1.78	0.97
32:BH:31:VAL:HB	32:BH:32:PRO:HD2	1.45	0.97
22:AV:63:C:N1	22:AV:73:A:C2	2.32	0.97
22:AV:180:G:C2'	22:AV:181:G:H1'	1.91	0.97
26:BA:416:U:C5	26:BA:417:C:C5	2.52	0.97
1:AA:918:A:C2'	1:AA:919:A:H8	1.76	0.97
22:AV:308:U:H1'	22:AV:309:A:OP2	1.64	0.97
24:AX:62:C:C3'	24:AX:63:C:H5"	1.93	0.97
22:AV:21:C:H2'	22:AV:22:G:H8	1.28	0.97
1:AA:1103:C:C4'	2:AB:96:LEU:HB3	1.95	0.97
22:AV:34:A:C1'	22:AV:322:U:O2	2.11	0.97
22:AV:40:G:C2	22:AV:41:G:N7	2.33	0.97
22:AV:313:C:O2'	22:AV:314:C:H5'	1.64	0.97
25:AY:35:TYR:OH	25:AY:266:ASN:HB3	1.64	0.97
26:BA:866:A:O4'	26:BA:914:G:N2	1.98	0.97
37:BM:57:VAL:O	37:BM:60:GLN:HG3	1.65	0.97
22:AV:155:C:O2'	22:AV:156:G:H5'	1.63	0.97
1:AA:921:U:O4	1:AA:1396:A:C6	2.18	0.96
1:AA:1060:U:C4	3:AC:1:GLY:N	2.33	0.96
22:AV:156:G:C5	22:AV:157:C:N4	2.33	0.96
22:AV:191:A:H4'	22:AV:191:A:OP1	1.60	0.96
22:AV:272:C:H2'	22:AV:273:A:H8	1.28	0.96
26:BA:869:G:H2'	26:BA:870:U:C6	2.00	0.96
26:BA:880:G:H1	26:BA:897:C:H42	1.04	0.96
1:AA:921:U:O2	5:AE:23:THR:CG2	2.13	0.96
1:AA:1375:A:H2'	1:AA:1376:U:H5'	1.47	0.96
22:AV:225:A:C2	22:AV:226:G:C4	2.52	0.96
1:AA:395:C:H5'	25:AY:340:TYR:OH	1.64	0.96
1:AA:1098:C:H1'	1:AA:1169:A:C2	1.99	0.96
25:AY:453:GLY:HA3	25:AY:459:LEU:HD11	1.46	0.96
26:BA:2127:G:H4'	26:BA:2128:G:OP1	1.63	0.96
22:AV:245:C:H4'	22:AV:246:U:OP2	1.66	0.96
1:AA:1534:A:C5	1:AA:1535:C:C4	2.54	0.96
22:AV:39:A:C2'	22:AV:40:G:H5'	1.95	0.96
22:AV:34:A:O2'	22:AV:322:U:H1'	1.65	0.96
22:AV:186:A:H8	22:AV:186:A:OP2	1.47	0.96
22:AV:257:U:C1'	22:AV:258:G:C5	2.49	0.96
25:AY:427:ALA:HB1	25:AY:466:LEU:HD11	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:43:G:O2'	22:AV:263:G:O2'	1.83	0.96
22:AV:263:G:H3'	22:AV:264:U:C5'	1.95	0.96
26:BA:2127:G:H2'	26:BA:2128:G:C8	2.00	0.96
22:AV:59:U:C2'	22:AV:60:U:H5'	1.96	0.95
22:AV:191:A:H3'	22:AV:192:A:H5"	0.97	0.95
22:AV:290:A:C5'	22:AV:291:A:H5'	1.95	0.95
22:AV:315:G:C6	22:AV:316:A:N6	2.34	0.95
26:BA:889:C:C2	26:BA:891:G:N7	2.33	0.95
22:AV:49:C:C2	22:AV:303:G:C2	2.53	0.95
22:AV:147:C:H2'	22:AV:148:U:C6	2.01	0.95
22:AV:269:C:H2'	22:AV:270:C:H5"	1.48	0.95
26:BA:1779:U:H5	26:BA:1784:A:N7	1.63	0.95
1:AA:255:G:O6	1:AA:266:G:O6	1.85	0.95
26:BA:896:A:H1'	26:BA:897:C:H5"	1.48	0.95
23:AW:98:LEU:HD21	23:AW:119:LEU:HD22	1.45	0.95
22:AV:165:A:O4'	22:AV:166:C:C5	2.18	0.95
22:AV:228:G:O2'	22:AV:232:A:H2	1.47	0.95
22:AV:335:C:H3'	22:AV:335:C:O2	1.65	0.95
22:AV:14:G:H22	22:AV:343:C:N4	1.58	0.95
22:AV:188:C:C2	22:AV:189:C:C5	2.55	0.95
1:AA:923:A:H5'	5:AE:25:LYS:HE2	1.46	0.95
1:AA:1078:U:H3'	1:AA:1079:G:C8	2.02	0.95
22:AV:189:C:H2'	22:AV:190:A:H5"	0.96	0.95
22:AV:163:G:C4	22:AV:164:G:C8	2.55	0.95
22:AV:244:G:C4	22:AV:245:C:H1'	2.01	0.95
1:AA:55:A:N3	25:AY:321:TYR:CA	2.28	0.95
22:AV:32:A:O2'	22:AV:35:C:OP2	1.85	0.95
22:AV:334:A:H2	23:AW:113:ALA:N	1.65	0.95
26:BA:2553:G:H5"	26:BA:2554:U:OP2	1.65	0.95
22:AV:113:A:C6	22:AV:114:G:C6	2.55	0.95
22:AV:322:U:C4	22:AV:323:A:N6	2.35	0.95
23:AW:65:LYS:HG3	23:AW:66:GLY:H	1.29	0.95
26:BA:903:C:C2'	26:BA:904:G:C5'	2.43	0.95
26:BA:911:A:N6	37:BM:9:PHE:CB	2.30	0.95
1:AA:922:G:N2	1:AA:1398:A:C2'	1.87	0.94
25:AY:9:LEU:HD21	25:AY:284:LEU:HB2	1.49	0.94
22:AV:21:C:N4	22:AV:332:G:N1	2.15	0.94
22:AV:40:G:C2	22:AV:41:G:C8	2.54	0.94
22:AV:45:A:HO2'	22:AV:46:U:H5'	0.81	0.94
22:AV:271:G:C2'	22:AV:272:C:H5'	1.97	0.94
1:AA:1079:G:C2	1:AA:1080:A:C2	2.54	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:150:G:N2	22:AV:151:C:C1’	2.30	0.94
1:AA:922:G:C2	1:AA:1398:A:H2’	2.03	0.94
22:AV:194:G:H2’	22:AV:195:A:H8	1.29	0.94
25:AY:633:GLY:HA2	26:BA:1068:G:N7	1.81	0.94
22:AV:284:G:H4’	22:AV:285:A:O5’	1.68	0.94
25:AY:238:THR:HG22	25:AY:241:GLU:HG2	1.50	0.94
1:AA:1341:U:H2’	1:AA:1342:C:C5	2.03	0.94
22:AV:156:G:H2’	22:AV:157:C:C6	2.03	0.94
22:AV:307:G:O2’	22:AV:311:U:H1’	1.67	0.94
22:AV:334:A:H2	23:AW:113:ALA:H	1.04	0.94
22:AV:44:C:C2	22:AV:45:A:N7	2.35	0.94
1:AA:1342:C:C2’	1:AA:1343:G:H5’	1.98	0.94
22:AV:13:G:C2	22:AV:344:A:N1	2.35	0.94
22:AV:46:U:N3	22:AV:305:A:N1	2.15	0.94
22:AV:63:C:N3	22:AV:73:A:C6	2.36	0.94
22:AV:137:C:N4	22:AV:138:C:C5	2.35	0.94
22:AV:210:C:H2’	22:AV:240:U:C4	2.02	0.94
22:AV:345:A:C6	22:AV:348:C:N3	2.36	0.94
25:AY:633:GLY:HA2	26:BA:1068:G:N9	1.83	0.94
26:BA:877:A:O2’	26:BA:878:A:H5’	1.67	0.94
2:AB:49:PHE:HA	2:AB:52:ALA:HB3	1.49	0.94
22:AV:116:A:C2	22:AV:129:G:C2	2.56	0.94
22:AV:222:U:OP1	22:AV:236:U:N3	2.01	0.94
1:AA:1375:A:C2’	1:AA:1376:U:H5’	1.97	0.94
22:AV:64:C:O2	22:AV:72:A:N1	2.00	0.94
26:BA:876:C:C2’	26:BA:877:A:N7	2.30	0.94
1:AA:928:G:C5’	1:AA:1503:A:N6	2.30	0.93
1:AA:1077:G:H2’	1:AA:1079:G:N7	1.81	0.93
1:AA:1100:C:C5	2:AB:94:ARG:NE	2.33	0.93
1:AA:1142:G:C2	1:AA:1143:G:H1’	2.03	0.93
1:AA:1341:U:H2’	1:AA:1342:C:C6	2.02	0.93
24:AX:1:C:HO5’	24:AX:1:C:H6	1.08	0.93
22:AV:147:C:H2’	22:AV:148:U:H6	1.31	0.93
22:AV:210:C:C2	22:AV:240:U:C4	2.53	0.93
1:AA:1534:A:C6	1:AA:1535:C:N3	2.37	0.93
12:AL:32:VAL:HG21	25:AY:422:GLU:HG2	1.48	0.93
24:AX:71:G:N2	26:BA:1851:U:C5’	2.31	0.93
22:AV:12:U:H4’	22:AV:13:G:C8	2.03	0.93
22:AV:35:C:H2’	22:AV:36:C:C6	2.04	0.93
22:AV:39:A:C5	22:AV:40:G:C5	2.57	0.93
26:BA:903:C:C2’	26:BA:904:G:H5”	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1079:G:C6	1:AA:1080:A:N1	2.35	0.93
2:AB:82:ALA:HA	2:AB:85:SER:OG	1.68	0.93
22:AV:46:U:H2'	22:AV:47:G:H8	1.18	0.93
22:AV:200:G:N2	22:AV:230:U:C4	2.35	0.93
25:AY:113:GLY:C	25:AY:115:GLU:H	1.75	0.93
1:AA:15:G:H8	1:AA:1396:A:O2'	1.49	0.93
3:AC:142:ARG:NH1	22:AV:129:G:P	2.34	0.93
22:AV:56:C:O2'	22:AV:57:G:C5'	2.17	0.93
22:AV:158:U:O4'	22:AV:197:A:H2	1.33	0.93
22:AV:315:G:H1'	22:AV:316:A:C8	2.03	0.93
23:AW:38:LYS:CG	26:BA:1910:G:H3'	1.88	0.93
22:AV:136:G:N3	22:AV:137:C:C6	2.36	0.93
22:AV:345:A:C5	22:AV:348:C:N4	2.35	0.93
23:AW:5:LEU:HD12	23:AW:5:LEU:O	1.69	0.93
24:AX:53:G:H1	24:AX:63:C:H42	1.06	0.93
26:BA:894:U:C2'	26:BA:895:U:C5'	2.26	0.93
26:BA:1179:G:C5	26:BA:1180:U:H1'	2.04	0.93
1:AA:1124:G:H3'	1:AA:1145:A:N6	1.83	0.93
22:AV:21:C:H42	22:AV:332:G:H1	1.01	0.93
22:AV:202:G:H22	22:AV:233:A:H62	1.16	0.93
22:AV:257:U:H1'	22:AV:258:G:C4	2.03	0.93
26:BA:1131:G:OP1	34:BJ:82:GLY:HA2	1.68	0.93
22:AV:62:G:N3	22:AV:63:C:C4	2.37	0.93
22:AV:116:A:C2'	22:AV:117:G:H5"	1.98	0.93
26:BA:867:C:H2'	26:BA:868:U:C5'	1.98	0.93
22:AV:48:C:H3'	22:AV:49:C:H5"	1.50	0.93
22:AV:139:C:H1'	22:AV:182:U:H6	1.17	0.93
24:AX:34:U:O4	24:AX:37:U:OP2	1.84	0.93
26:BA:2473:U:C5	26:BA:2474:U:C5	2.57	0.93
17:AQ:7:LEU:HD22	17:AQ:72:TRP:CZ3	2.04	0.92
22:AV:16:U:OP1	22:AV:16:U:H3'	1.69	0.92
26:BA:866:A:C8	26:BA:914:G:C5	2.57	0.92
26:BA:883:G:HO2'	26:BA:884:U:H5'	1.20	0.92
26:BA:873:C:O2'	26:BA:874:G:H5'	1.68	0.92
22:AV:154:C:O2	22:AV:154:C:H2'	1.67	0.92
23:AW:30:GLU:O	23:AW:34:LEU:HG	1.69	0.92
26:BA:893:C:H2'	26:BA:894:U:C6	2.04	0.92
1:AA:368:U:OP1	25:AY:353:ALA:HB3	1.70	0.92
22:AV:46:U:O4'	22:AV:312:A:H4'	1.70	0.92
22:AV:213:G:O6	22:AV:284:G:N7	2.03	0.92
1:AA:1279:G:H5"	10:AJ:9:ARG:NH2	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:20:A:H4'	22:AV:21:C:OP1	1.70	0.92
22:AV:36:C:H2'	22:AV:37:C:H6	1.18	0.92
22:AV:239:A:C3'	22:AV:240:U:C5'	2.46	0.92
33:BI:21:PRO:HB2	33:BI:22:PRO:HD3	1.49	0.92
22:AV:31:G:C6	22:AV:34:A:C5'	2.47	0.92
22:AV:62:G:C2	22:AV:63:C:C4	2.58	0.92
22:AV:269:C:C2'	22:AV:270:C:H5"	1.99	0.92
26:BA:910:A:N6	37:BM:12:MET:CA	2.20	0.92
1:AA:598:U:H4'	8:AH:85:TYR:CD1	2.05	0.92
1:AA:1386:G:O2'	1:AA:1387:G:H5'	1.69	0.92
26:BA:883:G:N3	26:BA:884:U:C5	2.38	0.92
31:BG:8:VAL:CG1	31:BG:49:LEU:HB2	1.99	0.92
1:AA:918:A:C5	1:AA:919:A:N7	2.38	0.92
1:AA:972:C:H4'	10:AJ:59:LYS:CE	1.98	0.92
22:AV:40:G:N2	22:AV:41:G:C8	2.38	0.92
22:AV:113:A:H2'	22:AV:114:G:C8	2.05	0.92
22:AV:239:A:C3'	22:AV:240:U:H5"	1.98	0.92
22:AV:267:G:C2'	22:AV:268:U:H5'	1.99	0.92
22:AV:310:G:H2'	22:AV:311:U:H5	1.29	0.92
26:BA:868:U:H2'	26:BA:869:G:H5'	1.48	0.92
2:AB:207:ARG:C	2:AB:211:LEU:HD13	1.94	0.92
3:AC:79:LYS:NZ	22:AV:184:A:OP2	2.03	0.92
22:AV:264:U:N3	22:AV:298:A:N1	2.17	0.92
22:AV:270:C:C2'	22:AV:271:G:H5'	2.00	0.92
26:BA:911:A:C4	37:BM:9:PHE:CZ	2.50	0.92
1:AA:1098:C:O4'	1:AA:1169:A:N3	2.03	0.92
1:AA:1387:G:C6	1:AA:1388:C:N4	2.38	0.92
1:AA:1387:G:O2'	1:AA:1388:C:H5'	1.68	0.92
21:AU:19:LYS:HA	21:AU:19:LYS:CE	1.98	0.92
22:AV:49:C:O2	22:AV:303:G:C2	2.23	0.92
25:AY:415:PRO:HA	25:AY:474:ALA:HB2	1.49	0.92
22:AV:47:G:H2'	22:AV:48:C:H6	0.98	0.91
22:AV:290:A:H1'	22:AV:291:A:N7	1.84	0.91
25:AY:355:LEU:HD12	25:AY:369:LEU:HD13	1.52	0.91
1:AA:1079:G:C5	1:AA:1080:A:N6	2.37	0.91
1:AA:1392:G:O2'	1:AA:1393:U:H5'	1.70	0.91
22:AV:121:A:N6	22:AV:124:A:N1	2.18	0.91
22:AV:218:G:C2'	22:AV:219:G:H5'	2.00	0.91
26:BA:905:A:O2'	26:BA:906:U:H5'	1.69	0.91
22:AV:199:C:C2'	22:AV:200:G:N7	2.30	0.91
23:AW:22:ALA:O	23:AW:115:VAL:HG12	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:34:U:O2	24:AX:37:U:C5	2.23	0.91
24:AX:77:A:C2'	26:BA:2422:C:N3	2.33	0.91
1:AA:1096:C:C2'	1:AA:1170:A:O2'	2.18	0.91
22:AV:20:A:H61	23:AW:80:LEU:HD21	1.33	0.91
22:AV:204:G:OP1	22:AV:234:A:C6	2.22	0.91
1:AA:1338:G:O2'	1:AA:1339:A:H5'	1.68	0.91
4:AD:169:TRP:NE1	4:AD:185:PRO:HG3	1.86	0.91
22:AV:40:G:H8	22:AV:317:G:H1'	1.13	0.91
22:AV:44:C:O2'	22:AV:45:A:H8	1.51	0.91
25:AY:626:ALA:HB2	26:BA:2473:U:H1'	1.00	0.91
26:BA:887:U:O4'	26:BA:888:C:H5'	1.67	0.91
26:BA:891:G:C2'	26:BA:892:A:H8	1.82	0.91
26:BA:2346:A:H3'	26:BA:2347:C:C5'	1.99	0.91
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.69	0.91
1:AA:1538:C:O2'	1:AA:1539:C:H5'	1.71	0.91
22:AV:316:A:H2'	22:AV:317:G:H5'	1.49	0.91
22:AV:157:C:C2	22:AV:158:U:C5	2.58	0.91
26:BA:866:A:H2'	26:BA:867:C:H5'	0.92	0.91
26:BA:1287:A:H5'	38:BN:103:ARG:HD2	1.50	0.91
22:AV:68:U:O4	22:AV:303:G:C8	2.23	0.91
22:AV:247:A:H5"	22:AV:248:G:OP1	1.71	0.91
22:AV:247:A:H4'	22:AV:248:G:O5'	1.69	0.91
24:AX:2:G:O2'	24:AX:3:C:H5"	1.71	0.91
25:AY:617:MET:CE	26:BA:1095:A:C1'	2.49	0.91
26:BA:883:G:H2'	26:BA:884:U:C6	2.05	0.91
1:AA:15:G:H8	1:AA:1396:A:HO2'	1.13	0.90
1:AA:1107:C:P	3:AC:171:ARG:HH12	1.93	0.90
4:AD:150:LYS:HA	4:AD:177:MET:HE1	1.52	0.90
9:AI:129:ARG:HH22	24:AX:36:A:P	1.94	0.90
22:AV:171:A:C2	22:AV:172:U:C4	2.59	0.90
1:AA:1339:A:N3	24:AX:32:G:H4'	1.86	0.90
22:AV:44:C:OP2	22:AV:264:U:OP1	1.88	0.90
22:AV:46:U:C4'	22:AV:313:C:H5'	2.01	0.90
22:AV:21:C:O4'	23:AW:52:GLU:OE2	1.90	0.90
22:AV:50:G:N2	22:AV:69:A:N1	2.19	0.90
22:AV:266:C:C4	22:AV:267:G:C8	2.59	0.90
23:AW:38:LYS:HG2	26:BA:1910:G:C3'	1.94	0.90
22:AV:172:U:C2'	22:AV:173:C:C6	2.17	0.90
22:AV:208:G:C1'	22:AV:223:G:N2	2.11	0.90
22:AV:229:U:H1'	22:AV:231:A:H2	1.36	0.90
22:AV:334:A:H5'	22:AV:335:C:H42	0.74	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:52:C:H2'	24:AX:53:G:H8	1.30	0.90
25:AY:633:GLY:HA3	26:BA:1067:A:C2'	2.02	0.90
26:BA:1085:A:H2'	26:BA:1086:A:C2	2.07	0.90
22:AV:266:C:H2'	22:AV:267:G:H5"	0.92	0.90
22:AV:310:G:O2'	22:AV:311:U:C5	2.18	0.90
22:AV:345:A:N7	22:AV:348:C:N4	2.20	0.90
24:AX:72:C:O2'	26:BA:1851:U:H1'	1.69	0.90
26:BA:883:G:C5	26:BA:884:U:C5	2.60	0.90
22:AV:116:A:C2	22:AV:129:G:N1	2.39	0.90
25:AY:617:MET:HE1	26:BA:1095:A:O2'	1.02	0.90
25:AY:636:PRO:HB3	33:BI:26:ALA:HB3	1.50	0.90
26:BA:895:U:C2'	26:BA:896:A:N7	2.35	0.90
22:AV:34:A:O4'	22:AV:323:A:C2	2.25	0.90
26:BA:875:G:HO2'	26:BA:876:C:H5'	1.31	0.90
12:AL:76:HIS:CD2	25:AY:421:GLN:OE1	2.24	0.90
22:AV:13:G:C2'	22:AV:14:G:H8	1.82	0.90
22:AV:13:G:H8	22:AV:13:G:P	1.95	0.90
22:AV:139:C:C1'	22:AV:182:U:H5	1.79	0.90
23:AW:5:LEU:HG	23:AW:105:ILE:CD1	2.01	0.90
25:AY:513:LYS:HB2	25:AY:566:THR:HB	1.52	0.90
26:BA:865:C:O2	26:BA:869:G:O6	1.89	0.90
1:AA:1098:C:OP2	2:AB:142:LYS:NZ	2.03	0.90
22:AV:257:U:O4	22:AV:273:A:C2	2.25	0.90
23:AW:89:LEU:O	23:AW:93:VAL:HG23	1.70	0.90
26:BA:933:A:H5'	26:BA:934:U:OP2	1.70	0.90
22:AV:13:G:N2	22:AV:344:A:N1	2.19	0.89
22:AV:17:U:C2	22:AV:334:A:C6	2.60	0.89
22:AV:188:C:C2'	22:AV:189:C:H5'	2.02	0.89
26:BA:880:G:C1'	26:BA:899:A:H61	1.83	0.89
26:BA:880:G:H2'	26:BA:881:G:H8	1.37	0.89
22:AV:28:U:H2'	22:AV:29:G:H8	1.37	0.89
25:AY:617:MET:N	26:BA:1095:A:OP1	2.05	0.89
22:AV:190:A:H3'	22:AV:191:A:H5"	1.54	0.89
23:AW:5:LEU:HD12	23:AW:5:LEU:C	1.95	0.89
24:AX:37:U:O2'	24:AX:38:A:H5'	1.71	0.89
1:AA:1410:A:H2'	1:AA:1411:C:C6	2.07	0.89
25:AY:84:THR:H	25:AY:85:PRO:CD	1.84	0.89
25:AY:658:ASP:OD2	31:BG:176:LYS:HE2	1.70	0.89
26:BA:881:G:O2'	26:BA:882:G:H5'	1.73	0.89
26:BA:889:C:C2	26:BA:891:G:C5	2.60	0.89
1:AA:1531:A:H2'	1:AA:1532:U:H5'	0.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:77:A:C2'	26:BA:2422:C:C2	2.55	0.89
1:AA:1339:A:H2	24:AX:32:G:H4'	1.30	0.89
22:AV:16:U:C5	23:AW:110:ARG:NE	2.41	0.89
22:AV:111:U:O2'	22:AV:112:U:H5'	1.72	0.89
25:AY:626:ALA:N	26:BA:2473:U:H1'	1.86	0.89
40:BP:92:ARG:O	40:BP:93:LYS:HB2	1.71	0.89
22:AV:56:C:H2'	22:AV:57:G:C8	2.07	0.89
22:AV:137:C:H3'	22:AV:138:C:H5"	0.89	0.89
22:AV:315:G:O2'	22:AV:316:A:C8	2.26	0.89
22:AV:323:A:C2	22:AV:324:G:C5	2.61	0.89
22:AV:43:G:O6	22:AV:312:A:N1	2.05	0.89
22:AV:205:G:O5'	22:AV:225:A:C2	2.26	0.89
22:AV:225:A:H2'	22:AV:226:G:C8	2.08	0.89
25:AY:637:ARG:HD3	33:BI:25:PRO:HD3	0.91	0.89
1:AA:1534:A:C2	1:AA:1535:C:C2	2.61	0.88
22:AV:257:U:C2	22:AV:258:G:N1	2.41	0.88
23:AW:98:LEU:HD11	23:AW:119:LEU:HB3	1.55	0.88
42:BR:49:ILE:HG22	42:BR:53:PHE:N	1.87	0.88
12:AL:76:HIS:ND1	25:AY:421:GLN:OE1	2.05	0.88
22:AV:204:G:OP2	22:AV:235:C:C4	2.26	0.88
23:AW:93:VAL:HA	23:AW:98:LEU:HB3	1.55	0.88
1:AA:1536:C:O4'	7:AG:79:VAL:HG11	1.74	0.88
2:AB:104:LYS:HZ1	22:AV:121:A:C5'	1.79	0.88
22:AV:20:A:N6	23:AW:80:LEU:HD21	0.79	0.88
22:AV:136:G:H2'	22:AV:137:C:C6	2.07	0.88
22:AV:13:G:H2'	22:AV:14:G:N7	1.87	0.88
22:AV:256:G:N3	22:AV:258:G:C6	2.41	0.88
23:AW:88:ARG:HD2	23:AW:89:LEU:N	1.89	0.88
22:AV:228:G:O2'	22:AV:232:A:C2	2.24	0.88
22:AV:311:U:H2'	22:AV:312:A:H5'	1.53	0.88
23:AW:5:LEU:HD13	23:AW:6:GLU:O	1.73	0.88
22:AV:8:A:C8	22:AV:334:A:C1'	2.55	0.88
22:AV:331:C:C2'	22:AV:332:G:H5'	2.04	0.88
23:AW:38:LYS:CG	26:BA:1911:U:OP2	2.21	0.88
24:AX:33:C:H2'	24:AX:34:U:H5'	1.56	0.88
25:AY:409:ILE:CD1	25:AY:654:GLY:HA2	2.04	0.88
1:AA:55:A:H2	25:AY:321:TYR:O	1.57	0.88
34:BJ:80:HIS:HB3	34:BJ:81:ILE:HG22	1.54	0.88
1:AA:1078:U:C5	1:AA:1079:G:C6	2.62	0.88
22:AV:45:A:C2'	22:AV:46:U:H5'	2.03	0.88
26:BA:872:U:H2'	26:BA:873:C:C6	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:63:C:C2'	22:AV:64:C:C5'	2.51	0.88
22:AV:165:A:H5'	22:AV:166:C:C1'	2.03	0.88
1:AA:927:G:O2'	1:AA:1503:A:N7	2.07	0.88
1:AA:938:A:N6	1:AA:939:G:C6	2.41	0.88
1:AA:1104:G:P	2:AB:96:LEU:CD1	2.61	0.88
8:AH:74:ILE:CD1	8:AH:128:VAL:HG22	2.04	0.88
22:AV:204:G:OP1	22:AV:234:A:C5	2.27	0.88
22:AV:268:U:H2'	22:AV:269:C:H6	1.39	0.88
25:AY:170:ARG:O	25:AY:171:GLU:HG2	1.74	0.88
25:AY:468:ARG:HH11	25:AY:468:ARG:HB3	1.39	0.88
26:BA:911:A:N6	37:BM:9:PHE:CG	2.41	0.88
1:AA:923:A:C5'	5:AE:25:LYS:HE2	2.04	0.87
22:AV:257:U:H1'	22:AV:258:G:C5	2.09	0.87
25:AY:637:ARG:N	33:BI:25:PRO:HD2	1.79	0.87
11:AK:69:CYS:O	11:AK:72:ALA:HB3	1.74	0.87
22:AV:46:U:H4'	22:AV:313:C:H5'	1.53	0.87
22:AV:157:C:C2'	22:AV:158:U:H5'	2.05	0.87
22:AV:185:A:H2'	22:AV:186:A:N7	1.89	0.87
22:AV:239:A:H3'	22:AV:240:U:C4'	2.03	0.87
22:AV:272:C:O2'	22:AV:291:A:N6	2.06	0.87
1:AA:55:A:C2	25:AY:321:TYR:CA	2.57	0.87
1:AA:1537:U:H2'	1:AA:1538:C:C6	2.09	0.87
22:AV:172:U:C6	22:AV:173:C:H5	1.91	0.87
26:BA:889:C:H2'	26:BA:891:G:C8	2.09	0.87
26:BA:889:C:C2'	26:BA:891:G:C4	2.56	0.87
43:BS:43:ALA:O	43:BS:47:VAL:HG12	1.74	0.87
22:AV:48:C:O2	22:AV:49:C:O4'	1.91	0.87
1:AA:922:G:N2	1:AA:1398:A:N9	2.22	0.87
22:AV:151:C:H2'	22:AV:152:C:C6	2.08	0.87
22:AV:157:C:O2'	22:AV:158:U:H5'	1.73	0.87
22:AV:139:C:O4'	22:AV:182:U:H5	1.57	0.87
24:AX:77:A:C3'	26:BA:2422:C:O2	2.23	0.87
26:BA:721:A:H2'	26:BA:722:A:C8	2.09	0.87
26:BA:866:A:C2	26:BA:867:C:C6	2.62	0.87
22:AV:7:G:C4	22:AV:336:G:N7	2.43	0.87
26:BA:404:A:H1'	26:BA:405:U:OP2	1.74	0.87
1:AA:1279:G:H5"	10:AJ:9:ARG:HH22	1.39	0.87
1:AA:1388:C:H2'	1:AA:1389:C:O4'	1.75	0.87
11:AK:51:PHE:CB	11:AK:55:ARG:HB3	2.03	0.87
22:AV:185:A:C2'	22:AV:186:A:C8	2.58	0.87
24:AX:53:G:H1	24:AX:63:C:N4	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:53:G:H2'	24:AX:54:G:C8	2.10	0.87
26:BA:872:U:H2'	26:BA:873:C:H6	1.39	0.87
22:AV:17:U:H5'	22:AV:19:G:P	2.15	0.86
22:AV:323:A:C4	22:AV:324:G:N7	2.43	0.86
26:BA:278:A:C2	26:BA:362:A:C8	2.63	0.86
26:BA:866:A:C8	26:BA:914:G:N1	2.43	0.86
26:BA:887:U:HO2'	26:BA:888:C:H6	0.88	0.86
26:BA:911:A:N9	37:BM:9:PHE:CZ	2.35	0.86
22:AV:20:A:H3'	22:AV:21:C:H5	1.34	0.86
22:AV:20:A:C3'	22:AV:21:C:C6	2.57	0.86
22:AV:63:C:H2'	22:AV:64:C:C5'	2.02	0.86
22:AV:244:G:C2'	22:AV:245:C:H4'	2.05	0.86
25:AY:644:ARG:HH22	26:BA:1067:A:H4'	0.71	0.86
22:AV:19:G:N3	23:AW:81:LEU:HA	1.90	0.86
22:AV:40:G:C6	22:AV:316:A:H2	1.91	0.86
22:AV:67:G:N2	22:AV:303:G:C6	2.43	0.86
22:AV:181:G:H2'	22:AV:182:U:H4'	1.57	0.86
22:AV:257:U:C6	22:AV:258:G:C6	2.63	0.86
24:AX:7:G:H1	24:AX:67:C:H42	1.23	0.86
24:AX:49:C:C4'	24:AX:50:G:H5"	2.05	0.86
1:AA:142:G:C4	1:AA:143:A:C8	2.63	0.86
4:AD:36:ALA:HA	4:AD:41:GLY:HA3	1.57	0.86
22:AV:137:C:H3'	22:AV:138:C:C4'	2.04	0.86
23:AW:5:LEU:CG	23:AW:105:ILE:HD11	2.06	0.86
26:BA:790:U:O2'	26:BA:791:C:OP2	1.93	0.86
26:BA:881:G:H2'	26:BA:882:G:H8	1.40	0.86
37:BM:111:GLU:CD	37:BM:111:GLU:C	2.43	0.86
1:AA:1531:A:O2'	1:AA:1532:U:H5'	1.74	0.86
11:AK:80:ASN:HB3	11:AK:105:ARG:HB3	1.58	0.86
26:BA:883:G:C6	26:BA:884:U:C4	2.64	0.86
23:AW:92:LYS:O	23:AW:98:LEU:HD22	1.74	0.86
25:AY:488:THR:O	25:AY:516:PRO:HG3	1.74	0.86
1:AA:922:G:O2'	5:AE:25:LYS:HG2	1.76	0.86
22:AV:185:A:H2'	22:AV:186:A:C8	2.10	0.86
22:AV:257:U:C4	22:AV:273:A:N1	2.44	0.86
26:BA:1854:A:H2'	26:BA:1855:U:H5'	1.57	0.86
2:AB:104:LYS:HZ1	22:AV:121:A:P	1.98	0.86
12:AL:76:HIS:CE1	25:AY:421:GLN:HG2	2.11	0.86
22:AV:140:U:H2'	22:AV:141:C:H6	1.40	0.86
15:AO:27:GLN:O	15:AO:30:LEU:HD12	1.76	0.86
22:AV:66:C:H1'	22:AV:70:A:H2	1.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:131:U:OP1	22:AV:131:U:H3'	1.75	0.86
22:AV:195:A:N3	22:AV:196:G:C8	2.44	0.86
23:AW:44:SER:N	23:AW:57:ASN:HD22	1.73	0.86
1:AA:1103:C:H5"	2:AB:96:LEU:HA	1.58	0.86
22:AV:111:U:H2'	22:AV:112:U:H6	1.40	0.86
22:AV:188:C:H2'	22:AV:189:C:C5'	2.05	0.86
22:AV:244:G:C2'	22:AV:245:C:C4'	2.53	0.86
22:AV:312:A:H2'	22:AV:313:C:C6	2.10	0.86
24:AX:20:G:C6	26:BA:2112:G:O2'	2.28	0.86
22:AV:142:U:H2'	22:AV:143:C:C6	2.09	0.85
22:AV:165:A:H5'	22:AV:166:C:C6	2.11	0.85
22:AV:205:G:P	22:AV:225:A:N1	2.48	0.85
22:AV:220:G:H2'	22:AV:221:U:C6	2.11	0.85
22:AV:246:U:H4'	22:AV:247:A:O5'	1.73	0.85
22:AV:285:A:H2'	22:AV:286:A:H5"	0.91	0.85
25:AY:634:MET:N	26:BA:1068:G:O4'	2.09	0.85
10:AJ:29:ALA:HA	10:AJ:32:THR:HG22	1.58	0.85
11:AK:22:ILE:HD11	11:AK:85:VAL:HG13	1.58	0.85
22:AV:132:U:C2	22:AV:133:A:N7	2.44	0.85
25:AY:634:MET:SD	26:BA:1068:G:N3	2.49	0.85
26:BA:886:A:H4'	26:BA:887:U:OP1	1.74	0.85
1:AA:18:C:O4'	1:AA:1078:U:N3	2.02	0.85
1:AA:1123:U:H4'	10:AJ:39:PRO:HD2	1.55	0.85
22:AV:14:G:H1	22:AV:343:C:H41	1.24	0.85
22:AV:111:U:H2'	22:AV:112:U:C6	2.11	0.85
42:BR:39:LEU:HA	42:BR:49:ILE:CG2	2.06	0.85
1:AA:1535:C:O5'	1:AA:1535:C:H6	1.58	0.85
22:AV:157:C:H2'	22:AV:158:U:H6	1.41	0.85
22:AV:237:U:H2'	22:AV:237:U:O2	1.76	0.85
24:AX:18:U:O2'	24:AX:19:G:H4'	1.76	0.85
26:BA:880:G:C1'	26:BA:899:A:N6	2.40	0.85
1:AA:554:A:H5'	12:AL:25:ALA:HB1	1.58	0.85
1:AA:922:G:H22	1:AA:1398:A:C1'	1.89	0.85
22:AV:155:C:H2'	22:AV:155:C:O2	1.76	0.85
25:AY:633:GLY:CA	26:BA:1067:A:H2'	2.05	0.85
26:BA:1730:C:H4'	26:BA:1730:C:OP1	1.75	0.85
1:AA:1031:C:H4'	1:AA:1032:G:H5"	1.58	0.85
26:BA:1187:G:H5"	42:BR:83:TYR:CE2	2.10	0.85
1:AA:1411:C:C2'	1:AA:1412:C:H5'	2.06	0.85
24:AX:62:C:H3'	24:AX:63:C:C5'	2.02	0.85
25:AY:635:GLU:CB	33:BI:22:PRO:C	2.49	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:882:G:H2'	26:BA:883:G:H8	1.41	0.85
26:BA:2092:U:O3'	26:BA:2093:G:OP1	1.94	0.85
34:BJ:81:ILE:HG12	34:BJ:82:GLY:N	1.91	0.85
1:AA:918:A:C4	1:AA:919:A:C8	2.64	0.85
1:AA:1181:G:O2'	1:AA:1182:G:C8	2.29	0.85
22:AV:200:G:C8	22:AV:200:G:OP2	2.30	0.85
22:AV:344:A:C4'	30:BF:76:PHE:H	1.86	0.85
25:AY:416:LYS:CD	25:AY:417:THR:H	1.89	0.85
26:BA:867:C:C3'	26:BA:868:U:H5'	2.07	0.85
26:BA:2193:G:H2'	26:BA:2194:U:H6	1.39	0.85
1:AA:922:G:N2	1:AA:1398:A:C1'	2.40	0.85
1:AA:1539:C:O5'	21:AU:17:ARG:HG2	1.75	0.85
22:AV:323:A:C8	22:AV:323:A:OP2	2.30	0.85
1:AA:554:A:H5'	12:AL:25:ALA:CB	2.07	0.85
1:AA:1390:U:C5	1:AA:1390:U:OP2	2.30	0.85
2:AB:105:THR:O	2:AB:106:VAL:HB	1.75	0.85
22:AV:153:U:H1'	22:AV:190:A:N6	1.92	0.85
22:AV:165:A:H4'	22:AV:166:C:H6	1.37	0.85
22:AV:213:G:H1	22:AV:245:C:H41	1.21	0.85
22:AV:316:A:C2'	22:AV:317:G:H5'	2.07	0.85
22:AV:343:C:H4'	30:BF:78:ILE:HD12	0.88	0.85
26:BA:895:U:O2	26:BA:896:A:C6	2.29	0.85
26:BA:897:C:O2	26:BA:898:C:C6	2.30	0.85
26:BA:2786:U:O2'	26:BA:2787:C:H5'	1.76	0.85
32:BH:61:VAL:O	32:BH:64:ALA:HB3	1.77	0.85
1:AA:624:C:H4'	16:AP:11:ALA:HB2	1.59	0.84
3:AC:52:SER:O	3:AC:53:ARG:HB2	1.76	0.84
22:AV:19:G:O3'	22:AV:20:A:C8	2.30	0.84
22:AV:30:C:N4	22:AV:324:G:N2	2.25	0.84
22:AV:185:A:O3'	22:AV:186:A:C8	2.30	0.84
22:AV:244:G:H2'	22:AV:245:C:H4'	1.57	0.84
22:AV:244:G:C2	22:AV:245:C:H1'	2.12	0.84
22:AV:256:G:C2	22:AV:258:G:N1	2.45	0.84
22:AV:269:C:N3	22:AV:270:C:C6	2.45	0.84
26:BA:866:A:C5	26:BA:867:C:C5	2.64	0.84
26:BA:1073:A:H3'	26:BA:1074:G:C5'	2.07	0.84
32:BH:117:LEU:HD21	32:BH:121:VAL:HA	1.58	0.84
4:AD:169:TRP:CE2	4:AD:185:PRO:HG3	2.11	0.84
22:AV:12:U:C5	22:AV:348:C:O2'	2.30	0.84
22:AV:17:U:H1'	23:AW:112:TYR:CG	2.10	0.84
22:AV:264:U:H2'	22:AV:265:C:C6	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:199:C:C4	22:AV:200:G:O6	2.30	0.84
22:AV:247:A:O4'	22:AV:248:G:C8	2.30	0.84
22:AV:264:U:O2	22:AV:298:A:H2	1.58	0.84
24:AX:77:A:C8	26:BA:2422:C:O4'	2.30	0.84
25:AY:517:LEU:HD23	25:AY:521:SER:HB3	1.57	0.84
26:BA:903:C:O2	26:BA:904:G:C8	2.30	0.84
26:BA:904:G:H2'	26:BA:905:A:H8	1.41	0.84
26:BA:896:A:O2'	26:BA:897:C:H5'	1.77	0.84
26:BA:2193:G:H2'	26:BA:2194:U:C6	2.12	0.84
30:BF:118:ALA:HB1	30:BF:166:ARG:HD2	1.60	0.84
32:BH:27:ARG:O	32:BH:28:ASN:HB2	1.76	0.84
22:AV:49:C:H1'	22:AV:303:G:N2	1.93	0.84
22:AV:133:A:H2'	22:AV:134:G:C8	2.12	0.84
22:AV:320:U:O2'	22:AV:321:G:C8	2.31	0.84
22:AV:345:A:OP2	30:BF:74:ALA:CB	2.26	0.84
25:AY:635:GLU:HB2	33:BI:21:PRO:O	1.77	0.84
26:BA:877:A:H2'	26:BA:878:A:H5'	0.87	0.84
26:BA:2307:G:N2	26:BA:2311:A:H2'	1.93	0.84
1:AA:657:U:O2	15:AO:21:THR:HG23	1.78	0.84
22:AV:63:C:C2	22:AV:73:A:N1	2.45	0.84
22:AV:171:A:C6	22:AV:172:U:O4	2.31	0.84
26:BA:2757:A:N1	31:BG:66:THR:HG21	1.93	0.84
8:AH:52:GLY:HA3	8:AH:56:PRO:HA	1.57	0.84
22:AV:44:C:OP2	22:AV:264:U:P	2.36	0.84
22:AV:114:G:O2'	22:AV:115:C:H5'	1.78	0.84
26:BA:372:G:O2'	48:BX:53:LYS:HE2	1.78	0.84
26:BA:878:A:H2'	26:BA:879:G:H5'	1.59	0.84
26:BA:896:A:C4'	26:BA:897:C:OP1	2.25	0.84
22:AV:48:C:H3'	22:AV:49:C:C5'	2.03	0.84
22:AV:248:G:C6	22:AV:249:U:O4	2.30	0.84
25:AY:555:LEU:HD21	25:AY:599:PRO:HG3	1.59	0.84
26:BA:888:C:H4'	26:BA:889:C:C5	2.13	0.84
26:BA:889:C:C5	26:BA:891:G:O6	2.30	0.84
26:BA:911:A:OP1	26:BA:912:C:C6	2.30	0.84
1:AA:368:U:OP1	25:AY:353:ALA:HB2	1.77	0.84
11:AK:16:SER:HA	11:AK:78:ILE:HA	1.58	0.84
22:AV:168:G:O2'	22:AV:169:G:H5'	1.78	0.84
22:AV:186:A:C8	22:AV:186:A:OP2	2.30	0.84
22:AV:225:A:C4	22:AV:226:G:N7	2.46	0.84
22:AV:245:C:OP1	22:AV:246:U:OP2	1.95	0.84
22:AV:309:A:OP1	22:AV:309:A:H3'	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:323:A:OP2	22:AV:323:A:H8	1.60	0.84
23:AW:81:LEU:HD21	23:AW:85:GLU:HG2	1.57	0.84
26:BA:876:C:C2'	26:BA:877:A:C5	2.61	0.84
26:BA:879:G:H2'	26:BA:880:G:H5'	0.85	0.84
1:AA:459:A:H2'	1:AA:460:A:O4'	1.78	0.84
1:AA:1530:G:N2	1:AA:1531:A:C5	2.45	0.84
22:AV:43:G:O6	22:AV:312:A:C6	2.30	0.84
22:AV:245:C:H3'	22:AV:248:G:C4	2.13	0.84
33:BI:107:GLU:HA	33:BI:110:GLN:HB3	1.58	0.84
51:B0:54:ILE:HG22	51:B0:55:ALA:N	1.91	0.84
22:AV:157:C:H2'	22:AV:158:U:C6	2.13	0.83
23:AW:65:LYS:HB3	26:BA:1909:C:OP1	1.78	0.83
25:AY:636:PRO:C	33:BI:25:PRO:CD	2.16	0.83
26:BA:901:C:H3'	26:BA:901:C:O2	1.78	0.83
26:BA:1167:C:H2'	26:BA:1168:G:H5"	1.60	0.83
22:AV:140:U:H2'	22:AV:141:C:C6	2.13	0.83
22:AV:333:G:OP2	22:AV:335:C:C4	2.30	0.83
1:AA:459:A:H2'	1:AA:460:A:C1'	2.08	0.83
1:AA:1390:U:C2'	1:AA:1391:U:H5'	2.08	0.83
1:AA:1397:C:O2'	1:AA:1398:A:OP1	1.96	0.83
22:AV:38:A:C1'	22:AV:39:A:C8	2.61	0.83
26:BA:897:C:H2'	26:BA:898:C:H6	1.42	0.83
26:BA:1277:G:H5'	38:BN:20:MET:HE2	1.60	0.83
22:AV:165:A:C5'	22:AV:166:C:C6	2.61	0.83
22:AV:290:A:C1'	22:AV:291:A:H8	1.91	0.83
24:AX:53:G:H2'	24:AX:54:G:H8	1.40	0.83
25:AY:505:GLY:HA3	25:AY:576:ASP:CG	2.03	0.83
25:AY:634:MET:H	26:BA:1068:G:C1'	1.91	0.83
26:BA:1060:U:C4'	26:BA:1062:G:H5'	2.07	0.83
33:BI:79:LEU:HD13	33:BI:135:MET:SD	2.19	0.83
52:B1:18:HIS:CD2	52:B1:40:PRO:HD2	2.13	0.83
1:AA:1081:A:H5'	5:AE:22:LYS:HE2	0.85	0.83
22:AV:137:C:C5	22:AV:138:C:H5	1.94	0.83
25:AY:21:ILE:HD13	25:AY:21:ILE:H	1.43	0.83
1:AA:368:U:C6	25:AY:354:ARG:NH2	2.47	0.83
22:AV:205:G:OP1	22:AV:225:A:N1	2.11	0.83
22:AV:266:C:H3'	22:AV:267:G:C5'	2.08	0.83
26:BA:866:A:C5	26:BA:867:C:H5	1.95	0.83
30:BF:24:VAL:O	30:BF:27:VAL:HG12	1.79	0.83
1:AA:918:A:C6	1:AA:919:A:C6	2.67	0.83
22:AV:12:U:H5	22:AV:348:C:H1'	1.39	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:257:U:N1	22:AV:258:G:C6	2.46	0.83
22:AV:305:A:H2'	22:AV:306:U:C6	2.14	0.83
22:AV:323:A:C6	22:AV:324:G:O6	2.32	0.83
23:AW:98:LEU:CD2	23:AW:119:LEU:HD22	2.08	0.83
24:AX:33:C:H2'	24:AX:34:U:C5'	2.08	0.83
25:AY:635:GLU:CB	33:BI:21:PRO:O	2.26	0.83
25:AY:639:ASN:CB	33:BI:29:GLN:HG3	2.08	0.83
1:AA:1412:C:C2	1:AA:1489:G:N2	2.46	0.83
13:AM:21:ILE:HB	13:AM:24:VAL:CG2	2.08	0.83
24:AX:28:U:H2'	24:AX:29:C:H5'	1.61	0.83
21:AU:13:VAL:HG13	21:AU:15:LEU:CD2	2.08	0.83
26:BA:883:G:C2'	26:BA:884:U:H5'	2.09	0.83
22:AV:113:A:C2	22:AV:114:G:C4	2.66	0.82
22:AV:220:G:H2'	22:AV:221:U:H6	1.42	0.82
23:AW:20:TYR:CE2	23:AW:89:LEU:HD22	2.13	0.82
25:AY:149:VAL:O	25:AY:152:THR:HG22	1.79	0.82
25:AY:635:GLU:HG2	33:BI:22:PRO:HA	0.88	0.82
26:BA:908:C:P	37:BM:22:GLN:HG3	2.19	0.82
22:AV:148:U:H2'	22:AV:149:A:C8	2.13	0.82
22:AV:151:C:H2'	22:AV:152:C:H6	1.40	0.82
22:AV:304:C:H2'	22:AV:305:A:H8	1.44	0.82
23:AW:4:VAL:HG23	23:AW:106:TYR:CD2	2.14	0.82
25:AY:329:ARG:HD3	25:AY:374:LEU:HD11	1.59	0.82
25:AY:380:LEU:C	25:AY:381:LYS:HD2	2.04	0.82
12:AL:23:LEU:O	12:AL:25:ALA:N	2.12	0.82
22:AV:129:G:H3'	22:AV:130:C:C4'	2.09	0.82
22:AV:188:C:C2	22:AV:189:C:H5	1.91	0.82
1:AA:1097:C:H4'	1:AA:1170:A:H5'	1.60	0.82
22:AV:39:A:C5	22:AV:40:G:N7	2.46	0.82
24:AX:77:A:C3'	26:BA:2422:C:C2	2.61	0.82
25:AY:635:GLU:HB3	33:BI:23:VAL:N	1.93	0.82
26:BA:895:U:C2'	26:BA:896:A:C8	2.61	0.82
22:AV:13:G:H4'	22:AV:14:G:OP1	1.77	0.82
22:AV:139:C:O2'	22:AV:140:U:H5'	1.79	0.82
22:AV:163:G:O2'	22:AV:164:G:H5"	1.78	0.82
22:AV:198:U:OP2	22:AV:198:U:C5	2.32	0.82
26:BA:896:A:O2'	26:BA:897:C:C5'	2.27	0.82
26:BA:2007:U:C2'	26:BA:2008:C:H5'	2.10	0.82
22:AV:306:U:C2'	22:AV:307:G:H8	1.90	0.82
41:BQ:78:PHE:CZ	41:BQ:82:LEU:HD11	2.15	0.82
13:AM:19:THR:HA	13:AM:24:VAL:HG23	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:263:G:H3'	22:AV:264:U:H5'	1.62	0.82
22:AV:343:C:O5'	30:BF:79:ARG:HA	1.79	0.82
24:AX:71:G:H21	26:BA:1851:U:C5'	1.86	0.82
41:BQ:23:TYR:O	41:BQ:24:TYR:CB	2.28	0.82
1:AA:368:U:C5	25:AY:354:ARG:NH2	2.47	0.82
22:AV:257:U:C2	22:AV:259:G:N7	2.48	0.82
26:BA:866:A:N7	26:BA:914:G:C6	2.47	0.82
1:AA:972:C:H4'	10:AJ:59:LYS:HE2	1.60	0.82
22:AV:21:C:C5	22:AV:22:G:N7	2.47	0.82
22:AV:145:C:H2'	22:AV:146:C:C6	2.14	0.82
22:AV:199:C:OP2	22:AV:199:C:C5	2.32	0.82
22:AV:295:C:O2'	22:AV:296:U:H5'	1.79	0.82
23:AW:26:LEU:HD13	23:AW:34:LEU:HD11	1.60	0.82
25:AY:635:GLU:CG	33:BI:22:PRO:CA	2.49	0.82
26:BA:1838:C:C2	26:BA:1898:U:C5	2.68	0.82
1:AA:921:U:C4	1:AA:1396:A:C2	2.67	0.82
2:AB:104:LYS:CE	22:AV:121:A:OP2	2.28	0.82
22:AV:38:A:C2'	22:AV:39:A:C8	2.61	0.82
22:AV:120:U:H5"	22:AV:120:U:O2	1.80	0.82
22:AV:193:A:O2'	22:AV:194:G:C5'	2.28	0.82
22:AV:204:G:C8	22:AV:235:C:N4	2.48	0.82
22:AV:323:A:C2	22:AV:324:G:C6	2.68	0.82
23:AW:81:LEU:HG	23:AW:85:GLU:CD	2.05	0.82
26:BA:804:A:H5"	26:BA:805:G:OP1	1.80	0.82
26:BA:892:A:C2'	26:BA:893:C:H5'	2.08	0.82
42:BR:49:ILE:HB	42:BR:52:PRO:HA	1.60	0.82
2:AB:104:LYS:HZ3	22:AV:121:A:H5"	0.75	0.81
22:AV:146:C:H2'	22:AV:147:C:C6	2.14	0.81
1:AA:204:G:H3'	1:AA:205:A:C5'	2.10	0.81
1:AA:1083:U:H5	1:AA:1084:G:C5	1.98	0.81
22:AV:44:C:N4	22:AV:300:U:H5	1.77	0.81
22:AV:130:C:O2'	22:AV:131:U:P	2.37	0.81
22:AV:269:C:C3'	22:AV:270:C:H5'	2.10	0.81
23:AW:38:LYS:CG	26:BA:1911:U:P	2.68	0.81
24:AX:17:C:H3'	24:AX:18:U:H5'	1.62	0.81
1:AA:15:G:N1	1:AA:920:U:O2	1.87	0.81
2:AB:50:ASN:O	2:AB:51:GLU:HB2	1.80	0.81
22:AV:14:G:C4'	22:AV:15:A:OP1	2.28	0.81
22:AV:184:A:N7	22:AV:185:A:C6	2.48	0.81
22:AV:225:A:C6	22:AV:226:G:C6	2.68	0.81
22:AV:314:C:H1'	22:AV:315:G:O5'	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:27:G:N2	24:AX:45:A:H61	1.77	0.81
24:AX:40:C:H2'	24:AX:41:C:H5'	1.60	0.81
26:BA:897:C:C2	26:BA:898:C:C5	2.68	0.81
26:BA:910:A:C6	37:BM:12:MET:HA	2.14	0.81
26:BA:2093:G:O2'	26:BA:2198:A:C2	2.32	0.81
26:BA:2602:A:H4'	26:BA:2603:G:OP2	1.78	0.81
1:AA:917:G:C6	1:AA:918:A:N6	2.48	0.81
2:AB:146:SER:O	2:AB:147:LEU:HG	1.80	0.81
22:AV:245:C:C3'	22:AV:248:G:N3	2.40	0.81
22:AV:255:A:H2'	22:AV:256:G:C8	2.15	0.81
25:AY:555:LEU:HD21	25:AY:599:PRO:CG	2.10	0.81
2:AB:212:TYR:O	2:AB:216:VAL:HG23	1.80	0.81
22:AV:17:U:H4'	22:AV:18:C:OP2	1.80	0.81
22:AV:118:C:O2'	22:AV:119:U:H5'	1.80	0.81
24:AX:63:C:H2'	24:AX:64:G:H5"	1.62	0.81
1:AA:15:G:H1	1:AA:920:U:H1'	1.43	0.81
1:AA:410:G:C5'	1:AA:411:A:OP1	2.28	0.81
12:AL:76:HIS:CE1	25:AY:421:GLN:OE1	2.33	0.81
22:AV:33:A:C4'	22:AV:34:A:OP1	2.28	0.81
22:AV:44:C:HO2'	22:AV:45:A:H8	1.15	0.81
22:AV:129:G:H3'	22:AV:130:C:H4'	1.63	0.81
22:AV:213:G:O6	22:AV:284:G:C8	2.34	0.81
23:AW:37:GLY:O	26:BA:1910:G:H5'	1.81	0.81
24:AX:51:U:O2	24:AX:65:G:N2	2.13	0.81
24:AX:72:C:O2'	26:BA:1851:U:O2'	1.97	0.81
25:AY:634:MET:N	26:BA:1068:G:C1'	2.43	0.81
26:BA:887:U:H4'	26:BA:888:C:OP1	1.81	0.81
1:AA:1425:U:O2'	1:AA:1426:G:H5'	1.81	0.81
21:AU:36:PHE:HA	21:AU:39:LYS:CE	2.10	0.81
22:AV:7:G:C5	22:AV:336:G:N7	2.49	0.81
22:AV:171:A:C2	22:AV:172:U:N3	2.49	0.81
22:AV:235:C:H2'	22:AV:236:U:C6	2.16	0.81
22:AV:266:C:C5	22:AV:267:G:N7	2.49	0.81
26:BA:1993:U:H4'	28:BD:133:THR:HG21	1.63	0.81
26:BA:2211:A:H1'	26:BA:2212:A:OP1	1.79	0.81
1:AA:1079:G:H3'	1:AA:1080:A:C8	2.16	0.81
22:AV:34:A:O4'	22:AV:323:A:N3	2.14	0.81
22:AV:175:A:C2'	22:AV:176:G:C5'	2.58	0.81
22:AV:190:A:H3'	22:AV:191:A:C5'	2.11	0.81
22:AV:218:G:N3	22:AV:219:G:C8	2.49	0.81
22:AV:269:C:C3'	22:AV:270:C:C5'	2.59	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:15:ILE:HD11	25:AY:81:ILE:HG12	1.61	0.81
28:BD:181:ASP:OD2	28:BD:184:ARG:HD3	1.80	0.81
2:AB:65:LYS:N	2:AB:65:LYS:HD3	1.96	0.81
22:AV:146:C:H2'	22:AV:147:C:H6	1.44	0.81
22:AV:225:A:H2'	22:AV:226:G:H8	1.43	0.81
25:AY:157:LEU:H	25:AY:157:LEU:CD2	1.94	0.81
26:BA:876:C:O3'	26:BA:877:A:C8	2.33	0.81
26:BA:889:C:C6	26:BA:891:G:C6	2.68	0.81
27:BC:164:VAL:HG22	27:BC:172:THR:O	1.81	0.81
22:AV:136:G:C4	22:AV:137:C:C5	2.69	0.81
22:AV:256:G:C6	22:AV:273:A:C2	2.69	0.81
22:AV:257:U:C4	22:AV:259:G:C6	2.69	0.81
23:AW:38:LYS:HE2	26:BA:1910:G:OP1	1.80	0.81
26:BA:905:A:H2'	26:BA:906:U:H6	1.45	0.81
23:AW:86:LEU:HD23	23:AW:87:ARG:N	1.96	0.80
24:AX:77:A:H3'	26:BA:2422:C:C2	2.15	0.80
26:BA:894:U:H3'	26:BA:895:U:H5"	1.61	0.80
2:AB:98:GLY:O	2:AB:102:ASN:HB2	1.81	0.80
22:AV:33:A:H1'	22:AV:35:C:OP1	1.81	0.80
22:AV:248:G:C6	22:AV:249:U:C4	2.69	0.80
22:AV:305:A:O2'	22:AV:306:U:H5'	1.81	0.80
24:AX:26:C:H2'	24:AX:27:G:O4'	1.81	0.80
26:BA:890:C:P	26:BA:891:G:H5'	2.21	0.80
26:BA:903:C:C2'	26:BA:904:G:H5'	2.07	0.80
26:BA:1854:A:C2'	26:BA:1855:U:H5'	2.11	0.80
1:AA:934:C:N3	1:AA:937:A:N6	2.29	0.80
14:AN:41:ARG:HB2	14:AN:42:TRP:CZ3	2.16	0.80
22:AV:305:A:H2'	22:AV:306:U:H6	1.45	0.80
23:AW:78:LYS:HG2	23:AW:79:LEU:N	1.96	0.80
24:AX:70:C:O2'	24:AX:71:G:H5"	1.81	0.80
26:BA:894:U:C3'	26:BA:895:U:C5'	2.55	0.80
26:BA:2392:A:C2	36:BL:55:MET:HE3	2.15	0.80
1:AA:181:A:N6	1:AA:195:A:C8	2.49	0.80
10:AJ:10:LEU:HB2	10:AJ:72:ARG:HB2	1.63	0.80
22:AV:194:G:C2'	22:AV:195:A:H5'	2.10	0.80
22:AV:299:C:O2'	22:AV:300:U:H4'	1.80	0.80
23:AW:47:ARG:C	23:AW:53:LEU:HD12	2.06	0.80
26:BA:871:U:O2'	37:BM:68:PHE:CE1	2.31	0.80
2:AB:103:TRP:CZ3	2:AB:157:PRO:HD3	2.17	0.80
2:AB:216:VAL:O	2:AB:219:THR:HG23	1.82	0.80
22:AV:33:A:H4'	22:AV:34:A:OP1	1.78	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:188:C:C2'	22:AV:189:C:C5'	2.59	0.80
22:AV:233:A:O2'	22:AV:234:A:P	2.39	0.80
24:AX:5:G:H2'	24:AX:6:G:C8	2.17	0.80
26:BA:901:C:H3'	26:BA:902:C:H5"	1.64	0.80
30:BF:26:GLN:NE2	56:BB:57:A:H4'	1.96	0.80
1:AA:277:C:H2'	1:AA:278:G:O5'	1.82	0.80
1:AA:511:C:C2	1:AA:512:U:C5	2.68	0.80
1:AA:1285:A:H4'	1:AA:1286:U:N3	1.97	0.80
1:AA:1313:U:OP2	19:AS:5:LYS:CB	2.29	0.80
22:AV:34:A:O2'	22:AV:35:C:C5'	2.30	0.80
22:AV:43:G:C6	22:AV:312:A:C2	2.68	0.80
26:BA:2427:C:H5"	26:BA:2428:G:OP1	1.82	0.80
37:BM:16:ARG:HH11	37:BM:16:ARG:CG	1.95	0.80
37:BM:16:ARG:HH11	37:BM:16:ARG:HG2	1.46	0.80
22:AV:13:G:O2'	22:AV:14:G:H5'	1.80	0.80
22:AV:216:U:H2'	22:AV:217:G:H8	1.46	0.80
22:AV:244:G:N3	22:AV:245:C:C1'	2.34	0.80
22:AV:256:G:H2'	22:AV:258:G:C6	2.15	0.80
22:AV:256:G:C4	22:AV:258:G:O6	2.34	0.80
22:AV:315:G:C4	22:AV:316:A:N7	2.50	0.80
22:AV:343:C:OP1	30:BF:79:ARG:CG	2.30	0.80
26:BA:892:A:C4	26:BA:893:C:C5	2.70	0.80
35:BK:118:LEU:O	35:BK:119:ALA:HB3	1.81	0.80
1:AA:918:A:N6	1:AA:919:A:N6	2.30	0.80
1:AA:1330:U:H2'	1:AA:1331:G:H5'	1.62	0.80
1:AA:1499:A:O2'	1:AA:1500:A:H5'	1.80	0.80
22:AV:49:C:C2	22:AV:303:G:C6	2.65	0.80
22:AV:132:U:C2'	22:AV:133:A:C5'	2.60	0.80
22:AV:303:G:O2'	22:AV:304:C:C5'	2.30	0.80
24:AX:5:G:H2'	24:AX:6:G:H8	1.45	0.80
25:AY:638:GLY:O	33:BI:25:PRO:O	1.98	0.80
26:BA:1179:G:N7	26:BA:1180:U:C1'	2.45	0.80
1:AA:206:C:H2'	1:AA:207:C:O4'	1.81	0.80
1:AA:1079:G:N1	1:AA:1080:A:N1	2.30	0.80
4:AD:169:TRP:HB3	4:AD:183:ARG:NH1	1.97	0.80
22:AV:155:C:O2'	22:AV:156:G:C5'	2.30	0.80
22:AV:314:C:C4'	22:AV:315:G:OP1	2.30	0.80
23:AW:27:LYS:HD3	23:AW:30:GLU:OE1	1.80	0.80
26:BA:884:U:OP2	26:BA:886:A:N1	2.15	0.80
26:BA:1462:C:H2'	26:BA:1463:C:H5'	1.63	0.80
26:BA:2007:U:H2'	26:BA:2008:C:H5'	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:75:ALA:HB1	33:BI:128:ILE:CG2	2.11	0.80
2:AB:150:ILE:HG23	2:AB:151:LYS:H	1.47	0.80
5:AE:89:THR:HG22	5:AE:90:GLY:N	1.95	0.80
5:AE:136:VAL:O	5:AE:137:ARG:CB	2.27	0.80
20:AT:24:ARG:O	20:AT:28:ARG:HG3	1.82	0.80
22:AV:137:C:O5'	22:AV:138:C:C5'	2.30	0.80
22:AV:165:A:C4'	22:AV:166:C:C5	2.64	0.80
22:AV:303:G:P	22:AV:303:G:C3'	2.70	0.80
26:BA:2196:C:H2'	26:BA:2197:U:H5'	1.64	0.80
1:AA:1098:C:C1'	1:AA:1169:A:C2	2.65	0.79
22:AV:131:U:OP1	22:AV:131:U:C3'	2.30	0.79
22:AV:331:C:H2'	22:AV:332:G:H5'	1.63	0.79
26:BA:2346:A:H3'	26:BA:2347:C:H5'	1.64	0.79
33:BI:15:GLY:HA2	33:BI:50:LYS:HB3	1.64	0.79
1:AA:17:U:H2'	1:AA:18:C:C6	2.17	0.79
1:AA:143:A:N3	1:AA:143:A:H2'	1.97	0.79
1:AA:513:C:C2'	1:AA:514:C:O5'	2.30	0.79
22:AV:55:G:C6	22:AV:56:C:N4	2.50	0.79
22:AV:248:G:C2'	22:AV:249:U:C5'	2.57	0.79
25:AY:633:GLY:CA	26:BA:1068:G:H8	1.93	0.79
26:BA:2152:G:C5	26:BA:2153:C:C5	2.70	0.79
1:AA:15:G:C8	1:AA:1396:A:O2'	2.27	0.79
1:AA:91:U:H2'	1:AA:92:U:O4'	1.82	0.79
12:AL:76:HIS:CE1	25:AY:421:GLN:CG	2.66	0.79
22:AV:45:A:HO2'	22:AV:312:A:C2'	1.96	0.79
22:AV:121:A:O2'	22:AV:122:A:C5'	2.30	0.79
22:AV:137:C:C3'	22:AV:138:C:C5'	2.34	0.79
22:AV:143:C:H2'	22:AV:144:U:O4'	1.82	0.79
22:AV:17:U:C5'	22:AV:19:G:OP2	2.30	0.79
22:AV:36:C:H2'	22:AV:37:C:C5	2.17	0.79
22:AV:139:C:C1'	22:AV:182:U:H6	1.85	0.79
22:AV:144:U:C5'	22:AV:145:C:OP2	2.30	0.79
22:AV:322:U:N3	22:AV:323:A:N6	2.30	0.79
22:AV:335:C:O2	22:AV:335:C:C3'	2.30	0.79
25:AY:227:ILE:HG23	25:AY:237:PRO:HG2	1.63	0.79
25:AY:550:MET:HE3	25:AY:563:ILE:HD11	1.61	0.79
26:BA:2193:G:C4	26:BA:2194:U:C5	2.70	0.79
22:AV:13:G:C8	22:AV:13:G:P	2.74	0.79
22:AV:47:G:C2'	22:AV:48:C:H6	1.89	0.79
22:AV:167:G:H2'	22:AV:168:G:H8	1.48	0.79
26:BA:868:U:O2'	26:BA:869:G:C5'	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:887:U:O2'	26:BA:888:C:H6	1.66	0.79
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.46	0.79
3:AC:79:LYS:HG3	22:AV:184:A:OP2	1.82	0.79
5:AE:102:THR:HG22	5:AE:103:GLY:N	1.97	0.79
13:AM:28:ARG:CZ	13:AM:62:PHE:HB2	2.12	0.79
21:AU:9:GLU:CD	21:AU:10:PRO:HD3	2.06	0.79
22:AV:136:G:O2'	22:AV:137:C:C5'	2.30	0.79
22:AV:137:C:P	22:AV:138:C:C5'	2.70	0.79
23:AW:43:GLY:C	23:AW:57:ASN:HD22	1.91	0.79
25:AY:466:LEU:HA	25:AY:470:PHE:CD2	2.18	0.79
40:BP:14:GLN:O	40:BP:15:ASP:HB3	1.82	0.79
1:AA:1107:C:OP1	3:AC:171:ARG:NH1	2.16	0.79
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.48	0.79
1:AA:1399:C:C2	1:AA:1502:A:C6	2.71	0.79
16:AP:19:VAL:HG13	16:AP:38:PHE:HA	1.64	0.79
22:AV:44:C:OP2	22:AV:263:G:O3'	2.01	0.79
22:AV:61:G:N3	22:AV:62:G:N7	2.30	0.79
22:AV:71:A:N3	22:AV:72:A:N7	2.30	0.79
22:AV:266:C:H3'	22:AV:267:G:H5'	1.63	0.79
22:AV:334:A:C2	23:AW:113:ALA:N	2.51	0.79
25:AY:513:LYS:CB	25:AY:566:THR:HB	2.11	0.79
26:BA:883:G:C4	26:BA:884:U:C6	2.68	0.79
26:BA:2196:C:C2'	26:BA:2197:U:H5'	2.12	0.79
42:BR:86:GLN:HG3	42:BR:87:GLN:N	1.97	0.79
1:AA:481:G:H5"	1:AA:481:G:C8	2.17	0.79
1:AA:1100:C:N4	2:AB:94:ARG:HD2	1.88	0.79
1:AA:1432:G:OP1	40:BP:105:LYS:HG2	1.82	0.79
2:AB:63:LYS:HE2	2:AB:63:LYS:HA	1.64	0.79
8:AH:58:LEU:HD13	8:AH:59:GLU:N	1.97	0.79
16:AP:75:ILE:O	16:AP:78:VAL:HG12	1.83	0.79
22:AV:204:G:H8	22:AV:235:C:H42	1.30	0.79
22:AV:272:C:H2'	22:AV:273:A:C8	2.17	0.79
26:BA:960:A:H5"	26:BA:961:C:OP2	1.82	0.79
26:BA:2305:U:N3	30:BF:150:GLY:HA3	1.98	0.79
1:AA:928:G:HO2'	1:AA:1533:C:P	1.98	0.79
11:AK:51:PHE:HB3	11:AK:55:ARG:HB3	1.65	0.79
22:AV:172:U:C6	22:AV:173:C:C5	2.70	0.79
27:BC:35:LYS:O	27:BC:36:ASN:CB	2.31	0.79
1:AA:1159:U:O2	1:AA:1182:G:C2	2.35	0.79
10:AJ:51:VAL:O	10:AJ:62:ARG:HA	1.83	0.79
22:AV:44:C:O2	22:AV:45:A:N7	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:47:G:C2	22:AV:48:C:C2	2.71	0.79
22:AV:323:A:H2'	22:AV:324:G:N7	1.97	0.79
25:AY:427:ALA:HB1	25:AY:466:LEU:CD1	2.12	0.79
26:BA:879:G:O2'	26:BA:880:G:H5'	1.83	0.79
26:BA:889:C:O2	26:BA:889:C:C3'	2.30	0.79
1:AA:4:U:OP1	1:AA:5:U:O4	2.02	0.78
1:AA:917:G:O6	1:AA:918:A:N6	2.16	0.78
1:AA:1226:C:C5	13:AM:102:LYS:HB2	2.17	0.78
1:AA:1377:A:C2	7:AG:6:ILE:HD11	2.18	0.78
1:AA:1534:A:N7	1:AA:1535:C:N4	2.31	0.78
3:AC:76:ILE:HA	3:AC:83:VAL:HG23	1.64	0.78
22:AV:142:U:C2'	22:AV:143:C:H5'	2.12	0.78
22:AV:175:A:O2'	22:AV:176:G:C5'	2.30	0.78
22:AV:199:C:N4	22:AV:229:U:C4	2.52	0.78
22:AV:202:G:H22	22:AV:233:A:N6	1.80	0.78
22:AV:210:C:H6	22:AV:210:C:O5'	1.67	0.78
22:AV:217:G:H2'	22:AV:218:G:H8	1.47	0.78
22:AV:343:C:C5	30:BF:79:ARG:CB	2.61	0.78
23:AW:65:LYS:CB	26:BA:1909:C:OP1	2.32	0.78
25:AY:573:HIS:HD2	25:AY:576:ASP:H	1.28	0.78
26:BA:879:G:O2'	26:BA:880:G:C5'	2.31	0.78
26:BA:900:A:C5'	26:BA:901:C:OP2	2.30	0.78
52:B1:16:THR:HG21	52:B1:41:VAL:HB	1.64	0.78
4:AD:61:ARG:HG2	4:AD:71:PHE:CD2	2.18	0.78
5:AE:114:LEU:HG	5:AE:119:VAL:HG21	1.64	0.78
22:AV:35:C:O2'	22:AV:36:C:C5'	2.31	0.78
22:AV:38:A:H2	22:AV:316:A:N1	1.80	0.78
22:AV:118:C:C2'	22:AV:119:U:H5'	2.13	0.78
22:AV:146:C:O2'	22:AV:147:C:H5'	1.81	0.78
22:AV:225:A:N3	22:AV:226:G:N7	2.30	0.78
22:AV:299:C:O2'	22:AV:300:U:C4'	2.30	0.78
25:AY:122:TRP:CE3	25:AY:132:ARG:HD2	2.17	0.78
26:BA:323:C:H2'	29:BE:163:ASN:ND2	1.98	0.78
26:BA:752:A:N6	26:BA:2609:U:H3	1.80	0.78
26:BA:1074:G:H2'	26:BA:1075:C:H5'	1.65	0.78
26:BA:1203:U:O4	26:BA:1204:A:C6	2.36	0.78
31:BG:37:ASN:O	31:BG:38:ASP:CB	2.30	0.78
42:BR:46:GLU:OE1	42:BR:46:GLU:O	2.01	0.78
1:AA:79:G:H1	1:AA:90:C:H42	1.28	0.78
3:AC:26:LYS:HD2	3:AC:26:LYS:H	1.47	0.78
11:AK:30:ILE:HB	11:AK:45:THR:HG22	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:76:HIS:NE2	25:AY:421:GLN:CG	2.45	0.78
22:AV:39:A:C6	22:AV:40:G:C6	2.71	0.78
22:AV:171:A:O2'	22:AV:172:U:C5'	2.30	0.78
22:AV:240:U:H2'	22:AV:241:C:C6	2.18	0.78
22:AV:306:U:C2	22:AV:307:G:C8	2.71	0.78
26:BA:887:U:HO2'	26:BA:888:C:H2'	1.38	0.78
26:BA:1417:C:H2'	26:BA:1418:G:O4'	1.83	0.78
26:BA:2800:A:H3'	26:BA:2801:G:C5'	2.13	0.78
36:BL:110:VAL:O	36:BL:111:ILE:O	2.02	0.78
38:BN:49:GLU:OE2	38:BN:95:THR:HG22	1.83	0.78
4:AD:31:CYS:O	4:AD:32:LYS:HB2	1.83	0.78
22:AV:9:U:C4'	22:AV:10:U:OP1	2.30	0.78
22:AV:16:U:C5	23:AW:110:ARG:CZ	2.67	0.78
22:AV:155:C:C2'	22:AV:156:G:C5'	2.60	0.78
23:AW:98:LEU:HD21	23:AW:119:LEU:HD13	1.63	0.78
32:BH:125:THR:HA	32:BH:146:VAL:HB	1.63	0.78
1:AA:1530:G:N2	1:AA:1531:A:C6	2.51	0.78
2:AB:22:TRP:CZ3	2:AB:24:PRO:HA	2.19	0.78
22:AV:68:U:H4'	22:AV:69:A:OP1	1.84	0.78
22:AV:235:C:H2'	22:AV:236:U:C5	2.18	0.78
22:AV:257:U:O2	22:AV:258:G:C2	2.35	0.78
25:AY:636:PRO:CB	33:BI:26:ALA:HB3	2.12	0.78
1:AA:376:G:N3	1:AA:389:A:C2	2.52	0.78
1:AA:1338:G:C2'	1:AA:1339:A:H5'	2.14	0.78
21:AU:35:GLU:O	21:AU:36:PHE:HB2	1.83	0.78
22:AV:121:A:O2'	22:AV:122:A:H5"	1.83	0.78
22:AV:185:A:C4	22:AV:186:A:N6	2.52	0.78
22:AV:248:G:O2'	22:AV:249:U:C5'	2.30	0.78
25:AY:91:THR:O	25:AY:93:GLU:N	2.16	0.78
26:BA:877:A:O2'	26:BA:878:A:C5'	2.30	0.78
26:BA:880:G:O2'	26:BA:881:G:C5'	2.30	0.78
2:AB:162:VAL:HG11	2:AB:182:VAL:HG13	1.63	0.78
4:AD:16:THR:HG22	4:AD:17:ASP:N	1.97	0.78
5:AE:23:THR:HA	5:AE:28:ARG:HA	1.66	0.78
22:AV:12:U:O3'	22:AV:13:G:C8	2.36	0.78
22:AV:56:C:O2'	22:AV:57:G:H5'	1.82	0.78
22:AV:71:A:C2'	22:AV:72:A:C8	2.67	0.78
22:AV:113:A:N1	22:AV:114:G:N1	2.32	0.78
26:BA:891:G:O2'	26:BA:892:A:C5'	2.32	0.78
26:BA:1179:G:N7	26:BA:1180:U:H1'	1.99	0.78
40:BP:92:ARG:O	40:BP:93:LYS:CB	2.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:59:U:O2'	22:AV:60:U:C5'	2.30	0.78
22:AV:173:C:O2'	22:AV:174:A:C5'	2.30	0.78
22:AV:217:G:H2'	22:AV:218:G:C8	2.19	0.78
22:AV:314:C:H4'	22:AV:315:G:OP1	1.84	0.78
25:AY:634:MET:HG2	26:BA:1068:G:O2'	1.83	0.78
26:BA:1084:A:H3'	26:BA:1085:A:C8	2.18	0.78
26:BA:1779:U:C5	26:BA:1784:A:N7	2.51	0.78
32:BH:116:ARG:HD2	32:BH:133:GLN:HG2	1.64	0.78
1:AA:921:U:C2	1:AA:1396:A:C2	2.71	0.78
2:AB:46:VAL:HB	2:AB:47:PRO:HD3	1.64	0.78
4:AD:36:ALA:HA	4:AD:41:GLY:CA	2.13	0.78
22:AV:180:G:H2'	22:AV:181:G:N9	1.98	0.78
22:AV:180:G:C4	22:AV:181:G:C8	2.72	0.78
22:AV:296:U:H2'	22:AV:297:G:H8	0.96	0.78
24:AX:1:C:O2'	24:AX:2:G:H5'	1.83	0.78
24:AX:28:U:H2'	24:AX:29:C:C5'	2.14	0.78
24:AX:77:A:H2'	26:BA:2422:C:C4	2.17	0.78
26:BA:904:G:O2'	26:BA:905:A:H5'	1.83	0.78
33:BI:96:LYS:HG3	33:BI:138:VAL:HG22	1.65	0.78
1:AA:1399:C:O2	1:AA:1502:A:N6	2.17	0.78
9:AI:29:ILE:HD11	9:AI:37:TYR:CG	2.19	0.78
22:AV:18:C:C6	22:AV:18:C:OP1	2.37	0.78
22:AV:265:C:O2'	22:AV:266:C:C5'	2.30	0.78
22:AV:323:A:N1	22:AV:324:G:C6	2.52	0.78
23:AW:81:LEU:CD2	23:AW:85:GLU:HG2	2.12	0.78
24:AX:60:A:C2'	24:AX:61:U:H5'	2.13	0.78
26:BA:1567:G:C8	27:BC:82:TYR:CE1	2.72	0.78
26:BA:2283:C:H5"	26:BA:2389:G:O2'	1.83	0.78
1:AA:1078:U:H5"	1:AA:1079:G:OP2	1.84	0.77
2:AB:34:ARG:HA	2:AB:34:ARG:NE	1.98	0.77
22:AV:39:A:C6	22:AV:40:G:C5	2.72	0.77
22:AV:194:G:H2'	22:AV:195:A:C8	2.18	0.77
22:AV:245:C:C4'	22:AV:246:U:OP2	2.31	0.77
22:AV:304:C:O2'	22:AV:305:A:H5'	1.83	0.77
22:AV:334:A:H5'	22:AV:335:C:N3	1.99	0.77
24:AX:5:G:H1	24:AX:69:C:H42	1.29	0.77
26:BA:896:A:H4'	26:BA:897:C:OP1	1.80	0.77
26:BA:1474:U:C4	26:BA:1475:G:N2	2.52	0.77
26:BA:1922:G:C5	26:BA:1923:U:C5	2.72	0.77
29:BE:189:THR:HG22	29:BE:192:ALA:H	1.46	0.77
8:AH:1:SER:C	8:AH:3:GLN:N	2.39	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:243:G:O2'	22:AV:244:G:C5'	2.30	0.77
22:AV:315:G:C4	22:AV:316:A:C5	2.72	0.77
23:AW:102:PRO:HA	23:AW:117:LEU:HD23	1.66	0.77
26:BA:278:A:H2	26:BA:362:A:C8	2.02	0.77
26:BA:790:U:O2'	26:BA:791:C:P	2.42	0.77
26:BA:880:G:H1'	26:BA:899:A:N6	1.99	0.77
26:BA:887:U:O4'	26:BA:888:C:C5'	2.30	0.77
26:BA:2151:U:H2'	26:BA:2152:G:C8	2.20	0.77
17:AQ:47:ASP:OD1	17:AQ:50:ASN:HA	1.85	0.77
22:AV:221:U:C2	22:AV:222:U:C5	2.71	0.77
26:BA:587:C:OP2	36:BL:21:ARG:NH1	2.17	0.77
26:BA:1736:U:H2'	26:BA:1737:G:O4'	1.85	0.77
1:AA:587:G:H4'	8:AH:3:GLN:HA	1.64	0.77
1:AA:1389:C:N3	1:AA:1390:U:N3	2.32	0.77
9:AI:56:MET:SD	9:AI:57:VAL:N	2.57	0.77
22:AV:173:C:O2	22:AV:173:C:H2'	1.82	0.77
25:AY:21:ILE:HG21	25:AY:88:VAL:HG13	1.67	0.77
26:BA:891:G:C2'	26:BA:892:A:C8	2.64	0.77
26:BA:2277:G:H2'	26:BA:2278:A:O5'	1.85	0.77
49:BY:56:LEU:O	49:BY:57:LEU:CB	2.32	0.77
2:AB:81:ASP:O	2:AB:84:LEU:N	2.17	0.77
12:AL:76:HIS:CD2	25:AY:421:GLN:CD	2.62	0.77
22:AV:19:G:H4'	22:AV:20:A:OP1	1.83	0.77
22:AV:21:C:C6	22:AV:22:G:N7	2.52	0.77
22:AV:180:G:C2'	22:AV:181:G:O4'	2.33	0.77
22:AV:243:G:H2'	22:AV:244:G:H8	1.49	0.77
22:AV:270:C:O2	22:AV:293:G:C6	2.37	0.77
22:AV:290:A:H5"	22:AV:291:A:H5'	1.66	0.77
26:BA:2194:U:O2'	26:BA:2195:U:C5'	2.30	0.77
1:AA:1079:G:C3'	1:AA:1080:A:C8	2.67	0.77
1:AA:1080:A:H5"	1:AA:1081:A:OP2	1.85	0.77
22:AV:173:C:C2'	22:AV:174:A:H8	1.96	0.77
22:AV:185:A:H2'	22:AV:186:A:N9	2.00	0.77
22:AV:270:C:C2	22:AV:271:G:C8	2.72	0.77
25:AY:67:ALA:HB1	25:AY:327:PHE:CZ	2.19	0.77
26:BA:359:G:C6	26:BA:360:U:C5	2.73	0.77
26:BA:1869:G:H3'	26:BA:1870:C:H5'	1.66	0.77
26:BA:2142:A:H2'	26:BA:2143:C:C6	2.19	0.77
1:AA:1032:G:C2	1:AA:1033:G:H1'	2.20	0.77
22:AV:218:G:C2	22:AV:219:G:C8	2.72	0.77
22:AV:249:U:O2'	22:AV:250:U:C5'	2.30	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:157:LEU:HD23	25:AY:157:LEU:N	1.97	0.77
26:BA:2152:G:C6	26:BA:2153:C:C4	2.73	0.77
1:AA:71:A:H3'	1:AA:71:A:OP2	1.85	0.77
1:AA:1387:G:C4	1:AA:1388:C:C5	2.73	0.77
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.20	0.77
17:AQ:15:LYS:N	17:AQ:16:MET:SD	2.58	0.77
23:AW:98:LEU:HD21	23:AW:119:LEU:CD2	2.13	0.77
25:AY:196:ILE:O	25:AY:197:ARG:HB2	1.83	0.77
26:BA:873:C:H2'	26:BA:874:G:H8	1.49	0.77
1:AA:1348:U:C5	1:AA:1373:G:N2	2.53	0.77
10:AJ:80:THR:HB	10:AJ:83:THR:HB	1.66	0.77
13:AM:21:ILE:HB	13:AM:24:VAL:HG21	1.66	0.77
22:AV:186:A:H8	22:AV:186:A:P	2.06	0.77
22:AV:207:A:H61	22:AV:222:U:H3	1.31	0.77
22:AV:269:C:C2	22:AV:270:C:C6	2.73	0.77
25:AY:639:ASN:HA	33:BI:29:GLN:HG3	0.80	0.77
37:BM:15:GLY:O	37:BM:16:ARG:HD2	1.85	0.77
16:AP:68:SER:HB2	16:AP:71:VAL:HB	1.67	0.77
22:AV:54:G:OP2	22:AV:54:G:H4'	1.84	0.77
22:AV:174:A:O2'	22:AV:175:A:C5'	2.30	0.77
22:AV:256:G:C2'	22:AV:258:G:O6	2.31	0.77
22:AV:273:A:O2'	22:AV:275:C:N4	2.16	0.77
22:AV:290:A:O2'	22:AV:291:A:C8	2.38	0.77
23:AW:20:TYR:CZ	23:AW:89:LEU:HD22	2.19	0.77
25:AY:169:GLY:HA3	25:AY:173:THR:O	1.85	0.77
26:BA:2790:U:H5'	26:BA:2893:A:N7	1.99	0.77
1:AA:1271:A:H5'	1:AA:1314:C:H5'	1.66	0.76
1:AA:1439:G:C5	1:AA:1440:U:C5	2.73	0.76
2:AB:49:PHE:HA	2:AB:212:TYR:OH	1.85	0.76
3:AC:139:ASN:HA	3:AC:142:ARG:HB2	1.65	0.76
3:AC:142:ARG:NH1	3:AC:142:ARG:CG	2.41	0.76
22:AV:19:G:N2	23:AW:81:LEU:CD1	2.47	0.76
22:AV:137:C:O5'	22:AV:138:C:H5"	1.85	0.76
22:AV:145:C:H2'	22:AV:146:C:H6	1.48	0.76
22:AV:320:U:C1'	22:AV:321:G:OP1	2.30	0.76
23:AW:78:LYS:CG	23:AW:79:LEU:N	2.48	0.76
26:BA:1059:G:OP2	26:BA:1060:U:O2'	2.02	0.76
26:BA:2103:C:C2'	26:BA:2104:C:H5'	2.16	0.76
44:BT:2:ILE:N	44:BT:3:ARG:HB2	2.00	0.76
1:AA:1079:G:N7	1:AA:1080:A:N6	2.33	0.76
10:AJ:57:VAL:O	10:AJ:58:ASN:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:35:ARG:NH2	25:AY:418:LYS:HE3	1.98	0.76
13:AM:44:ILE:HG13	13:AM:47:LEU:HD13	1.67	0.76
22:AV:5:C:O2'	22:AV:6:U:C5'	2.33	0.76
22:AV:62:G:N3	22:AV:63:C:N4	2.33	0.76
22:AV:133:A:O2'	22:AV:134:G:C5'	2.33	0.76
22:AV:264:U:C2	22:AV:298:A:N1	2.54	0.76
24:AX:54:G:H4'	24:AX:55:U:OP1	1.85	0.76
26:BA:197:A:N6	26:BA:2430:A:H2'	2.00	0.76
26:BA:892:A:H2'	26:BA:893:C:H6	1.49	0.76
27:BC:234:GLY:O	27:BC:235:GLU:HB2	1.85	0.76
11:AK:75:GLU:N	11:AK:75:GLU:CD	2.41	0.76
22:AV:21:C:N1	23:AW:78:LYS:NZ	2.33	0.76
22:AV:40:G:N2	22:AV:41:G:C4	2.54	0.76
22:AV:139:C:C2	22:AV:140:U:C5	2.74	0.76
22:AV:139:C:H2'	22:AV:140:U:H6	1.50	0.76
22:AV:263:G:H3'	22:AV:264:U:H5"	1.67	0.76
25:AY:633:GLY:HA3	26:BA:1068:G:C8	2.19	0.76
26:BA:892:A:C2	26:BA:893:C:C4	2.72	0.76
26:BA:905:A:C4	26:BA:906:U:C5	2.73	0.76
27:BC:42:ARG:HH11	27:BC:42:ARG:CG	1.97	0.76
32:BH:82:SER:HB2	32:BH:94:ILE:HD11	1.66	0.76
1:AA:462:G:H3'	1:AA:463:U:H6	1.50	0.76
1:AA:1398:A:N6	5:AE:24:VAL:O	2.18	0.76
11:AK:91:GLY:O	11:AK:95:THR:HG22	1.86	0.76
22:AV:40:G:N3	22:AV:41:G:C8	2.54	0.76
22:AV:137:C:C4	22:AV:138:C:C6	2.74	0.76
22:AV:221:U:H2'	22:AV:222:U:H6	1.51	0.76
27:BC:216:ARG:HB3	27:BC:217:PRO:CD	2.15	0.76
1:AA:131:A:H2'	1:AA:132:C:C6	2.20	0.76
1:AA:1032:G:H5'	1:AA:1033:G:OP2	1.85	0.76
1:AA:1490:U:C2'	1:AA:1491:G:H5'	2.16	0.76
12:AL:24:GLU:O	12:AL:25:ALA:C	2.28	0.76
15:AO:72:LYS:HE2	15:AO:72:LYS:HA	1.66	0.76
22:AV:31:G:N7	22:AV:34:A:C8	2.53	0.76
22:AV:34:A:C2'	22:AV:35:C:C5'	2.57	0.76
25:AY:180:VAL:HG23	25:AY:216:LEU:HD12	1.67	0.76
25:AY:313:ALA:HA	25:AY:328:ILE:HG22	1.67	0.76
26:BA:911:A:C5	37:BM:9:PHE:CG	2.67	0.76
45:BU:6:ARG:O	45:BU:7:ASP:O	2.03	0.76
1:AA:205:A:OP1	1:AA:205:A:H4'	1.84	0.76
1:AA:209:U:C5'	1:AA:210:C:OP2	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:56:LEU:HD22	2:AB:56:LEU:C	2.10	0.76
10:AJ:10:LEU:HD23	10:AJ:96:VAL:HG11	1.68	0.76
16:AP:19:VAL:CG2	16:AP:36:VAL:O	2.33	0.76
22:AV:224:A:OP2	22:AV:224:A:C8	2.39	0.76
24:AX:32:G:H1	24:AX:40:C:H42	0.79	0.76
26:BA:899:A:O2'	26:BA:900:A:H5"	1.86	0.76
53:B2:43:THR:O	53:B2:44:VAL:HB	1.84	0.76
8:AH:74:ILE:HD12	8:AH:127:TYR:O	1.85	0.76
21:AU:36:PHE:HA	21:AU:39:LYS:HE3	1.65	0.76
22:AV:34:A:C2	22:AV:321:G:N2	2.52	0.76
22:AV:271:G:H2'	22:AV:272:C:H6	1.50	0.76
22:AV:288:G:C2	22:AV:289:U:C5	2.74	0.76
22:AV:296:U:C2'	22:AV:297:G:H8	1.85	0.76
22:AV:299:C:H2'	22:AV:299:C:O2	1.85	0.76
25:AY:215:LYS:O	25:AY:219:VAL:HG23	1.86	0.76
26:BA:885:C:H6	26:BA:885:C:O5'	1.67	0.76
26:BA:1528:A:H5"	26:BA:1529:G:OP2	1.85	0.76
37:BM:15:GLY:C	37:BM:16:ARG:HD3	2.10	0.76
50:BZ:1:ALA:HB1	50:BZ:2:LYS:HE3	1.66	0.76
8:AH:100:ILE:HD11	8:AH:128:VAL:CG2	2.16	0.76
10:AJ:44:THR:HG22	10:AJ:70:HIS:HA	1.67	0.76
22:AV:40:G:N2	22:AV:41:G:C5	2.53	0.76
25:AY:453:GLY:HA3	25:AY:459:LEU:CD1	2.16	0.76
26:BA:1053:C:N3	26:BA:1054:A:C8	2.54	0.76
37:BM:51:ARG:O	37:BM:55:ARG:HB2	1.85	0.76
1:AA:927:G:O2'	1:AA:1503:A:C5	2.39	0.76
1:AA:1493:A:H8	1:AA:1493:A:OP2	1.67	0.76
22:AV:13:G:C2	22:AV:344:A:N6	2.54	0.76
22:AV:132:U:O2'	22:AV:133:A:H5"	1.86	0.76
25:AY:415:PRO:HA	25:AY:474:ALA:CB	2.14	0.76
26:BA:1071:G:H1'	26:BA:1089:A:C8	2.21	0.76
33:BI:124:MET:HA	33:BI:127:SER:HB3	1.68	0.76
36:BL:27:LEU:HD23	36:BL:27:LEU:H	1.51	0.76
1:AA:918:A:C5	1:AA:919:A:C5	2.74	0.76
3:AC:71:ARG:O	3:AC:74:ILE:HG22	1.86	0.76
19:AS:14:LEU:HD13	19:AS:32:THR:HG21	1.68	0.76
22:AV:11:C:C2'	22:AV:12:U:OP2	2.32	0.76
22:AV:27:U:C2'	22:AV:28:U:H5'	2.16	0.76
22:AV:44:C:C1'	22:AV:45:A:C8	2.69	0.76
22:AV:68:U:C4	22:AV:303:G:C8	2.73	0.76
22:AV:139:C:H2'	22:AV:140:U:C6	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:141:C:H2'	22:AV:142:U:H6	1.51	0.76
22:AV:193:A:H2'	22:AV:194:G:H8	1.51	0.76
22:AV:195:A:O2'	22:AV:196:G:O5'	2.03	0.76
23:AW:88:ARG:HH12	23:AW:119:LEU:HD21	1.47	0.76
25:AY:199:ILE:HD12	25:AY:199:ILE:O	1.85	0.76
26:BA:1509:A:O2'	26:BA:1510:G:OP2	2.03	0.76
34:BJ:17:VAL:O	34:BJ:17:VAL:HG12	1.86	0.76
3:AC:21:TRP:CB	3:AC:58:ARG:HG2	2.15	0.75
22:AV:46:U:O3'	22:AV:313:C:C5'	2.33	0.75
22:AV:140:U:O2'	22:AV:141:C:H5'	1.85	0.75
22:AV:176:G:H2'	22:AV:177:A:H8	1.51	0.75
22:AV:200:G:H8	22:AV:200:G:P	2.09	0.75
22:AV:212:U:H4'	22:AV:213:G:OP1	1.86	0.75
22:AV:325:G:C2	22:AV:326:A:C8	2.73	0.75
27:BC:226:PRO:HD3	27:BC:233:GLY:HA3	1.69	0.75
30:BF:42:ALA:HB1	30:BF:45:ASP:O	1.86	0.75
40:BP:102:ARG:CG	40:BP:102:ARG:HH11	1.98	0.75
2:AB:215:ALA:O	2:AB:219:THR:HG22	1.86	0.75
21:AU:19:LYS:HA	21:AU:19:LYS:NZ	2.01	0.75
22:AV:165:A:H4'	22:AV:166:C:O5'	1.87	0.75
22:AV:267:G:N2	22:AV:268:U:C2	2.54	0.75
25:AY:201:ILE:H	25:AY:201:ILE:HD12	1.49	0.75
26:BA:866:A:N1	26:BA:867:C:C5	2.54	0.75
26:BA:1585:C:O2'	26:BA:1586:A:H5'	1.85	0.75
1:AA:1078:U:O4	1:AA:1079:G:C2	2.39	0.75
3:AC:24:ASN:O	3:AC:26:LYS:HG2	1.86	0.75
9:AI:113:LYS:HG2	9:AI:119:LYS:HA	1.68	0.75
22:AV:132:U:O2'	22:AV:133:A:C5'	2.35	0.75
22:AV:344:A:C5'	30:BF:76:PHE:H	1.99	0.75
25:AY:6:GLU:HG2	25:AY:6:GLU:O	1.86	0.75
25:AY:238:THR:HG22	25:AY:241:GLU:CG	2.16	0.75
26:BA:2071:A:H2'	26:BA:2072:C:C6	2.22	0.75
32:BH:79:THR:HA	32:BH:145:ASN:HB2	1.68	0.75
1:AA:109:A:H2'	1:AA:326:G:N2	2.01	0.75
4:AD:190:LEU:O	4:AD:191:SER:HB2	1.86	0.75
5:AE:152:VAL:HG11	8:AH:98:LEU:HD13	1.68	0.75
22:AV:44:C:O2	22:AV:307:G:N2	2.17	0.75
22:AV:63:C:C4	22:AV:73:A:C6	2.74	0.75
22:AV:141:C:O2'	22:AV:142:U:H5'	1.86	0.75
22:AV:204:G:H8	22:AV:235:C:N4	1.83	0.75
26:BA:872:U:O2'	26:BA:873:C:H5'	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:882:G:C2	26:BA:895:U:C2	2.75	0.75
26:BA:903:C:C2	26:BA:904:G:C8	2.74	0.75
26:BA:2469:A:H4'	37:BM:55:ARG:HH12	1.51	0.75
33:BI:33:ASN:HB2	33:BI:36:GLU:HG3	1.68	0.75
55:B4:18:LYS:HG3	55:B4:23:ILE:HD13	1.68	0.75
1:AA:170:U:O2'	1:AA:171:A:H5'	1.86	0.75
1:AA:620:C:H1'	4:AD:131:ILE:CD1	2.16	0.75
1:AA:973:G:H1'	10:AJ:56:HIS:HD2	1.50	0.75
1:AA:1100:C:C5	2:AB:94:ARG:CD	2.70	0.75
3:AC:96:VAL:HB	3:AC:97:PRO:CD	2.16	0.75
10:AJ:65:TYR:HB3	14:AN:96:LEU:HD11	1.69	0.75
22:AV:175:A:O2'	22:AV:176:G:H5"	1.86	0.75
22:AV:219:G:O2'	22:AV:220:G:H5'	1.85	0.75
26:BA:898:C:O2	26:BA:898:C:H2'	1.85	0.75
26:BA:2553:G:C5'	26:BA:2554:U:OP2	2.33	0.75
1:AA:1078:U:C4	1:AA:1079:G:C2	2.74	0.75
1:AA:1279:G:C5'	10:AJ:9:ARG:NH2	2.50	0.75
9:AI:128:LYS:CE	24:AX:35:C:C4'	2.64	0.75
22:AV:39:A:C8	22:AV:40:G:N7	2.55	0.75
22:AV:113:A:C2	22:AV:114:G:C2	2.74	0.75
22:AV:219:G:H2'	22:AV:220:G:H8	1.51	0.75
22:AV:257:U:O4	22:AV:273:A:N1	2.20	0.75
22:AV:270:C:H1'	22:AV:293:G:C2	2.20	0.75
24:AX:53:G:N2	24:AX:63:C:N3	2.34	0.75
26:BA:883:G:C2	26:BA:884:U:C5	2.75	0.75
26:BA:905:A:H2'	26:BA:906:U:C6	2.21	0.75
26:BA:1869:G:C3'	26:BA:1870:C:H5'	2.16	0.75
45:BU:11:ILE:HG21	45:BU:79:ALA:HB2	1.68	0.75
1:AA:1081:A:H5'	5:AE:22:LYS:HZ1	1.50	0.75
1:AA:1389:C:C2	1:AA:1390:U:C4	2.75	0.75
5:AE:81:GLN:N	5:AE:146:MET:CE	2.50	0.75
9:AI:128:LYS:HE3	24:AX:35:C:C4'	2.12	0.75
11:AK:41:LEU:HB3	11:AK:76:TYR:CE2	2.21	0.75
22:AV:42:U:H2'	22:AV:43:G:H8	1.51	0.75
22:AV:187:C:O2	22:AV:188:C:C6	2.39	0.75
22:AV:361:C:O5'	26:BA:2602:A:O2'	2.02	0.75
25:AY:641:GLN:CD	26:BA:1095:A:O2'	2.30	0.75
26:BA:1070:A:C2	26:BA:1097:U:H4'	2.22	0.75
26:BA:1462:C:C2'	26:BA:1463:C:H5'	2.15	0.75
26:BA:1494:A:H2'	26:BA:1495:A:O5'	1.86	0.75
1:AA:1100:C:C4	2:AB:94:ARG:CD	2.65	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1233:G:OP2	9:AI:125:GLN:HB2	1.86	0.75
4:AD:190:LEU:O	4:AD:191:SER:CB	2.33	0.75
22:AV:144:U:O4	22:AV:175:A:N1	2.20	0.75
25:AY:363:ARG:HH11	25:AY:363:ARG:HG3	1.51	0.75
26:BA:78:U:OP2	49:BY:2:LYS:HD3	1.87	0.75
26:BA:866:A:N7	26:BA:914:G:C5	2.55	0.75
26:BA:1494:A:C2'	26:BA:1495:A:O5'	2.34	0.75
26:BA:1530:G:O6	26:BA:1541:C:N3	2.20	0.75
46:BV:80:HIS:CE1	46:BV:81:PRO:HD2	2.20	0.75
1:AA:428:G:O4'	1:AA:430:A:C8	2.40	0.75
3:AC:41:TYR:CE2	3:AC:45:GLU:HG3	2.22	0.75
9:AI:95:SER:HA	9:AI:98:ARG:HB2	1.69	0.75
10:AJ:5:ARG:HG2	10:AJ:79:PRO:HB3	1.69	0.75
22:AV:63:C:O2'	22:AV:64:C:H5"	1.87	0.75
22:AV:149:A:H1'	22:AV:150:G:N7	2.01	0.75
22:AV:156:G:H2'	22:AV:157:C:C5	2.22	0.75
22:AV:206:A:H2'	22:AV:206:A:N3	2.01	0.75
25:AY:423:LYS:HB3	25:AY:472:VAL:CG2	2.17	0.75
26:BA:139:U:C4	44:BT:2:ILE:HD13	2.22	0.75
26:BA:2681:C:OP2	28:BD:114:LYS:HE3	1.85	0.75
27:BC:72:GLY:HA2	27:BC:116:GLN:NE2	2.01	0.75
37:BM:36:VAL:HG23	37:BM:129:THR:HG22	1.68	0.75
1:AA:1079:G:C6	1:AA:1080:A:C6	2.75	0.74
1:AA:1291:U:OP1	7:AG:36:SER:OG	2.03	0.74
1:AA:1389:C:O2	1:AA:1390:U:C2	2.40	0.74
4:AD:16:THR:CG2	4:AD:17:ASP:N	2.50	0.74
4:AD:57:LYS:HB3	4:AD:199:ILE:HB	1.70	0.74
9:AI:48:ARG:C	9:AI:48:ARG:HD3	2.11	0.74
10:AJ:27:GLU:HA	10:AJ:30:LYS:CE	2.17	0.74
22:AV:224:A:HO2'	22:AV:225:A:H8	0.76	0.74
23:AW:83:LYS:HG2	23:AW:84:HIS:N	2.02	0.74
25:AY:177:ILE:C	25:AY:178:ILE:HD12	2.11	0.74
26:BA:547:A:N7	26:BA:548:G:H1'	2.01	0.74
26:BA:1179:G:H3'	26:BA:1180:U:H4'	1.69	0.74
34:BJ:30:THR:HG22	34:BJ:31:GLU:N	2.00	0.74
1:AA:711:G:O2'	1:AA:712:A:H5'	1.86	0.74
1:AA:1228:C:OP2	13:AM:106:ARG:NH2	2.20	0.74
1:AA:1377:A:C2	7:AG:6:ILE:CD1	2.70	0.74
2:AB:60:ALA:HA	2:AB:64:GLY:CA	2.17	0.74
9:AI:10:ARG:HB2	9:AI:14:SER:O	1.87	0.74
15:AO:66:LEU:HD13	15:AO:87:ARG:NH2	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:40:PRO:HA	21:AU:44:ARG:NH1	2.01	0.74
22:AV:141:C:H2'	22:AV:142:U:C6	2.22	0.74
22:AV:270:C:H2'	22:AV:271:G:H5'	1.69	0.74
22:AV:46:U:H4'	22:AV:312:A:C3'	2.15	0.74
22:AV:267:G:H2'	22:AV:268:U:C6	2.22	0.74
25:AY:92:ILE:HG12	25:AY:405:PRO:HG2	1.69	0.74
25:AY:165:GLN:HB2	25:AY:260:LEU:HD11	1.69	0.74
26:BA:911:A:OP1	26:BA:912:C:H6	1.68	0.74
26:BA:2800:A:H3'	26:BA:2801:G:H5'	1.69	0.74
36:BL:111:ILE:N	36:BL:111:ILE:HD12	2.03	0.74
1:AA:1098:C:H5'	1:AA:1169:A:H1'	1.70	0.74
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.23	0.74
3:AC:142:ARG:CZ	22:AV:129:G:OP1	2.35	0.74
18:AR:42:ARG:HG2	18:AR:43:ILE:HD13	1.69	0.74
22:AV:162:A:H2'	22:AV:163:G:H8	1.52	0.74
25:AY:613:PRO:C	25:AY:615:GLU:H	1.94	0.74
26:BA:875:G:N1	26:BA:902:C:N4	2.19	0.74
26:BA:1073:A:C8	26:BA:1073:A:OP1	2.40	0.74
26:BA:2230:G:H5"	48:BX:29:LEU:HD12	1.70	0.74
31:BG:23:ILE:O	31:BG:33:THR:HA	1.87	0.74
34:BJ:81:ILE:CG1	34:BJ:82:GLY:N	2.48	0.74
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.67	0.74
1:AA:1502:A:C8	1:AA:1504:G:C4	2.76	0.74
8:AH:1:SER:O	8:AH:3:GLN:N	2.21	0.74
22:AV:231:A:C2	22:AV:232:A:N6	2.56	0.74
22:AV:257:U:C2	22:AV:259:G:C8	2.75	0.74
22:AV:263:G:H8	22:AV:308:U:H5	1.35	0.74
26:BA:1585:C:H2'	26:BA:1586:A:O5'	1.87	0.74
26:BA:1929:G:C5'	26:BA:1929:G:N3	2.51	0.74
44:BT:88:LYS:O	44:BT:89:GLU:HG2	1.88	0.74
1:AA:946:A:C2	1:AA:1236:A:C2	2.76	0.74
16:AP:39:PHE:C	16:AP:39:PHE:CD1	2.64	0.74
22:AV:34:A:O2'	22:AV:35:C:H5'	1.84	0.74
22:AV:154:C:O2	22:AV:154:C:C2'	2.35	0.74
22:AV:200:G:H8	22:AV:200:G:O5'	1.70	0.74
25:AY:512:ILE:HD12	25:AY:589:ALA:HB1	1.69	0.74
25:AY:617:MET:HE1	26:BA:1095:A:HO2'	1.50	0.74
26:BA:1179:G:OP2	26:BA:1180:U:H5"	1.88	0.74
26:BA:2275:C:O2	37:BM:84:LYS:HD3	1.88	0.74
32:BH:76:GLU:HG2	32:BH:76:GLU:O	1.85	0.74
35:BK:113:MET:O	35:BK:114:LYS:C	2.30	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:447:G:N2	1:AA:486:U:C5	2.55	0.74
22:AV:158:U:H1'	22:AV:197:A:N3	2.00	0.74
22:AV:184:A:C8	22:AV:185:A:C6	2.75	0.74
25:AY:446:THR:O	25:AY:448:GLN:HG2	1.87	0.74
26:BA:2748:A:H1'	31:BG:66:THR:HG22	1.69	0.74
27:BC:110:LYS:HE2	27:BC:113:ASP:OD1	1.87	0.74
1:AA:204:G:H2'	1:AA:205:A:O4'	1.87	0.74
1:AA:239:U:H5"	1:AA:240:G:OP2	1.88	0.74
1:AA:1043:G:H2'	1:AA:1044:A:H5"	1.69	0.74
19:AS:50:VAL:HG22	19:AS:70:LEU:CD1	2.18	0.74
22:AV:6:U:O2'	22:AV:7:G:H5'	1.86	0.74
22:AV:39:A:N7	22:AV:40:G:N7	2.35	0.74
22:AV:46:U:C1'	22:AV:312:A:H4'	2.17	0.74
22:AV:257:U:O4	22:AV:273:A:C6	2.41	0.74
22:AV:315:G:N3	22:AV:316:A:N7	2.35	0.74
22:AV:324:G:N3	22:AV:325:G:N7	2.35	0.74
23:AW:62:PRO:HB3	23:AW:70:ASN:HD22	1.52	0.74
23:AW:72:ASP:HB2	23:AW:75:ARG:HH21	1.52	0.74
24:AX:2:G:O2'	24:AX:3:C:H6	1.71	0.74
26:BA:879:G:C3'	26:BA:880:G:H5'	2.17	0.74
29:BE:18:THR:HG22	29:BE:19:PHE:CD2	2.23	0.74
32:BH:59:ALA:O	32:BH:62:LEU:HG	1.86	0.74
38:BN:24:MET:HG2	38:BN:44:LEU:HD22	1.69	0.74
4:AD:150:LYS:CA	4:AD:177:MET:HE1	2.18	0.74
9:AI:128:LYS:CE	24:AX:35:C:C5'	2.04	0.74
22:AV:9:U:H3'	23:AW:35:ARG:HH22	1.51	0.74
22:AV:145:C:O2'	22:AV:146:C:H5'	1.88	0.74
25:AY:428:LEU:CD1	25:AY:440:VAL:HG11	2.17	0.74
56:BB:33:G:O2'	56:BB:34:A:H5'	1.88	0.74
2:AB:20:ARG:O	2:AB:22:TRP:N	2.21	0.74
6:AF:18:VAL:HB	6:AF:19:PRO:CD	2.18	0.74
22:AV:19:G:O3'	22:AV:20:A:H8	1.71	0.74
22:AV:63:C:H1'	22:AV:73:A:C2	2.22	0.74
22:AV:192:A:O2'	22:AV:193:A:H5'	1.87	0.74
24:AX:49:C:H4'	24:AX:50:G:C5'	2.18	0.74
33:BI:20:SER:HA	33:BI:24:GLY:CA	2.18	0.74
42:BR:24:LYS:HA	42:BR:94:THR:HG23	1.69	0.74
5:AE:44:ARG:HG2	5:AE:72:ASN:HB3	1.69	0.73
16:AP:77:GLU:C	16:AP:79:ASN:H	1.96	0.73
17:AQ:59:GLU:HB3	17:AQ:75:VAL:HG23	1.69	0.73
22:AV:4:G:O2'	22:AV:5:C:H5'	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:56:C:O2'	22:AV:57:G:O5'	2.06	0.73
26:BA:866:A:C1'	26:BA:914:G:N3	2.51	0.73
26:BA:883:G:N1	26:BA:884:U:C4	2.55	0.73
26:BA:899:A:C2	26:BA:900:A:N7	2.56	0.73
26:BA:1082:U:OP1	33:BI:123:ALA:HB1	1.87	0.73
1:AA:1502:A:N7	1:AA:1504:G:C2	2.56	0.73
21:AU:13:VAL:HG13	21:AU:15:LEU:HD21	1.69	0.73
22:AV:245:C:O3'	22:AV:248:G:C4	2.41	0.73
22:AV:343:C:H5	30:BF:79:ARG:HB2	1.44	0.73
24:AX:72:C:O2'	26:BA:1851:U:C1'	2.35	0.73
25:AY:281:PRO:HB2	25:AY:286:ILE:CD1	2.15	0.73
26:BA:880:G:H2'	26:BA:881:G:H5'	1.69	0.73
26:BA:1085:A:C6	26:BA:1086:A:N6	2.57	0.73
1:AA:138:G:C2'	1:AA:139:A:H5'	2.18	0.73
1:AA:496:A:C2	1:AA:497:G:C5	2.75	0.73
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.22	0.73
11:AK:15:VAL:HG12	11:AK:76:TYR:HB3	1.71	0.73
22:AV:142:U:H2'	22:AV:143:C:H6	1.51	0.73
22:AV:225:A:C2	22:AV:226:G:C8	2.76	0.73
22:AV:311:U:O2'	22:AV:312:A:C5'	2.30	0.73
25:AY:514:VAL:HG21	25:AY:593:ALA:CB	2.18	0.73
26:BA:1046:A:H4'	26:BA:1046:A:OP2	1.86	0.73
26:BA:1073:A:H3'	26:BA:1074:G:H5"	1.69	0.73
42:BR:49:ILE:HB	42:BR:52:PRO:CA	2.17	0.73
22:AV:186:A:C8	22:AV:186:A:P	2.81	0.73
22:AV:213:G:N2	22:AV:245:C:H42	1.85	0.73
22:AV:315:G:C5	22:AV:316:A:C6	2.75	0.73
22:AV:343:C:C4'	30:BF:78:ILE:CD1	2.44	0.73
25:AY:180:VAL:HG23	25:AY:181:LEU:H	1.53	0.73
25:AY:530:VAL:HG13	25:AY:531:GLY:H	1.53	0.73
25:AY:628:ARG:HH12	25:AY:680:PRO:HG2	1.53	0.73
26:BA:662:G:C2'	26:BA:663:G:H5'	2.18	0.73
2:AB:65:LYS:HB2	2:AB:158:ASP:OD2	1.88	0.73
22:AV:11:C:H2'	22:AV:12:U:OP2	1.88	0.73
22:AV:29:G:H2'	22:AV:30:C:H5"	1.69	0.73
22:AV:181:G:H2'	22:AV:181:G:N3	2.03	0.73
26:BA:882:G:H2'	26:BA:883:G:C8	2.23	0.73
27:BC:268:ARG:HH11	27:BC:268:ARG:HG2	1.54	0.73
38:BN:2:ARG:O	38:BN:2:ARG:HD3	1.87	0.73
38:BN:103:ARG:HD3	38:BN:110:MET:HE2	1.70	0.73
46:BV:6:ALA:HB1	46:BV:40:ILE:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:114:U:H2'	1:AA:115:G:C8	2.23	0.73
1:AA:142:G:H3'	1:AA:143:A:H8	1.53	0.73
1:AA:1366:C:O2'	1:AA:1367:C:H5'	1.89	0.73
1:AA:1452:C:H4'	1:AA:1453:G:H5"	1.70	0.73
4:AD:176:LYS:N	4:AD:176:LYS:HD3	2.04	0.73
22:AV:47:G:C2'	22:AV:48:C:C6	2.55	0.73
22:AV:168:G:H2'	22:AV:169:G:H8	1.53	0.73
24:AX:49:C:OP1	24:AX:49:C:H6	1.72	0.73
25:AY:121:VAL:HG23	25:AY:122:TRP:H	1.54	0.73
26:BA:2193:G:O2'	26:BA:2194:U:C5'	2.34	0.73
49:BY:14:LEU:C	49:BY:17:GLU:HB3	2.14	0.73
1:AA:1138:G:H5"	1:AA:1138:G:N3	2.03	0.73
20:AT:27:MET:HG2	20:AT:31:ILE:HD11	1.70	0.73
22:AV:199:C:OP2	22:AV:199:C:H5	1.70	0.73
26:BA:901:C:O2	26:BA:902:C:H5"	1.88	0.73
26:BA:2075:U:H2'	26:BA:2077:A:OP2	1.87	0.73
26:BA:2094:A:H5"	32:BH:25:TYR:CD2	2.24	0.73
43:BS:59:GLU:HA	43:BS:64:ALA:HA	1.70	0.73
1:AA:920:U:O4	1:AA:1396:A:N7	2.12	0.73
22:AV:324:G:N2	22:AV:325:G:O6	2.21	0.73
22:AV:342:PSU:O2	22:AV:345:A:OP2	2.06	0.73
25:AY:658:ASP:CG	31:BG:176:LYS:CE	2.61	0.73
1:AA:978:A:C5	1:AA:1319:A:C2	2.77	0.73
12:AL:20:VAL:HG23	12:AL:94:TYR:CE1	2.23	0.73
22:AV:116:A:N3	22:AV:129:G:C2	2.57	0.73
22:AV:324:G:C2	22:AV:325:G:O6	2.42	0.73
26:BA:416:U:C6	26:BA:417:C:C5	2.76	0.73
26:BA:479:A:N3	26:BA:481:G:H5"	2.04	0.73
26:BA:868:U:O2'	26:BA:869:G:H5'	1.87	0.73
26:BA:889:C:C4	26:BA:891:G:O6	2.42	0.73
26:BA:1519:G:C5	26:BA:1520:U:C5	2.77	0.73
48:BX:40:GLU:HG3	48:BX:41:SER:N	2.04	0.73
1:AA:17:U:H4'	1:AA:1079:G:O2'	1.88	0.73
22:AV:17:U:H1'	23:AW:112:TYR:CD2	2.23	0.73
22:AV:171:A:H2'	22:AV:172:U:C6	2.24	0.73
22:AV:324:G:C2	22:AV:325:G:N7	2.56	0.73
22:AV:344:A:C8	30:BF:77:LYS:C	2.64	0.73
23:AW:63:TYR:HD2	23:AW:64:GLU:N	1.86	0.73
24:AX:77:A:C4	26:BA:2421:G:H2'	2.24	0.73
26:BA:883:G:C6	26:BA:884:U:O4	2.42	0.73
26:BA:2297:A:N1	26:BA:2321:U:C5	2.57	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:913:A:H4'	1:AA:914:A:OP1	1.89	0.72
9:AI:46:VAL:HG21	9:AI:75:ALA:HB1	1.71	0.72
21:AU:13:VAL:O	21:AU:15:LEU:HG	1.89	0.72
22:AV:9:U:H1'	22:AV:10:U:O5'	1.89	0.72
22:AV:20:A:C8	22:AV:21:C:N4	2.57	0.72
22:AV:20:A:H2'	22:AV:21:C:C6	2.24	0.72
22:AV:21:C:H2'	22:AV:22:G:C8	2.19	0.72
22:AV:139:C:C2	22:AV:182:U:H6	2.07	0.72
24:AX:2:G:O2'	24:AX:3:C:C6	2.40	0.72
25:AY:227:ILE:HD11	25:AY:241:GLU:O	1.88	0.72
26:BA:2127:G:N1	26:BA:2161:C:C2	2.56	0.72
26:BA:2172:U:H4'	26:BA:2173:A:H5'	1.70	0.72
33:BI:18:ASN:HB2	33:BI:37:PHE:HB3	1.70	0.72
1:AA:613:C:O2'	1:AA:614:C:H5'	1.89	0.72
1:AA:929:G:C5'	1:AA:1533:C:H5'	2.19	0.72
1:AA:1389:C:O2	1:AA:1389:C:H2'	1.88	0.72
11:AK:51:PHE:HZ	11:AK:64:VAL:HG11	1.54	0.72
22:AV:185:A:C4	22:AV:186:A:C6	2.77	0.72
22:AV:208:G:H2'	22:AV:209:C:C6	2.25	0.72
22:AV:238:A:C4	22:AV:239:A:N7	2.57	0.72
23:AW:64:GLU:O	23:AW:65:LYS:C	2.32	0.72
24:AX:58:A:O2'	24:AX:59:A:H5'	1.88	0.72
1:AA:1103:C:H5"	2:AB:96:LEU:CA	2.18	0.72
1:AA:1530:G:O2'	1:AA:1531:A:OP2	2.08	0.72
22:AV:29:G:C2'	22:AV:30:C:H5"	2.18	0.72
22:AV:46:U:O3'	22:AV:313:C:H5"	1.88	0.72
22:AV:272:C:HO2'	22:AV:291:A:N6	1.86	0.72
23:AW:5:LEU:C	23:AW:5:LEU:CD1	2.61	0.72
24:AX:33:C:O2'	24:AX:34:U:H5"	1.89	0.72
25:AY:128:TYR:O	25:AY:129:LYS:HB2	1.88	0.72
26:BA:869:G:O2'	26:BA:870:U:C5'	2.37	0.72
26:BA:878:A:O2'	26:BA:879:G:C5'	2.30	0.72
28:BD:1:MET:SD	28:BD:100:LEU:HD11	2.29	0.72
32:BH:112:LYS:HA	32:BH:115:VAL:HG23	1.69	0.72
48:BX:65:THR:O	48:BX:68:ALA:HB3	1.89	0.72
1:AA:844:G:C5	1:AA:846:G:O2'	2.43	0.72
1:AA:1390:U:OP2	1:AA:1390:U:H5	1.72	0.72
3:AC:180:ASP:OD2	3:AC:203:LYS:HB2	1.89	0.72
5:AE:81:GLN:H	5:AE:146:MET:CE	2.01	0.72
22:AV:9:U:H5'	23:AW:35:ARG:NH1	2.04	0.72
22:AV:276:U:O2'	22:AV:277:G:H5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:276:U:H2'	22:AV:277:G:C8	2.24	0.72
24:AX:33:C:C2'	24:AX:34:U:C5'	2.68	0.72
26:BA:4:U:O2'	26:BA:5:A:H5'	1.89	0.72
26:BA:1092:C:H2'	26:BA:1093:G:O4'	1.89	0.72
28:BD:151:THR:HG22	28:BD:152:PRO:HD2	1.70	0.72
29:BE:111:GLU:OE1	29:BE:111:GLU:HA	1.89	0.72
33:BI:6:ALA:HB2	33:BI:60:VAL:HB	1.71	0.72
42:BR:49:ILE:HB	42:BR:52:PRO:C	2.15	0.72
52:B1:16:THR:HG22	52:B1:41:VAL:HG11	1.72	0.72
1:AA:1097:C:O2'	1:AA:1169:A:C2'	2.38	0.72
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.24	0.72
10:AJ:27:GLU:HA	10:AJ:30:LYS:HE2	1.68	0.72
14:AN:31:SER:O	14:AN:32:ASP:HB2	1.88	0.72
22:AV:13:G:N2	22:AV:344:A:C5	2.58	0.72
22:AV:21:C:C4'	23:AW:52:GLU:OE2	2.37	0.72
22:AV:221:U:C2	22:AV:222:U:C6	2.77	0.72
22:AV:223:G:N3	22:AV:223:G:H2'	2.04	0.72
22:AV:244:G:C2'	22:AV:245:C:O4'	2.30	0.72
22:AV:267:G:C2	22:AV:268:U:C2	2.76	0.72
25:AY:468:ARG:HH11	25:AY:468:ARG:CB	2.01	0.72
25:AY:512:ILE:H	25:AY:512:ILE:HD13	1.53	0.72
26:BA:45:G:H4'	26:BA:46:G:H5'	1.72	0.72
26:BA:2820:A:H4'	38:BN:3:HIS:CD2	2.24	0.72
29:BE:118:LEU:HD12	29:BE:119:ILE:N	2.03	0.72
42:BR:25:LEU:H	42:BR:94:THR:CG2	2.01	0.72
22:AV:266:C:C5	22:AV:267:G:H8	2.07	0.72
23:AW:72:ASP:CG	23:AW:75:ARG:HE	1.97	0.72
24:AX:17:C:H3'	24:AX:18:U:C5'	2.18	0.72
25:AY:227:ILE:HG23	25:AY:237:PRO:CG	2.20	0.72
25:AY:620:VAL:O	25:AY:624:LEU:HD13	1.89	0.72
26:BA:911:A:C6	37:BM:9:PHE:CD2	2.71	0.72
37:BM:111:GLU:C	37:BM:111:GLU:OE1	2.33	0.72
49:BY:46:VAL:O	49:BY:50:VAL:HG23	1.90	0.72
56:BB:33:G:C2'	56:BB:34:A:H5'	2.19	0.72
1:AA:208:U:C5	1:AA:210:C:C4	2.77	0.72
1:AA:684:U:H1'	11:AK:39:ASN:O	1.90	0.72
1:AA:1031:C:O2'	1:AA:1032:G:OP2	2.08	0.72
1:AA:1390:U:P	1:AA:1390:U:H6	2.12	0.72
2:AB:84:LEU:HG	2:AB:85:SER:N	2.02	0.72
9:AI:24:ASN:HB3	9:AI:58:GLU:CD	2.15	0.72
22:AV:63:C:C2	22:AV:73:A:C6	2.78	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:113:A:N1	22:AV:114:G:C6	2.58	0.72
22:AV:245:C:C3'	22:AV:248:G:C4	2.71	0.72
22:AV:308:U:H1'	22:AV:309:A:P	2.30	0.72
26:BA:674:G:H1'	29:BE:69:ARG:HD3	1.72	0.72
27:BC:242:HIS:O	27:BC:243:PRO:C	2.30	0.72
31:BG:172:GLU:HA	31:BG:172:GLU:OE1	1.88	0.72
1:AA:277:C:C2'	1:AA:278:G:O5'	2.38	0.72
1:AA:1375:A:C6	1:AA:1376:U:N3	2.58	0.72
20:AT:28:ARG:HA	20:AT:31:ILE:HD12	1.72	0.72
23:AW:50:ASP:CG	23:AW:51:GLY:N	2.46	0.72
23:AW:55:LEU:HD11	23:AW:102:PRO:CG	2.12	0.72
26:BA:614:A:O2'	26:BA:615:U:OP2	2.07	0.72
26:BA:1908:C:H5"	26:BA:1909:C:OP2	1.90	0.72
26:BA:2886:A:C5	26:BA:2887:A:C8	2.78	0.72
33:BI:96:LYS:HB3	33:BI:138:VAL:CG2	2.20	0.72
43:BS:45:VAL:O	43:BS:46:LEU:C	2.33	0.72
1:AA:58:C:O2'	1:AA:388:G:N7	2.17	0.72
1:AA:439:U:C5	1:AA:440:C:C5	2.78	0.72
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.20	0.72
1:AA:1446:A:O2'	1:AA:1447:A:H5'	1.90	0.72
1:AA:1538:C:H2'	1:AA:1539:C:H5'	1.70	0.72
2:AB:193:ASP:OD1	2:AB:193:ASP:C	2.32	0.72
13:AM:14:ALA:O	13:AM:18:LEU:HD23	1.90	0.72
22:AV:131:U:C4'	22:AV:132:U:OP2	2.30	0.72
22:AV:184:A:H2'	22:AV:185:A:C4	2.25	0.72
25:AY:626:ALA:CA	26:BA:2473:U:C1'	2.48	0.72
25:AY:634:MET:HG2	26:BA:1068:G:H1'	1.71	0.72
26:BA:321:U:OP2	29:BE:130:LYS:HD3	1.90	0.72
26:BA:1171:G:C2	26:BA:1172:C:C2	2.78	0.72
26:BA:2096:C:OP2	32:BH:11:ASN:CG	2.33	0.72
2:AB:45:THR:HG23	2:AB:200:PRO:HB2	1.69	0.72
2:AB:110:ILE:HD11	2:AB:147:LEU:HD22	1.71	0.72
2:AB:163:ILE:HG23	2:AB:164:ASP:H	1.55	0.72
13:AM:71:GLU:O	13:AM:74:MET:HB3	1.90	0.72
25:AY:225:GLU:O	25:AY:228:MET:HE2	1.88	0.72
26:BA:242:G:O5'	54:B3:2:LYS:HE2	1.90	0.72
26:BA:899:A:O2'	26:BA:900:A:C5'	2.38	0.72
26:BA:901:C:O2	26:BA:901:C:C3'	2.38	0.72
27:BC:35:LYS:O	27:BC:36:ASN:HB3	1.89	0.72
30:BF:48:LEU:HD12	30:BF:51:ASN:ND2	2.05	0.72
33:BI:105:LEU:HA	33:BI:108:ILE:HB	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BQ:40:LYS:HA	41:BQ:43:GLN:HG3	1.70	0.72
45:BU:15:GLY:O	45:BU:17:ASP:N	2.23	0.72
1:AA:702:A:N6	26:BA:1846:G:H5"	2.04	0.71
1:AA:1216:A:C4	1:AA:1217:C:C5	2.78	0.71
4:AD:58:GLN:O	4:AD:62:ARG:HG2	1.90	0.71
12:AL:62:VAL:HG22	12:AL:63:THR:H	1.54	0.71
22:AV:49:C:C4	22:AV:303:G:O6	2.43	0.71
22:AV:247:A:C4'	22:AV:248:G:H8	2.03	0.71
22:AV:303:G:C4	22:AV:304:C:C5	2.78	0.71
23:AW:27:LYS:HD3	23:AW:30:GLU:CD	2.16	0.71
26:BA:889:C:O2	26:BA:891:G:C8	2.43	0.71
1:AA:649:A:H2'	1:AA:650:G:O4'	1.90	0.71
1:AA:1168:U:O2	1:AA:1168:U:H2'	1.88	0.71
1:AA:1216:A:C6	1:AA:1217:C:N4	2.58	0.71
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.89	0.71
1:AA:1303:C:H2'	1:AA:1304:G:O5'	1.90	0.71
11:AK:22:ILE:HG13	11:AK:85:VAL:HA	1.72	0.71
21:AU:25:ALA:HA	21:AU:28:LEU:HB3	1.71	0.71
23:AW:3:PRO:O	23:AW:4:VAL:HB	1.89	0.71
25:AY:90:PHE:HB2	25:AY:454:MET:HE3	1.69	0.71
26:BA:271:G:H4'	26:BA:272:A:OP1	1.89	0.71
1:AA:590:U:O2'	1:AA:591:U:H5'	1.90	0.71
1:AA:1078:U:C5	1:AA:1079:G:C5	2.78	0.71
9:AI:62:LEU:N	9:AI:62:LEU:HD22	2.05	0.71
11:AK:22:ILE:HG12	11:AK:85:VAL:HG22	1.72	0.71
22:AV:39:A:H3'	22:AV:39:A:N3	2.05	0.71
22:AV:40:G:O2'	22:AV:41:G:H5'	1.90	0.71
22:AV:66:C:O2'	22:AV:67:G:H5'	1.89	0.71
22:AV:147:C:O2'	22:AV:148:U:H5'	1.90	0.71
22:AV:296:U:C2	22:AV:297:G:C5	2.78	0.71
25:AY:343:ASN:HD22	25:AY:344:THR:N	1.88	0.71
25:AY:641:GLN:NE2	26:BA:1095:A:O2'	2.23	0.71
26:BA:58:G:OP1	44:BT:78:SER:HB3	1.90	0.71
26:BA:1104:C:C2	26:BA:1105:U:C5	2.78	0.71
26:BA:2152:G:C2'	26:BA:2153:C:H5'	2.20	0.71
1:AA:368:U:H3'	25:AY:354:ARG:HH12	1.55	0.71
1:AA:409:U:OP1	4:AD:23:GLY:HA3	1.91	0.71
1:AA:622:A:C8	1:AA:623:C:C6	2.78	0.71
1:AA:1202:U:C2	14:AN:82:ILE:HG21	2.26	0.71
1:AA:1534:A:C5	1:AA:1535:C:N4	2.58	0.71
4:AD:167:PRO:HG2	4:AD:170:LEU:HD11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:165:A:H5'	22:AV:166:C:C2	2.26	0.71
22:AV:244:G:H2'	22:AV:245:C:C1'	2.19	0.71
25:AY:343:ASN:HD22	25:AY:343:ASN:C	1.95	0.71
26:BA:1062:G:OP1	26:BA:1070:A:H4'	1.89	0.71
26:BA:2648:G:H2'	26:BA:2649:C:C6	2.24	0.71
27:BC:16:VAL:HB	27:BC:203:VAL:HG22	1.71	0.71
54:B3:30:HIS:O	54:B3:31:ILE:C	2.33	0.71
1:AA:1060:U:H4'	10:AJ:53:ILE:HG22	1.72	0.71
1:AA:1476:A:H2'	1:AA:1477:U:O4'	1.91	0.71
3:AC:96:VAL:HB	3:AC:97:PRO:HD2	1.72	0.71
22:AV:40:G:C6	22:AV:316:A:N3	2.57	0.71
23:AW:83:LYS:HA	23:AW:86:LEU:HD22	1.72	0.71
25:AY:631:ILE:C	26:BA:1067:A:N6	1.93	0.71
26:BA:528:A:H2	26:BA:2043:C:C5'	2.03	0.71
26:BA:892:A:N3	26:BA:893:C:C5	2.58	0.71
26:BA:1925:C:H4'	26:BA:1926:U:C5	2.25	0.71
1:AA:380:G:N2	1:AA:384:G:C6	2.59	0.71
1:AA:927:G:O2'	1:AA:1503:A:N6	2.23	0.71
1:AA:1079:G:C4	1:AA:1080:A:C6	2.78	0.71
1:AA:1107:C:C4	1:AA:1108:G:N7	2.59	0.71
1:AA:1280:A:H5"	10:AJ:42:LEU:HD21	1.72	0.71
5:AE:131:ASN:C	5:AE:131:ASN:HD22	1.99	0.71
17:AQ:67:SER:O	17:AQ:68:LYS:C	2.33	0.71
22:AV:54:G:H2'	22:AV:54:G:N3	2.05	0.71
22:AV:137:C:C5'	22:AV:138:C:H5"	2.19	0.71
22:AV:158:U:N1	22:AV:197:A:N1	2.37	0.71
22:AV:188:C:O2'	22:AV:189:C:H5"	1.91	0.71
22:AV:210:C:HO2'	22:AV:240:U:H5	1.13	0.71
22:AV:225:A:N1	22:AV:226:G:C5	2.58	0.71
22:AV:343:C:C4'	30:BF:78:ILE:CG1	2.67	0.71
25:AY:459:LEU:H	25:AY:459:LEU:HD12	1.55	0.71
26:BA:897:C:C2	26:BA:898:C:C6	2.79	0.71
26:BA:1846:G:N2	26:BA:1895:C:C2	2.58	0.71
27:BC:104:LEU:N	27:BC:104:LEU:CD1	2.53	0.71
31:BG:25:ILE:O	31:BG:78:VAL:HG11	1.89	0.71
47:BW:37:ARG:HG3	47:BW:37:ARG:HH11	1.56	0.71
1:AA:1338:G:C6	1:AA:1339:A:C6	2.79	0.71
24:AX:17:C:C3'	24:AX:18:U:H5'	2.20	0.71
24:AX:48:U:H3'	24:AX:48:U:O2	1.91	0.71
25:AY:406:GLU:HB3	25:AY:407:PRO:HD2	1.71	0.71
26:BA:885:C:OP2	26:BA:886:A:C5	2.43	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1309:G:OP1	53:B2:9:VAL:HG23	1.89	0.71
26:BA:2845:U:H5"	40:BP:51:ASN:O	1.89	0.71
33:BI:132:ALA:O	33:BI:133:ARG:HB2	1.89	0.71
1:AA:205:A:H2'	1:AA:205:A:N3	2.05	0.71
1:AA:657:U:O2	15:AO:21:THR:CG2	2.39	0.71
2:AB:22:TRP:CH2	2:AB:24:PRO:HA	2.25	0.71
3:AC:142:ARG:NH1	3:AC:142:ARG:HG2	1.98	0.71
4:AD:168:THR:HB	4:AD:183:ARG:HH22	1.55	0.71
19:AS:28:LYS:HB2	19:AS:29:PRO:HD2	1.73	0.71
20:AT:66:ILE:HG23	20:AT:66:ILE:O	1.91	0.71
22:AV:169:G:H2'	22:AV:170:G:H8	1.55	0.71
24:AX:56:U:C6	24:AX:58:A:OP2	2.44	0.71
25:AY:416:LYS:HD3	25:AY:417:THR:H	1.55	0.71
26:BA:265:A:H4'	26:BA:266:G:OP1	1.91	0.71
26:BA:675:A:OP1	29:BE:58:LYS:HE2	1.90	0.71
26:BA:1452:G:O2'	26:BA:1453:A:P	2.49	0.71
39:BO:4:LYS:HG3	39:BO:5:SER:N	2.04	0.71
1:AA:394:G:O2'	25:AY:340:TYR:OH	2.04	0.71
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.72	0.71
1:AA:1413:A:C2'	1:AA:1414:U:O5'	2.39	0.71
3:AC:21:TRP:HB3	3:AC:58:ARG:HG2	1.72	0.71
8:AH:9:MET:HE1	8:AH:32:LYS:HA	1.70	0.71
8:AH:63:LYS:HB2	8:AH:70:VAL:HG21	1.73	0.71
22:AV:184:A:N7	22:AV:185:A:N1	2.39	0.71
22:AV:320:U:H1'	22:AV:321:G:P	2.30	0.71
25:AY:180:VAL:CG2	25:AY:216:LEU:HD12	2.20	0.71
25:AY:637:ARG:HH21	33:BI:21:PRO:HA	1.56	0.71
26:BA:31:C:O2'	26:BA:1238:G:H5'	1.91	0.71
44:BT:58:VAL:HG22	44:BT:85:VAL:HG22	1.71	0.71
1:AA:513:C:H2'	1:AA:514:C:H6	1.54	0.71
4:AD:61:ARG:CG	4:AD:71:PHE:CD2	2.74	0.71
5:AE:140:ILE:HG22	5:AE:141:ASP:N	2.05	0.71
22:AV:180:G:H2'	22:AV:181:G:C8	2.25	0.71
24:AX:33:C:C2'	24:AX:34:U:H5"	2.21	0.71
26:BA:890:C:O5'	26:BA:891:G:C5'	2.30	0.71
26:BA:1929:G:N3	26:BA:1929:G:H5'	2.06	0.71
26:BA:2334:U:C4	39:BO:16:ARG:HD3	2.26	0.71
27:BC:34:GLU:O	27:BC:35:LYS:O	2.08	0.71
28:BD:98:VAL:HG22	28:BD:98:VAL:O	1.89	0.71
1:AA:142:G:C5	1:AA:143:A:N7	2.59	0.70
1:AA:1107:C:OP1	3:AC:171:ARG:HG2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:70:GLY:HA2	2:AB:163:ILE:HG22	1.72	0.70
7:AG:94:ARG:NH2	7:AG:98:LEU:HD21	2.06	0.70
13:AM:76:ILE:CG2	13:AM:80:MET:HE1	2.21	0.70
21:AU:19:LYS:CE	21:AU:19:LYS:CA	2.69	0.70
22:AV:12:U:C6	22:AV:348:C:H1'	2.25	0.70
22:AV:65:U:H2'	22:AV:66:C:C6	2.26	0.70
22:AV:137:C:C4'	22:AV:138:C:H5"	2.20	0.70
22:AV:163:G:C2	22:AV:164:G:N7	2.59	0.70
22:AV:249:U:HO2'	22:AV:250:U:H5'	1.56	0.70
26:BA:901:C:O2	26:BA:901:C:C2'	2.38	0.70
33:BI:17:ALA:O	33:BI:18:ASN:CB	2.38	0.70
35:BK:34:GLY:O	35:BK:35:VAL:C	2.34	0.70
42:BR:49:ILE:CG2	42:BR:53:PHE:N	2.53	0.70
1:AA:889:A:H4'	1:AA:890:G:OP1	1.90	0.70
1:AA:1330:U:C2'	1:AA:1331:G:H5'	2.20	0.70
1:AA:1339:A:C2	24:AX:32:G:C4'	2.69	0.70
1:AA:1390:U:C6	1:AA:1390:U:OP2	2.44	0.70
12:AL:24:GLU:O	12:AL:26:CYS:N	2.23	0.70
17:AQ:7:LEU:HB2	17:AQ:60:ILE:HG22	1.73	0.70
22:AV:19:G:N1	23:AW:22:ALA:HA	2.05	0.70
22:AV:159:C:O2'	22:AV:160:U:H5'	1.91	0.70
22:AV:173:C:H2'	22:AV:174:A:H8	1.55	0.70
22:AV:204:G:OP2	22:AV:235:C:C5	2.43	0.70
22:AV:256:G:C4	22:AV:258:G:C6	2.78	0.70
25:AY:615:GLU:HA	26:BA:1095:A:N7	2.05	0.70
26:BA:866:A:C1'	26:BA:914:G:C2	2.74	0.70
26:BA:911:A:N6	37:BM:9:PHE:HB2	2.06	0.70
26:BA:1063:G:C2	33:BI:135:MET:HA	2.25	0.70
26:BA:1372:U:H2'	26:BA:1373:A:O5'	1.91	0.70
31:BG:24:THR:O	31:BG:25:ILE:HD13	1.90	0.70
33:BI:100:ILE:O	33:BI:140:GLU:HB2	1.91	0.70
42:BR:26:ASP:O	42:BR:27:ILE:HD13	1.91	0.70
44:BT:1:MET:C	44:BT:3:ARG:HB2	2.16	0.70
1:AA:542:G:C2	1:AA:543:U:C5	2.79	0.70
1:AA:1347:G:C8	9:AI:108:ARG:CB	2.75	0.70
1:AA:1410:A:O2'	1:AA:1411:C:H5'	1.91	0.70
4:AD:57:LYS:HB3	4:AD:199:ILE:CG2	2.21	0.70
9:AI:83:THR:HB	9:AI:97:LEU:HD21	1.74	0.70
17:AQ:44:HIS:HB2	17:AQ:69:THR:O	1.91	0.70
22:AV:16:U:C5	23:AW:110:ARG:CD	2.75	0.70
22:AV:213:G:H2'	22:AV:214:C:C6	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:238:A:C4	22:AV:239:A:C8	2.79	0.70
26:BA:1056:G:H4'	26:BA:1086:A:C8	2.26	0.70
26:BA:2128:G:H2'	26:BA:2129:C:O4'	1.91	0.70
1:AA:279:A:H4'	1:AA:280:C:O5'	1.90	0.70
1:AA:464:U:N3	1:AA:466:A:H5"	2.05	0.70
1:AA:997:U:H2'	1:AA:998:C:H5'	1.72	0.70
1:AA:1387:G:C6	1:AA:1388:C:C4	2.80	0.70
2:AB:81:ASP:O	2:AB:83:ALA:N	2.23	0.70
4:AD:122:ILE:N	4:AD:122:ILE:HD13	2.06	0.70
5:AE:33:THR:HG22	5:AE:51:LYS:HB3	1.73	0.70
12:AL:23:LEU:O	12:AL:24:GLU:C	2.34	0.70
22:AV:63:C:C1'	22:AV:73:A:C2	2.74	0.70
22:AV:276:U:H2'	22:AV:277:G:H8	1.56	0.70
22:AV:323:A:N3	22:AV:324:G:C5	2.59	0.70
25:AY:9:LEU:HD23	25:AY:9:LEU:C	2.17	0.70
25:AY:154:GLN:HA	25:AY:158:GLY:HA2	1.72	0.70
25:AY:637:ARG:CD	33:BI:25:PRO:CD	2.47	0.70
26:BA:883:G:C2	26:BA:884:U:C6	2.78	0.70
26:BA:893:C:O2'	26:BA:894:U:H5'	1.91	0.70
26:BA:1097:U:H1'	33:BI:8:VAL:HG12	1.71	0.70
26:BA:2120:G:O2'	26:BA:2121:G:H5'	1.91	0.70
30:BF:7:TYR:HA	30:BF:11:VAL:CG2	2.22	0.70
44:BT:71:GLY:O	44:BT:73:ARG:N	2.25	0.70
1:AA:63:C:H2'	1:AA:64:G:H5'	1.72	0.70
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.26	0.70
15:AO:6:ALA:O	15:AO:10:ILE:HD12	1.92	0.70
17:AQ:15:LYS:C	17:AQ:16:MET:SD	2.75	0.70
22:AV:20:A:C2'	22:AV:21:C:C6	2.75	0.70
22:AV:49:C:N3	22:AV:303:G:O6	2.23	0.70
22:AV:214:C:O5'	22:AV:214:C:H6	1.75	0.70
22:AV:259:G:H2'	22:AV:260:C:C6	2.26	0.70
22:AV:345:A:N6	22:AV:348:C:C4	2.52	0.70
22:AV:362:C:OP1	26:BA:2602:A:P	2.50	0.70
25:AY:431:LEU:HD22	25:AY:466:LEU:HD13	1.72	0.70
25:AY:613:PRO:O	25:AY:615:GLU:N	2.23	0.70
26:BA:875:G:O2'	26:BA:876:C:C5'	2.30	0.70
26:BA:997:G:OP1	41:BQ:91:ARG:HG2	1.91	0.70
26:BA:1086:A:O2'	26:BA:1087:G:N7	2.24	0.70
26:BA:1178:C:H2'	26:BA:1179:G:N7	2.06	0.70
26:BA:2210:U:H4'	26:BA:2211:A:H5'	1.72	0.70
26:BA:2506:U:H2'	26:BA:2507:C:H5'	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1043:G:C2'	1:AA:1044:A:H5"	2.21	0.70
1:AA:1112:C:O2	3:AC:178:ARG:HG3	1.91	0.70
8:AH:110:MET:HE2	8:AH:115:ALA:N	2.07	0.70
16:AP:71:VAL:O	16:AP:75:ILE:HG13	1.92	0.70
22:AV:229:U:H1'	22:AV:231:A:C2	2.22	0.70
22:AV:275:C:H6	22:AV:275:C:O5'	1.73	0.70
22:AV:317:G:H2'	22:AV:318:G:O4'	1.91	0.70
22:AV:332:G:H4'	22:AV:333:G:OP1	1.91	0.70
24:AX:27:G:H22	24:AX:45:A:H61	1.35	0.70
25:AY:335:LEU:HD11	25:AY:352:VAL:HG11	1.73	0.70
25:AY:637:ARG:NE	33:BI:20:SER:O	2.19	0.70
26:BA:287:G:H2'	26:BA:288:U:C6	2.26	0.70
26:BA:911:A:C4	37:BM:9:PHE:CE1	2.80	0.70
26:BA:2309:A:C6	26:BA:2310:C:N4	2.59	0.70
33:BI:100:ILE:HG21	33:BI:105:LEU:HD12	1.73	0.70
36:BL:109:LYS:HE2	36:BL:128:THR:HG22	1.74	0.70
1:AA:659:U:O2	1:AA:660:C:C6	2.44	0.70
1:AA:1179:A:H2'	1:AA:1180:A:O4'	1.91	0.70
1:AA:1494:G:H1'	26:BA:1913:A:N3	2.06	0.70
7:AG:26:VAL:HG12	7:AG:42:VAL:HG21	1.74	0.70
11:AK:41:LEU:HD22	11:AK:76:TYR:CE2	2.26	0.70
22:AV:12:U:C4'	22:AV:13:G:C8	2.75	0.70
22:AV:44:C:N4	22:AV:300:U:C6	2.59	0.70
22:AV:257:U:C4	22:AV:273:A:C2	2.80	0.70
22:AV:324:G:C2	22:AV:325:G:C6	2.78	0.70
22:AV:341:5MU:HN3	22:AV:345:A:N6	1.90	0.70
26:BA:1026:G:H2'	26:BA:1027:A:C8	2.27	0.70
26:BA:1073:A:N7	26:BA:1074:G:H8	1.90	0.70
26:BA:2404:U:H2'	26:BA:2405:G:O5'	1.92	0.70
1:AA:147:G:H2'	1:AA:148:G:C8	2.26	0.70
16:AP:39:PHE:CD2	16:AP:74:LEU:HD11	2.27	0.70
22:AV:172:U:N1	22:AV:173:C:C5	2.60	0.70
22:AV:248:G:H2'	22:AV:249:U:C5'	2.16	0.70
22:AV:361:C:C5'	26:BA:2602:A:O2'	2.40	0.70
24:AX:14:A:H2'	24:AX:15:G:O4'	1.90	0.70
26:BA:883:G:C2	26:BA:884:U:C4	2.80	0.70
26:BA:892:A:C2	26:BA:893:C:C5	2.80	0.70
26:BA:1462:C:O2'	26:BA:1463:C:H5"	1.92	0.70
26:BA:2305:U:O2'	30:BF:132:ARG:NE	2.24	0.70
37:BM:31:PHE:CZ	37:BM:110:GLU:HA	2.27	0.70
55:B4:36:ARG:HG2	55:B4:37:GLN:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:435:A:C6	1:AA:436:C:C4	2.80	0.70
1:AA:872:A:C8	1:AA:874:G:C8	2.80	0.70
1:AA:1279:G:N2	10:AJ:45:ARG:HE	1.89	0.70
3:AC:137:VAL:HA	3:AC:148:ILE:HD13	1.74	0.70
10:AJ:65:TYR:CB	14:AN:96:LEU:HD11	2.22	0.70
11:AK:124:LYS:CG	11:AK:125:LYS:N	2.53	0.70
19:AS:9:PHE:CD1	19:AS:10:ILE:N	2.60	0.70
22:AV:61:G:O4'	22:AV:62:G:H5'	1.91	0.70
22:AV:223:G:C2'	22:AV:224:A:OP1	2.40	0.70
22:AV:262:U:H2'	22:AV:262:U:O2	1.92	0.70
22:AV:270:C:C2	22:AV:271:G:N7	2.60	0.70
22:AV:315:G:H1'	22:AV:316:A:N9	2.06	0.70
25:AY:84:THR:N	25:AY:85:PRO:CD	2.55	0.70
25:AY:615:GLU:CA	26:BA:1095:A:N7	2.48	0.70
26:BA:1161:C:H1'	42:BR:8:GLY:O	1.91	0.70
26:BA:1486:U:O2'	26:BA:1487:U:H5'	1.92	0.70
1:AA:513:C:H2'	1:AA:514:C:C6	2.26	0.70
1:AA:1305:G:H2'	1:AA:1331:G:H22	1.56	0.70
12:AL:76:HIS:HE2	25:AY:421:GLN:HG2	1.53	0.70
22:AV:139:C:O4'	22:AV:182:U:C5	2.40	0.70
22:AV:200:G:C8	22:AV:200:G:P	2.84	0.70
22:AV:300:U:C2	22:AV:301:A:N7	2.60	0.70
23:AW:59:TYR:CE1	23:AW:73:PRO:HB3	2.27	0.70
25:AY:252:ASP:HB2	25:AY:254:LYS:HG2	1.73	0.70
26:BA:544:C:H2'	26:BA:545:U:O4'	1.91	0.70
26:BA:1565:C:H3'	27:BC:17:LYS:HZ2	1.55	0.70
26:BA:2131:U:H5'	26:BA:2132:U:H5"	1.74	0.70
49:BY:17:GLU:O	49:BY:18:LEU:C	2.35	0.70
1:AA:394:G:HO2'	25:AY:340:TYR:HH	1.35	0.69
1:AA:673:A:H2'	1:AA:674:G:C8	2.27	0.69
1:AA:792:A:H4'	1:AA:793:U:O5'	1.92	0.69
1:AA:1079:G:H3'	1:AA:1080:A:N7	2.07	0.69
5:AE:14:LEU:HB3	5:AE:36:THR:HG22	1.73	0.69
10:AJ:9:ARG:HB2	10:AJ:99:GLN:HB2	1.74	0.69
16:AP:75:ILE:HG22	16:AP:80:LYS:HE2	1.74	0.69
22:AV:118:C:H2'	22:AV:119:U:H5'	1.73	0.69
22:AV:239:A:C3'	22:AV:240:U:C4'	2.70	0.69
24:AX:25:U:H2'	24:AX:26:C:H5'	1.74	0.69
26:BA:811:U:C4	36:BL:21:ARG:NH2	2.60	0.69
26:BA:868:U:O2'	26:BA:869:G:H5"	1.92	0.69
26:BA:899:A:C2'	26:BA:900:A:H5"	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:53:GLU:O	32:BH:57:LYS:HB3	1.90	0.69
40:BP:30:TRP:CE2	40:BP:39:LEU:HD11	2.27	0.69
1:AA:8:A:C5	4:AD:205:LYS:HB3	2.27	0.69
1:AA:1494:G:N9	26:BA:1913:A:C2	2.60	0.69
2:AB:195:VAL:HG11	2:AB:198:VAL:HA	1.73	0.69
6:AF:53:LYS:O	6:AF:54:LEU:HB3	1.90	0.69
9:AI:33:SER:HB3	9:AI:36:GLN:HG3	1.74	0.69
22:AV:60:U:C4	22:AV:63:C:H5	2.10	0.69
22:AV:116:A:C2	22:AV:129:G:C6	2.81	0.69
22:AV:199:C:N4	22:AV:229:U:N3	2.41	0.69
26:BA:978:G:C2'	26:BA:979:A:H5'	2.22	0.69
29:BE:104:ALA:O	29:BE:108:ILE:HG22	1.91	0.69
31:BG:11:PRO:HD2	31:BG:14:VAL:HG21	1.72	0.69
40:BP:1:SER:O	40:BP:5:LYS:HG2	1.92	0.69
1:AA:499:A:H4'	1:AA:500:G:OP1	1.91	0.69
1:AA:1539:C:H4'	21:AU:20:ARG:HB2	1.73	0.69
2:AB:64:GLY:C	2:AB:65:LYS:HD3	2.17	0.69
22:AV:38:A:C2	22:AV:316:A:N1	2.60	0.69
22:AV:311:U:C2'	22:AV:312:A:C5'	2.65	0.69
23:AW:17:LEU:HB2	23:AW:119:LEU:HB2	1.73	0.69
23:AW:90:LEU:HD12	23:AW:91:GLY:N	2.06	0.69
24:AX:21:U:O2'	24:AX:22:A:H4'	1.92	0.69
26:BA:2852:G:H2'	26:BA:2853:C:H6	1.57	0.69
28:BD:4:LEU:HD21	28:BD:100:LEU:HD23	1.73	0.69
30:BF:123:GLY:HA2	30:BF:162:ASP:OD1	1.92	0.69
9:AI:25:GLY:N	9:AI:58:GLU:HA	2.08	0.69
22:AV:35:C:H2'	22:AV:36:C:C5	2.27	0.69
22:AV:55:G:OP1	22:AV:56:C:OP2	2.10	0.69
22:AV:60:U:C4	22:AV:63:C:C5	2.80	0.69
22:AV:202:G:N2	22:AV:233:A:H62	1.88	0.69
32:BH:10:ALA:O	32:BH:12:LEU:HD23	1.93	0.69
1:AA:1078:U:O2'	5:AE:133:ILE:HG21	1.92	0.69
1:AA:1410:A:H2'	1:AA:1411:C:H6	1.56	0.69
13:AM:113:LYS:CB	13:AM:114:PRO:HD3	2.23	0.69
17:AQ:11:VAL:HG12	17:AQ:12:VAL:N	2.06	0.69
22:AV:7:G:C4	22:AV:336:G:C8	2.80	0.69
22:AV:198:U:OP2	22:AV:198:U:C6	2.46	0.69
22:AV:247:A:H5'	22:AV:248:G:H8	1.57	0.69
22:AV:313:C:H2'	22:AV:314:C:C6	2.28	0.69
22:AV:342:PSU:N3	22:AV:345:A:OP2	2.25	0.69
25:AY:14:ASN:HB2	25:AY:102:ASP:OD1	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:528:A:C2	26:BA:2043:C:H4’	2.27	0.69
26:BA:881:G:H2’	26:BA:882:G:C8	2.27	0.69
26:BA:2406:A:OP2	26:BA:2406:A:H2’	1.92	0.69
26:BA:2547:A:H4’	35:BK:29:HIS:CE1	2.28	0.69
27:BC:129:LEU:HD23	27:BC:129:LEU:N	2.07	0.69
46:BV:80:HIS:CG	46:BV:81:PRO:CD	2.76	0.69
49:BY:5:GLU:HG3	49:BY:56:LEU:CD1	2.22	0.69
1:AA:245:U:H3	1:AA:283:U:H3	1.37	0.69
1:AA:613:C:C2’	1:AA:614:C:H5’	2.22	0.69
2:AB:218:ALA:O	2:AB:219:THR:HG22	1.92	0.69
3:AC:166:TRP:C	3:AC:166:TRP:HE3	2.00	0.69
8:AH:46:GLU:CB	8:AH:63:LYS:HG2	2.22	0.69
9:AI:43:ALA:CA	9:AI:45:MET:SD	2.81	0.69
14:AN:20:PHE:C	14:AN:22:LYS:H	1.99	0.69
19:AS:39:ILE:HG12	19:AS:70:LEU:HD23	1.72	0.69
22:AV:159:C:C2	22:AV:160:U:C5	2.80	0.69
22:AV:195:A:C2	22:AV:196:G:C8	2.80	0.69
22:AV:247:A:C4’	22:AV:248:G:C8	2.76	0.69
22:AV:265:C:H2’	22:AV:266:C:H5’	1.72	0.69
22:AV:296:U:C2	22:AV:297:G:N7	2.61	0.69
26:BA:416:U:C5	26:BA:417:C:C4	2.79	0.69
26:BA:871:U:C2	26:BA:872:U:C5	2.81	0.69
31:BG:39:ALA:HA	31:BG:57:TYR:CD1	2.28	0.69
42:BR:25:LEU:H	42:BR:94:THR:HG21	1.55	0.69
1:AA:10:A:O2’	1:AA:11:G:H5’	1.92	0.69
1:AA:414:A:H2’	1:AA:415:A:C8	2.26	0.69
1:AA:718:A:H2’	1:AA:719:C:H5’	1.75	0.69
2:AB:40:ILE:C	2:AB:40:ILE:HD13	2.17	0.69
25:AY:401:SER:O	25:AY:403:GLU:HG3	1.91	0.69
26:BA:1897:G:C2	26:BA:1898:U:O2	2.45	0.69
27:BC:51:ARG:HH22	27:BC:246:PRO:HG3	1.57	0.69
27:BC:120:ASP:O	27:BC:121:ALA:C	2.36	0.69
31:BG:148:ARG:HH11	31:BG:148:ARG:CG	2.06	0.69
42:BR:50:GLY:C	42:BR:51:VAL:O	2.34	0.69
1:AA:414:A:H2’	1:AA:415:A:H8	1.58	0.69
1:AA:436:C:H4’	4:AD:152:SER:CB	2.23	0.69
1:AA:763:G:H2’	1:AA:764:C:H6	1.56	0.69
1:AA:768:A:C2’	1:AA:769:G:H5’	2.22	0.69
1:AA:929:G:H5’	1:AA:1533:C:H5’	1.74	0.69
1:AA:1038:C:C2’	1:AA:1039:G:H5’	2.23	0.69
1:AA:1049:U:H4’	1:AA:1050:G:OP2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1534:A:C5	1:AA:1535:C:N3	2.58	0.69
2:AB:136:ARG:O	2:AB:139:GLU:HB3	1.91	0.69
4:AD:25:ARG:HD2	4:AD:30:LYS:HE2	1.75	0.69
9:AI:43:ALA:HA	9:AI:45:MET:SD	2.33	0.69
11:AK:51:PHE:CZ	11:AK:64:VAL:HG11	2.28	0.69
14:AN:19:TYR:O	14:AN:20:PHE:O	2.09	0.69
21:AU:39:LYS:N	21:AU:40:PRO:CD	2.55	0.69
22:AV:5:C:C2'	22:AV:6:U:C5'	2.66	0.69
22:AV:13:G:H8	22:AV:13:G:O5'	1.75	0.69
22:AV:137:C:OP2	22:AV:138:C:H5'	1.90	0.69
22:AV:156:G:C4	22:AV:157:C:C5	2.80	0.69
22:AV:182:U:C5'	22:AV:182:U:O2	2.41	0.69
22:AV:202:G:C6	22:AV:203:U:C4	2.80	0.69
22:AV:237:U:O2	22:AV:237:U:C2'	2.39	0.69
22:AV:315:G:C1'	22:AV:316:A:C8	2.76	0.69
22:AV:335:C:O2	22:AV:335:C:C2'	2.41	0.69
25:AY:261:GLY:HA3	25:AY:267:LYS:O	1.93	0.69
25:AY:272:LEU:O	25:AY:275:ALA:HB3	1.92	0.69
25:AY:491:VAL:HG11	25:AY:596:LYS:HD3	1.75	0.69
25:AY:539:ILE:HA	25:AY:542:VAL:HG12	1.74	0.69
26:BA:12:U:H2'	26:BA:12:U:O2	1.92	0.69
26:BA:1171:G:C5	26:BA:1172:C:C4	2.80	0.69
26:BA:1589:U:O2	26:BA:1589:U:H2'	1.93	0.69
26:BA:1799:G:OP2	27:BC:269:ARG:NH2	2.25	0.69
26:BA:2114:A:H2'	26:BA:2114:A:N3	2.06	0.69
29:BE:12:LEU:HD23	29:BE:13:THR:N	2.07	0.69
38:BN:75:ILE:O	38:BN:79:LEU:HD12	1.92	0.69
50:BZ:1:ALA:HB1	50:BZ:2:LYS:CE	2.22	0.69
12:AL:20:VAL:HG22	12:AL:20:VAL:O	1.92	0.69
21:AU:13:VAL:O	21:AU:15:LEU:CD1	2.41	0.69
21:AU:13:VAL:CG1	21:AU:15:LEU:HD21	2.22	0.69
22:AV:228:G:C2'	22:AV:232:A:H2	2.06	0.69
23:AW:62:PRO:HB3	23:AW:70:ASN:HB2	1.75	0.69
25:AY:12:LEU:O	25:AY:283:PRO:HD3	1.92	0.69
25:AY:252:ASP:O	25:AY:254:LYS:HE3	1.93	0.69
25:AY:343:ASN:HD21	25:AY:345:THR:HB	1.58	0.69
26:BA:2881:U:O2'	26:BA:2882:A:H5'	1.93	0.69
32:BH:31:VAL:O	32:BH:32:PRO:C	2.31	0.69
33:BI:101:SER:HA	33:BI:140:GLU:C	2.18	0.69
1:AA:108:G:C5	20:AT:9:ARG:HG2	2.28	0.69
1:AA:158:G:H2'	1:AA:159:G:H5"	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:513:C:H2'	1:AA:514:C:O5'	1.93	0.69
1:AA:659:U:O2	1:AA:659:U:H2'	1.93	0.69
3:AC:166:TRP:N	3:AC:166:TRP:CE3	2.60	0.69
14:AN:26:LEU:O	14:AN:27:LYS:HB3	1.93	0.69
18:AR:60:ARG:O	18:AR:63:TYR:HB3	1.93	0.69
21:AU:38:GLU:CA	21:AU:40:PRO:HD2	2.23	0.69
22:AV:151:C:O5'	22:AV:151:C:H6	1.76	0.69
22:AV:295:C:C2'	22:AV:296:U:H5'	2.22	0.69
22:AV:345:A:H2'	22:AV:347:PSU:OP2	1.93	0.69
26:BA:585:G:O2'	29:BE:77:ILE:HG22	1.93	0.69
27:BC:16:VAL:CB	27:BC:203:VAL:HG22	2.23	0.69
38:BN:103:ARG:HD3	38:BN:110:MET:CE	2.22	0.69
40:BP:71:ARG:HD3	40:BP:73:PHE:CZ	2.28	0.69
1:AA:1126:U:O4'	1:AA:1281:C:O2	2.11	0.68
1:AA:1314:C:O2	1:AA:1314:C:H2'	1.92	0.68
1:AA:1412:C:C2'	1:AA:1413:A:H5'	2.23	0.68
2:AB:95:TRP:CZ2	2:AB:99:MET:HG2	2.27	0.68
4:AD:146:GLU:O	4:AD:149:LYS:HB2	1.93	0.68
5:AE:135:VAL:O	5:AE:138:ALA:HB3	1.92	0.68
10:AJ:48:ARG:C	10:AJ:49:PHE:CD1	2.70	0.68
22:AV:121:A:N6	22:AV:124:A:C2	2.61	0.68
23:AW:24:ILE:HG13	23:AW:26:LEU:HD21	1.73	0.68
24:AX:63:C:C2'	24:AX:64:G:H5"	2.23	0.68
25:AY:555:LEU:HD11	25:AY:599:PRO:HB2	1.75	0.68
26:BA:866:A:C5	26:BA:914:G:C5	2.82	0.68
26:BA:911:A:C6	37:BM:9:PHE:CD1	2.80	0.68
26:BA:2785:C:O2'	28:BD:67:HIS:HD2	1.76	0.68
29:BE:28:VAL:O	29:BE:32:VAL:HG22	1.92	0.68
30:BF:150:GLY:O	30:BF:151:LEU:HB2	1.93	0.68
33:BI:4:VAL:O	33:BI:5:GLN:CB	2.40	0.68
42:BR:42:ALA:HA	42:BR:46:GLU:CB	2.22	0.68
46:BV:41:GLU:O	46:BV:41:GLU:HG3	1.92	0.68
1:AA:376:G:C2	1:AA:389:A:C2	2.81	0.68
1:AA:468:A:C2	1:AA:469:C:C4	2.82	0.68
1:AA:1032:G:H3'	1:AA:1033:G:O4'	1.93	0.68
1:AA:1303:C:C2'	1:AA:1304:G:O5'	2.42	0.68
1:AA:1390:U:H2'	1:AA:1391:U:C6	2.27	0.68
3:AC:10:ARG:HE	3:AC:177:LEU:HA	1.58	0.68
22:AV:5:C:O2'	22:AV:6:U:H5'	1.90	0.68
22:AV:13:G:O2'	22:AV:14:G:H8	1.76	0.68
22:AV:62:G:N2	22:AV:63:C:N3	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:111:U:C2	22:AV:112:U:C5	2.81	0.68
22:AV:196:G:H22	22:AV:197:A:H62	1.42	0.68
25:AY:71:THR:HG22	25:AY:80:ASN:OD1	1.93	0.68
25:AY:309:LEU:O	25:AY:390:VAL:HA	1.93	0.68
26:BA:866:A:N9	26:BA:914:G:C4	2.61	0.68
26:BA:877:A:C3'	26:BA:878:A:H5'	2.22	0.68
26:BA:1372:U:O2'	26:BA:1373:A:H5'	1.93	0.68
26:BA:2291:U:H2'	26:BA:2292:U:C6	2.28	0.68
26:BA:2305:U:H1'	30:BF:132:ARG:HG2	1.75	0.68
29:BE:149:ILE:HD12	29:BE:150:THR:N	2.08	0.68
35:BK:118:LEU:O	35:BK:119:ALA:CB	2.38	0.68
37:BM:15:GLY:O	37:BM:16:ARG:CD	2.41	0.68
1:AA:1097:C:O2'	1:AA:1169:A:C1'	2.41	0.68
8:AH:98:LEU:HD23	8:AH:98:LEU:N	2.08	0.68
10:AJ:52:LEU:HB3	14:AN:81:ARG:HE	1.58	0.68
13:AM:28:ARG:HD2	13:AM:62:PHE:CD2	2.28	0.68
22:AV:195:A:H2'	22:AV:196:G:H8	1.58	0.68
22:AV:299:C:H2'	22:AV:300:U:H5"	1.75	0.68
23:AW:98:LEU:CD1	23:AW:119:LEU:HB3	2.24	0.68
26:BA:662:G:H2'	26:BA:663:G:H5'	1.75	0.68
26:BA:867:C:C5	26:BA:868:U:C4	2.82	0.68
26:BA:1509:A:N3	26:BA:1510:G:C8	2.62	0.68
36:BL:76:GLU:C	36:BL:77:ILE:HD13	2.17	0.68
56:BB:7:G:H2'	56:BB:8:C:H5'	1.75	0.68
1:AA:1351:U:H2'	1:AA:1352:C:C6	2.29	0.68
1:AA:1399:C:C2	1:AA:1502:A:N1	2.61	0.68
8:AH:1:SER:C	8:AH:3:GLN:H	2.01	0.68
22:AV:42:U:H2'	22:AV:43:G:C8	2.26	0.68
22:AV:137:C:N4	22:AV:138:C:N4	2.40	0.68
22:AV:256:G:O6	22:AV:273:A:N1	2.26	0.68
26:BA:1171:G:C6	26:BA:1172:C:N3	2.62	0.68
28:BD:56:LYS:O	28:BD:57:ALA:C	2.36	0.68
36:BL:58:TYR:O	54:B3:12:ARG:NE	2.26	0.68
38:BN:13:ASN:HD22	38:BN:13:ASN:C	2.00	0.68
42:BR:21:ARG:NH1	42:BR:93:PHE:CE1	2.62	0.68
5:AE:93:VAL:HG21	5:AE:110:MET:SD	2.34	0.68
14:AN:10:VAL:O	14:AN:13:VAL:HG12	1.93	0.68
21:AU:38:GLU:N	21:AU:40:PRO:CD	2.57	0.68
22:AV:16:U:C6	23:AW:110:ARG:HD3	2.27	0.68
22:AV:245:C:P	22:AV:246:U:OP2	2.51	0.68
22:AV:256:G:N2	22:AV:258:G:C2	2.61	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:309:A:C4'	22:AV:310:G:O4'	2.30	0.68
25:AY:72:CYS:SG	25:AY:79:ILE:HB	2.34	0.68
25:AY:92:ILE:HG21	25:AY:454:MET:HE1	1.76	0.68
25:AY:113:GLY:C	25:AY:115:GLU:N	2.48	0.68
25:AY:121:VAL:HG23	25:AY:122:TRP:N	2.09	0.68
26:BA:630:G:H5"	26:BA:631:A:OP2	1.94	0.68
26:BA:1866:A:C2	26:BA:1876:A:C4	2.81	0.68
29:BE:189:THR:HG22	29:BE:192:ALA:N	2.08	0.68
32:BH:2:GLN:C	32:BH:3:VAL:HG13	2.17	0.68
33:BI:121:ILE:HA	33:BI:124:MET:SD	2.34	0.68
49:BY:18:LEU:HD21	49:BY:22:LEU:HD22	1.74	0.68
1:AA:111:G:H5"	1:AA:112:G:OP2	1.93	0.68
1:AA:1275:A:H2'	1:AA:1276:G:O4'	1.93	0.68
12:AL:2:THR:HB	12:AL:5:GLN:HG3	1.76	0.68
15:AO:88:ARG:NH2	26:BA:716:A:OP2	2.24	0.68
22:AV:222:U:H2'	22:AV:222:U:O2	1.93	0.68
25:AY:466:LEU:HA	25:AY:470:PHE:HD2	1.58	0.68
26:BA:870:U:H3	26:BA:907:G:H1	1.41	0.68
26:BA:887:U:C6	26:BA:888:C:C5	2.81	0.68
26:BA:1056:G:N2	26:BA:1104:C:N4	2.40	0.68
26:BA:1073:A:C3'	26:BA:1074:G:H5"	2.23	0.68
26:BA:1172:C:C4	26:BA:1173:U:C6	2.82	0.68
26:BA:1494:A:C2	26:BA:1495:A:C4	2.82	0.68
30:BF:157:THR:CG2	30:BF:159:ALA:HB3	2.23	0.68
51:B0:43:THR:HG23	51:B0:47:TYR:O	1.94	0.68
1:AA:104:G:O2'	1:AA:105:G:H5'	1.93	0.68
1:AA:207:C:H2'	1:AA:208:U:C2	2.29	0.68
1:AA:223:A:H2'	1:AA:224:U:C6	2.28	0.68
1:AA:276:G:OP1	17:AQ:16:MET:HE2	1.94	0.68
1:AA:368:U:H3'	25:AY:354:ARG:NH1	2.09	0.68
11:AK:124:LYS:HG2	11:AK:125:LYS:N	2.08	0.68
13:AM:1:ALA:O	13:AM:9:PRO:HD2	1.93	0.68
22:AV:15:A:N6	22:AV:345:A:H4'	2.08	0.68
22:AV:17:U:O2'	23:AW:114:LYS:CE	2.38	0.68
22:AV:18:C:OP1	22:AV:18:C:H6	1.76	0.68
22:AV:20:A:O3'	22:AV:21:C:C6	2.47	0.68
22:AV:29:G:H2'	22:AV:30:C:C5'	2.23	0.68
22:AV:265:C:O5'	22:AV:265:C:H6	1.76	0.68
23:AW:3:PRO:O	23:AW:4:VAL:CB	2.42	0.68
26:BA:247:G:C8	26:BA:249:C:C6	2.82	0.68
26:BA:381:G:OP1	48:BX:17:ARG:NH2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1505:A:H2'	26:BA:1506:U:O4'	1.92	0.68
26:BA:1734:G:H2'	26:BA:1735:A:H8	1.59	0.68
26:BA:2550:G:C2'	26:BA:2551:C:H5'	2.24	0.68
28:BD:12:THR:HG23	40:BP:8:GLU:OE2	1.94	0.68
45:BU:17:ASP:HB3	45:BU:20:LYS:HD3	1.76	0.68
1:AA:1333:A:H2'	1:AA:1334:G:O5'	1.94	0.68
1:AA:1390:U:C6	1:AA:1390:U:P	2.87	0.68
2:AB:88:GLN:C	2:AB:89:PHE:CD2	2.72	0.68
8:AH:48:PHE:HD1	8:AH:48:PHE:H	1.42	0.68
14:AN:61:ARG:O	14:AN:62:ASN:HB2	1.91	0.68
16:AP:77:GLU:C	16:AP:79:ASN:N	2.48	0.68
21:AU:19:LYS:HE2	21:AU:19:LYS:N	2.09	0.68
22:AV:16:U:C5	23:AW:110:ARG:HD3	2.29	0.68
22:AV:128:U:C2'	22:AV:129:G:O4'	2.39	0.68
22:AV:185:A:C3'	22:AV:186:A:N7	2.56	0.68
22:AV:221:U:O2	22:AV:222:U:C6	2.46	0.68
22:AV:256:G:O6	22:AV:273:A:C2	2.47	0.68
25:AY:39:ILE:HG23	25:AY:41:LYS:HE3	1.75	0.68
25:AY:100:VAL:HG23	25:AY:329:ARG:HG2	1.76	0.68
25:AY:554:PRO:HG3	25:AY:594:VAL:HG12	1.74	0.68
26:BA:322:A:H5'	26:BA:340:A:H1'	1.76	0.68
26:BA:1060:U:O4'	26:BA:1062:G:H5'	1.94	0.68
26:BA:2425:A:H4'	26:BA:2426:A:O5'	1.94	0.68
32:BH:117:LEU:HD21	32:BH:121:VAL:CA	2.24	0.68
1:AA:232:G:H1'	1:AA:262:A:N1	2.08	0.68
1:AA:260:G:H2'	1:AA:261:U:C6	2.28	0.68
1:AA:804:U:H5"	1:AA:805:C:OP2	1.94	0.68
1:AA:1411:C:H2'	1:AA:1412:C:H6	1.59	0.68
1:AA:1490:U:O2'	1:AA:1491:G:H5'	1.94	0.68
7:AG:59:GLU:HA	7:AG:62:GLU:HB2	1.76	0.68
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.94	0.68
17:AQ:3:LYS:HG3	17:AQ:6:THR:HG22	1.76	0.68
17:AQ:44:HIS:ND1	17:AQ:69:THR:CG2	2.57	0.68
19:AS:4:LEU:O	19:AS:5:LYS:HG3	1.94	0.68
22:AV:21:C:O2'	22:AV:22:G:C5'	2.30	0.68
22:AV:23:G:H1	22:AV:330:U:H3	1.41	0.68
22:AV:46:U:O4'	22:AV:312:A:C4'	2.42	0.68
22:AV:133:A:O2'	22:AV:134:G:H5'	1.91	0.68
22:AV:174:A:C2'	22:AV:175:A:H8	2.03	0.68
22:AV:201:C:O2'	22:AV:231:A:N6	2.24	0.68
22:AV:210:C:O2	22:AV:240:U:C5	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:244:G:C4	22:AV:245:C:C1'	2.77	0.68
23:AW:64:GLU:HG3	26:BA:1910:G:OP1	1.94	0.68
26:BA:883:G:C4	26:BA:884:U:H5	2.01	0.68
26:BA:895:U:O2	26:BA:896:A:C5	2.47	0.68
26:BA:1567:G:C8	27:BC:82:TYR:HE1	2.10	0.68
26:BA:2665:A:C2	26:BA:2666:C:C6	2.82	0.68
32:BH:13:GLY:O	32:BH:14:SER:HB3	1.92	0.68
1:AA:143:A:H5'	1:AA:144:G:H5'	1.75	0.68
1:AA:1083:U:H5	1:AA:1084:G:C6	2.12	0.68
1:AA:1534:A:C4	1:AA:1535:C:C4	2.82	0.68
2:AB:206:ILE:O	2:AB:209:VAL:HG23	1.94	0.68
21:AU:3:ILE:N	21:AU:19:LYS:HE3	2.09	0.68
22:AV:9:U:H4'	22:AV:9:U:OP2	1.93	0.68
22:AV:32:A:N3	22:AV:32:A:H2'	2.09	0.68
22:AV:62:G:N3	22:AV:63:C:C5	2.62	0.68
22:AV:74:G:H2'	22:AV:75:C:H6	1.59	0.68
22:AV:137:C:C5'	22:AV:138:C:C5'	2.72	0.68
22:AV:300:U:N3	22:AV:301:A:N7	2.42	0.68
23:AW:13:ASP:C	23:AW:14:TYR:HD2	2.02	0.68
23:AW:87:ARG:HA	23:AW:90:LEU:HD21	1.76	0.68
25:AY:21:ILE:O	25:AY:22:ASP:HB2	1.92	0.68
26:BA:904:G:H2'	26:BA:905:A:C8	2.26	0.68
26:BA:2258:C:H4'	26:BA:2259:U:OP2	1.91	0.68
31:BG:140:ILE:HD12	31:BG:141:GLY:N	2.09	0.68
32:BH:72:ILE:HG22	32:BH:73:ASN:N	2.06	0.68
46:BV:4:ILE:HG13	46:BV:50:MET:HE1	1.75	0.68
47:BW:20:LYS:O	47:BW:21:ARG:HD3	1.94	0.68
4:AD:31:CYS:SG	4:AD:32:LYS:N	2.68	0.67
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.58	0.67
9:AI:6:TYR:HB2	9:AI:19:PHE:HA	1.76	0.67
11:AK:33:ILE:HB	11:AK:73:VAL:HG11	1.76	0.67
13:AM:40:GLU:HG3	13:AM:41:ASP:N	2.08	0.67
22:AV:39:A:C2'	22:AV:40:G:C5'	2.66	0.67
22:AV:196:G:O2'	22:AV:229:U:H5'	1.94	0.67
22:AV:324:G:C2	22:AV:325:G:C5	2.82	0.67
25:AY:276:VAL:CA	25:AY:280:LEU:HD23	2.24	0.67
26:BA:457:A:H5'	26:BA:459:U:H1'	1.75	0.67
26:BA:1084:A:C3'	26:BA:1085:A:C8	2.77	0.67
45:BU:48:VAL:O	45:BU:53:GLN:CB	2.42	0.67
1:AA:141:G:C4	1:AA:142:G:C8	2.82	0.67
2:AB:131:LYS:O	2:AB:135:MET:SD	2.51	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:117:LEU:HA	9:AI:124:PRO:HD3	1.76	0.67
14:AN:47:LYS:HB3	19:AS:12:LEU:HD21	1.75	0.67
22:AV:30:C:N4	22:AV:324:G:C2	2.62	0.67
22:AV:44:C:C2	22:AV:263:G:C2	2.82	0.67
22:AV:68:U:N3	22:AV:303:G:H8	1.92	0.67
22:AV:181:G:C2'	22:AV:182:U:H4'	2.24	0.67
23:AW:65:LYS:HG3	23:AW:66:GLY:N	2.07	0.67
23:AW:112:TYR:HB2	23:AW:114:LYS:HE3	1.76	0.67
24:AX:68:C:H2'	24:AX:69:C:H6	1.59	0.67
25:AY:395:PRO:O	25:AY:397:VAL:N	2.27	0.67
26:BA:995:C:H5'	26:BA:995:C:C6	2.30	0.67
26:BA:1530:G:H2'	26:BA:1530:G:N3	2.09	0.67
27:BC:120:ASP:O	27:BC:121:ALA:O	2.12	0.67
37:BM:57:VAL:O	37:BM:60:GLN:CG	2.42	0.67
1:AA:11:G:C2'	1:AA:12:U:O5'	2.42	0.67
1:AA:35:G:H2'	1:AA:36:C:H6	1.59	0.67
1:AA:663:A:O2'	1:AA:664:G:H5'	1.93	0.67
1:AA:939:G:C5	1:AA:940:C:C4	2.82	0.67
9:AI:51:LEU:HA	9:AI:54:VAL:HG23	1.77	0.67
12:AL:113:ARG:HD2	12:AL:118:VAL:HG12	1.76	0.67
21:AU:7:GLU:HB3	21:AU:11:PHE:HZ	1.60	0.67
22:AV:247:A:C5'	22:AV:248:G:H8	2.07	0.67
23:AW:50:ASP:CG	23:AW:51:GLY:H	2.03	0.67
24:AX:50:G:N2	24:AX:51:U:H1'	2.09	0.67
24:AX:50:G:H2'	24:AX:51:U:H6	1.60	0.67
26:BA:1180:U:H2'	26:BA:1181:U:C5'	2.25	0.67
26:BA:1860:G:C2'	26:BA:1861:G:H5'	2.24	0.67
26:BA:2887:A:H2'	26:BA:2887:A:N3	2.09	0.67
1:AA:1126:U:C6	1:AA:1281:C:N3	2.62	0.67
3:AC:6:PRO:HG2	3:AC:183:TYR:CG	2.30	0.67
6:AF:64:VAL:CG1	6:AF:65:GLU:N	2.56	0.67
22:AV:71:A:C2'	22:AV:72:A:H8	2.07	0.67
22:AV:137:C:C5	22:AV:138:C:C6	2.81	0.67
22:AV:185:A:C2'	22:AV:186:A:N7	2.53	0.67
22:AV:243:G:H2'	22:AV:244:G:H5'	1.76	0.67
22:AV:263:G:C3'	22:AV:264:U:H5"	2.24	0.67
26:BA:137:U:H2'	26:BA:140:C:C2	2.29	0.67
39:BO:117:PHE:CD1	39:BO:117:PHE:C	2.73	0.67
1:AA:152:A:N6	1:AA:170:U:C2	2.63	0.67
1:AA:991:U:C5	1:AA:1212:U:H1'	2.29	0.67
1:AA:1134:G:C4	1:AA:1141:C:N4	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1138:G:C8	1:AA:1140:C:H5'	2.30	0.67
1:AA:1538:C:O3'	21:AU:17:ARG:NH2	2.27	0.67
2:AB:53:LEU:HD12	2:AB:219:THR:HG21	1.76	0.67
3:AC:24:ASN:O	3:AC:26:LYS:N	2.27	0.67
4:AD:28:ASP:C	4:AD:29:THR:O	2.31	0.67
6:AF:17:GLN:O	6:AF:18:VAL:C	2.38	0.67
7:AG:145:GLU:HA	7:AG:148:LYS:HB2	1.76	0.67
12:AL:76:HIS:NE2	25:AY:421:GLN:CD	2.52	0.67
13:AM:33:LEU:HD22	13:AM:40:GLU:HA	1.76	0.67
18:AR:24:ASP:HB3	18:AR:27:THR:HB	1.77	0.67
22:AV:227:C:O2	22:AV:233:A:C6	2.47	0.67
22:AV:343:C:C3'	30:BF:73:VAL:H	2.07	0.67
24:AX:50:G:H21	24:AX:51:U:H1'	1.57	0.67
26:BA:894:U:H2'	26:BA:895:U:O4'	1.94	0.67
26:BA:2748:A:H1'	31:BG:66:THR:CG2	2.25	0.67
27:BC:38:LYS:HE2	27:BC:55:GLY:O	1.94	0.67
31:BG:100:ASN:HD22	31:BG:100:ASN:H	1.40	0.67
49:BY:9:LYS:HE2	49:BY:11:VAL:CG2	2.25	0.67
1:AA:702:A:H62	26:BA:1846:G:H5"	1.59	0.67
1:AA:972:C:H4'	10:AJ:59:LYS:HE3	1.74	0.67
1:AA:1531:A:O2'	1:AA:1532:U:C5'	2.41	0.67
3:AC:141:MET:HE1	3:AC:147:GLY:HA2	1.75	0.67
4:AD:57:LYS:HB3	4:AD:199:ILE:CB	2.24	0.67
4:AD:202:LEU:HD23	4:AD:203:TYR:CE2	2.30	0.67
10:AJ:59:LYS:HD2	10:AJ:59:LYS:C	2.19	0.67
22:AV:146:C:C2	22:AV:147:C:C5	2.82	0.67
22:AV:185:A:H3'	22:AV:186:A:N7	2.09	0.67
24:AX:62:C:H2'	24:AX:62:C:O2	1.94	0.67
25:AY:165:GLN:C	25:AY:166:LEU:HD12	2.20	0.67
25:AY:230:LYS:HE2	25:AY:241:GLU:OE1	1.95	0.67
26:BA:2146:C:H5"	26:BA:2147:A:OP1	1.95	0.67
26:BA:2155:U:H2'	26:BA:2156:G:O4'	1.95	0.67
26:BA:2308:G:C5	30:BF:76:PHE:CZ	2.83	0.67
38:BN:103:ARG:CD	38:BN:110:MET:HE2	2.25	0.67
40:BP:29:VAL:HG13	40:BP:79:VAL:HG12	1.77	0.67
56:BB:20:G:O2'	56:BB:21:G:H5'	1.95	0.67
1:AA:198:G:C5	1:AA:220:G:C2	2.83	0.67
1:AA:885:G:O2'	1:AA:914:A:N1	2.27	0.67
2:AB:90:PHE:H	2:AB:149:GLY:HA3	1.60	0.67
5:AE:136:VAL:O	5:AE:137:ARG:HB2	1.92	0.67
12:AL:88:ASP:HB3	12:AL:89:LEU:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:5:GLY:C	13:AM:7:ASN:N	2.51	0.67
22:AV:21:C:N4	22:AV:332:G:C6	2.63	0.67
22:AV:195:A:C4	22:AV:196:G:C8	2.83	0.67
24:AX:60:A:H2'	24:AX:61:U:H5'	1.76	0.67
26:BA:888:C:C4'	26:BA:889:C:C5	2.78	0.67
26:BA:892:A:C6	26:BA:893:C:N4	2.62	0.67
26:BA:1519:G:C4	26:BA:1520:U:C6	2.83	0.67
26:BA:2094:A:H4'	32:BH:25:TYR:CZ	2.30	0.67
26:BA:2106:U:H5"	26:BA:2107:G:OP2	1.93	0.67
27:BC:161:VAL:HG22	27:BC:175:LEU:HA	1.76	0.67
32:BH:31:VAL:CB	32:BH:32:PRO:HD2	2.24	0.67
1:AA:518:C:H2'	1:AA:530:G:C8	2.30	0.67
1:AA:921:U:O2	5:AE:23:THR:O	2.11	0.67
2:AB:16:GLY:HA3	2:AB:39:ILE:HA	1.77	0.67
9:AI:66:VAL:HG22	9:AI:74:GLN:HG2	1.76	0.67
12:AL:32:VAL:HG21	25:AY:422:GLU:CG	2.23	0.67
13:AM:3:ILE:HD11	13:AM:9:PRO:CG	2.25	0.67
22:AV:31:G:H1	22:AV:324:G:H1'	1.58	0.67
22:AV:60:U:N3	22:AV:63:C:C5	2.63	0.67
23:AW:48:PHE:HZ	23:AW:93:VAL:HG11	1.59	0.67
23:AW:52:GLU:HG3	23:AW:54:TYR:HE1	1.60	0.67
26:BA:1060:U:H5'	26:BA:1062:G:C5'	2.25	0.67
26:BA:1387:A:H2'	26:BA:1388:G:O4'	1.95	0.67
26:BA:1854:A:C3'	26:BA:1855:U:H5'	2.25	0.67
30:BF:121:PHE:HB3	30:BF:162:ASP:OD2	1.95	0.67
33:BI:6:ALA:HB3	33:BI:60:VAL:H	1.60	0.67
56:BB:53:A:H2'	56:BB:54:G:H5'	1.76	0.67
1:AA:459:A:C2	1:AA:460:A:C4	2.83	0.67
1:AA:1124:G:H3'	1:AA:1145:A:H61	1.59	0.67
1:AA:1337:G:H5'	1:AA:1338:G:OP1	1.95	0.67
2:AB:104:LYS:HE2	22:AV:121:A:OP2	1.93	0.67
9:AI:18:VAL:HG11	9:AI:82:ILE:HA	1.75	0.67
22:AV:35:C:H2'	22:AV:36:C:H6	1.59	0.67
22:AV:36:C:C2'	22:AV:37:C:H6	2.03	0.67
22:AV:52:G:H21	22:AV:72:A:H61	0.71	0.67
22:AV:59:U:H2'	22:AV:60:U:H5'	1.75	0.67
22:AV:72:A:H2'	22:AV:72:A:N3	2.08	0.67
22:AV:110:U:C2	22:AV:111:U:C5	2.82	0.67
22:AV:185:A:C2'	22:AV:186:A:N9	2.56	0.67
22:AV:259:G:H2'	22:AV:260:C:H6	1.58	0.67
23:AW:99:THR:OG1	23:AW:120:ALA:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:14:A:N3	24:AX:15:G:H1'	2.10	0.67
24:AX:52:C:C2	24:AX:53:G:N7	2.63	0.67
25:AY:367:GLU:HG2	25:AY:367:GLU:O	1.94	0.67
26:BA:1474:U:H2'	26:BA:1475:G:H5'	1.76	0.67
29:BE:146:VAL:CG2	29:BE:167:VAL:HG22	2.24	0.67
56:BB:7:G:C2'	56:BB:8:C:H5'	2.24	0.67
6:AF:42:TRP:N	6:AF:42:TRP:CD1	2.63	0.67
10:AJ:56:HIS:O	10:AJ:57:VAL:HG12	1.95	0.67
21:AU:18:PHE:O	21:AU:21:SER:CB	2.42	0.67
22:AV:8:A:C6	22:AV:346:C:N3	2.63	0.67
22:AV:144:U:H5'	22:AV:145:C:OP2	1.95	0.67
22:AV:173:C:H2'	22:AV:174:A:H5'	1.74	0.67
22:AV:267:G:C2	22:AV:268:U:N3	2.63	0.67
26:BA:867:C:C2'	26:BA:868:U:C5'	2.58	0.67
26:BA:1179:G:N7	26:BA:1180:U:O4'	2.28	0.67
26:BA:1180:U:H2'	26:BA:1181:U:H5'	1.75	0.67
26:BA:1585:C:C2'	26:BA:1586:A:O5'	2.43	0.67
33:BI:71:LYS:N	33:BI:71:LYS:CD	2.58	0.67
33:BI:74:PRO:HB2	33:BI:77:VAL:HG13	1.77	0.67
39:BO:54:VAL:HG22	56:BB:116:G:H4'	1.76	0.67
42:BR:41:ILE:O	42:BR:46:GLU:HB2	1.95	0.67
1:AA:1388:C:C2'	1:AA:1389:C:O4'	2.42	0.66
19:AS:28:LYS:CB	19:AS:29:PRO:HD2	2.25	0.66
22:AV:24:G:H1	22:AV:329:U:H3	1.41	0.66
22:AV:189:C:C3'	22:AV:190:A:H5"	2.23	0.66
24:AX:18:U:H4'	24:AX:19:G:OP1	1.95	0.66
26:BA:869:G:O2'	26:BA:870:U:H5'	1.96	0.66
26:BA:899:A:H2'	26:BA:899:A:N3	2.10	0.66
26:BA:1067:A:H2'	26:BA:1067:A:N3	2.06	0.66
26:BA:2105:U:H2'	26:BA:2106:U:O4'	1.95	0.66
33:BI:27:LEU:HD12	33:BI:27:LEU:O	1.94	0.66
1:AA:959:A:C2	1:AA:1222:G:O4'	2.48	0.66
1:AA:1204:A:C5	1:AA:1205:U:C5	2.82	0.66
5:AE:59:ILE:HG13	5:AE:60:GLN:N	2.10	0.66
6:AF:7:VAL:O	6:AF:7:VAL:HG13	1.96	0.66
8:AH:46:GLU:CA	8:AH:63:LYS:HG2	2.25	0.66
8:AH:103:VAL:HG22	8:AH:103:VAL:O	1.94	0.66
9:AI:10:ARG:HB3	9:AI:15:ALA:HA	1.76	0.66
20:AT:53:MET:HE3	20:AT:54:GLN:HA	1.77	0.66
22:AV:257:U:C4'	22:AV:258:G:OP1	2.40	0.66
26:BA:866:A:C8	26:BA:914:G:C2	2.83	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2055:C:H5'	26:BA:2056:G:H5"	1.77	0.66
26:BA:2304:G:H1'	30:BF:128:SER:HB3	1.78	0.66
28:BD:85:ALA:HB3	28:BD:88:GLU:HG3	1.76	0.66
33:BI:54:ILE:HG12	33:BI:73:PRO:CA	2.25	0.66
1:AA:928:G:C5'	1:AA:1503:A:H61	2.07	0.66
1:AA:1104:G:OP1	2:AB:96:LEU:CD1	2.43	0.66
2:AB:34:ARG:HA	2:AB:34:ARG:HE	1.59	0.66
4:AD:96:ARG:O	4:AD:100:VAL:HG23	1.95	0.66
10:AJ:40:ILE:HG22	10:AJ:73:LEU:HB2	1.77	0.66
21:AU:13:VAL:HG13	21:AU:15:LEU:CG	2.25	0.66
22:AV:12:U:H3'	22:AV:12:U:P	2.35	0.66
22:AV:19:G:N2	23:AW:21:GLU:O	2.22	0.66
22:AV:130:C:H4'	22:AV:130:C:OP1	1.93	0.66
22:AV:332:G:N2	22:AV:333:G:O6	2.27	0.66
26:BA:867:C:C5	26:BA:868:U:C5	2.83	0.66
26:BA:1080:A:C2	26:BA:1081:U:C5	2.83	0.66
26:BA:2133:G:C2'	26:BA:2158:A:N6	2.59	0.66
31:BG:71:LEU:HD12	31:BG:71:LEU:N	2.09	0.66
32:BH:7:ASP:HA	32:BH:15:LEU:HD22	1.77	0.66
35:BK:8:LEU:HD12	35:BK:8:LEU:N	2.10	0.66
38:BN:57:THR:HG22	38:BN:57:THR:O	1.95	0.66
1:AA:1413:A:H2'	1:AA:1414:U:O5'	1.94	0.66
22:AV:8:A:N3	22:AV:8:A:C3'	2.57	0.66
22:AV:198:U:OP2	22:AV:198:U:H5	1.77	0.66
22:AV:304:C:H2'	22:AV:305:A:C8	2.29	0.66
26:BA:1055:G:H5"	26:BA:1056:G:OP2	1.95	0.66
1:AA:943:U:H3	1:AA:1340:A:H2	1.42	0.66
1:AA:1077:G:C2'	1:AA:1079:G:N7	2.57	0.66
2:AB:147:LEU:HD22	2:AB:150:ILE:HG21	1.78	0.66
4:AD:3:TYR:CD1	4:AD:3:TYR:C	2.71	0.66
10:AJ:49:PHE:CD1	10:AJ:49:PHE:N	2.63	0.66
12:AL:89:LEU:HD12	12:AL:89:LEU:N	2.10	0.66
17:AQ:14:ASP:CA	17:AQ:16:MET:SD	2.83	0.66
25:AY:17:ILE:O	25:AY:85:PRO:HG2	1.96	0.66
26:BA:892:A:H2'	26:BA:893:C:C6	2.29	0.66
26:BA:896:A:C1'	26:BA:897:C:H5"	2.23	0.66
29:BE:44:ARG:O	29:BE:45:ALA:HB2	1.93	0.66
30:BF:11:VAL:HG13	30:BF:171:ALA:HB1	1.76	0.66
45:BU:45:GLN:OE1	45:BU:58:VAL:HG21	1.95	0.66
45:BU:48:VAL:O	45:BU:53:GLN:HB2	1.95	0.66
1:AA:1387:G:O2'	1:AA:1388:C:C5'	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:35:ALA:CB	14:AN:41:ARG:HB3	2.25	0.66
21:AU:28:LEU:O	21:AU:28:LEU:HD23	1.95	0.66
22:AV:159:C:H2'	22:AV:160:U:H6	1.60	0.66
22:AV:191:A:C3'	22:AV:192:A:C5'	2.61	0.66
23:AW:57:ASN:O	23:AW:57:ASN:CG	2.39	0.66
25:AY:12:LEU:HB3	25:AY:283:PRO:HG2	1.78	0.66
25:AY:342:TYR:CE2	25:AY:396:ARG:HD2	2.31	0.66
25:AY:530:VAL:HG22	25:AY:531:GLY:N	2.11	0.66
26:BA:395:U:O2'	26:BA:396:G:N7	2.24	0.66
26:BA:2297:A:N1	26:BA:2321:U:H5	1.91	0.66
26:BA:2404:U:C2'	26:BA:2405:G:O5'	2.44	0.66
27:BC:167:ASP:C	27:BC:167:ASP:OD2	2.38	0.66
29:BE:18:THR:HG21	29:BE:19:PHE:CE2	2.29	0.66
1:AA:35:G:H2'	1:AA:36:C:C6	2.31	0.66
1:AA:64:G:C2	1:AA:67:C:N4	2.63	0.66
1:AA:510:A:H5"	1:AA:511:C:OP2	1.95	0.66
1:AA:1031:C:C2'	1:AA:1032:G:OP2	2.43	0.66
1:AA:1347:G:C8	9:AI:108:ARG:HB2	2.31	0.66
3:AC:21:TRP:CG	3:AC:58:ARG:HG2	2.31	0.66
3:AC:111:ASP:O	3:AC:115:VAL:HG23	1.95	0.66
11:AK:125:LYS:C	21:AU:33:ARG:CZ	2.69	0.66
19:AS:28:LYS:CB	19:AS:29:PRO:CD	2.74	0.66
22:AV:40:G:N2	22:AV:41:G:N9	2.43	0.66
22:AV:48:C:C2	22:AV:49:C:O4'	2.49	0.66
22:AV:49:C:N3	22:AV:303:G:N1	2.33	0.66
22:AV:113:A:N1	22:AV:114:G:C2	2.64	0.66
25:AY:84:THR:O	25:AY:85:PRO:C	2.39	0.66
25:AY:400:GLU:O	25:AY:402:ILE:HD12	1.96	0.66
25:AY:404:VAL:N	25:AY:405:PRO:HD3	2.10	0.66
25:AY:517:LEU:HB3	25:AY:521:SER:CB	2.26	0.66
26:BA:1714:U:H5"	26:BA:1715:G:C5'	2.26	0.66
26:BA:2114:A:C4	26:BA:2167:U:H5'	2.30	0.66
33:BI:83:ALA:HB2	33:BI:105:LEU:HD11	1.76	0.66
41:BQ:88:GLU:H	42:BR:49:ILE:HD12	1.60	0.66
1:AA:1133:G:N1	1:AA:1142:G:C6	2.64	0.66
2:AB:102:ASN:HB3	2:AB:105:THR:HB	1.77	0.66
2:AB:162:VAL:HG13	2:AB:184:ALA:HB2	1.78	0.66
20:AT:26:MET:HE3	20:AT:56:ILE:CD1	2.25	0.66
21:AU:36:PHE:CD1	21:AU:39:LYS:HE3	2.31	0.66
22:AV:263:G:C3'	22:AV:264:U:C5'	2.72	0.66
22:AV:332:G:O2'	22:AV:333:G:H3'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:46:ALA:O	23:AW:100:LEU:HD23	1.96	0.66
23:AW:81:LEU:HG	23:AW:85:GLU:OE1	1.95	0.66
25:AY:424:LEU:O	25:AY:427:ALA:HB3	1.96	0.66
26:BA:906:U:H2'	26:BA:907:G:H8	1.59	0.66
26:BA:973:A:OP2	42:BR:81:LYS:HE3	1.95	0.66
26:BA:1058:U:H1'	26:BA:1081:U:O2	1.96	0.66
26:BA:1789:A:OP2	27:BC:220:ARG:NH1	2.28	0.66
26:BA:2172:U:OP1	26:BA:2174:C:C5	2.48	0.66
26:BA:2203:U:H5"	26:BA:2204:G:OP1	1.95	0.66
49:BY:14:LEU:O	49:BY:17:GLU:HB3	1.96	0.66
49:BY:37:LEU:C	49:BY:37:LEU:HD12	2.21	0.66
1:AA:204:G:H3'	1:AA:205:A:H5"	1.76	0.66
1:AA:918:A:C6	1:AA:919:A:C5	2.84	0.66
1:AA:1057:G:H2'	1:AA:1058:G:O5'	1.95	0.66
1:AA:1341:U:H2'	1:AA:1342:C:H5	1.61	0.66
3:AC:87:ARG:HG2	3:AC:98:ALA:O	1.96	0.66
9:AI:24:ASN:HB3	9:AI:58:GLU:OE1	1.95	0.66
12:AL:58:ASN:ND2	12:AL:60:PHE:CD1	2.64	0.66
14:AN:89:MET:HE1	14:AN:98:LYS:HD3	1.77	0.66
21:AU:9:GLU:CG	21:AU:10:PRO:HD3	2.26	0.66
22:AV:159:C:H2'	22:AV:160:U:C6	2.31	0.66
22:AV:180:G:C3'	22:AV:181:G:O4'	2.44	0.66
22:AV:257:U:O4'	22:AV:258:G:C5	2.48	0.66
25:AY:9:LEU:CD2	25:AY:284:LEU:HB2	2.25	0.66
25:AY:606:MET:HE2	25:AY:671:MET:HE3	1.77	0.66
30:BF:157:THR:HG23	30:BF:159:ALA:H	1.59	0.66
8:AH:95:MET:HB2	8:AH:98:LEU:O	1.96	0.66
22:AV:66:C:C1'	22:AV:70:A:H2	2.09	0.66
22:AV:167:G:H2'	22:AV:168:G:C8	2.30	0.66
22:AV:199:C:C2	22:AV:200:G:C6	2.84	0.66
22:AV:228:G:H21	22:AV:232:A:H61	1.43	0.66
22:AV:290:A:O2'	22:AV:291:A:H8	1.77	0.66
22:AV:347:PSU:OP2	22:AV:347:PSU:H6	1.78	0.66
23:AW:11:ARG:HD3	23:AW:12:HIS:ND1	2.11	0.66
23:AW:61:ALA:HB1	23:AW:64:GLU:OE2	1.96	0.66
23:AW:62:PRO:O	23:AW:63:TYR:HB2	1.96	0.66
25:AY:20:HIS:HB2	25:AY:87:HIS:HD2	1.61	0.66
26:BA:408:G:C2	26:BA:420:C:O2	2.49	0.66
26:BA:880:G:C2'	26:BA:899:A:N6	2.59	0.66
26:BA:2103:C:H2'	26:BA:2104:C:H5'	1.78	0.66
26:BA:2473:U:C5	26:BA:2474:U:H5	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BJ:49:ASP:OD1	34:BJ:121:LYS:HE3	1.96	0.66
49:BY:6:LEU:HD13	49:BY:56:LEU:HD22	1.76	0.66
1:AA:198:G:C4	1:AA:199:A:C8	2.85	0.65
4:AD:131:ILE:HD12	4:AD:134:TYR:N	2.11	0.65
21:AU:13:VAL:HG13	21:AU:15:LEU:HG	1.79	0.65
22:AV:63:C:O2'	22:AV:64:C:C5'	2.44	0.65
22:AV:195:A:C2'	22:AV:196:G:O5'	2.44	0.65
23:AW:11:ARG:HD3	23:AW:12:HIS:CE1	2.31	0.65
26:BA:1565:C:H3'	27:BC:17:LYS:NZ	2.10	0.65
26:BA:2110:G:H2'	26:BA:2120:G:OP2	1.94	0.65
26:BA:2223:G:H2'	26:BA:2224:G:H5'	1.79	0.65
26:BA:2334:U:O4	39:BO:16:ARG:NH2	2.29	0.65
30:BF:141:ASP:O	30:BF:145:VAL:HG13	1.96	0.65
1:AA:55:A:C4	25:AY:321:TYR:HA	2.25	0.65
1:AA:832:G:C2'	1:AA:833:G:H5'	2.26	0.65
1:AA:1341:U:H2'	1:AA:1342:C:H6	1.56	0.65
3:AC:181:ILE:HD13	3:AC:202:PHE:HA	1.79	0.65
8:AH:9:MET:HG3	8:AH:26:MET:SD	2.36	0.65
17:AQ:12:VAL:CG1	17:AQ:21:VAL:HG13	2.26	0.65
18:AR:35:SER:HA	18:AR:71:ASP:OD2	1.96	0.65
22:AV:151:C:C2	22:AV:152:C:C5	2.84	0.65
25:AY:119:GLU:O	25:AY:121:VAL:HG22	1.96	0.65
26:BA:2221:G:O2'	26:BA:2222:C:H5'	1.95	0.65
33:BI:66:PHE:CE1	33:BI:68:PHE:CE1	2.84	0.65
39:BO:31:THR:HG22	39:BO:33:ARG:H	1.61	0.65
1:AA:204:G:C8	1:AA:205:A:H5"	2.31	0.65
1:AA:254:G:OP1	17:AQ:69:THR:HB	1.96	0.65
1:AA:542:G:N3	1:AA:543:U:C5	2.64	0.65
1:AA:874:G:C5	1:AA:875:U:C5	2.84	0.65
1:AA:1033:G:H2'	1:AA:1033:G:N3	2.10	0.65
1:AA:1278:G:H4'	1:AA:1279:G:C8	2.31	0.65
1:AA:1411:C:HO2'	1:AA:1412:C:H5'	1.57	0.65
7:AG:119:LEU:CD2	7:AG:123:LEU:CD2	2.74	0.65
12:AL:43:LYS:HB2	12:AL:44:PRO:CD	2.26	0.65
22:AV:180:G:O3'	22:AV:181:G:O4'	2.14	0.65
22:AV:215:C:O2'	22:AV:216:U:H5'	1.96	0.65
25:AY:637:ARG:HH11	25:AY:637:ARG:HG3	1.61	0.65
26:BA:26:G:C6	26:BA:27:G:N1	2.65	0.65
36:BL:92:LEU:H	36:BL:92:LEU:HD12	1.62	0.65
49:BY:9:LYS:HE2	49:BY:11:VAL:HG21	1.77	0.65
1:AA:37:U:O2'	1:AA:500:G:H4'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:993:G:H2'	1:AA:993:G:N3	2.11	0.65
1:AA:1083:U:C5	1:AA:1084:G:C5	2.84	0.65
1:AA:1337:G:C5'	1:AA:1338:G:OP1	2.44	0.65
13:AM:80:MET:HG2	13:AM:91:ARG:CZ	2.27	0.65
22:AV:16:U:C4	23:AW:110:ARG:CZ	2.79	0.65
22:AV:47:G:O2'	22:AV:48:C:H5'	1.96	0.65
22:AV:113:A:C2	22:AV:114:G:N3	2.64	0.65
22:AV:150:G:C2	22:AV:151:C:N1	2.64	0.65
23:AW:48:PHE:HE2	23:AW:93:VAL:HG21	1.61	0.65
25:AY:485:GLU:HG3	25:AY:553:GLY:HA3	1.77	0.65
26:BA:580:U:H2'	26:BA:581:C:H6	1.62	0.65
26:BA:2141:G:H2'	26:BA:2142:A:H5'	1.78	0.65
33:BI:38:CYS:HB3	33:BI:42:ASN:ND2	2.11	0.65
34:BJ:76:HIS:CE1	34:BJ:85:LYS:HB2	2.31	0.65
1:AA:403:C:H2'	1:AA:404:G:O4'	1.96	0.65
1:AA:541:G:C4	1:AA:542:G:C8	2.85	0.65
1:AA:718:A:H5'	11:AK:118:ASN:HB2	1.78	0.65
10:AJ:63:ASP:OD1	14:AN:85:ARG:HD2	1.97	0.65
18:AR:54:LEU:CD1	18:AR:58:ILE:HD11	2.25	0.65
22:AV:45:A:O2'	22:AV:312:A:H1'	1.96	0.65
22:AV:213:G:C2	22:AV:245:C:N4	2.46	0.65
22:AV:218:G:H2'	22:AV:219:G:H8	1.62	0.65
22:AV:270:C:O2	22:AV:271:G:C8	2.50	0.65
22:AV:270:C:N3	22:AV:271:G:N7	2.44	0.65
26:BA:873:C:C2'	26:BA:874:G:H5'	2.27	0.65
26:BA:2119:A:C2	26:BA:2169:A:C2	2.85	0.65
1:AA:205:A:C2	1:AA:206:C:O4'	2.50	0.65
1:AA:376:G:H2'	1:AA:377:G:H8	1.62	0.65
1:AA:410:G:H5"	4:AD:25:ARG:NH2	2.12	0.65
1:AA:481:G:O2'	1:AA:482:A:C8	2.48	0.65
2:AB:55:GLU:HA	2:AB:58:LYS:CB	2.27	0.65
4:AD:189:ASP:O	4:AD:190:LEU:HG	1.97	0.65
22:AV:68:U:C4	22:AV:303:G:H8	2.15	0.65
22:AV:185:A:H3'	22:AV:186:A:C8	2.31	0.65
24:AX:1:C:H42	24:AX:73:A:H61	1.42	0.65
25:AY:21:ILE:HD13	25:AY:21:ILE:N	2.11	0.65
25:AY:122:TRP:C	25:AY:124:GLN:H	2.03	0.65
25:AY:526:VAL:HB	25:AY:566:THR:HA	1.77	0.65
26:BA:141:G:H3'	26:BA:142:A:C8	2.32	0.65
26:BA:594:U:H2'	26:BA:595:C:C6	2.32	0.65
26:BA:912:C:O2	26:BA:913:U:C5	2.49	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1169:A:C2	26:BA:1181:U:O2	2.49	0.65
26:BA:2152:G:H2'	26:BA:2153:C:H5'	1.79	0.65
27:BC:51:ARG:NH2	27:BC:246:PRO:HG3	2.11	0.65
28:BD:151:THR:HG22	28:BD:152:PRO:CD	2.27	0.65
33:BI:57:VAL:HG23	33:BI:71:LYS:NZ	2.11	0.65
1:AA:66:A:C2	1:AA:67:C:C6	2.84	0.65
1:AA:744:C:H2'	1:AA:745:G:C8	2.31	0.65
10:AJ:52:LEU:HD11	10:AJ:59:LYS:HA	1.79	0.65
14:AN:43:ASN:OD1	14:AN:47:LYS:HE2	1.97	0.65
22:AV:34:A:O2'	22:AV:35:C:H5"	1.95	0.65
22:AV:290:A:C4'	22:AV:291:A:O5'	2.34	0.65
22:AV:301:A:H3'	22:AV:302:A:H5'	1.79	0.65
23:AW:89:LEU:H	23:AW:89:LEU:CD2	2.03	0.65
23:AW:98:LEU:HD21	23:AW:119:LEU:CD1	2.26	0.65
26:BA:246:C:H2'	26:BA:247:G:H5'	1.78	0.65
26:BA:888:C:O4'	26:BA:889:C:N4	2.30	0.65
26:BA:895:U:O2'	26:BA:896:A:N7	2.30	0.65
26:BA:1098:A:C6	26:BA:1099:G:N1	2.65	0.65
26:BA:1687:G:O2'	26:BA:1688:U:H5'	1.95	0.65
27:BC:161:VAL:HG11	27:BC:173:LEU:HG	1.78	0.65
44:BT:35:ALA:O	44:BT:38:ALA:HB3	1.96	0.65
53:B2:43:THR:O	53:B2:44:VAL:CB	2.44	0.65
1:AA:505:G:H4'	1:AA:534:U:C5	2.31	0.65
1:AA:1060:U:C5	3:AC:1:GLY:HA3	2.32	0.65
1:AA:1145:A:H2'	1:AA:1146:A:OP2	1.97	0.65
1:AA:1517:G:H1'	26:BA:1919:A:O2'	1.96	0.65
3:AC:59:PRO:HB3	10:AJ:94:ALA:HB1	1.78	0.65
5:AE:18:ASN:O	5:AE:32:PHE:HA	1.95	0.65
9:AI:96:GLU:OE2	9:AI:96:GLU:N	2.30	0.65
11:AK:41:LEU:HD22	11:AK:76:TYR:CD2	2.31	0.65
11:AK:121:ARG:CZ	21:AU:35:GLU:HG3	2.26	0.65
11:AK:127:ARG:HH11	11:AK:127:ARG:HG2	1.60	0.65
22:AV:38:A:O2'	22:AV:39:A:N9	2.24	0.65
22:AV:249:U:H2'	22:AV:250:U:H6	1.56	0.65
23:AW:47:ARG:NH1	23:AW:48:PHE:HE1	1.95	0.65
24:AX:21:U:C2'	24:AX:22:A:H4'	2.27	0.65
24:AX:59:A:C6	24:AX:62:C:C4	2.85	0.65
25:AY:192:LEU:HD13	25:AY:192:LEU:O	1.96	0.65
26:BA:1060:U:H4'	26:BA:1061:U:H3'	1.78	0.65
26:BA:1180:U:O3'	26:BA:1180:U:OP1	2.14	0.65
26:BA:1234:U:H2'	26:BA:1235:G:O5'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2637:U:C2'	26:BA:2638:G:H5'	2.27	0.65
27:BC:110:LYS:CE	27:BC:113:ASP:OD1	2.44	0.65
37:BM:108:VAL:HG12	37:BM:109:PRO:HD2	1.78	0.65
45:BU:6:ARG:O	45:BU:7:ASP:C	2.38	0.65
1:AA:802:A:H2'	1:AA:803:G:H5'	1.78	0.65
1:AA:805:C:O2'	1:AA:806:C:H5'	1.97	0.65
1:AA:1081:A:C5'	5:AE:22:LYS:NZ	2.45	0.65
5:AE:81:GLN:HG2	5:AE:149:PRO:HB3	1.79	0.65
17:AQ:54:ILE:C	17:AQ:54:ILE:HD13	2.21	0.65
18:AR:56:ARG:HE	18:AR:60:ARG:NH1	1.95	0.65
22:AV:5:C:O2'	22:AV:6:U:H5"	1.95	0.65
22:AV:13:G:N1	22:AV:344:A:N6	2.44	0.65
22:AV:238:A:H2'	22:AV:239:A:O4'	1.97	0.65
23:AW:82:HIS:O	23:AW:86:LEU:HB3	1.96	0.65
25:AY:635:GLU:CB	33:BI:22:PRO:HA	2.25	0.65
26:BA:881:G:H22	26:BA:895:U:H3	1.44	0.65
26:BA:905:A:N3	26:BA:906:U:C5	2.64	0.65
26:BA:1080:A:H2'	26:BA:1080:A:N3	2.11	0.65
33:BI:83:ALA:CB	33:BI:105:LEU:HD11	2.27	0.65
46:BV:80:HIS:CG	46:BV:81:PRO:HD2	2.32	0.65
49:BY:13:GLU:C	49:BY:15:ASN:H	2.05	0.65
2:AB:88:GLN:CG	2:AB:220:VAL:HG11	2.26	0.65
2:AB:119:GLN:N	2:AB:122:ASP:HB2	2.11	0.65
3:AC:36:PHE:CZ	14:AN:92:GLU:OE2	2.49	0.65
3:AC:139:ASN:HA	3:AC:142:ARG:CB	2.27	0.65
8:AH:63:LYS:HB2	8:AH:70:VAL:CG2	2.27	0.65
11:AK:13:LYS:O	11:AK:14:GLN:CB	2.45	0.65
22:AV:39:A:N6	22:AV:40:G:N1	2.44	0.65
22:AV:194:G:HO2'	22:AV:195:A:H5'	1.60	0.65
22:AV:266:C:C4	22:AV:267:G:N7	2.64	0.65
22:AV:342:PSU:C2	22:AV:345:A:OP2	2.49	0.65
24:AX:50:G:N3	24:AX:51:U:C6	2.65	0.65
25:AY:606:MET:CE	25:AY:671:MET:HE3	2.27	0.65
26:BA:544:C:C5	26:BA:545:U:C5	2.85	0.65
26:BA:557:C:H2'	26:BA:558:U:H6	1.62	0.65
26:BA:1313:U:H2'	26:BA:1610:A:C2	2.31	0.65
26:BA:1467:U:C4	26:BA:1546:G:C2	2.85	0.65
27:BC:161:VAL:CG1	27:BC:173:LEU:HB3	2.27	0.65
31:BG:123:GLU:HA	31:BG:123:GLU:OE1	1.97	0.65
31:BG:163:TYR:HB2	31:BG:166:GLU:HB2	1.79	0.65
34:BJ:64:VAL:HG13	34:BJ:68:LYS:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:G:C5	1:AA:179:A:C2	2.84	0.64
1:AA:737:C:O2'	1:AA:738:C:H5'	1.97	0.64
1:AA:811:C:O2'	1:AA:901:A:N1	2.29	0.64
1:AA:1314:C:O2	1:AA:1315:U:C6	2.49	0.64
1:AA:1341:U:C2	1:AA:1342:C:C5	2.85	0.64
1:AA:1402:C:O2	1:AA:1500:A:N1	2.30	0.64
3:AC:147:GLY:HA3	3:AC:171:ARG:O	1.97	0.64
20:AT:80:ALA:O	20:AT:84:LYS:HG2	1.97	0.64
22:AV:171:A:N1	22:AV:172:U:O4	2.30	0.64
22:AV:199:C:N3	22:AV:200:G:C6	2.65	0.64
24:AX:75:C:H2'	24:AX:76:C:H5'	1.79	0.64
25:AY:416:LYS:HD2	25:AY:417:THR:H	1.60	0.64
26:BA:871:U:H4'	37:BM:68:PHE:CZ	2.32	0.64
26:BA:1840:G:C5	26:BA:1841:U:C5	2.85	0.64
26:BA:2731:G:C6	26:BA:2732:G:O6	2.50	0.64
32:BH:116:ARG:HG3	32:BH:133:GLN:CD	2.21	0.64
33:BI:20:SER:HA	33:BI:24:GLY:HA2	1.79	0.64
36:BL:126:ARG:HD3	36:BL:126:ARG:H	1.62	0.64
38:BN:12:ARG:CZ	38:BN:20:MET:HE1	2.26	0.64
1:AA:575:G:O2'	1:AA:821:G:H5'	1.97	0.64
1:AA:1077:G:N1	1:AA:1081:A:C6	2.66	0.64
2:AB:212:TYR:HA	2:AB:215:ALA:HB3	1.78	0.64
7:AG:38:ALA:O	7:AG:41:ILE:HB	1.97	0.64
10:AJ:59:LYS:HE3	10:AJ:59:LYS:H	1.63	0.64
22:AV:17:U:C3'	22:AV:19:G:OP2	2.45	0.64
22:AV:169:G:H2'	22:AV:170:G:C8	2.31	0.64
22:AV:174:A:C2'	22:AV:175:A:C8	2.75	0.64
22:AV:196:G:C2'	22:AV:229:U:H5'	2.28	0.64
22:AV:245:C:C5'	22:AV:248:G:C2	2.80	0.64
22:AV:320:U:C1'	22:AV:321:G:P	2.85	0.64
25:AY:434:GLU:OE1	25:AY:465:ARG:NH2	2.30	0.64
26:BA:1045:C:H3'	26:BA:1046:A:H5'	1.78	0.64
26:BA:1086:A:H5"	26:BA:1087:G:OP1	1.97	0.64
27:BC:17:LYS:HA	27:BC:17:LYS:HE3	1.79	0.64
36:BL:90:VAL:HG23	36:BL:120:VAL:HG21	1.78	0.64
39:BO:106:LEU:HD23	39:BO:106:LEU:C	2.23	0.64
1:AA:945:G:C2	1:AA:946:A:C8	2.86	0.64
1:AA:1538:C:O5'	1:AA:1538:C:H6	1.80	0.64
5:AE:81:GLN:H	5:AE:146:MET:HE1	1.61	0.64
20:AT:68:LYS:HB2	20:AT:68:LYS:HZ2	1.61	0.64
22:AV:132:U:H2'	22:AV:133:A:H8	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:269:C:N4	22:AV:270:C:C4	2.65	0.64
22:AV:308:U:C1'	22:AV:309:A:P	2.85	0.64
23:AW:14:TYR:HB3	23:AW:120:ALA:HB1	1.78	0.64
25:AY:553:GLY:HA2	25:AY:560:VAL:CG2	2.28	0.64
26:BA:875:G:C2	26:BA:876:C:C4	2.86	0.64
26:BA:1416:G:HO2'	26:BA:1417:C:H6	1.44	0.64
26:BA:2133:G:O2'	26:BA:2158:A:N6	2.30	0.64
26:BA:2318:G:C6	26:BA:2319:G:N1	2.65	0.64
28:BD:1:MET:HG3	28:BD:205:PRO:HG2	1.79	0.64
28:BD:103:ASP:OD1	28:BD:103:ASP:C	2.38	0.64
30:BF:7:TYR:HA	30:BF:11:VAL:HG23	1.78	0.64
33:BI:17:ALA:O	33:BI:18:ASN:HB2	1.98	0.64
33:BI:42:ASN:OD1	33:BI:45:THR:HB	1.97	0.64
44:BT:89:GLU:O	44:BT:91:GLN:HG2	1.97	0.64
56:BB:65:U:H2'	56:BB:108:A:N6	2.12	0.64
1:AA:1347:G:C8	9:AI:108:ARG:HB3	2.32	0.64
10:AJ:52:LEU:HD13	10:AJ:61:ALA:HB3	1.80	0.64
13:AM:21:ILE:HB	13:AM:24:VAL:HG22	1.77	0.64
13:AM:63:VAL:O	13:AM:68:LEU:HB2	1.97	0.64
13:AM:76:ILE:HG22	13:AM:80:MET:HE1	1.79	0.64
19:AS:49:ALA:HA	19:AS:57:VAL:O	1.97	0.64
22:AV:46:U:C5'	22:AV:313:C:H5'	2.27	0.64
22:AV:130:C:N3	22:AV:132:U:O4	2.30	0.64
22:AV:175:A:O2'	22:AV:176:G:H5'	1.93	0.64
22:AV:223:G:H2'	22:AV:224:A:OP1	1.96	0.64
22:AV:238:A:C2	22:AV:239:A:C5	2.85	0.64
22:AV:257:U:O4'	22:AV:258:G:N7	2.31	0.64
25:AY:115:GLU:CD	25:AY:118:SER:HB3	2.22	0.64
25:AY:388:THR:HG21	25:AY:399:LEU:H	1.61	0.64
26:BA:889:C:H5"	26:BA:890:C:OP2	1.98	0.64
26:BA:1142:A:C2	26:BA:1144:A:C8	2.86	0.64
26:BA:2094:A:O4'	26:BA:2198:A:N6	2.30	0.64
33:BI:33:ASN:CB	33:BI:36:GLU:CG	2.76	0.64
44:BT:16:VAL:HG23	44:BT:16:VAL:O	1.95	0.64
44:BT:38:ALA:HA	44:BT:42:GLU:OE1	1.98	0.64
46:BV:23:ALA:O	46:BV:24:ASN:C	2.39	0.64
55:B4:36:ARG:HG2	55:B4:37:GLN:N	2.11	0.64
1:AA:679:C:H2'	1:AA:680:C:O4'	1.97	0.64
1:AA:701:U:H4'	1:AA:702:A:H5"	1.79	0.64
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.97	0.64
1:AA:1530:G:N3	1:AA:1531:A:N7	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:57:GLU:HG3	3:AC:64:ARG:HB3	1.80	0.64
4:AD:54:LEU:C	4:AD:54:LEU:HD23	2.22	0.64
7:AG:68:VAL:HG11	7:AG:133:ALA:HB3	1.78	0.64
11:AK:95:THR:O	11:AK:99:LEU:CD2	2.45	0.64
16:AP:20:VAL:CG2	16:AP:35:ARG:HA	2.27	0.64
22:AV:244:G:N2	22:AV:245:C:O2	2.30	0.64
23:AW:43:GLY:C	23:AW:57:ASN:ND2	2.54	0.64
25:AY:21:ILE:CG2	25:AY:88:VAL:HG13	2.27	0.64
25:AY:628:ARG:NH1	25:AY:680:PRO:HG2	2.12	0.64
26:BA:895:U:O2	26:BA:896:A:N6	2.29	0.64
26:BA:2328:A:H2'	26:BA:2329:U:C6	2.32	0.64
32:BH:2:GLN:O	32:BH:3:VAL:HG22	1.97	0.64
32:BH:4:ILE:HG22	32:BH:5:LEU:N	2.13	0.64
35:BK:58:LEU:N	35:BK:58:LEU:HD22	2.13	0.64
38:BN:10:LEU:O	38:BN:12:ARG:N	2.30	0.64
56:BB:112:G:H2'	56:BB:113:C:C6	2.33	0.64
1:AA:459:A:C2'	1:AA:460:A:O4'	2.46	0.64
1:AA:844:G:C6	1:AA:846:G:O2'	2.49	0.64
1:AA:938:A:C6	1:AA:939:G:C5	2.85	0.64
1:AA:1339:A:N3	24:AX:32:G:O3'	2.30	0.64
6:AF:7:VAL:HG11	18:AR:64:LEU:HD11	1.79	0.64
7:AG:105:GLU:O	7:AG:109:LYS:HG2	1.97	0.64
8:AH:85:TYR:HD2	8:AH:123:GLU:HA	1.63	0.64
11:AK:60:PHE:O	11:AK:64:VAL:HG12	1.98	0.64
13:AM:25:GLY:O	13:AM:26:LYS:C	2.40	0.64
17:AQ:68:LYS:O	17:AQ:69:THR:HB	1.98	0.64
21:AU:38:GLU:N	21:AU:40:PRO:HD2	2.11	0.64
22:AV:245:C:O3'	22:AV:248:G:N9	2.30	0.64
22:AV:300:U:C2	22:AV:301:A:C8	2.86	0.64
23:AW:79:LEU:CD2	23:AW:115:VAL:HG11	2.26	0.64
24:AX:15:G:H3'	24:AX:16:C:C5'	2.27	0.64
33:BI:56:VAL:HA	33:BI:71:LYS:HE2	1.79	0.64
46:BV:50:MET:O	46:BV:52:ALA:N	2.30	0.64
1:AA:542:G:N3	1:AA:543:U:C6	2.65	0.64
1:AA:1213:A:C8	1:AA:1215:G:C5	2.86	0.64
1:AA:1478:U:H2'	1:AA:1479:C:C6	2.32	0.64
4:AD:2:ARG:NH2	4:AD:114:ARG:HD3	2.13	0.64
9:AI:39:GLY:O	9:AI:40:ARG:HB2	1.96	0.64
16:AP:16:PHE:CD1	16:AP:16:PHE:C	2.76	0.64
17:AQ:51:GLU:CD	17:AQ:51:GLU:H	2.05	0.64
17:AQ:56:ASP:O	17:AQ:58:VAL:HG12	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:21:C:C2’	22:AV:22:G:H5’	2.27	0.64
22:AV:216:U:H2’	22:AV:217:G:C8	2.30	0.64
26:BA:34:U:O2’	26:BA:35:G:OP1	2.15	0.64
26:BA:164:C:H2’	26:BA:165:A:H5’	1.80	0.64
26:BA:889:C:O2	26:BA:891:G:N7	2.30	0.64
26:BA:909:A:C4’	26:BA:910:A:OP1	2.29	0.64
26:BA:1038:G:O2’	26:BA:1039:A:H5’	1.97	0.64
26:BA:1426:G:H1’	26:BA:1572:A:N6	2.13	0.64
26:BA:1501:G:O2’	26:BA:1502:A:H5’	1.98	0.64
26:BA:1536:C:H4’	26:BA:1537:G:H5”	1.80	0.64
26:BA:1722:A:N1	26:BA:1723:G:C2	2.66	0.64
31:BG:79:THR:HG22	31:BG:80:GLU:N	2.12	0.64
32:BH:3:VAL:HB	32:BH:37:VAL:O	1.97	0.64
34:BJ:77:HIS:CD2	34:BJ:79:GLY:H	2.16	0.64
40:BP:112:ARG:O	40:BP:113:LEU:HG	1.97	0.64
42:BR:49:ILE:HG22	42:BR:53:PHE:H	1.60	0.64
1:AA:636:U:H2’	1:AA:637:C:C6	2.33	0.64
1:AA:768:A:H2’	1:AA:769:G:H5’	1.78	0.64
1:AA:922:G:O2’	5:AE:25:LYS:HA	1.97	0.64
1:AA:1078:U:O4	1:AA:1079:G:N1	2.30	0.64
1:AA:1313:U:P	19:AS:5:LYS:HB3	2.38	0.64
1:AA:1356:G:O2’	1:AA:1357:A:H5’	1.98	0.64
7:AG:71:THR:HG23	7:AG:72:VAL:HG13	1.79	0.64
10:AJ:44:THR:CG2	10:AJ:70:HIS:HA	2.28	0.64
11:AK:13:LYS:O	11:AK:14:GLN:HB2	1.97	0.64
22:AV:135:A:H2’	22:AV:136:G:H8	1.62	0.64
22:AV:185:A:OP2	22:AV:185:A:C8	2.51	0.64
22:AV:247:A:H5’	22:AV:248:G:C8	2.32	0.64
25:AY:343:ASN:ND2	25:AY:345:THR:H	1.95	0.64
26:BA:192:C:H2’	26:BA:193:U:H5’	1.79	0.64
26:BA:896:A:O2’	26:BA:897:C:H5”	1.95	0.64
26:BA:978:G:H2’	26:BA:979:A:H5’	1.79	0.64
26:BA:1998:A:OP2	28:BD:141:ARG:NH2	2.30	0.64
26:BA:2092:U:O3’	26:BA:2093:G:OP2	2.16	0.64
26:BA:2202:U:H5”	26:BA:2203:U:OP1	1.96	0.64
29:BE:146:VAL:HG22	29:BE:167:VAL:HG22	1.79	0.64
49:BY:19:LEU:HA	49:BY:22:LEU:HB3	1.79	0.64
56:BB:54:G:H2’	56:BB:55:U:H6	1.63	0.64
1:AA:368:U:H5	25:AY:354:ARG:NH2	1.95	0.64
1:AA:927:G:O2’	1:AA:1503:A:C6	2.50	0.64
1:AA:995:C:N3	1:AA:1046:A:O2’	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1246:A:H2'	1:AA:1247:U:C6	2.33	0.64
4:AD:144:ILE:HG22	4:AD:145:ARG:O	1.97	0.64
4:AD:173:ASP:OD1	4:AD:176:LYS:HE2	1.98	0.64
5:AE:93:VAL:CG2	5:AE:110:MET:HE1	2.28	0.64
22:AV:207:A:H2'	22:AV:208:G:H8	1.63	0.64
25:AY:9:LEU:C	25:AY:11:ARG:H	2.03	0.64
25:AY:227:ILE:HG22	25:AY:227:ILE:O	1.98	0.64
26:BA:179:C:H2'	26:BA:180:G:O5'	1.98	0.64
26:BA:1746:A:C2	26:BA:1747:U:C2	2.85	0.64
26:BA:2161:C:H2'	26:BA:2161:C:O2	1.97	0.64
26:BA:2193:G:HO2'	26:BA:2194:U:H5'	1.61	0.64
30:BF:113:PHE:CZ	30:BF:115:GLY:HA2	2.33	0.64
36:BL:19:LEU:HD22	36:BL:31:GLY:O	1.98	0.64
52:B1:7:LYS:HA	52:B1:23:THR:HG22	1.79	0.64
1:AA:151:A:H2'	1:AA:152:A:O4'	1.98	0.64
1:AA:271:C:H2'	1:AA:272:C:H6	1.63	0.64
1:AA:702:A:N6	26:BA:1846:G:C5'	2.61	0.64
1:AA:1083:U:C5	1:AA:1084:G:C4	2.86	0.64
3:AC:41:TYR:CE2	3:AC:45:GLU:CG	2.81	0.64
22:AV:21:C:HO2'	22:AV:22:G:H5'	1.60	0.64
22:AV:162:A:O2'	22:AV:163:G:H5'	1.98	0.64
22:AV:272:C:H4'	22:AV:291:A:N1	2.12	0.64
25:AY:334:THR:HG21	25:AY:370:LYS:HG2	1.79	0.64
26:BA:102:U:C4	49:BY:2:LYS:HD2	2.32	0.64
26:BA:276:U:H2'	26:BA:276:U:O2	1.97	0.64
26:BA:615:U:C5	29:BE:35:TYR:CZ	2.86	0.64
26:BA:1392:A:H61	44:BT:18:GLU:CD	2.06	0.64
29:BE:131:THR:HG22	29:BE:160:ALA:HA	1.80	0.64
30:BF:154:THR:HG22	30:BF:154:THR:O	1.98	0.64
32:BH:27:ARG:O	32:BH:28:ASN:CB	2.46	0.64
33:BI:6:ALA:CB	33:BI:60:VAL:H	2.10	0.64
33:BI:79:LEU:HD11	33:BI:132:ALA:HB2	1.79	0.64
36:BL:2:ARG:HG2	36:BL:2:ARG:O	1.97	0.64
1:AA:144:G:C4	1:AA:179:A:C2	2.86	0.63
1:AA:419:C:H2'	1:AA:420:U:O5'	1.97	0.63
1:AA:737:C:H2'	1:AA:738:C:H6	1.63	0.63
1:AA:921:U:C4	1:AA:1396:A:C6	2.82	0.63
1:AA:976:G:C8	1:AA:1358:U:O2	2.51	0.63
1:AA:1060:U:H4'	10:AJ:53:ILE:CG2	2.29	0.63
1:AA:1387:G:C5	1:AA:1388:C:C5	2.86	0.63
3:AC:71:ARG:N	3:AC:72:PRO:HD3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:3:TYR:O	4:AD:4:LEU:HB2	1.97	0.63
4:AD:117:VAL:HA	4:AD:122:ILE:CD1	2.28	0.63
9:AI:113:LYS:HE2	9:AI:117:LEU:O	1.98	0.63
11:AK:39:ASN:O	11:AK:40:ALA:HB3	1.97	0.63
14:AN:29:ILE:O	14:AN:30:ILE:C	2.41	0.63
20:AT:53:MET:O	20:AT:56:ILE:CG2	2.46	0.63
22:AV:28:U:O2	22:AV:29:G:C5	2.52	0.63
22:AV:191:A:H2'	22:AV:192:A:H4'	1.80	0.63
22:AV:225:A:N1	22:AV:226:G:C6	2.66	0.63
25:AY:619:ASP:HB3	31:BG:175:LYS:HE2	1.78	0.63
26:BA:60:G:O2'	26:BA:61:C:O5'	2.17	0.63
26:BA:271:G:C4'	26:BA:272:A:OP1	2.47	0.63
26:BA:760:G:C2'	26:BA:761:A:H5'	2.27	0.63
26:BA:880:G:HO2'	26:BA:899:A:N6	1.95	0.63
26:BA:1070:A:C2	33:BI:9:LYS:HG3	2.32	0.63
36:BL:4:ASN:O	36:BL:4:ASN:ND2	2.31	0.63
36:BL:93:ASN:O	36:BL:94:THR:CB	2.46	0.63
1:AA:452:A:H3'	1:AA:452:A:C8	2.34	0.63
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.60	0.63
1:AA:1446:A:C2'	1:AA:1447:A:H5'	2.27	0.63
1:AA:1478:U:H2'	1:AA:1479:C:H6	1.62	0.63
2:AB:40:ILE:HG21	2:AB:201:GLY:HA2	1.79	0.63
2:AB:48:MET:O	2:AB:52:ALA:HB2	1.99	0.63
6:AF:3:HIS:HB2	6:AF:92:THR:HA	1.79	0.63
13:AM:76:ILE:CG2	13:AM:80:MET:CE	2.76	0.63
22:AV:184:A:H2'	22:AV:185:A:N3	2.12	0.63
22:AV:334:A:C5'	22:AV:335:C:N3	2.61	0.63
23:AW:78:LYS:CG	23:AW:79:LEU:H	2.11	0.63
25:AY:139:MET:HE1	25:AY:146:LEU:HB2	1.80	0.63
25:AY:626:ALA:HB1	26:BA:2473:U:O4'	1.97	0.63
26:BA:1076:C:N3	26:BA:1077:A:C6	2.66	0.63
26:BA:2174:C:O2'	26:BA:2175:C:H5'	1.98	0.63
29:BE:18:THR:CG2	29:BE:19:PHE:CD2	2.80	0.63
38:BN:103:ARG:NE	38:BN:110:MET:HE2	2.12	0.63
1:AA:11:G:H2'	1:AA:12:U:O5'	1.98	0.63
1:AA:214:C:O2'	1:AA:215:C:H5'	1.99	0.63
1:AA:481:G:H4'	1:AA:481:G:OP1	1.98	0.63
1:AA:501:C:OP1	12:AL:113:ARG:NH2	2.32	0.63
1:AA:944:G:H2'	1:AA:1338:G:O6	1.98	0.63
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.28	0.63
3:AC:166:TRP:O	3:AC:167:TYR:CD1	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:73:VAL:HG11	5:AE:143:LEU:HB3	1.80	0.63
13:AM:44:ILE:HA	13:AM:47:LEU:HB2	1.81	0.63
22:AV:22:G:H2'	22:AV:23:G:H8	1.61	0.63
22:AV:148:U:H2'	22:AV:149:A:H8	1.58	0.63
22:AV:161:U:O2	22:AV:162:A:C8	2.51	0.63
22:AV:173:C:C2'	22:AV:174:A:C8	2.80	0.63
22:AV:243:G:H2'	22:AV:244:G:C8	2.33	0.63
22:AV:307:G:O2'	22:AV:311:U:C1'	2.46	0.63
22:AV:343:C:OP1	30:BF:79:ARG:HG2	1.98	0.63
25:AY:18:ALA:O	25:AY:19:ALA:HB2	1.99	0.63
25:AY:464:ASP:O	25:AY:468:ARG:HB2	1.99	0.63
26:BA:535:G:C2'	26:BA:536:G:H5'	2.28	0.63
26:BA:1078:U:H1'	26:BA:1088:A:C2	2.33	0.63
26:BA:1414:C:C4	26:BA:1415:U:C5	2.86	0.63
26:BA:2311:A:N7	30:BF:76:PHE:CD2	2.66	0.63
27:BC:42:ARG:HH11	27:BC:42:ARG:HG3	1.63	0.63
27:BC:259:ASN:CG	27:BC:262:THR:HG23	2.24	0.63
30:BF:154:THR:O	30:BF:154:THR:CG2	2.46	0.63
31:BG:37:ASN:O	31:BG:38:ASP:HB2	1.99	0.63
40:BP:102:ARG:HH11	40:BP:102:ARG:HG2	1.64	0.63
42:BR:28:ALA:HB3	42:BR:31:GLU:HG3	1.80	0.63
1:AA:1341:U:O2	1:AA:1342:C:C5	2.51	0.63
2:AB:116:LEU:HA	2:AB:119:GLN:OE1	1.98	0.63
3:AC:166:TRP:C	3:AC:166:TRP:CE3	2.76	0.63
10:AJ:14:ASP:HB3	10:AJ:17:LEU:HD22	1.81	0.63
13:AM:19:THR:HA	13:AM:24:VAL:CG2	2.28	0.63
22:AV:15:A:H4'	22:AV:16:U:OP2	1.98	0.63
22:AV:18:C:N3	23:AW:82:HIS:CE1	2.34	0.63
22:AV:40:G:O6	22:AV:316:A:H2	1.80	0.63
22:AV:116:A:H2'	22:AV:117:G:C5'	2.17	0.63
22:AV:136:G:C2	22:AV:137:C:C6	2.86	0.63
22:AV:256:G:C2	22:AV:258:G:C2	2.87	0.63
23:AW:108:ASN:ND2	23:AW:114:LYS:NZ	2.47	0.63
25:AY:255:ILE:HG12	25:AY:256:THR:N	2.14	0.63
25:AY:468:ARG:C	25:AY:470:PHE:H	2.07	0.63
26:BA:2852:G:H2'	26:BA:2853:C:C6	2.33	0.63
36:BL:93:ASN:O	36:BL:94:THR:HB	1.98	0.63
38:BN:35:LYS:HB2	38:BN:112:TYR:CE1	2.33	0.63
42:BR:51:VAL:HB	42:BR:52:PRO:CD	2.28	0.63
1:AA:148:G:H2'	1:AA:149:A:O5'	1.99	0.63
1:AA:368:U:H6	25:AY:354:ARG:NH2	1.95	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:666:G:H5'	1:AA:726:C:H1'	1.80	0.63
1:AA:1103:C:H4'	2:AB:96:LEU:CB	2.12	0.63
1:AA:1108:G:H2'	1:AA:1108:G:N3	2.13	0.63
2:AB:49:PHE:HA	2:AB:52:ALA:CB	2.26	0.63
2:AB:98:GLY:HA2	2:AB:101:THR:HB	1.80	0.63
3:AC:86:LEU:O	3:AC:87:ARG:C	2.40	0.63
8:AH:64:TYR:HD2	8:AH:69:ALA:HA	1.63	0.63
12:AL:55:ARG:HG2	25:AY:422:GLU:OE2	1.98	0.63
19:AS:12:LEU:O	19:AS:15:LEU:N	2.32	0.63
22:AV:48:C:N3	22:AV:49:C:C6	2.67	0.63
22:AV:63:C:C4	22:AV:73:A:N1	2.66	0.63
22:AV:163:G:C2	22:AV:164:G:N9	2.67	0.63
22:AV:199:C:N3	22:AV:200:G:O6	2.30	0.63
22:AV:208:G:H2'	22:AV:209:C:H6	1.63	0.63
22:AV:208:G:C2	22:AV:209:C:C4	2.86	0.63
24:AX:20:G:C6	26:BA:2112:G:C1'	2.73	0.63
24:AX:77:A:N7	26:BA:2422:C:O4'	2.30	0.63
25:AY:201:ILE:HD12	25:AY:201:ILE:N	2.13	0.63
26:BA:2277:G:C2'	26:BA:2278:A:O5'	2.43	0.63
27:BC:78:GLU:HB2	27:BC:92:LEU:O	1.98	0.63
30:BF:128:SER:O	30:BF:129:MET:HB3	1.98	0.63
33:BI:70:THR:C	33:BI:71:LYS:HD2	2.24	0.63
33:BI:92:PRO:HA	33:BI:97:VAL:HG21	1.79	0.63
45:BU:98:ASN:O	45:BU:100:GLU:N	2.32	0.63
48:BX:10:ARG:HB2	48:BX:11:PRO:CD	2.29	0.63
1:AA:190:A:C8	1:AA:191:G:C8	2.86	0.63
1:AA:601:G:H2'	1:AA:602:A:C8	2.33	0.63
1:AA:626:G:C2'	1:AA:627:G:H5'	2.29	0.63
1:AA:1028:C:H2'	1:AA:1028:C:O2	1.97	0.63
1:AA:1298:U:O4	7:AG:113:LYS:O	2.16	0.63
2:AB:53:LEU:HD12	2:AB:219:THR:CG2	2.29	0.63
2:AB:96:LEU:HB2	2:AB:99:MET:HE2	1.81	0.63
2:AB:105:THR:O	2:AB:106:VAL:CB	2.46	0.63
11:AK:126:ARG:N	21:AU:33:ARG:CZ	2.62	0.63
12:AL:23:LEU:HB2	12:AL:58:ASN:HD22	1.63	0.63
20:AT:4:LYS:O	20:AT:6:ALA:N	2.32	0.63
22:AV:121:A:C6	22:AV:124:A:N1	2.66	0.63
22:AV:216:U:O2'	22:AV:217:G:C5'	2.31	0.63
22:AV:247:A:O4'	22:AV:248:G:N7	2.32	0.63
22:AV:361:C:P	26:BA:2602:A:O2'	2.57	0.63
26:BA:215:G:H4'	26:BA:216:A:H4'	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1482:G:C2	26:BA:1483:G:C8	2.87	0.63
26:BA:2221:G:C2'	26:BA:2222:C:H5'	2.28	0.63
26:BA:2681:C:OP2	28:BD:114:LYS:CE	2.47	0.63
32:BH:6:LEU:HD13	32:BH:37:VAL:HG12	1.81	0.63
32:BH:37:VAL:HG23	32:BH:38:PRO:HD2	1.80	0.63
33:BI:57:VAL:HG12	33:BI:58:ILE:N	2.12	0.63
33:BI:101:SER:HB3	33:BI:104:GLN:NE2	2.13	0.63
42:BR:49:ILE:CG2	42:BR:53:PHE:H	2.11	0.63
52:B1:33:LEU:H	52:B1:51:ALA:HB3	1.62	0.63
1:AA:943:U:H2'	1:AA:944:G:H5'	1.81	0.63
1:AA:1037:C:C2	1:AA:1038:C:C5	2.87	0.63
8:AH:21:LYS:HE2	8:AH:21:LYS:HA	1.79	0.63
9:AI:96:GLU:N	9:AI:96:GLU:CD	2.57	0.63
16:AP:80:LYS:HE3	16:AP:80:LYS:HA	1.80	0.63
19:AS:12:LEU:O	19:AS:14:LEU:N	2.32	0.63
20:AT:54:GLN:HB3	20:AT:55:PRO:CD	2.29	0.63
22:AV:44:C:O2'	22:AV:45:A:O4'	2.17	0.63
22:AV:47:G:N2	22:AV:48:C:C2	2.66	0.63
22:AV:145:C:C2	22:AV:146:C:C5	2.87	0.63
22:AV:150:G:H21	22:AV:151:C:C1'	2.12	0.63
22:AV:196:G:C4	22:AV:230:U:OP2	2.51	0.63
22:AV:267:G:O2'	22:AV:268:U:C5'	2.30	0.63
22:AV:300:U:O2	22:AV:301:A:C8	2.51	0.63
25:AY:635:GLU:HG3	26:BA:1068:G:H5'	1.81	0.63
26:BA:47:C:H2'	26:BA:48:G:H5'	1.81	0.63
26:BA:374:A:C2	26:BA:401:A:C4	2.85	0.63
26:BA:602:A:C2	26:BA:656:G:C6	2.87	0.63
26:BA:819:A:C4	26:BA:1189:A:C2	2.87	0.63
26:BA:1490:A:O2'	27:BC:97:ASP:OD2	2.16	0.63
26:BA:2332:C:H5"	26:BA:2333:A:OP1	1.99	0.63
28:BD:150:GLN:O	28:BD:153:GLY:N	2.32	0.63
31:BG:88:LEU:HD12	31:BG:88:LEU:N	2.13	0.63
32:BH:48:GLU:CD	32:BH:48:GLU:C	2.66	0.63
33:BI:56:VAL:CG2	33:BI:70:THR:HA	2.29	0.63
50:BZ:2:LYS:CD	50:BZ:2:LYS:H	2.11	0.63
1:AA:214:C:H2'	1:AA:215:C:H6	1.64	0.63
1:AA:413:G:C6	4:AD:32:LYS:HD2	2.33	0.63
1:AA:598:U:H4'	8:AH:85:TYR:HD1	1.57	0.63
1:AA:717:U:H4'	11:AK:118:ASN:HD22	1.63	0.63
1:AA:880:C:OP2	12:AL:2:THR:HG21	1.99	0.63
1:AA:1341:U:OP1	24:AX:34:U:OP1	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1492:A:H3'	1:AA:1493:A:C8	2.33	0.63
2:AB:14:HIS:HB2	2:AB:208:ALA:HB2	1.81	0.63
3:AC:41:TYR:OH	3:AC:89:VAL:HG21	1.98	0.63
22:AV:153:U:C4'	22:AV:154:C:OP2	2.42	0.63
22:AV:343:C:OP1	30:BF:79:ARG:CB	2.46	0.63
26:BA:246:C:C2'	26:BA:247:G:H5'	2.29	0.63
26:BA:574:A:H4'	26:BA:575:A:O5'	1.99	0.63
26:BA:846:U:H2'	26:BA:846:U:O2	1.98	0.63
26:BA:885:C:OP2	26:BA:886:A:N6	2.32	0.63
26:BA:887:U:O3'	26:BA:888:C:H3'	1.98	0.63
26:BA:1420:A:N1	26:BA:2211:A:C2	2.67	0.63
26:BA:2211:A:O2'	26:BA:2212:A:OP1	2.15	0.63
27:BC:268:ARG:HH11	27:BC:268:ARG:CG	2.11	0.63
38:BN:103:ARG:NH1	38:BN:110:MET:CE	2.62	0.63
39:BO:54:VAL:HG22	39:BO:54:VAL:O	1.98	0.63
56:BB:48:U:O2'	56:BB:49:C:H5'	1.98	0.63
1:AA:429:U:H1'	1:AA:430:A:H5"	1.81	0.63
1:AA:951:G:C6	1:AA:1231:G:C6	2.86	0.63
1:AA:997:U:C2'	1:AA:998:C:H5'	2.29	0.63
1:AA:1101:A:C4'	1:AA:1102:A:O5'	2.45	0.63
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.34	0.63
1:AA:1413:A:C5	1:AA:1414:U:C5	2.87	0.63
1:AA:1444:U:H2'	1:AA:1444:U:O2	1.98	0.63
1:AA:1480:A:C2	1:AA:1481:U:C2	2.86	0.63
13:AM:53:ASP:HA	13:AM:56:ARG:HB2	1.80	0.63
20:AT:81:GLN:O	20:AT:84:LYS:HB2	1.98	0.63
22:AV:44:C:C4	22:AV:300:U:H5	2.17	0.63
22:AV:44:C:C1'	22:AV:45:A:H8	2.09	0.63
22:AV:45:A:O2'	22:AV:312:A:C2'	2.45	0.63
22:AV:156:G:C4	22:AV:157:C:C4	2.87	0.63
22:AV:173:C:H2'	22:AV:174:A:C8	2.33	0.63
22:AV:343:C:O3'	30:BF:78:ILE:HG13	1.79	0.63
26:BA:707:G:O6	26:BA:724:U:O2	2.16	0.63
26:BA:846:U:O2'	26:BA:847:U:C5	2.51	0.63
26:BA:883:G:C5	26:BA:884:U:C4	2.86	0.63
26:BA:887:U:N1	26:BA:888:C:C6	2.66	0.63
26:BA:888:C:H3'	26:BA:888:C:P	2.39	0.63
26:BA:898:C:H2'	26:BA:899:A:C5'	2.29	0.63
26:BA:1179:G:C8	26:BA:1180:U:O4'	2.52	0.63
26:BA:1621:U:H5"	26:BA:1622:G:OP1	1.99	0.63
33:BI:38:CYS:HB3	33:BI:42:ASN:HD22	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BL:91:ASP:HB3	36:BL:93:ASN:O	1.98	0.63
36:BL:96:LYS:HE2	36:BL:103:ILE:O	1.99	0.63
1:AA:395:C:H2'	1:AA:396:C:C6	2.33	0.62
1:AA:960:U:C5	1:AA:1225:A:C8	2.86	0.62
1:AA:1097:C:O2'	1:AA:1169:A:H2'	1.97	0.62
1:AA:1226:C:N4	13:AM:102:LYS:HG3	2.14	0.62
2:AB:133:ALA:O	2:AB:137:THR:HG23	1.99	0.62
2:AB:215:ALA:O	2:AB:219:THR:CG2	2.47	0.62
4:AD:78:ALA:HB1	4:AD:85:THR:O	1.98	0.62
5:AE:82:HIS:CD2	8:AH:95:MET:SD	2.92	0.62
6:AF:92:THR:HG22	6:AF:93:LYS:N	2.14	0.62
8:AH:58:LEU:HD13	8:AH:58:LEU:C	2.24	0.62
9:AI:5:TYR:HB3	9:AI:88:GLU:HG2	1.81	0.62
14:AN:12:ARG:O	14:AN:16:ALA:HB2	1.98	0.62
20:AT:33:LYS:HA	20:AT:33:LYS:CE	2.29	0.62
22:AV:184:A:C5	22:AV:185:A:N1	2.67	0.62
22:AV:249:U:H2'	22:AV:250:U:C5	2.32	0.62
22:AV:309:A:OP1	22:AV:309:A:C3'	2.47	0.62
23:AW:62:PRO:CB	23:AW:70:ASN:HD22	2.12	0.62
23:AW:94:GLU:O	23:AW:95:GLN:C	2.41	0.62
24:AX:1:C:C2'	24:AX:2:G:H5'	2.28	0.62
26:BA:18:U:OP1	41:BQ:29:ARG:NH2	2.31	0.62
26:BA:179:C:C2'	26:BA:180:G:O5'	2.47	0.62
26:BA:1452:G:H2'	26:BA:1457:U:O4	1.99	0.62
26:BA:1482:G:N2	26:BA:1483:G:C4	2.67	0.62
26:BA:1547:C:H6	26:BA:1547:C:C5'	2.12	0.62
29:BE:176:ASP:OD1	29:BE:176:ASP:C	2.42	0.62
31:BG:148:ARG:HH21	31:BG:166:GLU:CD	2.07	0.62
45:BU:39:ASN:HB3	45:BU:62:ALA:HB3	1.81	0.62
56:BB:53:A:C2'	56:BB:54:G:H5'	2.28	0.62
1:AA:100:G:N7	1:AA:101:A:N7	2.47	0.62
1:AA:143:A:H5'	1:AA:144:G:C5'	2.29	0.62
1:AA:595:A:C6	1:AA:641:U:C5	2.87	0.62
1:AA:841:C:H5'	1:AA:843:U:OP2	1.99	0.62
1:AA:1004:A:C4	1:AA:1026:G:C5	2.86	0.62
1:AA:1032:G:C5'	1:AA:1033:G:OP2	2.47	0.62
1:AA:1211:U:C2'	1:AA:1212:U:OP2	2.46	0.62
1:AA:1390:U:O2'	1:AA:1391:U:C5'	2.30	0.62
2:AB:49:PHE:C	2:AB:49:PHE:CD1	2.76	0.62
2:AB:53:LEU:N	2:AB:53:LEU:HD22	2.14	0.62
4:AD:34:GLU:O	4:AD:37:PRO:HD3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:14:SER:HA	9:AI:68:GLY:O	1.99	0.62
11:AK:52:ARG:NH2	11:AK:56:LYS:HE2	2.14	0.62
11:AK:124:LYS:HG2	11:AK:125:LYS:H	1.64	0.62
16:AP:51:ARG:HH11	16:AP:51:ARG:CG	2.13	0.62
22:AV:346:C:H2'	22:AV:347:PSU:O4'	1.99	0.62
25:AY:17:ILE:HD12	25:AY:17:ILE:N	2.14	0.62
25:AY:316:ILE:HD12	25:AY:326:THR:HG22	1.80	0.62
25:AY:337:SER:HA	25:AY:355:LEU:HD23	1.80	0.62
26:BA:994:C:O3'	26:BA:995:C:H3'	1.98	0.62
26:BA:1420:A:C6	26:BA:2211:A:C2	2.87	0.62
29:BE:189:THR:CG2	29:BE:190:ALA:N	2.62	0.62
30:BF:4:HIS:O	30:BF:7:TYR:HB3	1.99	0.62
30:BF:56:LEU:HD13	30:BF:88:VAL:HG23	1.80	0.62
37:BM:135:VAL:O	37:BM:136:MET:O	2.17	0.62
40:BP:13:LYS:HE3	40:BP:75:THR:O	1.99	0.62
46:BV:29:ILE:HD13	46:BV:30:ILE:H	1.64	0.62
1:AA:189:A:N7	1:AA:190:A:C6	2.67	0.62
1:AA:609:A:H2'	1:AA:610:U:H5'	1.81	0.62
1:AA:1442:G:C2'	1:AA:1443:C:O5'	2.47	0.62
1:AA:1533:C:H5'	1:AA:1534:A:OP1	1.99	0.62
6:AF:47:LEU:HD13	6:AF:51:ILE:HG23	1.81	0.62
8:AH:6:ILE:O	8:AH:10:LEU:HD23	1.99	0.62
16:AP:51:ARG:HH11	16:AP:51:ARG:HG2	1.64	0.62
22:AV:193:A:H2'	22:AV:194:G:H5'	1.77	0.62
22:AV:344:A:O5'	30:BF:76:PHE:N	2.29	0.62
25:AY:162:VAL:O	25:AY:164:MET:HG2	1.98	0.62
25:AY:209:ALA:O	25:AY:210:ARG:C	2.43	0.62
26:BA:879:G:O2'	26:BA:880:G:H5"	1.98	0.62
26:BA:1288:G:C4	26:BA:1327:A:C2	2.87	0.62
27:BC:78:GLU:OE1	27:BC:100:ARG:NE	2.32	0.62
44:BT:69:ARG:HB2	44:BT:74:ILE:HG22	1.81	0.62
1:AA:209:U:C4'	1:AA:210:C:OP2	2.47	0.62
1:AA:407:U:C2	1:AA:408:A:C8	2.87	0.62
4:AD:49:ASP:O	4:AD:53:GLN:HB2	1.98	0.62
6:AF:18:VAL:HB	6:AF:19:PRO:HD3	1.81	0.62
7:AG:3:ARG:HG3	7:AG:4:ARG:N	2.13	0.62
21:AU:28:LEU:CD2	21:AU:28:LEU:C	2.72	0.62
22:AV:361:C:H5"	26:BA:2602:A:O2'	1.99	0.62
24:AX:32:G:N1	24:AX:40:C:N4	2.18	0.62
25:AY:438:PHE:CD2	25:AY:438:PHE:C	2.77	0.62
25:AY:655:TYR:OH	25:AY:659:LEU:HD23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:362:A:H2'	26:BA:362:A:N3	2.15	0.62
26:BA:1142:A:N3	26:BA:1144:A:C8	2.67	0.62
26:BA:2318:G:O2'	26:BA:2319:G:H5'	1.98	0.62
27:BC:42:ARG:HA	27:BC:47:ARG:O	1.99	0.62
27:BC:170:TYR:CE2	27:BC:184:GLU:HB3	2.34	0.62
32:BH:31:VAL:HB	32:BH:32:PRO:CD	2.25	0.62
41:BQ:57:ARG:HA	41:BQ:60:TRP:CE3	2.34	0.62
43:BS:29:VAL:O	43:BS:33:LEU:HD12	1.99	0.62
56:BB:42:C:C5	56:BB:43:C:C5	2.87	0.62
1:AA:922:G:H1'	1:AA:1398:A:N1	2.13	0.62
1:AA:1041:G:H2'	1:AA:1042:A:C8	2.35	0.62
1:AA:1080:A:H8	1:AA:1080:A:P	2.23	0.62
1:AA:1181:G:N1	1:AA:1182:G:N2	2.47	0.62
1:AA:1389:C:O3'	1:AA:1390:U:C6	2.53	0.62
2:AB:118:THR:O	2:AB:119:GLN:CB	2.47	0.62
3:AC:79:LYS:O	3:AC:81:GLU:N	2.33	0.62
3:AC:120:THR:HG22	3:AC:121:SER:N	2.14	0.62
4:AD:90:LEU:HD21	4:AD:194:ILE:HD11	1.79	0.62
5:AE:89:THR:HG22	5:AE:90:GLY:H	1.65	0.62
21:AU:24:LYS:CD	21:AU:25:ALA:N	2.62	0.62
22:AV:136:G:C4	22:AV:137:C:C6	2.87	0.62
22:AV:189:C:O2	22:AV:190:A:C8	2.53	0.62
22:AV:271:G:H2'	22:AV:272:C:C6	2.34	0.62
22:AV:311:U:H2'	22:AV:312:A:C5'	2.28	0.62
22:AV:341:5MU:N3	22:AV:345:A:N6	2.47	0.62
24:AX:18:U:HO2'	24:AX:19:G:H4'	1.63	0.62
24:AX:72:C:H3'	24:AX:73:A:H8	1.65	0.62
25:AY:485:GLU:HB2	25:AY:560:VAL:HG22	1.80	0.62
26:BA:649:G:H2'	26:BA:650:C:C6	2.34	0.62
26:BA:889:C:C5	26:BA:891:G:C6	2.87	0.62
26:BA:947:A:O2'	26:BA:984:A:C2	2.51	0.62
26:BA:1085:A:H2'	26:BA:1086:A:N3	2.14	0.62
26:BA:1434:A:HO2'	26:BA:1435:G:H8	1.45	0.62
26:BA:1435:G:O2'	26:BA:1436:G:H5'	1.99	0.62
29:BE:48:THR:HG22	29:BE:86:ALA:HB3	1.82	0.62
30:BF:104:THR:HG23	30:BF:105:ILE:HG23	1.81	0.62
31:BG:173:ALA:O	31:BG:174:LYS:HB3	1.99	0.62
33:BI:46:ASP:HA	33:BI:50:LYS:HD2	1.80	0.62
38:BN:72:ASP:C	38:BN:72:ASP:OD2	2.42	0.62
44:BT:4:GLU:HA	44:BT:7:LEU:HD12	1.81	0.62
1:AA:399:G:H2'	1:AA:400:C:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:595:A:C6	1:AA:641:U:C6	2.87	0.62
1:AA:923:A:C2	1:AA:1399:C:OP2	2.52	0.62
2:AB:60:ALA:HA	2:AB:64:GLY:N	2.14	0.62
3:AC:122:GLN:O	3:AC:127:VAL:HG22	2.00	0.62
3:AC:152:VAL:HG12	3:AC:197:VAL:HG22	1.81	0.62
4:AD:115:GLN:NE2	4:AD:119:HIS:CE1	2.68	0.62
14:AN:41:ARG:HG3	14:AN:42:TRP:CD2	2.34	0.62
22:AV:116:A:N3	22:AV:129:G:N1	2.46	0.62
22:AV:225:A:C2	22:AV:226:G:N7	2.66	0.62
22:AV:247:A:H4'	22:AV:248:G:C5'	2.28	0.62
25:AY:165:GLN:HB2	25:AY:260:LEU:CD1	2.29	0.62
25:AY:647:VAL:HG21	25:AY:652:MET:SD	2.39	0.62
26:BA:900:A:N3	26:BA:900:A:H2'	2.13	0.62
26:BA:1372:U:C2'	26:BA:1373:A:O5'	2.48	0.62
26:BA:1988:G:C2'	26:BA:1989:G:H5'	2.29	0.62
26:BA:2192:U:O2'	26:BA:2193:G:H5'	1.99	0.62
26:BA:2888:C:H2'	26:BA:2889:C:C6	2.34	0.62
32:BH:72:ILE:HG21	32:BH:140:ALA:HB1	1.82	0.62
34:BJ:80:HIS:O	34:BJ:82:GLY:N	2.31	0.62
42:BR:39:LEU:C	42:BR:49:ILE:HG23	2.25	0.62
1:AA:64:G:C8	1:AA:99:C:N4	2.68	0.62
1:AA:328:C:O2	1:AA:328:C:H2'	1.98	0.62
1:AA:340:U:H2'	1:AA:341:C:H6	1.65	0.62
4:AD:124:VAL:HG23	4:AD:125:ASN:N	2.14	0.62
4:AD:131:ILE:HD12	4:AD:134:TYR:H	1.64	0.62
4:AD:176:LYS:O	4:AD:177:MET:HB2	1.99	0.62
6:AF:7:VAL:O	6:AF:7:VAL:HG22	1.99	0.62
7:AG:119:LEU:HD22	7:AG:123:LEU:HD23	1.82	0.62
8:AH:31:LEU:CD1	8:AH:31:LEU:C	2.72	0.62
9:AI:128:LYS:HE2	24:AX:35:C:H4'	1.82	0.62
12:AL:93:ARG:C	12:AL:94:TYR:CD2	2.77	0.62
22:AV:188:C:C2	22:AV:189:C:C6	2.87	0.62
23:AW:48:PHE:CE2	23:AW:93:VAL:HG21	2.35	0.62
25:AY:215:LYS:HA	25:AY:218:GLU:HB3	1.82	0.62
26:BA:417:C:H2'	26:BA:418:C:O5'	2.00	0.62
26:BA:1061:U:C2	33:BI:9:LYS:HB2	2.34	0.62
26:BA:1410:G:H2'	26:BA:1411:U:C6	2.35	0.62
26:BA:2592:G:C2'	26:BA:2593:U:H5'	2.29	0.62
29:BE:149:ILE:HD12	29:BE:149:ILE:C	2.25	0.62
31:BG:158:GLY:O	31:BG:159:LYS:C	2.43	0.62
33:BI:4:VAL:O	33:BI:5:GLN:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:19:PRO:O	33:BI:23:VAL:HG23	1.99	0.62
33:BI:76:ALA:HA	33:BI:79:LEU:HD12	1.81	0.62
53:B2:12:ARG:HD2	53:B2:44:VAL:HG11	1.80	0.62
1:AA:983:A:C2'	1:AA:983:A:N3	2.63	0.62
1:AA:1077:G:C6	1:AA:1081:A:C6	2.88	0.62
1:AA:1102:A:C2'	1:AA:1103:C:H5'	2.30	0.62
1:AA:1125:U:C5	1:AA:1127:G:C6	2.88	0.62
1:AA:1305:G:O2'	1:AA:1306:A:C8	2.53	0.62
1:AA:1377:A:C6	7:AG:6:ILE:HD12	2.35	0.62
4:AD:2:ARG:CZ	4:AD:114:ARG:HD3	2.30	0.62
11:AK:124:LYS:C	21:AU:33:ARG:HH21	2.06	0.62
13:AM:9:PRO:O	13:AM:10:ASP:CB	2.48	0.62
14:AN:20:PHE:HA	14:AN:24:ALA:HB3	1.82	0.62
15:AO:88:ARG:NH2	26:BA:714:U:C6	2.68	0.62
21:AU:36:PHE:HA	21:AU:39:LYS:HE2	1.80	0.62
22:AV:315:G:N9	22:AV:316:A:C5	2.67	0.62
24:AX:63:C:C3'	24:AX:64:G:H5"	2.29	0.62
25:AY:534:ILE:HD12	25:AY:567:LEU:HD11	1.80	0.62
25:AY:634:MET:SD	26:BA:1068:G:C4	2.92	0.62
26:BA:108:G:C2'	26:BA:109:C:H5'	2.30	0.62
26:BA:880:G:C2	26:BA:898:C:N4	2.68	0.62
26:BA:882:G:O2'	26:BA:883:G:H5'	1.99	0.62
26:BA:2110:G:O2'	26:BA:2120:G:H5'	1.99	0.62
36:BL:110:VAL:O	36:BL:111:ILE:C	2.41	0.62
41:BQ:20:ALA:HB2	41:BQ:38:VAL:CG2	2.29	0.62
1:AA:16:A:H61	1:AA:919:A:H2	1.47	0.62
1:AA:429:U:H3'	4:AD:8:LEU:HD23	1.82	0.62
3:AC:152:VAL:HG23	3:AC:156:LEU:HD21	1.81	0.62
4:AD:62:ARG:HE	4:AD:62:ARG:HA	1.65	0.62
5:AE:45:VAL:O	5:AE:70:MET:HG3	1.99	0.62
5:AE:82:HIS:HD2	8:AH:95:MET:SD	2.22	0.62
5:AE:132:PRO:O	5:AE:134:ASN:N	2.33	0.62
6:AF:8:PHE:CE1	6:AF:60:VAL:HB	2.35	0.62
22:AV:136:G:C2'	22:AV:137:C:O5'	2.47	0.62
22:AV:202:G:C5	22:AV:203:U:C4	2.88	0.62
22:AV:270:C:H1'	22:AV:293:G:N1	2.14	0.62
25:AY:491:VAL:HG12	25:AY:492:ASP:H	1.65	0.62
26:BA:454:A:H4'	26:BA:455:C:OP2	2.00	0.62
26:BA:897:C:O2	26:BA:898:C:C5	2.52	0.62
26:BA:1673:G:C2'	26:BA:1674:G:H5'	2.30	0.62
26:BA:2173:A:H2'	26:BA:2174:C:C6	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:20:SER:HA	33:BI:24:GLY:HA3	1.82	0.62
37:BM:12:MET:HE3	37:BM:72:PRO:HD2	1.81	0.62
38:BN:63:ARG:HG3	38:BN:80:PHE:CZ	2.35	0.62
38:BN:78:LYS:C	38:BN:79:LEU:O	2.40	0.62
1:AA:1101:A:H62	2:AB:173:LYS:HE2	1.65	0.62
1:AA:1210:C:O4'	1:AA:1214:C:C5	2.53	0.62
1:AA:1389:C:H3'	1:AA:1390:U:H5	1.46	0.62
1:AA:1494:G:N9	26:BA:1913:A:H2	1.94	0.62
1:AA:1534:A:H2'	1:AA:1535:C:C6	2.35	0.62
4:AD:168:THR:HB	4:AD:183:ARG:NH2	2.15	0.62
5:AE:80:LEU:HA	5:AE:146:MET:HE1	1.82	0.62
8:AH:53:ASP:CG	8:AH:54:THR:N	2.58	0.62
8:AH:85:TYR:CE2	8:AH:123:GLU:HB2	2.34	0.62
9:AI:25:GLY:CA	9:AI:58:GLU:HA	2.30	0.62
14:AN:43:ASN:HA	14:AN:45:VAL:HG22	1.82	0.62
22:AV:7:G:C6	22:AV:336:G:C6	2.87	0.62
22:AV:63:C:C4	22:AV:73:A:N6	2.67	0.62
22:AV:270:C:H2'	22:AV:271:G:H8	1.64	0.62
22:AV:317:G:C2	22:AV:318:G:C4	2.88	0.62
22:AV:343:C:OP1	30:BF:80:GLN:N	2.33	0.62
25:AY:168:ILE:HD11	25:AY:178:ILE:HD11	1.82	0.62
25:AY:460:GLU:O	25:AY:463:VAL:HB	2.00	0.62
26:BA:1300:G:H4'	26:BA:1301:A:H5'	1.82	0.62
26:BA:2902:C:C4	26:BA:2903:U:O4	2.53	0.62
28:BD:130:GLN:O	28:BD:131:ASP:C	2.39	0.62
30:BF:73:VAL:HG22	30:BF:78:ILE:HD11	1.82	0.62
33:BI:54:ILE:CG1	33:BI:73:PRO:HB3	2.30	0.62
35:BK:71:ARG:HB2	35:BK:75:SER:HB2	1.80	0.62
37:BM:113:ALA:O	37:BM:114:ARG:C	2.41	0.62
42:BR:39:LEU:HA	42:BR:49:ILE:HG23	1.81	0.62
1:AA:224:U:H2'	1:AA:225:C:H6	1.64	0.61
1:AA:757:U:O2'	1:AA:879:C:H1'	2.00	0.61
1:AA:842:U:O2	1:AA:842:U:H2'	1.99	0.61
1:AA:1079:G:C6	1:AA:1080:A:N6	2.68	0.61
1:AA:1213:A:C5	1:AA:1215:G:C4	2.87	0.61
5:AE:80:LEU:HD21	5:AE:122:VAL:HG12	1.82	0.61
6:AF:88:MET:HE3	18:AR:63:TYR:CD2	2.34	0.61
9:AI:24:ASN:C	9:AI:58:GLU:HA	2.25	0.61
9:AI:25:GLY:HA3	9:AI:57:VAL:O	2.00	0.61
22:AV:12:U:H5	22:AV:348:C:HO2'	1.39	0.61
22:AV:48:C:H2'	22:AV:49:C:H4'	1.75	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:112:U:H2'	22:AV:113:A:C8	2.35	0.61
23:AW:71:VAL:HG12	23:AW:72:ASP:N	2.14	0.61
25:AY:117:GLN:HE22	25:AY:120:THR:HG23	1.66	0.61
25:AY:603:GLU:O	25:AY:676:TYR:HA	2.00	0.61
26:BA:897:C:H2'	26:BA:898:C:C1'	2.29	0.61
26:BA:971:G:OP1	26:BA:974:G:O2'	2.17	0.61
26:BA:2056:G:H2'	26:BA:2056:G:N3	2.15	0.61
31:BG:108:PHE:HE2	31:BG:151:ARG:CZ	2.13	0.61
34:BJ:69:ARG:O	34:BJ:90:GLU:HB3	1.99	0.61
35:BK:13:ASN:HD22	35:BK:98:ARG:HB2	1.65	0.61
1:AA:25:C:C5	1:AA:558:G:N2	2.68	0.61
1:AA:61:G:C4	1:AA:107:G:N2	2.68	0.61
1:AA:274:A:H5'	17:AQ:15:LYS:CE	2.30	0.61
1:AA:632:U:H6	1:AA:632:U:H3'	1.63	0.61
1:AA:928:G:O2'	1:AA:1533:C:OP1	2.18	0.61
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.61
1:AA:1096:C:H2'	1:AA:1170:A:O2'	2.00	0.61
2:AB:63:LYS:HD3	2:AB:64:GLY:N	2.14	0.61
7:AG:21:LEU:HD11	7:AG:61:PHE:CZ	2.35	0.61
8:AH:35:ILE:HD11	8:AH:125:ILE:HG21	1.82	0.61
9:AI:89:TYR:O	9:AI:90:ASP:CG	2.43	0.61
11:AK:85:VAL:HG12	11:AK:92:ARG:NH1	2.15	0.61
22:AV:60:U:C2'	22:AV:62:G:C4'	2.59	0.61
22:AV:150:G:C2	22:AV:151:C:C6	2.88	0.61
22:AV:223:G:O2'	22:AV:224:A:P	2.58	0.61
24:AX:7:G:H2'	24:AX:50:G:OP2	2.00	0.61
26:BA:1594:U:H2'	26:BA:1595:C:C6	2.34	0.61
26:BA:2709:G:O2'	26:BA:2710:C:H5'	2.01	0.61
30:BF:142:TYR:C	30:BF:145:VAL:HG22	2.25	0.61
33:BI:33:ASN:HB3	33:BI:36:GLU:H	1.63	0.61
35:BK:91:SER:O	35:BK:93:GLN:HG2	2.00	0.61
37:BM:31:PHE:CZ	37:BM:110:GLU:HB2	2.35	0.61
44:BT:2:ILE:CA	44:BT:3:ARG:HB2	2.30	0.61
48:BX:17:ARG:CZ	48:BX:23:ALA:HB2	2.30	0.61
49:BY:13:GLU:C	49:BY:15:ASN:N	2.55	0.61
49:BY:45:GLN:O	49:BY:46:VAL:HB	2.00	0.61
1:AA:402:G:C2'	1:AA:403:C:H5'	2.31	0.61
1:AA:1034:G:H2'	1:AA:1035:A:O4'	2.00	0.61
1:AA:1079:G:C2	1:AA:1080:A:N1	2.66	0.61
1:AA:1101:A:N6	2:AB:173:LYS:HE2	2.15	0.61
1:AA:1339:A:H1'	24:AX:32:G:O2'	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1356:G:N2	1:AA:1357:A:N3	2.48	0.61
11:AK:34:THR:HA	11:AK:40:ALA:HA	1.81	0.61
22:AV:7:G:C6	22:AV:336:G:C5	2.88	0.61
22:AV:7:G:N3	22:AV:336:G:C8	2.68	0.61
22:AV:56:C:C2'	22:AV:57:G:O5'	2.47	0.61
22:AV:153:U:C1'	22:AV:190:A:N6	2.63	0.61
22:AV:199:C:OP2	22:AV:199:C:C6	2.53	0.61
22:AV:238:A:C2	22:AV:239:A:N7	2.68	0.61
22:AV:269:C:C4	22:AV:270:C:C6	2.87	0.61
23:AW:43:GLY:O	23:AW:45:PHE:CE1	2.53	0.61
23:AW:104:LYS:HD3	23:AW:116:LEU:HD23	1.81	0.61
25:AY:416:LYS:HD3	25:AY:417:THR:N	2.15	0.61
26:BA:55:G:O2'	26:BA:127:A:N1	2.26	0.61
26:BA:274:C:H2'	26:BA:275:C:O4'	2.00	0.61
26:BA:471:A:H8	26:BA:471:A:O5'	1.83	0.61
26:BA:1494:A:N1	26:BA:1495:A:C2	2.68	0.61
26:BA:2420:C:OP2	54:B3:32:LEU:HB2	2.00	0.61
26:BA:2436:G:N3	26:BA:2598:A:H2	1.98	0.61
31:BG:114:HIS:CD2	31:BG:147:LEU:HD21	2.35	0.61
34:BJ:81:ILE:HG12	34:BJ:82:GLY:CA	2.29	0.61
36:BL:90:VAL:HG23	36:BL:120:VAL:CG2	2.30	0.61
50:BZ:48:ASN:O	50:BZ:51:SER:HB3	2.00	0.61
1:AA:40:C:H2'	1:AA:41:G:O4'	2.00	0.61
1:AA:258:G:N2	1:AA:259:G:H1'	2.14	0.61
1:AA:511:C:H1'	1:AA:512:U:H6	1.65	0.61
1:AA:1077:G:C6	1:AA:1081:A:N6	2.69	0.61
1:AA:1389:C:C2	1:AA:1390:U:C2	2.88	0.61
1:AA:1475:G:H4'	26:BA:1689:A:H4'	1.82	0.61
1:AA:1506:U:H4'	11:AK:128:VAL:OXT	2.01	0.61
4:AD:138:PRO:O	4:AD:139:ASN:HB2	2.01	0.61
9:AI:128:LYS:HE2	24:AX:35:C:C4'	2.30	0.61
10:AJ:28:THR:O	10:AJ:32:THR:HG22	2.01	0.61
17:AQ:71:SER:C	17:AQ:72:TRP:CD1	2.78	0.61
22:AV:13:G:N3	22:AV:344:A:N1	2.47	0.61
22:AV:141:C:C2	22:AV:142:U:C5	2.88	0.61
22:AV:155:C:H2'	22:AV:156:G:C5'	2.21	0.61
22:AV:298:A:H2'	22:AV:299:C:C1'	2.30	0.61
22:AV:345:A:C6	22:AV:348:C:N4	2.66	0.61
26:BA:819:A:OP2	26:BA:1187:G:N2	2.32	0.61
26:BA:1929:G:N3	26:BA:1929:G:H5"	2.15	0.61
26:BA:2193:G:N3	26:BA:2194:U:C5	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2469:A:H4'	37:BM:55:ARG:NH1	2.15	0.61
26:BA:2492:U:C2'	26:BA:2493:U:H5'	2.30	0.61
26:BA:2813:A:C2'	26:BA:2814:A:H5'	2.31	0.61
32:BH:34:GLY:O	32:BH:35:LYS:HG3	2.00	0.61
36:BL:2:ARG:HA	36:BL:5:THR:HG21	1.82	0.61
42:BR:24:LYS:HA	42:BR:94:THR:CG2	2.30	0.61
1:AA:121:U:OP2	1:AA:121:U:H4'	2.01	0.61
1:AA:412:A:H1'	1:AA:413:G:H5"	1.82	0.61
1:AA:542:G:C4	1:AA:543:U:C5	2.88	0.61
1:AA:983:A:N3	1:AA:983:A:H2'	2.16	0.61
1:AA:1533:C:H4'	1:AA:1534:A:OP1	2.00	0.61
2:AB:110:ILE:CG1	2:AB:150:ILE:HG12	2.30	0.61
4:AD:54:LEU:HD23	4:AD:55:ARG:N	2.15	0.61
6:AF:53:LYS:O	6:AF:54:LEU:CB	2.47	0.61
7:AG:24:LYS:C	7:AG:100:MET:HE1	2.25	0.61
15:AO:41:HIS:CD2	15:AO:42:PHE:CE2	2.88	0.61
20:AT:70:LYS:HG3	20:AT:74:HIS:CD2	2.35	0.61
22:AV:63:C:O2	22:AV:73:A:C4	2.53	0.61
22:AV:180:G:H2'	22:AV:181:G:O4'	1.92	0.61
23:AW:20:TYR:OH	23:AW:88:ARG:NE	2.34	0.61
25:AY:111:SER:O	25:AY:113:GLY:N	2.33	0.61
26:BA:866:A:C6	26:BA:867:C:H5	2.05	0.61
26:BA:866:A:C4	26:BA:914:G:C4	2.88	0.61
26:BA:1081:U:O2	26:BA:1081:U:H2'	2.00	0.61
26:BA:1546:G:H5"	26:BA:1547:C:H5"	1.81	0.61
26:BA:1784:A:H4'	26:BA:1785:A:O5'	2.00	0.61
26:BA:2657:A:H1'	26:BA:2665:A:N6	2.16	0.61
31:BG:95:ALA:HB2	31:BG:104:LEU:HD23	1.81	0.61
32:BH:117:LEU:HD12	32:BH:118:PRO:HD2	1.83	0.61
36:BL:81:ASP:O	36:BL:83:ALA:N	2.34	0.61
52:B1:28:THR:C	52:B1:29:LYS:HG2	2.25	0.61
1:AA:954:G:H5"	23:AW:92:LYS:NZ	2.16	0.61
1:AA:999:C:H2'	1:AA:1000:A:C8	2.35	0.61
1:AA:1023:U:H2'	1:AA:1024:G:O4'	2.00	0.61
1:AA:1057:G:C2'	1:AA:1058:G:O5'	2.48	0.61
1:AA:1320:C:H2'	1:AA:1321:U:O4'	2.01	0.61
2:AB:88:GLN:HG2	2:AB:220:VAL:HG11	1.83	0.61
2:AB:110:ILE:O	2:AB:111:LYS:C	2.43	0.61
4:AD:21:LYS:O	4:AD:23:GLY:N	2.33	0.61
4:AD:190:LEU:O	4:AD:190:LEU:HD12	2.00	0.61
7:AG:46:LEU:HG	7:AG:57:GLU:HG3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:76:HIS:CE1	25:AY:421:GLN:CD	2.79	0.61
16:AP:73:ALA:O	16:AP:77:GLU:CB	2.48	0.61
19:AS:8:PRO:HB2	19:AS:40:PHE:HZ	1.65	0.61
19:AS:50:VAL:HG12	19:AS:51:HIS:O	2.00	0.61
22:AV:137:C:H41	22:AV:138:C:N4	1.97	0.61
22:AV:157:C:H6	22:AV:157:C:O5'	1.83	0.61
22:AV:173:C:HO2'	22:AV:174:A:H8	1.48	0.61
22:AV:216:U:C2'	22:AV:217:G:H5'	2.31	0.61
22:AV:323:A:C6	22:AV:324:G:C6	2.89	0.61
23:AW:63:TYR:HB3	23:AW:67:SER:HB2	1.83	0.61
25:AY:443:HIS:CE1	25:AY:445:GLU:HB2	2.36	0.61
26:BA:460:A:H2'	26:BA:461:C:O4'	2.01	0.61
26:BA:1462:C:O2'	26:BA:1463:C:C5'	2.48	0.61
26:BA:1475:G:O2'	26:BA:1476:U:P	2.58	0.61
26:BA:1502:A:H2'	26:BA:1503:A:O4'	2.01	0.61
26:BA:1997:C:OP2	28:BD:129:THR:HB	2.00	0.61
28:BD:40:LEU:O	28:BD:41:ALA:C	2.43	0.61
33:BI:5:GLN:O	33:BI:6:ALA:HB3	2.00	0.61
33:BI:100:ILE:CG1	33:BI:137:LEU:HD13	2.31	0.61
33:BI:126:ARG:HA	33:BI:129:GLU:HG3	1.82	0.61
1:AA:91:U:C2	1:AA:92:U:H1'	2.35	0.61
1:AA:545:C:OP1	4:AD:68:GLU:HG3	2.01	0.61
1:AA:1216:A:H2'	1:AA:1217:C:H6	1.66	0.61
1:AA:1429:A:O5'	26:BA:1703:G:O2'	2.17	0.61
1:AA:1527:U:H2'	1:AA:1528:U:C6	2.35	0.61
2:AB:63:LYS:HA	2:AB:63:LYS:CE	2.27	0.61
2:AB:63:LYS:O	2:AB:65:LYS:HE2	2.00	0.61
3:AC:152:VAL:HG23	3:AC:156:LEU:CD2	2.31	0.61
4:AD:24:VAL:HG12	4:AD:25:ARG:N	2.15	0.61
5:AE:72:ASN:HD22	5:AE:72:ASN:H	1.49	0.61
8:AH:57:GLU:HA	8:AH:57:GLU:OE2	2.01	0.61
8:AH:82:LEU:HD13	8:AH:84:ILE:HD11	1.82	0.61
9:AI:128:LYS:NZ	24:AX:35:C:OP2	2.22	0.61
15:AO:72:LYS:HA	15:AO:72:LYS:CE	2.31	0.61
22:AV:245:C:C5'	22:AV:246:U:OP2	2.49	0.61
24:AX:18:U:H1'	24:AX:19:G:O5'	2.01	0.61
26:BA:211:C:OP1	53:B2:25:LYS:NZ	2.34	0.61
26:BA:280:U:H2'	26:BA:281:C:O4'	2.01	0.61
26:BA:323:C:H2'	29:BE:163:ASN:HD21	1.64	0.61
26:BA:533:G:OP1	41:BQ:23:TYR:O	2.19	0.61
26:BA:889:C:O2	26:BA:889:C:C2'	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1731:G:C6	26:BA:1733:G:C5	2.88	0.61
26:BA:2799:A:O2'	26:BA:2800:A:H5'	2.01	0.61
28:BD:1:MET:SD	28:BD:100:LEU:CD1	2.89	0.61
28:BD:4:LEU:HD23	28:BD:101:PHE:CE1	2.34	0.61
28:BD:33:ARG:NH2	28:BD:74:GLU:O	2.33	0.61
30:BF:40:GLY:HA2	30:BF:84:ILE:CD1	2.31	0.61
30:BF:120:SER:HB2	30:BF:127:TYR:CE1	2.34	0.61
42:BR:74:ILE:HD12	42:BR:74:ILE:N	2.15	0.61
51:B0:22:THR:O	51:B0:22:THR:HG23	2.01	0.61
1:AA:1238:A:C2	1:AA:1241:G:N3	2.69	0.61
3:AC:155:ARG:H	3:AC:162:ALA:HA	1.65	0.61
9:AI:29:ILE:HD11	9:AI:37:TYR:CD2	2.35	0.61
10:AJ:57:VAL:HG22	10:AJ:58:ASN:H	1.65	0.61
12:AL:49:ARG:CB	12:AL:89:LEU:HD21	2.29	0.61
15:AO:18:ALA:O	15:AO:19:ASN:CB	2.49	0.61
16:AP:50:THR:O	16:AP:51:ARG:C	2.44	0.61
16:AP:79:ASN:HB2	16:AP:82:ALA:O	2.00	0.61
22:AV:20:A:H2'	23:AW:78:LYS:NZ	2.15	0.61
22:AV:172:U:C2	22:AV:173:C:C5	2.88	0.61
22:AV:180:G:H3'	22:AV:181:G:H8	1.64	0.61
22:AV:188:C:O2	22:AV:189:C:C6	2.53	0.61
22:AV:221:U:N3	22:AV:222:U:C5	2.68	0.61
25:AY:573:HIS:CD2	25:AY:576:ASP:H	2.15	0.61
26:BA:417:C:H2'	26:BA:418:C:H6	1.65	0.61
26:BA:903:C:N3	26:BA:904:G:N7	2.49	0.61
26:BA:1060:U:C5'	26:BA:1062:G:H5'	2.30	0.61
26:BA:1403:A:C2	26:BA:1404:C:C2	2.89	0.61
26:BA:1893:C:H2'	26:BA:1894:C:H5'	1.82	0.61
26:BA:2522:U:H2'	26:BA:2523:G:H5'	1.81	0.61
27:BC:251:THR:HG22	27:BC:252:LYS:H	1.65	0.61
36:BL:48:ARG:HD2	54:B3:59:ALA:O	2.01	0.61
40:BP:21:PRO:HD3	40:BP:49:ILE:HD12	1.82	0.61
1:AA:533:A:C2	1:AA:536:C:C6	2.89	0.61
1:AA:694:A:OP1	11:AK:54:SER:HB3	2.01	0.61
1:AA:1031:C:C4'	1:AA:1032:G:H5"	2.31	0.61
1:AA:1057:G:H5"	3:AC:153:SER:O	2.01	0.61
1:AA:1233:G:C6	1:AA:1234:C:C4	2.88	0.61
1:AA:1271:A:H5'	1:AA:1314:C:C5'	2.31	0.61
1:AA:1348:U:H4'	9:AI:121:ARG:HG3	1.82	0.61
5:AE:39:GLY:HA3	5:AE:116:VAL:O	2.00	0.61
5:AE:81:GLN:CD	5:AE:149:PRO:HB3	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:87:GLY:H	11:AK:113:THR:HG22	1.66	0.61
17:AQ:13:SER:CB	17:AQ:21:VAL:CG1	2.79	0.61
22:AV:323:A:N3	22:AV:324:G:N7	2.47	0.61
22:AV:362:C:OP1	26:BA:2602:A:OP1	2.19	0.61
23:AW:108:ASN:ND2	23:AW:114:LYS:HZ1	1.98	0.61
24:AX:36:A:O2'	24:AX:37:U:H5'	2.01	0.61
25:AY:230:LYS:HZ2	25:AY:230:LYS:HB2	1.66	0.61
25:AY:457:LEU:O	25:AY:461:ILE:HG13	2.01	0.61
26:BA:304:U:O2'	26:BA:305:C:H5'	2.01	0.61
26:BA:404:A:C1'	26:BA:405:U:OP2	2.47	0.61
26:BA:1372:U:H2'	26:BA:1373:A:C5'	2.30	0.61
27:BC:159:THR:H	27:BC:194:VAL:CG1	2.13	0.61
31:BG:41:GLU:HG3	31:BG:54:ARG:HH21	1.66	0.61
33:BI:46:ASP:HA	33:BI:50:LYS:CD	2.30	0.61
33:BI:66:PHE:N	33:BI:66:PHE:CD2	2.68	0.61
36:BL:87:GLY:O	36:BL:89:VAL:HG12	2.00	0.61
37:BM:54:THR:O	37:BM:56:ALA:N	2.33	0.61
39:BO:28:VAL:HG11	39:BO:92:PHE:CZ	2.36	0.61
40:BP:62:LYS:HE3	40:BP:64:SER:HB2	1.82	0.61
1:AA:451:A:O4'	1:AA:452:A:C2	2.53	0.61
1:AA:1216:A:C2	1:AA:1217:C:C5	2.89	0.61
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.66	0.61
5:AE:155:LYS:HA	8:AH:65:PHE:CD2	2.35	0.61
6:AF:46:GLN:HB2	6:AF:56:LYS:HE3	1.82	0.61
14:AN:49:GLN:OE1	14:AN:49:GLN:HA	2.01	0.61
16:AP:73:ALA:O	16:AP:77:GLU:HB3	2.01	0.61
21:AU:33:ARG:NH2	21:AU:34:ARG:HD2	2.16	0.61
24:AX:24:C:H6	24:AX:24:C:O5'	1.84	0.61
24:AX:49:C:O2'	24:AX:60:A:H1'	2.01	0.61
25:AY:71:THR:HG21	25:AY:357:ARG:HD2	1.83	0.61
25:AY:491:VAL:HG12	25:AY:492:ASP:N	2.15	0.61
25:AY:634:MET:CG	26:BA:1068:G:C1'	2.73	0.61
26:BA:96:C:H4'	49:BY:41:HIS:CD2	2.36	0.61
26:BA:460:A:OP1	53:B2:41:ARG:NH1	2.32	0.61
26:BA:725:G:C6	26:BA:726:G:N1	2.69	0.61
26:BA:905:A:C2	26:BA:906:U:C4	2.89	0.61
26:BA:1344:U:H4'	26:BA:1345:C:OP2	2.01	0.61
26:BA:2304:G:H2'	26:BA:2305:U:C5'	2.31	0.61
26:BA:2683:C:OP1	40:BP:50:ARG:NH2	2.34	0.61
27:BC:16:VAL:N	27:BC:203:VAL:HG22	2.16	0.61
33:BI:125:THR:HG22	33:BI:126:ARG:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BL:2:ARG:HA	36:BL:5:THR:CG2	2.31	0.61
36:BL:85:VAL:HG11	36:BL:94:THR:HG22	1.83	0.61
37:BM:15:GLY:C	37:BM:16:ARG:CD	2.73	0.61
38:BN:2:ARG:O	38:BN:3:HIS:C	2.42	0.61
1:AA:595:A:C5	1:AA:641:U:C5	2.88	0.60
1:AA:929:G:H5'	1:AA:1533:C:C5'	2.31	0.60
1:AA:1285:A:H5'	1:AA:1286:U:O4	2.01	0.60
1:AA:1314:C:OP2	19:AS:5:LYS:NZ	2.28	0.60
3:AC:54:ILE:HD12	3:AC:54:ILE:O	2.01	0.60
7:AG:39:GLU:HA	7:AG:42:VAL:HG22	1.82	0.60
10:AJ:80:THR:O	10:AJ:83:THR:HG22	2.00	0.60
11:AK:109:ILE:CG2	21:AU:16:ARG:HE	2.14	0.60
14:AN:25:GLU:HB2	14:AN:28:ALA:HB2	1.83	0.60
16:AP:48:GLU:HG3	16:AP:49:GLY:N	2.16	0.60
20:AT:43:LYS:HB3	20:AT:86:ALA:HB1	1.83	0.60
22:AV:17:U:C2'	23:AW:114:LYS:HE2	2.30	0.60
22:AV:17:U:O2	22:AV:334:A:N6	2.31	0.60
22:AV:54:G:OP2	22:AV:54:G:C4'	2.49	0.60
24:AX:34:U:C4	24:AX:37:U:OP2	2.53	0.60
25:AY:635:GLU:HB3	33:BI:22:PRO:CA	2.31	0.60
26:BA:877:A:N7	26:BA:878:A:N7	2.49	0.60
26:BA:995:C:H5'	26:BA:995:C:H6	1.66	0.60
26:BA:1059:G:H5"	26:BA:1060:U:H3'	1.81	0.60
26:BA:2133:G:C2'	26:BA:2158:A:H61	2.14	0.60
26:BA:2674:G:H4'	35:BK:30:ARG:HD2	1.83	0.60
27:BC:143:VAL:HB	27:BC:153:LEU:HD12	1.82	0.60
27:BC:170:TYR:CD2	27:BC:184:GLU:HA	2.36	0.60
30:BF:107:VAL:HG12	30:BF:108:PRO:HD3	1.83	0.60
35:BK:70:ARG:HD3	35:BK:76:VAL:HG22	1.84	0.60
40:BP:80:VAL:HG12	40:BP:80:VAL:O	1.99	0.60
43:BS:59:GLU:HG3	43:BS:66:ILE:CD1	2.31	0.60
46:BV:48:MET:O	46:BV:51:GLN:HG3	2.01	0.60
1:AA:164:G:H2'	1:AA:165:G:H5'	1.81	0.60
1:AA:468:A:H5'	1:AA:469:C:OP2	2.01	0.60
1:AA:918:A:C6	1:AA:919:A:N6	2.69	0.60
1:AA:1134:G:C5	1:AA:1141:C:N4	2.69	0.60
1:AA:1213:A:N7	1:AA:1215:G:C5	2.70	0.60
1:AA:1341:U:C2'	1:AA:1342:C:C6	2.82	0.60
2:AB:118:THR:O	2:AB:119:GLN:HB2	2.01	0.60
5:AE:59:ILE:O	5:AE:62:ALA:HB3	2.01	0.60
6:AF:3:HIS:O	6:AF:4:TYR:CG	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:8:PHE:CD1	6:AF:8:PHE:C	2.78	0.60
6:AF:92:THR:O	6:AF:93:LYS:HG2	2.00	0.60
9:AI:33:SER:CB	9:AI:36:GLN:HG3	2.30	0.60
10:AJ:52:LEU:HD22	10:AJ:62:ARG:HG2	1.83	0.60
22:AV:67:G:H1'	22:AV:68:U:C5	2.36	0.60
22:AV:149:A:C1'	22:AV:150:G:N7	2.64	0.60
22:AV:171:A:H2'	22:AV:172:U:H5'	1.82	0.60
22:AV:188:C:C2'	22:AV:189:C:H5"	2.32	0.60
22:AV:247:A:C5'	22:AV:248:G:C8	2.83	0.60
22:AV:269:C:N3	22:AV:270:C:C5	2.68	0.60
22:AV:270:C:C2'	22:AV:271:G:C5'	2.75	0.60
22:AV:271:G:C4	22:AV:272:C:C5	2.89	0.60
23:AW:62:PRO:CG	23:AW:73:PRO:HG3	2.30	0.60
25:AY:238:THR:CG2	25:AY:241:GLU:H	2.14	0.60
26:BA:881:G:O6	26:BA:895:U:O4	2.18	0.60
26:BA:1856:U:C2'	26:BA:1857:G:H5'	2.31	0.60
26:BA:2102:G:N2	26:BA:2188:U:H1'	2.16	0.60
39:BO:83:LEU:HD22	39:BO:88:LYS:HB3	1.83	0.60
40:BP:80:VAL:HG11	40:BP:83:ILE:HD11	1.83	0.60
42:BR:49:ILE:C	42:BR:51:VAL:O	2.43	0.60
1:AA:196:A:N3	1:AA:222:C:H1'	2.17	0.60
1:AA:1375:A:C5	1:AA:1376:U:C4	2.90	0.60
1:AA:1443:C:C4	1:AA:1444:U:C5	2.89	0.60
1:AA:1491:G:H2'	1:AA:1492:A:C8	2.36	0.60
2:AB:15:PHE:O	2:AB:40:ILE:HD12	2.01	0.60
4:AD:176:LYS:HD3	4:AD:176:LYS:H	1.67	0.60
6:AF:86:ARG:CG	6:AF:86:ARG:HH11	2.13	0.60
13:AM:44:ILE:HA	13:AM:47:LEU:CB	2.31	0.60
14:AN:15:LEU:O	14:AN:16:ALA:C	2.42	0.60
22:AV:46:U:H5"	22:AV:313:C:H5'	1.83	0.60
22:AV:298:A:C4	22:AV:299:C:C6	2.89	0.60
22:AV:299:C:C2'	22:AV:300:U:H5"	2.31	0.60
23:AW:63:TYR:OH	23:AW:65:LYS:HE3	2.01	0.60
25:AY:389:LEU:HD12	25:AY:389:LEU:N	2.16	0.60
25:AY:630:GLN:HE22	25:AY:646:PHE:HD2	1.48	0.60
26:BA:138:U:H4'	26:BA:139:U:C5'	2.31	0.60
26:BA:1061:U:O2'	26:BA:1062:G:O5'	2.18	0.60
30:BF:51:ASN:HB3	30:BF:146:ASP:CG	2.26	0.60
30:BF:116:LEU:HD23	30:BF:175:PRO:HB2	1.82	0.60
36:BL:110:VAL:N	36:BL:111:ILE:HD12	2.17	0.60
50:BZ:29:ARG:O	50:BZ:30:ARG:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:929:G:H4'	1:AA:1533:C:H5'	1.84	0.60
1:AA:1313:U:P	19:AS:5:LYS:CB	2.89	0.60
1:AA:1375:A:H2'	1:AA:1376:U:C5'	2.28	0.60
3:AC:51:VAL:HG21	3:AC:67:ILE:CG2	2.31	0.60
3:AC:61:LYS:CE	3:AC:61:LYS:HA	2.30	0.60
5:AE:132:PRO:C	5:AE:134:ASN:H	2.09	0.60
6:AF:46:GLN:HB2	6:AF:56:LYS:CE	2.32	0.60
13:AM:16:ILE:O	13:AM:17:ALA:C	2.42	0.60
13:AM:18:LEU:CD1	13:AM:32:ILE:HG21	2.30	0.60
22:AV:20:A:C2'	22:AV:21:C:C5	2.84	0.60
22:AV:21:C:C1'	23:AW:78:LYS:NZ	2.65	0.60
22:AV:157:C:H2'	22:AV:158:U:H5'	1.84	0.60
22:AV:193:A:H2'	22:AV:194:G:C8	2.34	0.60
22:AV:257:U:C6	22:AV:258:G:O6	2.54	0.60
22:AV:267:G:HO2'	22:AV:268:U:H5'	1.60	0.60
25:AY:82:ILE:HD12	25:AY:101:LEU:CD2	2.31	0.60
25:AY:402:ILE:HD12	25:AY:402:ILE:H	1.65	0.60
26:BA:2051:A:H8	26:BA:2051:A:OP2	1.84	0.60
27:BC:104:LEU:N	27:BC:104:LEU:HD12	2.15	0.60
28:BD:55:LYS:HG2	28:BD:56:LYS:N	2.16	0.60
33:BI:66:PHE:CD1	33:BI:68:PHE:CD1	2.89	0.60
1:AA:190:A:N7	1:AA:191:G:C8	2.69	0.60
1:AA:451:A:C2	1:AA:480:U:C4	2.90	0.60
1:AA:938:A:H2'	1:AA:939:G:O5'	2.01	0.60
2:AB:26:MET:HA	2:AB:26:MET:HE3	1.83	0.60
2:AB:81:ASP:O	2:AB:82:ALA:C	2.45	0.60
5:AE:102:THR:CG2	5:AE:103:GLY:N	2.65	0.60
7:AG:39:GLU:HA	7:AG:42:VAL:CG2	2.32	0.60
9:AI:105:ARG:NH1	9:AI:107:ALA:HA	2.15	0.60
13:AM:113:LYS:CB	13:AM:114:PRO:CD	2.78	0.60
20:AT:53:MET:O	20:AT:56:ILE:HG22	2.02	0.60
21:AU:35:GLU:O	21:AU:36:PHE:CB	2.50	0.60
22:AV:9:U:H3'	23:AW:35:ARG:NH2	2.16	0.60
22:AV:21:C:C6	22:AV:22:G:C8	2.89	0.60
22:AV:46:U:O3'	22:AV:313:C:H5'	2.00	0.60
22:AV:270:C:H2'	22:AV:271:G:C5'	2.30	0.60
23:AW:72:ASP:HB2	23:AW:75:ARG:NH2	2.16	0.60
26:BA:1509:A:O2'	26:BA:1510:G:P	2.58	0.60
26:BA:1526:C:H2'	26:BA:1527:G:O5'	2.00	0.60
26:BA:1740:G:O2'	26:BA:1741:C:H5'	2.00	0.60
26:BA:2092:U:H4'	26:BA:2093:G:O5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2542:A:H5"	26:BA:2766:A:O2'	2.02	0.60
27:BC:229:HIS:CD2	27:BC:246:PRO:HB3	2.36	0.60
32:BH:11:ASN:O	32:BH:12:LEU:HB3	2.01	0.60
49:BY:56:LEU:O	49:BY:57:LEU:HB3	2.00	0.60
51:B0:52:LYS:O	51:B0:52:LYS:CG	2.49	0.60
1:AA:622:A:H2'	1:AA:623:C:H5'	1.83	0.60
1:AA:868:C:C2'	1:AA:869:G:H5'	2.30	0.60
1:AA:917:G:O6	1:AA:918:A:C6	2.52	0.60
1:AA:1317:C:H2'	1:AA:1318:A:C5'	2.32	0.60
1:AA:1502:A:C8	1:AA:1504:G:C5	2.89	0.60
5:AE:81:GLN:OE1	5:AE:147:ASN:O	2.18	0.60
6:AF:86:ARG:HH11	6:AF:86:ARG:HG2	1.66	0.60
8:AH:31:LEU:O	8:AH:32:LYS:C	2.43	0.60
10:AJ:7:ARG:HB2	10:AJ:75:ASP:OD1	2.02	0.60
15:AO:34:GLN:HB3	15:AO:58:MET:CE	2.31	0.60
22:AV:207:A:N3	22:AV:208:G:C8	2.69	0.60
22:AV:245:C:H5"	22:AV:248:G:N2	2.16	0.60
22:AV:315:G:C4	22:AV:316:A:C6	2.90	0.60
25:AY:605:ILE:HG23	25:AY:646:PHE:HB3	1.82	0.60
25:AY:634:MET:HG2	26:BA:1068:G:C1'	2.32	0.60
25:AY:635:GLU:CG	33:BI:22:PRO:C	2.73	0.60
26:BA:117:G:C6	26:BA:119:A:N6	2.70	0.60
26:BA:947:A:O2'	26:BA:984:A:H2	1.83	0.60
26:BA:1243:C:H2'	26:BA:1244:A:O5'	2.01	0.60
26:BA:2075:U:C2'	26:BA:2077:A:OP2	2.49	0.60
28:BD:26:VAL:HG12	28:BD:186:LEU:HD13	1.82	0.60
33:BI:37:PHE:CD1	33:BI:41:PHE:HB2	2.36	0.60
36:BL:75:ALA:HB2	36:BL:105:ILE:HD12	1.82	0.60
37:BM:12:MET:HE3	37:BM:72:PRO:CD	2.30	0.60
42:BR:39:LEU:CA	42:BR:49:ILE:HG23	2.31	0.60
42:BR:51:VAL:C	42:BR:52:PRO:O	2.43	0.60
42:BR:64:VAL:O	42:BR:65:ALA:HB2	2.02	0.60
43:BS:4:ILE:HD12	43:BS:4:ILE:N	2.17	0.60
1:AA:135:C:O2	16:AP:1:MET:HE3	2.01	0.60
1:AA:202:G:O2'	1:AA:468:A:C8	2.48	0.60
1:AA:243:A:C2	1:AA:246:A:C8	2.90	0.60
1:AA:495:A:C2	1:AA:496:A:N6	2.69	0.60
1:AA:882:C:C2'	1:AA:883:C:O5'	2.50	0.60
1:AA:909:A:C8	1:AA:910:C:C5	2.90	0.60
1:AA:922:G:N9	1:AA:1398:A:C2	2.69	0.60
1:AA:1080:A:H8	1:AA:1080:A:O5'	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1231:G:C5	1:AA:1232:U:C5	2.89	0.60
1:AA:1534:A:N1	1:AA:1535:C:C2	2.69	0.60
2:AB:71:THR:O	2:AB:72:LYS:HB3	2.01	0.60
14:AN:51:LEU:HD23	14:AN:51:LEU:N	2.17	0.60
21:AU:10:PRO:HD2	21:AU:11:PHE:CD2	2.36	0.60
22:AV:218:G:N2	22:AV:219:G:C4	2.70	0.60
23:AW:55:LEU:HB2	23:AW:79:LEU:HD11	1.83	0.60
24:AX:37:U:C2'	24:AX:38:A:H5'	2.31	0.60
25:AY:150:ILE:C	25:AY:152:THR:H	2.10	0.60
25:AY:264:LEU:O	25:AY:264:LEU:HD23	2.01	0.60
26:BA:8:C:O2'	26:BA:9:G:H5'	2.02	0.60
26:BA:47:C:C2'	26:BA:48:G:H5'	2.32	0.60
26:BA:889:C:N1	26:BA:891:G:C5	2.69	0.60
26:BA:911:A:C5	37:BM:9:PHE:CE1	2.84	0.60
26:BA:1064:C:O2	26:BA:1064:C:H2'	2.02	0.60
26:BA:2516:A:N6	26:BA:2517:C:N4	2.50	0.60
28:BD:39:ASP:OD2	28:BD:40:LEU:HB2	2.01	0.60
36:BL:85:VAL:HG11	36:BL:95:LEU:HD23	1.84	0.60
38:BN:103:ARG:CZ	38:BN:110:MET:CE	2.79	0.60
39:BO:76:LYS:HE3	39:BO:80:GLU:OE2	2.02	0.60
41:BQ:23:TYR:O	41:BQ:24:TYR:HB2	2.01	0.60
44:BT:1:MET:HB2	44:BT:2:ILE:HD12	1.83	0.60
1:AA:93:U:H2'	1:AA:94:G:H5'	1.83	0.60
1:AA:930:C:C4	1:AA:931:C:C5	2.89	0.60
1:AA:1145:A:C2'	1:AA:1146:A:OP2	2.49	0.60
1:AA:1387:G:H2'	1:AA:1388:C:H6	1.65	0.60
2:AB:168:GLU:HA	2:AB:168:GLU:OE1	2.00	0.60
4:AD:121:ALA:N	4:AD:122:ILE:CD1	2.64	0.60
6:AF:51:ILE:HG12	6:AF:51:ILE:O	2.02	0.60
10:AJ:63:ASP:OD1	14:AN:85:ARG:CD	2.50	0.60
11:AK:126:ARG:HB2	21:AU:33:ARG:HD2	1.84	0.60
16:AP:19:VAL:HG22	16:AP:36:VAL:O	2.00	0.60
22:AV:222:U:OP1	22:AV:236:U:C4	2.55	0.60
22:AV:308:U:C1'	22:AV:309:A:OP2	2.44	0.60
24:AX:43:G:H2'	24:AX:44:A:O4'	2.02	0.60
25:AY:201:ILE:H	25:AY:201:ILE:CD1	2.14	0.60
25:AY:613:PRO:C	25:AY:615:GLU:N	2.59	0.60
25:AY:634:MET:HA	25:AY:642:VAL:O	2.01	0.60
26:BA:865:C:C2	26:BA:869:G:O6	2.54	0.60
26:BA:1059:G:C6	26:BA:1080:A:C2	2.90	0.60
26:BA:1714:U:H5"	26:BA:1715:G:H5'	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1844:C:C2	26:BA:1897:G:N2	2.69	0.60
26:BA:2152:G:C5	26:BA:2153:C:C4	2.90	0.60
26:BA:2186:G:H2'	26:BA:2187:U:C6	2.37	0.60
26:BA:2211:A:C1'	26:BA:2212:A:OP1	2.48	0.60
27:BC:156:SER:O	27:BC:157:ALA:C	2.43	0.60
27:BC:196:ASN:OD1	27:BC:196:ASN:C	2.45	0.60
36:BL:116:VAL:O	36:BL:116:VAL:HG13	2.02	0.60
40:BP:20:ARG:HB2	40:BP:21:PRO:HD2	1.83	0.60
46:BV:80:HIS:ND1	46:BV:81:PRO:HD2	2.16	0.60
49:BY:5:GLU:C	49:BY:7:ARG:N	2.56	0.60
56:BB:102:G:C2'	56:BB:103:U:H5'	2.31	0.60
1:AA:380:G:N2	1:AA:384:G:C5	2.70	0.60
1:AA:437:U:C2'	1:AA:438:U:H5'	2.31	0.60
1:AA:1082:A:C2	1:AA:1083:U:O2	2.55	0.60
2:AB:106:VAL:H	2:AB:108:GLN:HG2	1.67	0.60
5:AE:99:SER:O	5:AE:100:GLU:C	2.44	0.60
11:AK:81:LEU:CD2	11:AK:81:LEU:N	2.65	0.60
14:AN:15:LEU:O	14:AN:17:ASP:N	2.35	0.60
15:AO:88:ARG:NH2	26:BA:714:U:C5	2.70	0.60
17:AQ:12:VAL:HG13	17:AQ:21:VAL:HG13	1.84	0.60
17:AQ:45:VAL:HG11	17:AQ:60:ILE:HG13	1.82	0.60
22:AV:13:G:O2'	22:AV:14:G:C5'	2.49	0.60
22:AV:49:C:C4	22:AV:303:G:C6	2.89	0.60
22:AV:62:G:N2	22:AV:63:C:C4	2.69	0.60
22:AV:219:G:H2'	22:AV:220:G:C8	2.36	0.60
22:AV:233:A:C2'	22:AV:234:A:OP1	2.49	0.60
24:AX:54:G:H22	24:AX:62:C:H42	1.49	0.60
25:AY:97:SER:O	25:AY:100:VAL:HG13	2.02	0.60
25:AY:529:ILE:HD11	25:AY:567:LEU:HD11	1.84	0.60
26:BA:866:A:H1'	26:BA:914:G:N3	2.16	0.60
26:BA:900:A:H5'	26:BA:901:C:OP2	2.02	0.60
26:BA:911:A:C5	37:BM:9:PHE:CD1	2.89	0.60
26:BA:1007:C:OP1	34:BJ:39:LYS:HE2	2.02	0.60
26:BA:1069:A:H4'	26:BA:1070:A:H8	1.66	0.60
26:BA:1508:A:OP1	26:BA:1508:A:H4'	2.01	0.60
26:BA:2171:A:O2'	26:BA:2172:U:H5'	2.02	0.60
26:BA:2637:U:H2'	26:BA:2638:G:H5'	1.84	0.60
30:BF:91:ARG:HA	30:BF:95:MET:HE2	1.84	0.60
32:BH:10:ALA:O	32:BH:12:LEU:N	2.35	0.60
32:BH:46:PHE:CD2	32:BH:46:PHE:C	2.80	0.60
42:BR:51:VAL:HG23	42:BR:52:PRO:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B1:34:GLU:HG2	52:B1:49:LYS:HG3	1.84	0.60
1:AA:17:U:O2'	1:AA:1078:U:C2	2.55	0.60
1:AA:256:U:H2'	1:AA:257:G:C8	2.37	0.60
1:AA:294:U:H2'	1:AA:295:C:C6	2.36	0.60
1:AA:950:U:C5	13:AM:100:ARG:NH1	2.70	0.60
1:AA:1306:A:N7	1:AA:1307:U:C5	2.70	0.60
1:AA:1429:A:H4'	26:BA:1703:G:O3'	2.02	0.60
2:AB:70:GLY:HA2	2:AB:163:ILE:CG2	2.32	0.60
2:AB:125:PHE:CD2	2:AB:125:PHE:N	2.70	0.60
3:AC:71:ARG:N	3:AC:72:PRO:CD	2.65	0.60
6:AF:5:GLU:HB3	6:AF:90:MET:HB2	1.83	0.60
7:AG:119:LEU:CD2	7:AG:123:LEU:HD23	2.32	0.60
7:AG:145:GLU:O	7:AG:148:LYS:HB3	2.02	0.60
10:AJ:26:VAL:HG12	10:AJ:30:LYS:HD3	1.84	0.60
12:AL:2:THR:CG2	12:AL:4:ASN:HB2	2.32	0.60
17:AQ:57:VAL:C	17:AQ:58:VAL:HG12	2.25	0.60
18:AR:39:VAL:HG13	18:AR:40:PRO:HD2	1.83	0.60
22:AV:55:G:N1	22:AV:56:C:C4	2.70	0.60
22:AV:156:G:H2'	22:AV:157:C:H6	1.64	0.60
22:AV:264:U:O2	22:AV:298:A:N1	2.35	0.60
22:AV:338:G:C5	22:AV:339:G:C8	2.90	0.60
25:AY:206:LEU:HD11	25:AY:210:ARG:HH12	1.67	0.60
25:AY:337:SER:CA	25:AY:355:LEU:HD23	2.32	0.60
26:BA:624:C:O2'	26:BA:657:U:OP1	2.19	0.60
26:BA:869:G:C4	26:BA:870:U:C5	2.89	0.60
26:BA:2343:U:H2'	26:BA:2344:U:C6	2.37	0.60
27:BC:219:VAL:O	27:BC:220:ARG:C	2.45	0.60
36:BL:100:ILE:HG13	36:BL:101:ILE:HG23	1.83	0.60
52:B1:31:GLU:O	52:B1:32:LYS:C	2.45	0.60
56:BB:73:A:C4	56:BB:104:A:C2	2.89	0.60
1:AA:170:U:O2'	1:AA:171:A:C5'	2.50	0.59
1:AA:418:C:O2'	1:AA:419:C:H5'	2.02	0.59
1:AA:1097:C:H4'	1:AA:1170:A:C5'	1.91	0.59
1:AA:1286:U:C5'	1:AA:1287:A:OP2	2.49	0.59
1:AA:1333:A:C2'	1:AA:1334:G:O5'	2.50	0.59
4:AD:29:THR:C	4:AD:30:LYS:HD3	2.27	0.59
4:AD:125:ASN:HA	4:AD:141:VAL:CG2	2.32	0.59
5:AE:150:GLU:O	5:AE:153:ALA:HB3	2.02	0.59
6:AF:10:VAL:CG1	6:AF:11:HIS:N	2.64	0.59
7:AG:14:ASP:H	7:AG:23:ALA:HB2	1.66	0.59
13:AM:3:ILE:HD11	13:AM:9:PRO:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:14:ASP:OD1	17:AQ:54:ILE:HB	2.01	0.59
22:AV:13:G:N2	22:AV:344:A:C2	2.69	0.59
22:AV:27:U:H2'	22:AV:28:U:H5'	1.82	0.59
22:AV:116:A:C2	22:AV:117:G:C8	2.90	0.59
22:AV:117:G:H2'	22:AV:118:C:H6	1.67	0.59
22:AV:200:G:N7	22:AV:200:G:OP2	2.35	0.59
22:AV:245:C:H5"	22:AV:248:G:C2	2.37	0.59
22:AV:285:A:C2'	22:AV:286:A:C5'	2.57	0.59
24:AX:20:G:N1	26:BA:2112:G:H1'	2.17	0.59
24:AX:33:C:H2'	24:AX:34:U:H5"	1.83	0.59
25:AY:135:PHE:CD1	25:AY:272:LEU:HD22	2.37	0.59
26:BA:887:U:H1'	26:BA:888:C:C4'	2.31	0.59
26:BA:889:C:C2'	26:BA:891:G:N9	2.49	0.59
26:BA:1060:U:OP1	26:BA:1062:G:H4'	2.02	0.59
26:BA:2256:G:C2'	26:BA:2257:U:O5'	2.50	0.59
26:BA:2549:G:N2	26:BA:2560:A:C4	2.70	0.59
30:BF:19:PHE:O	30:BF:20:ASN:C	2.44	0.59
32:BH:27:ARG:O	32:BH:27:ARG:HG2	2.01	0.59
34:BJ:65:THR:HG23	34:BJ:68:LYS:HZ2	1.67	0.59
44:BT:34:VAL:HG22	44:BT:81:LYS:HB3	1.83	0.59
1:AA:8:A:C6	4:AD:205:LYS:HB3	2.36	0.59
1:AA:274:A:C5'	17:AQ:15:LYS:HE2	2.32	0.59
1:AA:502:A:O2'	1:AA:503:C:H5'	2.02	0.59
1:AA:632:U:H2'	1:AA:633:G:OP1	2.02	0.59
1:AA:802:A:H2'	1:AA:803:G:C5'	2.32	0.59
1:AA:853:C:H2'	1:AA:854:U:H6	1.66	0.59
1:AA:1217:C:OP1	14:AN:4:SER:HB2	2.02	0.59
2:AB:86:CYS:HB2	2:AB:88:GLN:CD	2.26	0.59
2:AB:202:ASN:OD1	2:AB:202:ASN:C	2.45	0.59
5:AE:81:GLN:N	5:AE:146:MET:HE1	2.16	0.59
12:AL:43:LYS:CB	12:AL:44:PRO:CD	2.80	0.59
12:AL:75:GLU:O	12:AL:76:HIS:HB2	2.02	0.59
22:AV:180:G:C2'	22:AV:181:G:C8	2.86	0.59
22:AV:200:G:C2	22:AV:230:U:O4	2.55	0.59
22:AV:265:C:H2'	22:AV:266:C:C6	2.38	0.59
23:AW:72:ASP:CB	23:AW:75:ARG:HE	2.15	0.59
25:AY:413:ILE:HG22	25:AY:449:THR:O	2.02	0.59
25:AY:441:SER:O	25:AY:449:THR:HG23	2.02	0.59
26:BA:125:A:OP2	53:B2:19:ARG:HD3	2.02	0.59
26:BA:417:C:C2'	26:BA:418:C:O5'	2.51	0.59
26:BA:869:G:C2'	26:BA:870:U:H6	2.06	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:880:G:H2'	26:BA:881:G:C8	2.29	0.59
26:BA:928:A:O2'	26:BA:929:U:H5'	2.03	0.59
26:BA:1340:U:O4'	26:BA:1340:U:O2	2.13	0.59
26:BA:1415:U:H3'	26:BA:1415:U:O2	2.00	0.59
26:BA:2110:G:O2'	26:BA:2120:G:C5'	2.50	0.59
26:BA:2307:G:C2	26:BA:2311:A:H2'	2.37	0.59
26:BA:2312:U:OP1	30:BF:70:ARG:HB2	2.02	0.59
26:BA:2480:C:C2'	26:BA:2481:G:H5'	2.32	0.59
27:BC:156:SER:O	27:BC:194:VAL:HG11	2.02	0.59
27:BC:158:GLY:N	27:BC:194:VAL:HG13	2.18	0.59
30:BF:40:GLY:O	30:BF:43:ILE:HD13	2.02	0.59
36:BL:85:VAL:CG1	36:BL:94:THR:HG22	2.32	0.59
37:BM:54:THR:O	37:BM:55:ARG:C	2.46	0.59
54:B3:44:ARG:N	54:B3:45:PRO:HD2	2.18	0.59
1:AA:115:G:H4'	1:AA:116:A:O5'	2.01	0.59
1:AA:175:C:O2'	1:AA:176:C:H5'	2.01	0.59
1:AA:270:A:N7	1:AA:271:C:C4	2.70	0.59
2:AB:135:MET:SD	2:AB:135:MET:N	2.75	0.59
3:AC:52:SER:O	3:AC:53:ARG:CB	2.49	0.59
18:AR:19:GLU:N	18:AR:27:THR:HG21	2.17	0.59
22:AV:46:U:O2'	22:AV:47:G:H5'	2.03	0.59
22:AV:117:G:C4	22:AV:118:C:C5	2.91	0.59
22:AV:290:A:C2'	22:AV:291:A:C8	2.84	0.59
22:AV:343:C:H4'	30:BF:73:VAL:H	1.61	0.59
24:AX:27:G:H22	24:AX:45:A:N6	1.98	0.59
25:AY:530:VAL:HG13	25:AY:531:GLY:N	2.16	0.59
26:BA:197:A:H62	26:BA:2430:A:H2'	1.67	0.59
26:BA:1073:A:C3'	26:BA:1074:G:C5'	2.79	0.59
26:BA:2112:G:H2'	26:BA:2112:G:N3	2.17	0.59
26:BA:2346:A:H3'	26:BA:2347:C:H5"	1.84	0.59
32:BH:119:ASN:N	32:BH:120:GLY:CA	2.65	0.59
39:BO:59:ALA:HA	39:BO:62:LEU:HD12	1.84	0.59
48:BX:20:ALA:O	48:BX:21:LEU:HB2	2.03	0.59
1:AA:149:A:H1'	1:AA:1446:A:C2	2.37	0.59
1:AA:373:A:C2	1:AA:482:A:C6	2.91	0.59
1:AA:425:G:H2'	1:AA:426:U:O4'	2.02	0.59
1:AA:624:C:H2'	1:AA:625:U:O5'	2.02	0.59
1:AA:723:U:H5'	1:AA:724:G:O5'	2.02	0.59
1:AA:889:A:H5'	1:AA:891:U:O4'	2.02	0.59
1:AA:1040:U:H2'	1:AA:1041:G:C8	2.38	0.59
1:AA:1138:G:N7	1:AA:1140:C:O4'	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:14:HIS:CB	2:AB:208:ALA:HB2	2.32	0.59
5:AE:80:LEU:CD2	5:AE:122:VAL:HG12	2.31	0.59
8:AH:82:LEU:HD22	8:AH:82:LEU:C	2.27	0.59
12:AL:98:ARG:HA	12:AL:103:CYS:SG	2.42	0.59
22:AV:39:A:C2	22:AV:40:G:H3'	2.38	0.59
22:AV:156:G:C5	22:AV:157:C:C4	2.89	0.59
22:AV:244:G:O2'	22:AV:246:U:OP1	2.20	0.59
22:AV:255:A:H2'	22:AV:256:G:H8	1.65	0.59
22:AV:322:U:C2	22:AV:323:A:C6	2.91	0.59
23:AW:5:LEU:CD1	23:AW:105:ILE:HD11	2.32	0.59
23:AW:14:TYR:CB	23:AW:120:ALA:HB1	2.32	0.59
26:BA:157:C:H2'	26:BA:158:U:O4'	2.01	0.59
26:BA:626:A:H2'	36:BL:78:ARG:NH1	2.17	0.59
26:BA:771:G:C2'	26:BA:772:C:H5'	2.33	0.59
26:BA:868:U:H2'	26:BA:869:G:H8	1.67	0.59
26:BA:1046:A:OP2	26:BA:1046:A:C4'	2.50	0.59
26:BA:1055:G:H2'	26:BA:1055:G:N3	2.17	0.59
26:BA:2207:C:H2'	26:BA:2208:C:C6	2.37	0.59
26:BA:2314:A:H2'	26:BA:2315:G:H8	1.66	0.59
38:BN:24:MET:HE1	38:BN:40:LYS:HB3	1.85	0.59
38:BN:103:ARG:NH1	38:BN:110:MET:HE1	2.17	0.59
42:BR:29:THR:HG22	42:BR:29:THR:O	2.02	0.59
1:AA:209:U:H5"	1:AA:210:C:OP2	2.02	0.59
1:AA:922:G:H22	1:AA:1398:A:H2'	0.42	0.59
1:AA:1293:C:H5'	1:AA:1294:G:OP2	2.03	0.59
2:AB:160:LEU:O	2:AB:162:VAL:HG12	2.02	0.59
2:AB:185:ILE:O	2:AB:185:ILE:HG13	2.02	0.59
4:AD:156:ALA:O	4:AD:159:GLU:HB3	2.00	0.59
6:AF:70:VAL:HA	6:AF:73:GLU:HG3	1.84	0.59
10:AJ:80:THR:HG22	10:AJ:82:LYS:H	1.67	0.59
14:AN:73:PHE:CD1	14:AN:74:LEU:N	2.71	0.59
17:AQ:62:GLU:HB2	17:AQ:72:TRP:CH2	2.37	0.59
19:AS:43:MET:HA	19:AS:46:LEU:HD12	1.84	0.59
22:AV:3:G:H2'	22:AV:4:G:C8	2.37	0.59
22:AV:116:A:N1	22:AV:129:G:C6	2.70	0.59
22:AV:256:G:C6	22:AV:273:A:C6	2.89	0.59
24:AX:28:U:H2'	24:AX:28:U:O2	2.00	0.59
26:BA:102:U:C5	49:BY:2:LYS:HD2	2.38	0.59
26:BA:582:A:C2	26:BA:1259:G:C2	2.90	0.59
26:BA:2286:G:C8	26:BA:2286:G:H5'	2.38	0.59
26:BA:2782:G:C2'	26:BA:2783:U:H5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:99:GLU:OE1	28:BD:99:GLU:HA	2.01	0.59
30:BF:16:MET:HE1	30:BF:21:TYR:O	2.02	0.59
31:BG:123:GLU:CD	31:BG:124:CYS:N	2.60	0.59
45:BU:42:LYS:HG2	45:BU:59:GLU:HB2	1.85	0.59
54:B3:26:ALA:O	54:B3:27:ASN:HB2	2.01	0.59
1:AA:657:U:O2	1:AA:657:U:H2'	2.02	0.59
1:AA:921:U:H2'	1:AA:922:G:O4'	2.02	0.59
1:AA:1060:U:C5	3:AC:1:GLY:N	2.65	0.59
1:AA:1268:G:C6	1:AA:1269:A:N6	2.71	0.59
1:AA:1391:U:O2'	1:AA:1392:G:H5'	2.02	0.59
2:AB:32:GLY:HA3	2:AB:39:ILE:N	2.17	0.59
4:AD:28:ASP:O	4:AD:30:LYS:HD3	2.02	0.59
6:AF:70:VAL:HA	6:AF:73:GLU:CG	2.32	0.59
10:AJ:40:ILE:CG2	10:AJ:73:LEU:HB2	2.33	0.59
12:AL:80:LEU:HB2	12:AL:101:LEU:HD22	1.84	0.59
17:AQ:13:SER:HB2	17:AQ:21:VAL:HG11	1.84	0.59
19:AS:50:VAL:HG22	19:AS:70:LEU:HD12	1.83	0.59
22:AV:19:G:H21	23:AW:81:LEU:CD1	2.14	0.59
25:AY:293:THR:HB	25:AY:294:PRO:HD2	1.84	0.59
26:BA:58:G:OP1	44:BT:78:SER:CB	2.51	0.59
26:BA:440:C:O2'	26:BA:441:U:H5'	2.03	0.59
26:BA:866:A:C2	26:BA:867:C:C5	2.91	0.59
26:BA:1589:U:H2'	26:BA:1590:A:H5'	1.84	0.59
26:BA:1591:A:H2'	26:BA:1592:C:C6	2.36	0.59
32:BH:32:PRO:O	32:BH:33:GLN:HB2	2.02	0.59
32:BH:72:ILE:CG2	32:BH:73:ASN:N	2.65	0.59
33:BI:74:PRO:HG2	33:BI:77:VAL:CG1	2.32	0.59
41:BQ:87:VAL:HG13	42:BR:49:ILE:HD11	1.82	0.59
1:AA:194:C:C2'	1:AA:195:A:H5'	2.33	0.59
1:AA:463:U:H5'	1:AA:464:U:OP2	2.03	0.59
1:AA:739:C:C4	1:AA:740:U:C5	2.91	0.59
1:AA:952:U:H2'	1:AA:953:G:C8	2.37	0.59
1:AA:955:U:C4	1:AA:956:U:C4	2.90	0.59
1:AA:1078:U:C4	1:AA:1079:G:N1	2.70	0.59
1:AA:1079:G:H8	1:AA:1079:G:O5'	1.85	0.59
1:AA:1202:U:C2'	1:AA:1203:C:H5'	2.32	0.59
2:AB:110:ILE:HD11	2:AB:150:ILE:HG12	1.85	0.59
2:AB:165:ALA:HB2	2:AB:186:VAL:HG12	1.85	0.59
3:AC:7:ASN:OD1	3:AC:7:ASN:C	2.46	0.59
3:AC:13:ILE:C	3:AC:14:VAL:HG13	2.27	0.59
3:AC:205:GLU:O	3:AC:206:ILE:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:2:THR:HG22	12:AL:4:ASN:CB	2.32	0.59
17:AQ:11:VAL:O	17:AQ:12:VAL:HG12	2.02	0.59
22:AV:68:U:H5	22:AV:302:A:O2'	1.86	0.59
22:AV:150:G:N3	22:AV:151:C:C6	2.70	0.59
22:AV:181:G:H2'	22:AV:182:U:C4'	2.32	0.59
22:AV:227:C:O5'	22:AV:227:C:H6	1.84	0.59
22:AV:248:G:C5	22:AV:249:U:C4	2.89	0.59
22:AV:257:U:C4	22:AV:273:A:C6	2.91	0.59
24:AX:51:U:H2'	24:AX:52:C:C6	2.37	0.59
25:AY:108:PHE:CE1	25:AY:118:SER:HB2	2.37	0.59
25:AY:634:MET:N	26:BA:1068:G:H1'	2.17	0.59
26:BA:911:A:N6	37:BM:9:PHE:CD2	2.71	0.59
26:BA:1120:G:C2'	26:BA:1121:C:H5'	2.33	0.59
26:BA:1287:A:C5'	38:BN:103:ARG:HD2	2.27	0.59
31:BG:126:THR:HG22	31:BG:127:GLN:N	2.18	0.59
33:BI:44:LYS:O	33:BI:48:ILE:HG12	2.03	0.59
36:BL:26:GLY:O	36:BL:27:LEU:C	2.46	0.59
39:BO:30:ARG:HH22	56:BB:48:U:P	2.26	0.59
39:BO:75:GLY:O	39:BO:78:VAL:HG23	2.03	0.59
39:BO:78:VAL:O	39:BO:79:ALA:C	2.43	0.59
41:BQ:90:ASP:O	41:BQ:94:LEU:HD12	2.03	0.59
1:AA:55:A:C4	25:AY:320:PRO:O	2.56	0.59
1:AA:601:G:H2'	1:AA:602:A:H8	1.68	0.59
1:AA:620:C:H1'	4:AD:131:ILE:HD11	1.85	0.59
1:AA:713:G:H2'	1:AA:714:G:C8	2.37	0.59
1:AA:721:G:C6	1:AA:733:G:C2	2.90	0.59
1:AA:982:U:H4'	1:AA:983:A:O5'	2.02	0.59
1:AA:1381:U:OP1	1:AA:1535:C:H4'	2.03	0.59
1:AA:1413:A:C4	1:AA:1414:U:C6	2.91	0.59
3:AC:6:PRO:HD2	3:AC:183:TYR:CD2	2.38	0.59
4:AD:9:LYS:HA	4:AD:12:ARG:HG3	1.83	0.59
10:AJ:26:VAL:O	10:AJ:30:LYS:HD3	2.01	0.59
13:AM:45:SER:O	13:AM:46:GLU:HB3	2.01	0.59
17:AQ:3:LYS:O	17:AQ:3:LYS:HD2	2.02	0.59
17:AQ:21:VAL:HG22	17:AQ:22:VAL:N	2.18	0.59
22:AV:44:C:C2'	22:AV:45:A:H5'	2.29	0.59
22:AV:187:C:H2'	22:AV:188:C:C5'	2.15	0.59
25:AY:227:ILE:HD11	25:AY:241:GLU:C	2.28	0.59
26:BA:279:A:H2'	26:BA:280:U:H5'	1.84	0.59
26:BA:528:A:C2	26:BA:2043:C:C5'	2.86	0.59
26:BA:841:G:H2'	26:BA:842:U:C6	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1182:G:H2'	26:BA:1183:U:O4'	2.01	0.59
26:BA:1203:U:C4	26:BA:1204:A:C5	2.90	0.59
26:BA:1306:C:H2'	26:BA:1306:C:O2	2.01	0.59
26:BA:1405:U:H2'	26:BA:1406:U:O4'	2.03	0.59
29:BE:12:LEU:HD23	29:BE:12:LEU:C	2.27	0.59
29:BE:18:THR:CG2	29:BE:19:PHE:CE2	2.85	0.59
38:BN:21:PHE:CE2	38:BN:24:MET:CE	2.85	0.59
44:BT:17:SER:O	44:BT:18:GLU:C	2.46	0.59
1:AA:390:U:C2'	1:AA:391:G:O5'	2.51	0.59
1:AA:411:A:P	4:AD:25:ARG:HH22	2.26	0.59
1:AA:463:U:H2'	1:AA:463:U:O2	2.01	0.59
1:AA:749:A:C2	1:AA:750:C:C2	2.90	0.59
1:AA:883:C:C2'	1:AA:884:U:H5'	2.33	0.59
1:AA:1158:C:N4	1:AA:1160:G:C4	2.70	0.59
2:AB:18:GLN:HG2	2:AB:189:ASN:HD22	1.68	0.59
2:AB:20:ARG:O	2:AB:22:TRP:HD1	1.84	0.59
3:AC:96:VAL:CB	3:AC:97:PRO:CD	2.81	0.59
8:AH:78:SER:HA	8:AH:84:ILE:HG12	1.83	0.59
9:AI:20:ILE:HD13	9:AI:86:LEU:HD12	1.85	0.59
10:AJ:5:ARG:HG2	10:AJ:79:PRO:CB	2.32	0.59
11:AK:95:THR:O	11:AK:99:LEU:HD22	2.03	0.59
22:AV:13:G:C4'	22:AV:14:G:OP1	2.51	0.59
22:AV:15:A:OP2	22:AV:16:U:OP2	2.21	0.59
22:AV:213:G:O6	22:AV:284:G:C5	2.55	0.59
22:AV:225:A:C2	22:AV:226:G:N9	2.71	0.59
22:AV:259:G:C4	22:AV:260:C:C5	2.90	0.59
22:AV:266:C:H2'	22:AV:267:G:C4'	2.33	0.59
22:AV:307:G:HO2'	22:AV:311:U:H1'	1.68	0.59
23:AW:65:LYS:HA	26:BA:1909:C:OP1	2.02	0.59
24:AX:27:G:C2'	24:AX:28:U:OP1	2.51	0.59
25:AY:196:ILE:HG13	25:AY:197:ARG:N	2.17	0.59
25:AY:315:LYS:NZ	25:AY:317:MET:HG2	2.17	0.59
25:AY:512:ILE:H	25:AY:512:ILE:CD1	2.14	0.59
26:BA:1055:G:H3'	26:BA:1056:G:C8	2.38	0.59
26:BA:1547:C:H2'	26:BA:1548:A:O4'	2.03	0.59
26:BA:1606:C:O2'	26:BA:1607:C:H5'	2.02	0.59
26:BA:1742:U:H2'	26:BA:1743:G:O5'	2.01	0.59
26:BA:2592:G:H2'	26:BA:2593:U:H5'	1.85	0.59
27:BC:142:ASN:OD1	27:BC:151:GLY:HA3	2.02	0.59
29:BE:178:VAL:HG13	29:BE:179:SER:N	2.17	0.59
29:BE:190:ALA:C	29:BE:192:ALA:H	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:53:PHE:N	42:BR:53:PHE:CD1	2.69	0.59
1:AA:79:G:N2	1:AA:91:U:C4	2.71	0.59
1:AA:327:A:O3'	1:AA:328:C:H4'	2.02	0.59
1:AA:481:G:H2'	1:AA:483:C:N4	2.18	0.59
1:AA:595:A:C4	1:AA:641:U:C4	2.91	0.59
1:AA:833:G:C5	1:AA:834:U:C5	2.91	0.59
1:AA:918:A:C8	1:AA:919:A:N7	2.71	0.59
1:AA:1077:G:O6	1:AA:1081:A:N6	2.36	0.59
1:AA:1141:C:C2	1:AA:1142:G:C8	2.91	0.59
1:AA:1259:C:H5"	1:AA:1260:G:OP2	2.03	0.59
2:AB:151:LYS:HG3	2:AB:152:ASP:O	2.02	0.59
5:AE:88:HIS:ND1	5:AE:137:ARG:HD3	2.18	0.59
8:AH:13:ILE:O	8:AH:15:ASN:N	2.36	0.59
10:AJ:52:LEU:HB3	14:AN:81:ARG:NE	2.18	0.59
15:AO:86:LEU:CD2	15:AO:86:LEU:N	2.65	0.59
16:AP:19:VAL:HG13	16:AP:38:PHE:CA	2.31	0.59
22:AV:34:A:C4'	22:AV:323:A:N3	2.66	0.59
22:AV:272:C:C2'	22:AV:273:A:O5'	2.51	0.59
22:AV:315:G:O2'	22:AV:316:A:H8	1.81	0.59
25:AY:137:ASN:ND2	25:AY:263:ALA:H	2.00	0.59
25:AY:637:ARG:N	33:BI:25:PRO:CD	2.17	0.59
26:BA:528:A:H2	26:BA:2043:C:H5'	1.66	0.59
26:BA:790:U:H2'	26:BA:790:U:O5'	2.03	0.59
26:BA:866:A:C8	26:BA:914:G:C4	2.90	0.59
26:BA:866:A:H8	26:BA:914:G:N1	1.99	0.59
26:BA:888:C:O4'	26:BA:889:C:C4	2.56	0.59
26:BA:998:C:H2'	26:BA:999:U:O5'	2.03	0.59
26:BA:1251:C:OP2	41:BQ:5:ARG:HD2	2.02	0.59
26:BA:1420:A:O2'	26:BA:1421:G:H5'	2.03	0.59
26:BA:1589:U:C2'	26:BA:1590:A:H5'	2.33	0.59
26:BA:2055:C:H5'	26:BA:2056:G:OP1	2.02	0.59
29:BE:152:GLU:HA	29:BE:152:GLU:OE1	2.02	0.59
30:BF:118:ALA:HA	30:BF:176:PHE:CE2	2.38	0.59
37:BM:31:PHE:CE2	37:BM:110:GLU:HB2	2.38	0.59
37:BM:43:ALA:O	37:BM:44:ARG:C	2.45	0.59
49:BY:13:GLU:O	49:BY:15:ASN:N	2.36	0.59
1:AA:419:C:C2'	1:AA:420:U:O5'	2.51	0.58
1:AA:447:G:N2	1:AA:486:U:C4	2.70	0.58
1:AA:1077:G:H1'	1:AA:1080:A:N6	2.18	0.58
1:AA:1286:U:H5'	1:AA:1287:A:OP2	2.02	0.58
1:AA:1534:A:H3'	1:AA:1535:C:C5	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:154:GLY:HA2	3:AC:163:ARG:H	1.68	0.58
8:AH:48:PHE:O	8:AH:49:LYS:CB	2.51	0.58
17:AQ:59:GLU:HG2	17:AQ:75:VAL:HG21	1.85	0.58
22:AV:31:G:N7	22:AV:34:A:N7	2.51	0.58
22:AV:305:A:C4	22:AV:306:U:C5	2.91	0.58
23:AW:22:ALA:HB2	23:AW:81:LEU:CD1	2.34	0.58
23:AW:37:GLY:O	26:BA:1910:G:C5'	2.50	0.58
23:AW:98:LEU:HD21	23:AW:119:LEU:CG	2.32	0.58
25:AY:87:HIS:O	25:AY:88:VAL:C	2.45	0.58
25:AY:519:ARG:NH1	25:AY:678:GLU:HB2	2.18	0.58
25:AY:639:ASN:CA	33:BI:29:GLN:CG	2.27	0.58
26:BA:366:C:H2'	26:BA:367:G:O4'	2.03	0.58
26:BA:1045:C:H3'	26:BA:1046:A:C5'	2.33	0.58
26:BA:1169:A:H2'	26:BA:1170:C:O4'	2.03	0.58
26:BA:1490:A:H2'	26:BA:1490:A:N3	2.18	0.58
26:BA:2096:C:P	32:BH:11:ASN:HD21	2.26	0.58
29:BE:109:LEU:O	29:BE:110:SER:C	2.47	0.58
1:AA:299:G:C6	1:AA:300:A:N1	2.71	0.58
1:AA:482:A:C2	1:AA:483:C:H1'	2.38	0.58
1:AA:1080:A:H3'	1:AA:1081:A:O4'	2.03	0.58
1:AA:1234:C:H2'	1:AA:1235:U:H6	1.68	0.58
1:AA:1411:C:O2'	1:AA:1412:C:C5'	2.30	0.58
2:AB:218:ALA:C	2:AB:219:THR:HG22	2.27	0.58
5:AE:108:GLY:O	5:AE:109:ALA:HB3	2.03	0.58
6:AF:60:VAL:HG12	6:AF:60:VAL:O	2.02	0.58
7:AG:121:ASN:O	7:AG:124:SER:HB3	2.02	0.58
11:AK:125:LYS:N	11:AK:125:LYS:HD3	2.18	0.58
13:AM:71:GLU:O	13:AM:74:MET:CB	2.50	0.58
19:AS:4:LEU:O	19:AS:5:LYS:CG	2.51	0.58
22:AV:12:U:O3'	22:AV:13:G:N7	2.36	0.58
22:AV:173:C:O2	22:AV:174:A:C8	2.56	0.58
22:AV:208:G:H1'	22:AV:223:G:H22	0.52	0.58
23:AW:46:ALA:HA	23:AW:55:LEU:HA	1.85	0.58
25:AY:273:LEU:HA	25:AY:276:VAL:HG23	1.85	0.58
25:AY:617:MET:HE1	25:AY:641:GLN:CD	2.27	0.58
26:BA:878:A:C2'	26:BA:879:G:C5'	2.67	0.58
26:BA:2019:A:H2'	26:BA:2020:A:O5'	2.03	0.58
26:BA:2183:A:H2'	26:BA:2184:A:C8	2.38	0.58
26:BA:2473:U:C6	26:BA:2474:U:H5	2.21	0.58
26:BA:2550:G:H2'	26:BA:2551:C:H5'	1.84	0.58
28:BD:189:VAL:O	28:BD:189:VAL:HG23	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:62:GLN:NE2	30:BF:94:ARG:HD3	2.19	0.58
30:BF:105:ILE:C	30:BF:108:PRO:HD2	2.27	0.58
33:BI:101:SER:HB3	33:BI:104:GLN:CD	2.28	0.58
54:B3:8:GLY:O	54:B3:12:ARG:HG3	2.02	0.58
1:AA:110:C:H2'	1:AA:111:G:O4'	2.04	0.58
1:AA:208:U:H5	1:AA:210:C:C5	2.21	0.58
1:AA:708:C:H2'	1:AA:709:U:H6	1.68	0.58
1:AA:882:C:H2'	1:AA:883:C:O5'	2.04	0.58
1:AA:1101:A:H62	2:AB:173:LYS:CE	2.16	0.58
4:AD:77:GLU:HA	4:AD:77:GLU:OE1	2.03	0.58
9:AI:62:LEU:N	9:AI:62:LEU:CD2	2.65	0.58
13:AM:21:ILE:CB	13:AM:24:VAL:HG22	2.33	0.58
16:AP:3:THR:HG22	16:AP:4:ILE:N	2.18	0.58
17:AQ:11:VAL:O	17:AQ:12:VAL:CB	2.51	0.58
21:AU:4:LYS:HD2	21:AU:4:LYS:C	2.28	0.58
21:AU:36:PHE:HB3	21:AU:40:PRO:HG3	1.85	0.58
21:AU:40:PRO:HA	21:AU:44:ARG:HH11	1.68	0.58
22:AV:35:C:HO2'	22:AV:36:C:H5'	1.65	0.58
22:AV:46:U:C2'	22:AV:47:G:H8	2.06	0.58
22:AV:62:G:N2	22:AV:64:C:N4	2.51	0.58
25:AY:228:MET:O	25:AY:231:TYR:HB3	2.02	0.58
25:AY:414:GLU:O	25:AY:474:ALA:HB1	2.03	0.58
26:BA:735:A:C8	26:BA:736:C:C5	2.90	0.58
26:BA:868:U:C2	26:BA:869:G:N7	2.71	0.58
26:BA:911:A:N6	37:BM:9:PHE:HB3	2.15	0.58
26:BA:1063:G:N3	33:BI:135:MET:HA	2.18	0.58
26:BA:1567:G:N7	27:BC:82:TYR:CE1	2.72	0.58
26:BA:1716:U:O2'	26:BA:1717:A:H5'	2.04	0.58
27:BC:96:LYS:N	27:BC:96:LYS:HD2	2.18	0.58
33:BI:57:VAL:C	33:BI:68:PHE:HB2	2.29	0.58
33:BI:83:ALA:HB1	33:BI:100:ILE:HD12	1.85	0.58
38:BN:2:ARG:CD	38:BN:2:ARG:C	2.75	0.58
38:BN:13:ASN:C	38:BN:13:ASN:ND2	2.61	0.58
45:BU:35:VAL:O	45:BU:36:GLU:C	2.45	0.58
49:BY:28:LEU:HD23	49:BY:37:LEU:CD2	2.33	0.58
56:BB:45:A:C4	56:BB:46:A:C8	2.91	0.58
1:AA:198:G:C6	1:AA:220:G:C2	2.91	0.58
1:AA:259:G:C6	1:AA:260:G:C5	2.90	0.58
1:AA:386:C:C2'	1:AA:387:U:H5'	2.33	0.58
1:AA:412:A:C1'	1:AA:413:G:H5"	2.34	0.58
1:AA:572:A:H5'	1:AA:573:A:OP2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1340:A:O4'	24:AX:33:C:OP1	2.20	0.58
1:AA:1536:C:O2'	7:AG:79:VAL:HG21	2.03	0.58
3:AC:24:ASN:O	3:AC:25:THR:C	2.46	0.58
6:AF:5:GLU:HB3	6:AF:90:MET:HE3	1.85	0.58
8:AH:10:LEU:HD23	8:AH:10:LEU:N	2.19	0.58
11:AK:21:HIS:CD2	11:AK:34:THR:CG2	2.86	0.58
11:AK:41:LEU:HB3	11:AK:76:TYR:HE2	1.66	0.58
13:AM:19:THR:CA	13:AM:24:VAL:HG23	2.30	0.58
14:AN:91:GLY:O	14:AN:93:ILE:N	2.37	0.58
21:AU:24:LYS:CD	21:AU:25:ALA:H	2.15	0.58
22:AV:207:A:C4	22:AV:208:G:C8	2.92	0.58
22:AV:218:G:H2'	22:AV:219:G:H5'	1.85	0.58
22:AV:240:U:H2'	22:AV:241:C:H6	1.65	0.58
22:AV:251:U:H6	22:AV:251:U:O5'	1.86	0.58
22:AV:261:G:C4'	22:AV:262:U:OP1	2.36	0.58
23:AW:4:VAL:O	23:AW:4:VAL:HG13	2.02	0.58
23:AW:19:THR:HG22	23:AW:103:LEU:HD11	1.84	0.58
25:AY:431:LEU:CD2	25:AY:466:LEU:HD13	2.33	0.58
25:AY:510:VAL:HG13	25:AY:569:ASP:O	2.02	0.58
26:BA:1288:G:C5	26:BA:1327:A:C2	2.92	0.58
26:BA:1585:C:H2'	26:BA:1586:A:C5'	2.32	0.58
26:BA:1902:C:H4'	27:BC:241:LYS:O	2.03	0.58
26:BA:2127:G:C4'	26:BA:2128:G:OP1	2.45	0.58
26:BA:2415:G:H4'	36:BL:66:PHE:HB3	1.86	0.58
28:BD:103:ASP:O	28:BD:105:LYS:N	2.36	0.58
29:BE:196:VAL:HA	29:BE:199:MET:HB2	1.85	0.58
30:BF:90:LEU:HB3	30:BF:95:MET:HA	1.85	0.58
31:BG:29:ASN:O	31:BG:29:ASN:CG	2.46	0.58
32:BH:120:GLY:O	32:BH:121:VAL:C	2.46	0.58
36:BL:127:VAL:HG11	36:BL:132:ARG:HB2	1.84	0.58
56:BB:73:A:N3	56:BB:73:A:H2'	2.19	0.58
1:AA:27:G:C2'	1:AA:28:A:O5'	2.51	0.58
1:AA:277:C:O2'	1:AA:278:G:H5'	2.02	0.58
1:AA:511:C:H1'	1:AA:512:U:C6	2.37	0.58
1:AA:868:C:H2'	1:AA:869:G:H5'	1.86	0.58
1:AA:1102:A:O2'	2:AB:97:GLY:CA	2.52	0.58
1:AA:1114:C:H2'	1:AA:1114:C:O2	2.03	0.58
1:AA:1151:A:O2'	1:AA:1152:A:O5'	2.21	0.58
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.67	0.58
3:AC:64:ARG:O	3:AC:99:GLN:O	2.22	0.58
8:AH:74:ILE:HD11	8:AH:128:VAL:HG22	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:119:LYS:O	9:AI:120:ALA:HB3	2.03	0.58
14:AN:78:GLY:C	14:AN:79:LEU:HG	2.27	0.58
16:AP:78:VAL:O	16:AP:80:LYS:N	2.37	0.58
22:AV:132:U:N3	22:AV:133:A:N7	2.51	0.58
22:AV:267:G:N2	22:AV:268:U:O2	2.35	0.58
23:AW:62:PRO:C	23:AW:70:ASN:ND2	2.62	0.58
24:AX:28:U:C2'	24:AX:29:C:C5'	2.82	0.58
25:AY:101:LEU:HD12	25:AY:103:GLY:O	2.04	0.58
25:AY:210:ARG:O	25:AY:213:HIS:N	2.34	0.58
25:AY:248:LYS:O	25:AY:248:LYS:HG2	2.02	0.58
25:AY:544:LYS:O	25:AY:548:GLU:HB2	2.03	0.58
25:AY:606:MET:O	25:AY:646:PHE:HA	2.02	0.58
25:AY:635:GLU:CB	33:BI:22:PRO:CA	2.81	0.58
25:AY:636:PRO:HB2	33:BI:26:ALA:H	1.68	0.58
26:BA:876:C:C2'	26:BA:877:A:C8	2.87	0.58
26:BA:1526:C:C2'	26:BA:1527:G:O5'	2.52	0.58
26:BA:1533:C:H2'	26:BA:1533:C:O2	2.04	0.58
26:BA:1794:A:H2'	26:BA:1795:C:H6	1.68	0.58
26:BA:1979:U:O2'	26:BA:1980:G:H5'	2.03	0.58
26:BA:2305:U:H3	30:BF:150:GLY:HA3	1.67	0.58
26:BA:2506:U:C2'	26:BA:2507:C:H5'	2.33	0.58
30:BF:57:ALA:HB2	30:BF:64:PRO:HD3	1.86	0.58
33:BI:91:LYS:HB3	33:BI:94:LYS:CG	2.33	0.58
37:BM:27:SER:O	37:BM:28:PHE:CD2	2.56	0.58
43:BS:4:ILE:HD12	43:BS:4:ILE:H	1.68	0.58
52:B1:47:ILE:HD12	52:B1:47:ILE:H	1.66	0.58
56:BB:20:G:N2	56:BB:64:G:C4	2.72	0.58
1:AA:368:U:H5"	25:AY:354:ARG:HH11	1.68	0.58
1:AA:553:A:O4'	12:AL:27:PRO:HA	2.04	0.58
1:AA:634:C:H2'	1:AA:635:A:O4'	2.03	0.58
1:AA:1211:U:O2'	1:AA:1212:U:P	2.61	0.58
2:AB:53:LEU:CD1	2:AB:216:VAL:HA	2.34	0.58
7:AG:28:ILE:HD12	7:AG:100:MET:HE3	1.84	0.58
16:AP:52:LEU:O	16:AP:53:ASP:C	2.44	0.58
17:AQ:13:SER:HB3	17:AQ:21:VAL:HG12	1.85	0.58
17:AQ:49:ASN:O	17:AQ:51:GLU:N	2.36	0.58
17:AQ:57:VAL:HG12	17:AQ:78:VAL:HB	1.86	0.58
22:AV:158:U:C2	22:AV:159:C:C5	2.91	0.58
22:AV:183:C:O2'	22:AV:184:A:C8	2.57	0.58
22:AV:192:A:C2'	22:AV:193:A:H5'	2.34	0.58
22:AV:211:C:O5'	22:AV:211:C:H6	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:496:LYS:HE2	25:AY:498:ILE:CD1	2.33	0.58
26:BA:656:G:C2'	26:BA:657:U:O5'	2.52	0.58
26:BA:686:U:H2'	26:BA:788:A:N1	2.19	0.58
26:BA:1141:U:H4'	26:BA:1142:A:O4'	2.03	0.58
26:BA:1185:G:H5"	26:BA:1186:G:OP1	2.03	0.58
26:BA:1439:A:H2'	26:BA:1440:U:H5'	1.85	0.58
32:BH:41:LYS:HA	32:BH:44:ILE:HG12	1.86	0.58
36:BL:67:THR:HG22	36:BL:67:THR:O	2.02	0.58
48:BX:58:ILE:HG13	48:BX:66:VAL:HG21	1.85	0.58
49:BY:23:ARG:O	49:BY:24:GLU:O	2.20	0.58
53:B2:30:VAL:HG12	53:B2:31:LEU:N	2.19	0.58
1:AA:159:G:C5'	1:AA:159:G:H8	2.16	0.58
1:AA:222:C:O2	1:AA:222:C:H2'	2.02	0.58
1:AA:514:C:C2'	1:AA:515:G:O5'	2.52	0.58
1:AA:543:U:O2'	1:AA:544:G:H5'	2.04	0.58
1:AA:922:G:N1	1:AA:923:A:C2	2.71	0.58
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.17	0.58
1:AA:1226:C:C4	13:AM:102:LYS:HG3	2.38	0.58
1:AA:1253:G:N2	1:AA:1254:A:C4	2.72	0.58
5:AE:81:GLN:CG	5:AE:149:PRO:HB3	2.33	0.58
11:AK:52:ARG:O	11:AK:55:ARG:CG	2.51	0.58
12:AL:42:LYS:O	12:AL:43:LYS:C	2.47	0.58
13:AM:32:ILE:HD13	13:AM:58:GLU:CG	2.34	0.58
14:AN:46:LEU:O	14:AN:48:LEU:N	2.36	0.58
22:AV:168:G:C2'	22:AV:169:G:H5'	2.33	0.58
23:AW:48:PHE:CD1	23:AW:48:PHE:N	2.59	0.58
24:AX:8:U:H1'	24:AX:49:C:H1'	1.86	0.58
25:AY:65:ILE:HG12	25:AY:65:ILE:O	2.02	0.58
25:AY:176:GLY:CA	25:AY:187:THR:HA	2.32	0.58
25:AY:215:LYS:O	25:AY:219:VAL:N	2.34	0.58
25:AY:373:ASP:C	25:AY:374:LEU:HD12	2.29	0.58
26:BA:580:U:H2'	26:BA:581:C:C6	2.38	0.58
26:BA:867:C:C6	26:BA:868:U:C5	2.91	0.58
26:BA:1314:C:O2	26:BA:1314:C:H2'	2.02	0.58
26:BA:1501:G:H4'	27:BC:94:LEU:HD21	1.86	0.58
26:BA:1988:G:O2'	26:BA:1989:G:H5'	2.04	0.58
28:BD:96:ILE:HG22	28:BD:97:SER:N	2.19	0.58
30:BF:129:MET:O	30:BF:129:MET:HG3	2.02	0.58
32:BH:40:THR:O	32:BH:42:LYS:N	2.37	0.58
33:BI:28:GLY:O	33:BI:34:ILE:HD11	2.03	0.58
36:BL:23:ILE:O	36:BL:25:SER:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:102:SER:O	42:BR:103:ALA:O	2.22	0.58
49:BY:21:LEU:O	49:BY:22:LEU:O	2.22	0.58
53:B2:27:GLY:O	53:B2:30:VAL:HB	2.04	0.58
1:AA:208:U:C5	1:AA:210:C:C5	2.91	0.58
1:AA:502:A:H2'	1:AA:503:C:C6	2.39	0.58
1:AA:505:G:H4'	1:AA:534:U:C4	2.38	0.58
1:AA:1356:G:N2	1:AA:1357:A:C2	2.72	0.58
1:AA:1534:A:H3'	1:AA:1535:C:H5	1.67	0.58
4:AD:52:VAL:CG2	4:AD:53:GLN:N	2.67	0.58
4:AD:57:LYS:HB3	4:AD:199:ILE:HG22	1.86	0.58
5:AE:108:GLY:HA2	5:AE:111:ARG:CB	2.33	0.58
13:AM:32:ILE:HG22	13:AM:33:LEU:N	2.18	0.58
22:AV:58:G:H2'	22:AV:59:U:C6	2.39	0.58
22:AV:288:G:C2	22:AV:289:U:C4	2.92	0.58
23:AW:58:LEU:O	23:AW:58:LEU:HG	2.03	0.58
26:BA:866:A:C2'	26:BA:867:C:H5"	2.32	0.58
26:BA:877:A:C8	26:BA:878:A:C8	2.92	0.58
26:BA:881:G:C6	26:BA:895:U:O4	2.57	0.58
26:BA:1073:A:C2'	26:BA:1074:G:H5"	2.33	0.58
26:BA:1474:U:C2'	26:BA:1475:G:H5'	2.34	0.58
27:BC:161:VAL:CG1	27:BC:162:GLN:N	2.66	0.58
30:BF:43:ILE:HG22	30:BF:82:TYR:CZ	2.39	0.58
32:BH:3:VAL:HG12	32:BH:38:PRO:HA	1.86	0.58
32:BH:69:ALA:CB	32:BH:138:VAL:HG12	2.34	0.58
33:BI:16:MET:HE2	33:BI:16:MET:HA	1.85	0.58
36:BL:101:ILE:O	36:BL:105:ILE:HG13	2.03	0.58
38:BN:38:LEU:HB3	38:BN:39:PRO:CD	2.34	0.58
44:BT:48:GLN:OE1	44:BT:54:GLU:HA	2.04	0.58
45:BU:53:GLN:N	45:BU:54:PRO:CD	2.67	0.58
45:BU:96:LYS:O	45:BU:97:SER:CB	2.51	0.58
46:BV:92:VAL:O	46:BV:93:ARG:C	2.47	0.58
54:B3:3:ILE:O	54:B3:63:TYR:HE2	1.86	0.58
1:AA:53:A:H2'	1:AA:54:C:O4'	2.04	0.58
1:AA:602:A:O2'	1:AA:603:U:H5'	2.03	0.58
2:AB:56:LEU:HD21	2:AB:220:VAL:HG22	1.86	0.58
2:AB:66:ILE:HB	2:AB:88:GLN:HB3	1.85	0.58
2:AB:138:ARG:HG3	2:AB:139:GLU:N	2.19	0.58
2:AB:143:LEU:HD23	2:AB:143:LEU:H	1.69	0.58
2:AB:207:ARG:O	2:AB:209:VAL:N	2.37	0.58
5:AE:120:HIS:O	5:AE:121:ASN:HB3	2.04	0.58
6:AF:21:MET:O	6:AF:22:ILE:C	2.47	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:25:PHE:O	7:AG:26:VAL:C	2.47	0.58
8:AH:29:SER:O	8:AH:30:LYS:C	2.46	0.58
8:AH:74:ILE:HD13	8:AH:128:VAL:HG22	1.86	0.58
20:AT:67:HIS:HB3	20:AT:68:LYS:HE3	1.84	0.58
22:AV:71:A:C4	22:AV:72:A:N7	2.72	0.58
22:AV:271:G:H2'	22:AV:272:C:H5'	1.83	0.58
22:AV:290:A:C2'	22:AV:291:A:H8	2.17	0.58
22:AV:303:G:C2	22:AV:304:C:C4	2.92	0.58
24:AX:40:C:H2'	24:AX:40:C:O2	2.03	0.58
25:AY:82:ILE:HD12	25:AY:101:LEU:HD22	1.84	0.58
25:AY:106:VAL:HG23	25:AY:132:ARG:HG3	1.84	0.58
25:AY:108:PHE:HE1	25:AY:118:SER:HB2	1.67	0.58
25:AY:314:PHE:HD1	25:AY:315:LYS:HB2	1.68	0.58
25:AY:343:ASN:ND2	25:AY:345:THR:N	2.52	0.58
26:BA:61:C:C2	26:BA:94:A:C2	2.91	0.58
26:BA:875:G:N2	26:BA:902:C:N3	2.50	0.58
26:BA:1059:G:OP2	26:BA:1060:U:C2'	2.52	0.58
26:BA:1075:C:H2'	26:BA:1076:C:C6	2.39	0.58
26:BA:1483:G:C5	26:BA:1484:U:C5	2.92	0.58
26:BA:2128:G:O2'	26:BA:2129:C:H5'	2.04	0.58
26:BA:2698:U:H2'	26:BA:2699:C:C6	2.39	0.58
28:BD:150:GLN:O	28:BD:153:GLY:CA	2.52	0.58
29:BE:104:ALA:O	29:BE:108:ILE:CG2	2.52	0.58
30:BF:107:VAL:N	30:BF:108:PRO:CD	2.67	0.58
31:BG:1:SER:O	31:BG:2:ARG:C	2.46	0.58
43:BS:63:GLY:O	43:BS:64:ALA:HB3	2.04	0.58
44:BT:42:GLU:O	44:BT:45:ALA:HB3	2.04	0.58
45:BU:71:ILE:HD13	45:BU:82:VAL:HG23	1.85	0.58
1:AA:44:A:C2'	1:AA:45:G:H5'	2.33	0.58
1:AA:87:C:C2'	1:AA:88:U:H5'	2.34	0.58
1:AA:692:U:O2'	1:AA:694:A:N7	2.32	0.58
1:AA:883:C:O2'	1:AA:884:U:H5'	2.04	0.58
1:AA:1061:G:C5	1:AA:1197:A:C2	2.92	0.58
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.39	0.58
2:AB:69:VAL:HG22	2:AB:91:VAL:HB	1.85	0.58
4:AD:158:LEU:O	4:AD:161:ALA:HB3	2.03	0.58
5:AE:68:ARG:HG3	5:AE:68:ARG:HH11	1.68	0.58
7:AG:14:ASP:HB2	7:AG:19:SER:HB3	1.86	0.58
9:AI:39:GLY:O	9:AI:40:ARG:CB	2.52	0.58
11:AK:15:VAL:O	11:AK:16:SER:OG	2.21	0.58
22:AV:137:C:H5"	22:AV:138:C:O5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:199:C:O5'	22:AV:199:C:H6	1.87	0.58
22:AV:257:U:O2	22:AV:258:G:N3	2.37	0.58
22:AV:324:G:N1	22:AV:325:G:O6	2.36	0.58
23:AW:19:THR:HG22	23:AW:103:LEU:CD1	2.34	0.58
23:AW:88:ARG:NH1	23:AW:119:LEU:HD21	2.16	0.58
23:AW:89:LEU:HD23	23:AW:89:LEU:N	2.07	0.58
25:AY:67:ALA:HB1	25:AY:327:PHE:HZ	1.66	0.58
26:BA:108:G:H2'	26:BA:109:C:H5'	1.85	0.58
26:BA:215:G:C4'	26:BA:216:A:H4'	2.34	0.58
26:BA:277:G:H1'	26:BA:361:G:O6	2.03	0.58
26:BA:409:G:O2'	26:BA:410:G:H5'	2.04	0.58
26:BA:1281:G:N2	26:BA:1290:C:C2	2.71	0.58
27:BC:83:ASP:OD1	27:BC:83:ASP:C	2.46	0.58
30:BF:134:GLN:HG2	30:BF:134:GLN:O	2.03	0.58
33:BI:5:GLN:O	33:BI:6:ALA:CB	2.51	0.58
33:BI:61:TYR:HH	33:BI:67:THR:HG1	1.51	0.58
33:BI:74:PRO:HG2	33:BI:77:VAL:HG11	1.86	0.58
33:BI:139:VAL:HG23	33:BI:141:ASP:HB2	1.86	0.58
35:BK:114:LYS:O	35:BK:118:LEU:HG	2.04	0.58
37:BM:46:ILE:HD12	37:BM:69:PRO:HD3	1.85	0.58
39:BO:12:THR:O	39:BO:13:ARG:C	2.46	0.58
48:BX:3:VAL:HG13	48:BX:10:ARG:HB3	1.86	0.58
55:B4:25:VAL:HB	55:B4:35:GLN:HB2	1.85	0.58
1:AA:142:G:N3	1:AA:142:G:H2'	2.18	0.57
1:AA:271:C:H2'	1:AA:272:C:C6	2.39	0.57
1:AA:718:A:C2'	1:AA:719:C:H5'	2.33	0.57
1:AA:1005:A:H2'	1:AA:1006:G:O4'	2.04	0.57
1:AA:1211:U:O2'	1:AA:1212:U:OP2	2.22	0.57
1:AA:1379:G:C6	1:AA:1380:U:O4	2.56	0.57
3:AC:86:LEU:O	3:AC:89:VAL:HG22	2.03	0.57
4:AD:112:GLU:O	4:AD:113:ALA:C	2.44	0.57
7:AG:87:PRO:HD3	7:AG:147:ASN:HB2	1.86	0.57
9:AI:20:ILE:HD13	9:AI:86:LEU:CD1	2.33	0.57
9:AI:126:PHE:CD2	9:AI:126:PHE:C	2.82	0.57
11:AK:74:LYS:C	11:AK:75:GLU:OE1	2.47	0.57
12:AL:19:ASN:C	12:AL:20:VAL:HG12	2.29	0.57
12:AL:115:LYS:O	12:AL:116:TYR:HB2	2.03	0.57
13:AM:10:ASP:O	13:AM:11:HIS:HB2	2.04	0.57
14:AN:20:PHE:CD2	14:AN:24:ALA:CB	2.87	0.57
16:AP:38:PHE:CD1	16:AP:38:PHE:C	2.82	0.57
17:AQ:80:LYS:HD3	17:AQ:80:LYS:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:17:U:O2	22:AV:334:A:C6	2.57	0.57
22:AV:39:A:C5	22:AV:40:G:C6	2.91	0.57
22:AV:131:U:H3'	22:AV:131:U:P	2.44	0.57
22:AV:257:U:N3	22:AV:259:G:C5	2.71	0.57
22:AV:263:G:N3	22:AV:263:G:H2'	2.18	0.57
25:AY:171:GLU:HG3	25:AY:172:ASP:H	1.70	0.57
25:AY:409:ILE:HD11	25:AY:654:GLY:CA	2.27	0.57
25:AY:487:ILE:H	25:AY:487:ILE:HD13	1.68	0.57
26:BA:117:G:C6	26:BA:119:A:C6	2.92	0.57
26:BA:1061:U:O4	33:BI:10:LEU:HA	2.04	0.57
26:BA:1873:G:H2'	26:BA:1874:C:H6	1.68	0.57
26:BA:2040:G:H2'	26:BA:2041:U:O4'	2.04	0.57
26:BA:2064:C:H2'	26:BA:2065:C:C6	2.39	0.57
29:BE:122:GLU:O	29:BE:123:LYS:HD3	2.04	0.57
30:BF:66:ILE:HD12	30:BF:66:ILE:O	2.04	0.57
37:BM:43:ALA:O	37:BM:46:ILE:N	2.36	0.57
42:BR:40:MET:CE	42:BR:48:LYS:HE2	2.34	0.57
1:AA:36:C:OP1	12:AL:119:LYS:HE3	2.03	0.57
1:AA:91:U:C4	1:AA:92:U:C2	2.92	0.57
1:AA:244:U:H4'	1:AA:245:U:C5'	2.34	0.57
1:AA:294:U:C2	1:AA:295:C:C5	2.91	0.57
1:AA:676:A:O2'	1:AA:677:U:H5'	2.04	0.57
1:AA:723:U:H5'	1:AA:724:G:P	2.44	0.57
1:AA:994:A:O2'	14:AN:7:ALA:HB1	2.04	0.57
1:AA:1103:C:C5'	2:AB:96:LEU:HB3	2.33	0.57
1:AA:1183:U:OP2	1:AA:1183:U:C4'	2.52	0.57
1:AA:1206:G:O4'	3:AC:193:GLY:HA2	2.04	0.57
1:AA:1337:G:C4'	1:AA:1338:G:OP1	2.52	0.57
2:AB:114:LYS:O	2:AB:116:LEU:N	2.37	0.57
7:AG:49:LEU:HD11	7:AG:60:ALA:HB1	1.86	0.57
8:AH:82:LEU:HD22	8:AH:83:ARG:O	2.05	0.57
12:AL:2:THR:HG22	12:AL:4:ASN:N	2.20	0.57
12:AL:43:LYS:HB2	12:AL:44:PRO:HD3	1.86	0.57
13:AM:76:ILE:HG22	13:AM:80:MET:CE	2.34	0.57
16:AP:6:LEU:HD13	16:AP:71:VAL:HG23	1.86	0.57
17:AQ:68:LYS:O	17:AQ:69:THR:CB	2.52	0.57
21:AU:24:LYS:HD3	21:AU:25:ALA:N	2.18	0.57
22:AV:40:G:C2	22:AV:41:G:C5	2.91	0.57
22:AV:197:A:H3'	22:AV:198:U:C5	2.38	0.57
25:AY:122:TRP:C	25:AY:124:GLN:N	2.61	0.57
25:AY:438:PHE:HB2	25:AY:452:SER:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:630:GLN:HG2	25:AY:630:GLN:O	2.04	0.57
26:BA:187:G:H2'	26:BA:188:G:H5"	1.84	0.57
26:BA:225:C:C2	26:BA:231:A:C2	2.92	0.57
26:BA:535:G:O2'	26:BA:536:G:H5'	2.04	0.57
26:BA:880:G:C2'	26:BA:899:A:H61	2.16	0.57
26:BA:1072:C:OP2	26:BA:1075:C:N4	2.37	0.57
26:BA:1416:G:O2'	26:BA:1417:C:H6	1.86	0.57
26:BA:2102:G:H5'	26:BA:2103:C:OP2	2.04	0.57
30:BF:56:LEU:CD1	30:BF:64:PRO:HB3	2.35	0.57
35:BK:77:ILE:N	35:BK:77:ILE:CD1	2.67	0.57
36:BL:87:GLY:O	36:BL:89:VAL:N	2.37	0.57
39:BO:71:ALA:HB1	39:BO:106:LEU:HB2	1.86	0.57
40:BP:30:TRP:CD2	40:BP:39:LEU:CD1	2.87	0.57
1:AA:89:U:O2'	1:AA:90:C:H5"	2.04	0.57
1:AA:299:G:C6	1:AA:300:A:C2	2.92	0.57
1:AA:625:U:O2'	1:AA:626:G:H5'	2.03	0.57
1:AA:706:A:C2'	1:AA:707:U:H5'	2.34	0.57
1:AA:1525:G:OP1	11:AK:121:ARG:NH2	2.37	0.57
2:AB:202:ASN:OD1	2:AB:203:ASP:N	2.38	0.57
4:AD:31:CYS:SG	4:AD:33:ILE:N	2.77	0.57
4:AD:122:ILE:N	4:AD:122:ILE:CD1	2.66	0.57
4:AD:151:GLN:O	4:AD:152:SER:C	2.47	0.57
9:AI:49:GLN:NE2	9:AI:79:ARG:NH1	2.52	0.57
11:AK:123:PRO:O	11:AK:124:LYS:O	2.22	0.57
16:AP:72:ALA:HA	16:AP:75:ILE:CD1	2.35	0.57
19:AS:8:PRO:HB2	19:AS:40:PHE:CZ	2.38	0.57
20:AT:14:GLU:O	20:AT:15:LYS:C	2.46	0.57
21:AU:11:PHE:CD2	21:AU:11:PHE:N	2.71	0.57
21:AU:11:PHE:N	21:AU:11:PHE:HD2	2.01	0.57
22:AV:8:A:H8	22:AV:334:A:C1'	2.08	0.57
22:AV:58:G:H2'	22:AV:59:U:H6	1.68	0.57
25:AY:605:ILE:CD1	25:AY:677:GLN:HG2	2.34	0.57
26:BA:363:G:H2'	26:BA:364:C:C6	2.40	0.57
26:BA:834:G:N3	26:BA:2358:A:H1'	2.19	0.57
26:BA:1070:A:O2'	26:BA:1097:U:OP1	2.22	0.57
26:BA:1071:G:C1'	26:BA:1089:A:C8	2.88	0.57
26:BA:2870:C:C4	26:BA:2871:U:C5	2.92	0.57
27:BC:161:VAL:HG22	27:BC:175:LEU:HD23	1.87	0.57
29:BE:118:LEU:C	29:BE:119:ILE:HD13	2.29	0.57
31:BG:37:ASN:O	31:BG:38:ASP:HB3	2.04	0.57
31:BG:97:VAL:HG12	31:BG:97:VAL:O	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:62:LEU:C	32:BH:62:LEU:HD12	2.28	0.57
34:BJ:88:THR:O	34:BJ:89:PHE:C	2.47	0.57
36:BL:85:VAL:HB	36:BL:94:THR:HG23	1.87	0.57
46:BV:25:LYS:HE2	46:BV:43:ASP:HA	1.87	0.57
48:BX:63:ILE:HD11	48:BX:67:LEU:HG	1.86	0.57
1:AA:304:U:O2'	1:AA:305:G:H5'	2.04	0.57
1:AA:435:A:C5	1:AA:436:C:C5	2.92	0.57
1:AA:513:C:O2'	1:AA:514:C:O5'	2.20	0.57
1:AA:514:C:H2'	1:AA:515:G:O5'	2.04	0.57
1:AA:1292:G:H2'	1:AA:1293:C:O4'	2.03	0.57
1:AA:1309:G:C6	1:AA:1329:A:C6	2.92	0.57
1:AA:1475:G:O2'	1:AA:1476:A:H5'	2.05	0.57
2:AB:131:LYS:O	2:AB:133:ALA:N	2.37	0.57
4:AD:147:LYS:CD	4:AD:147:LYS:H	2.17	0.57
10:AJ:29:ALA:CA	10:AJ:32:THR:HG22	2.33	0.57
19:AS:61:VAL:HA	19:AS:65:MET:SD	2.44	0.57
22:AV:40:G:C5	22:AV:316:A:C2	2.93	0.57
22:AV:228:G:HO2'	22:AV:232:A:H2	0.73	0.57
22:AV:290:A:O4'	22:AV:291:A:C8	2.57	0.57
23:AW:13:ASP:C	23:AW:14:TYR:CD2	2.82	0.57
25:AY:35:TYR:HE1	25:AY:269:VAL:HB	1.70	0.57
25:AY:680:PRO:O	25:AY:682:GLN:N	2.33	0.57
26:BA:881:G:N2	26:BA:895:U:H3	2.02	0.57
26:BA:1066:U:O2	26:BA:1069:A:N7	2.38	0.57
26:BA:1794:A:H2'	26:BA:1795:C:C6	2.40	0.57
26:BA:2304:G:C1'	30:BF:128:SER:HB3	2.34	0.57
26:BA:2720:U:OP1	40:BP:52:ARG:NH2	2.37	0.57
26:BA:2801:G:H2'	26:BA:2802:G:H8	1.68	0.57
31:BG:53:PRO:HD3	31:BG:61:TRP:CH2	2.39	0.57
33:BI:115:ASP:O	33:BI:116:MET:HG2	2.05	0.57
37:BM:90:GLU:O	37:BM:91:TYR:HB3	2.02	0.57
38:BN:2:ARG:O	38:BN:2:ARG:CD	2.52	0.57
41:BQ:9:ALA:O	41:BQ:10:ARG:C	2.45	0.57
43:BS:86:MET:HE3	43:BS:87:PRO:HD2	1.86	0.57
1:AA:201:G:C2	1:AA:217:C:O2	2.58	0.57
1:AA:1054:C:H4'	1:AA:1055:A:OP1	2.04	0.57
1:AA:1168:U:O2	1:AA:1168:U:C2'	2.53	0.57
1:AA:1183:U:OP2	1:AA:1183:U:O4'	2.22	0.57
1:AA:1337:G:H4'	1:AA:1338:G:OP1	2.04	0.57
1:AA:1533:C:C5'	1:AA:1534:A:OP1	2.52	0.57
5:AE:93:VAL:HG21	5:AE:110:MET:CE	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:96:GLN:HB2	5:AE:123:LEU:CD1	2.35	0.57
5:AE:152:VAL:O	5:AE:155:LYS:HB2	2.05	0.57
5:AE:158:LYS:O	8:AH:63:LYS:HE3	2.04	0.57
6:AF:24:ARG:HH11	6:AF:24:ARG:HG2	1.69	0.57
11:AK:22:ILE:CG1	11:AK:85:VAL:HG22	2.35	0.57
21:AU:33:ARG:CZ	21:AU:34:ARG:HB2	2.35	0.57
22:AV:71:A:H2'	22:AV:72:A:N7	2.19	0.57
22:AV:209:C:H2'	22:AV:210:C:C6	2.40	0.57
22:AV:290:A:O2'	22:AV:291:A:P	2.61	0.57
25:AY:137:ASN:HD21	25:AY:263:ALA:CB	2.18	0.57
25:AY:225:GLU:O	25:AY:228:MET:HB3	2.04	0.57
25:AY:617:MET:CA	26:BA:1095:A:OP1	2.52	0.57
26:BA:751:A:H5'	43:BS:90:LYS:HA	1.86	0.57
26:BA:905:A:HO2'	26:BA:906:U:H5'	1.67	0.57
26:BA:1907:G:C6	26:BA:1908:C:C4	2.93	0.57
26:BA:2327:A:H2'	26:BA:2328:A:C8	2.38	0.57
26:BA:2480:C:H2'	26:BA:2481:G:H5'	1.86	0.57
26:BA:2585:U:HO2'	26:BA:2586:U:P	2.27	0.57
33:BI:18:ASN:ND2	33:BI:27:LEU:HD21	2.20	0.57
35:BK:122:VAL:HG12	35:BK:122:VAL:OXT	2.03	0.57
37:BM:43:ALA:O	37:BM:45:GLN:N	2.37	0.57
41:BQ:23:TYR:O	41:BQ:24:TYR:HB3	2.03	0.57
1:AA:104:G:C2'	1:AA:105:G:H5'	2.34	0.57
1:AA:104:G:N2	1:AA:105:G:C4	2.73	0.57
1:AA:439:U:C6	1:AA:440:C:C5	2.93	0.57
1:AA:482:A:H2'	1:AA:483:C:O4'	2.05	0.57
1:AA:1101:A:H1'	1:AA:1102:A:O4'	2.05	0.57
1:AA:1249:C:O2'	9:AI:74:GLN:NE2	2.37	0.57
1:AA:1298:U:H4'	1:AA:1299:A:O5'	2.03	0.57
2:AB:60:ALA:HA	2:AB:64:GLY:HA3	1.85	0.57
2:AB:125:PHE:N	2:AB:125:PHE:HD2	2.02	0.57
8:AH:110:MET:HE1	8:AH:115:ALA:HA	1.87	0.57
10:AJ:9:ARG:O	10:AJ:98:VAL:HA	2.04	0.57
10:AJ:36:VAL:HA	10:AJ:75:ASP:O	2.04	0.57
21:AU:19:LYS:CA	21:AU:19:LYS:HE2	2.33	0.57
22:AV:37:C:C2'	22:AV:38:A:O5'	2.53	0.57
25:AY:381:LYS:HD2	25:AY:381:LYS:N	2.20	0.57
25:AY:388:THR:HG23	25:AY:399:LEU:HD22	1.85	0.57
25:AY:604:PRO:HB2	25:AY:649:LEU:HD12	1.86	0.57
25:AY:632:LEU:HD12	25:AY:645:ALA:HA	1.85	0.57
26:BA:1054:A:N3	26:BA:1054:A:H2'	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2502:G:H5'	26:BA:2503:A:H5"	1.85	0.57
30:BF:25:MET:HE3	56:BB:54:G:H21	1.69	0.57
30:BF:37:MET:HE3	30:BF:56:LEU:HD23	1.86	0.57
36:BL:76:GLU:HG3	36:BL:111:ILE:HG12	1.86	0.57
49:BY:32:ALA:O	49:BY:33:ALA:C	2.46	0.57
56:BB:55:U:H2'	56:BB:55:U:O2	2.05	0.57
1:AA:83:C:OP1	1:AA:83:C:H4'	2.04	0.57
1:AA:164:G:C2'	1:AA:165:G:H5'	2.34	0.57
1:AA:707:U:H2'	1:AA:708:C:C6	2.40	0.57
1:AA:956:U:H2'	1:AA:957:U:O4'	2.04	0.57
1:AA:1287:A:N6	1:AA:1288:A:N6	2.52	0.57
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.87	0.57
1:AA:1530:G:C2	1:AA:1531:A:N7	2.73	0.57
2:AB:66:ILE:HG21	2:AB:68:PHE:CE2	2.40	0.57
2:AB:104:LYS:NZ	22:AV:121:A:P	2.76	0.57
4:AD:16:THR:HG22	4:AD:17:ASP:C	2.30	0.57
4:AD:94:GLU:OE2	4:AD:103:ARG:NH1	2.37	0.57
4:AD:193:ASP:C	4:AD:194:ILE:HG22	2.29	0.57
7:AG:21:LEU:HD13	7:AG:21:LEU:C	2.29	0.57
12:AL:113:ARG:NH2	12:AL:120:ARG:HG2	2.20	0.57
17:AQ:74:LEU:O	17:AQ:74:LEU:HD12	2.04	0.57
22:AV:140:U:C2	22:AV:141:C:C5	2.92	0.57
23:AW:63:TYR:C	23:AW:67:SER:HB3	2.29	0.57
25:AY:170:ARG:C	25:AY:171:GLU:HG2	2.30	0.57
25:AY:180:VAL:HG23	25:AY:181:LEU:N	2.17	0.57
25:AY:227:ILE:HD13	25:AY:242:LEU:HA	1.85	0.57
25:AY:463:VAL:O	25:AY:467:LYS:HB3	2.05	0.57
26:BA:846:U:H1'	26:BA:847:U:H5	1.69	0.57
26:BA:892:A:N1	26:BA:893:C:C4	2.73	0.57
26:BA:1234:U:C2'	26:BA:1235:G:O5'	2.53	0.57
26:BA:1587:G:C5	26:BA:1588:G:C8	2.92	0.57
26:BA:2403:C:O2'	26:BA:2404:U:H5'	2.05	0.57
26:BA:2851:A:N6	26:BA:2852:G:C6	2.73	0.57
29:BE:4:VAL:HA	29:BE:11:ALA:HA	1.86	0.57
30:BF:142:TYR:HA	30:BF:145:VAL:HG13	1.87	0.57
34:BJ:7:LYS:O	34:BJ:11:VAL:HG23	2.04	0.57
40:BP:24:THR:HG22	40:BP:25:VAL:N	2.18	0.57
1:AA:693:G:C6	1:AA:694:A:C5	2.93	0.57
1:AA:1322:C:O2	1:AA:1322:C:O5'	2.23	0.57
2:AB:40:ILE:HG21	2:AB:201:GLY:CA	2.35	0.57
2:AB:88:GLN:HE21	2:AB:220:VAL:HB	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:16:PRO:O	3:AC:17:TRP:HB2	2.04	0.57
3:AC:51:VAL:HG21	3:AC:67:ILE:HG23	1.87	0.57
3:AC:77:GLY:O	3:AC:79:LYS:N	2.38	0.57
5:AE:94:PHE:CD1	5:AE:94:PHE:C	2.82	0.57
5:AE:115:GLU:CD	5:AE:115:GLU:C	2.73	0.57
10:AJ:73:LEU:O	10:AJ:74:VAL:HB	2.04	0.57
17:AQ:54:ILE:HD13	17:AQ:55:GLY:N	2.18	0.57
19:AS:48:ILE:H	19:AS:48:ILE:HD12	1.69	0.57
22:AV:74:G:H2'	22:AV:75:C:C6	2.38	0.57
22:AV:182:U:O2	22:AV:182:U:H5"	2.05	0.57
22:AV:273:A:H1'	22:AV:274:G:N7	2.19	0.57
22:AV:298:A:C5	22:AV:299:C:C6	2.93	0.57
25:AY:13:ARG:HB2	25:AY:79:ILE:HG12	1.87	0.57
26:BA:281:C:H2'	26:BA:282:A:C8	2.40	0.57
26:BA:1508:A:O2'	26:BA:1509:A:O4'	2.22	0.57
26:BA:2153:C:H2'	26:BA:2154:A:O4'	2.05	0.57
27:BC:157:ALA:HB1	27:BC:196:ASN:O	2.04	0.57
27:BC:257:ARG:NH1	27:BC:263:ASP:OD2	2.38	0.57
31:BG:173:ALA:O	31:BG:174:LYS:CB	2.52	0.57
35:BK:113:MET:SD	35:BK:116:ILE:HD11	2.44	0.57
49:BY:18:LEU:CD2	49:BY:22:LEU:HD22	2.35	0.57
1:AA:413:G:C2	4:AD:32:LYS:HD3	2.39	0.57
1:AA:470:C:C2	1:AA:471:U:C5	2.93	0.57
1:AA:519:C:H2'	1:AA:520:A:C8	2.39	0.57
1:AA:1299:A:H2'	1:AA:1299:A:N3	2.19	0.57
1:AA:1479:C:C2	1:AA:1480:A:C8	2.93	0.57
2:AB:81:ASP:H	2:AB:84:LEU:HB3	1.69	0.57
3:AC:171:ARG:O	3:AC:172:VAL:HG22	2.04	0.57
8:AH:13:ILE:O	8:AH:14:ARG:C	2.48	0.57
14:AN:4:SER:O	14:AN:8:ARG:HG3	2.03	0.57
14:AN:20:PHE:CD2	14:AN:24:ALA:HB3	2.40	0.57
22:AV:16:U:HO2'	22:AV:18:C:C5'	2.15	0.57
22:AV:20:A:C4'	22:AV:21:C:OP1	2.47	0.57
22:AV:257:U:C4	22:AV:259:G:C5	2.92	0.57
24:AX:58:A:O2'	24:AX:59:A:C5'	2.53	0.57
25:AY:309:LEU:HD12	25:AY:310:ALA:N	2.20	0.57
25:AY:635:GLU:HB3	33:BI:21:PRO:O	2.02	0.57
26:BA:557:C:H2'	26:BA:558:U:C6	2.39	0.57
26:BA:1791:A:H5"	27:BC:204:LEU:HD23	1.87	0.57
26:BA:2786:U:C2'	26:BA:2787:C:H5'	2.34	0.57
26:BA:2880:C:H1'	38:BN:91:ALA:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:111:GLU:OE1	29:BE:111:GLU:CA	2.50	0.57
31:BG:117:PRO:O	31:BG:118:ALA:C	2.47	0.57
31:BG:124:CYS:HA	31:BG:129:GLU:O	2.04	0.57
31:BG:148:ARG:HH11	31:BG:148:ARG:HG3	1.70	0.57
45:BU:42:LYS:HZ3	45:BU:42:LYS:HB2	1.69	0.57
50:BZ:6:ILE:HD11	50:BZ:47:ILE:HD11	1.86	0.57
1:AA:244:U:H4'	1:AA:245:U:H5'	1.86	0.57
1:AA:353:A:H2'	1:AA:354:G:OP2	2.05	0.57
1:AA:500:G:C6	1:AA:546:A:C2	2.93	0.57
1:AA:769:G:O2'	1:AA:770:C:H5'	2.05	0.57
1:AA:921:U:C2	1:AA:1396:A:H2	2.21	0.57
1:AA:1312:G:N2	1:AA:1326:U:C2	2.73	0.57
1:AA:1487:G:N2	1:AA:1488:G:H1'	2.19	0.57
2:AB:53:LEU:HD21	2:AB:212:TYR:CE2	2.40	0.57
2:AB:158:ASP:O	2:AB:181:PRO:HD2	2.04	0.57
5:AE:154:ALA:O	5:AE:155:LYS:C	2.47	0.57
5:AE:154:ALA:HB1	8:AH:65:PHE:CZ	2.40	0.57
13:AM:89:ARG:HD3	13:AM:95:PRO:O	2.05	0.57
14:AN:30:ILE:HG22	14:AN:31:SER:N	2.20	0.57
15:AO:37:HIS:CD2	15:AO:37:HIS:C	2.83	0.57
25:AY:99:ARG:NE	25:AY:128:TYR:HB2	2.20	0.57
25:AY:112:GLN:O	25:AY:115:GLU:HB3	2.04	0.57
25:AY:273:LEU:O	25:AY:276:VAL:HB	2.04	0.57
25:AY:495:GLY:O	25:AY:509:HIS:HA	2.05	0.57
26:BA:150:U:H2'	26:BA:151:C:C6	2.40	0.57
26:BA:871:U:O2'	37:BM:68:PHE:CG	2.58	0.57
26:BA:901:C:O2	26:BA:901:C:H2'	2.05	0.57
26:BA:1097:U:O2'	33:BI:8:VAL:HA	2.04	0.57
26:BA:1243:C:C2'	26:BA:1244:A:O5'	2.53	0.57
26:BA:2164:C:H3'	26:BA:2165:C:C6	2.40	0.57
30:BF:71:LYS:HD3	30:BF:72:SER:N	2.19	0.57
31:BG:15:ASP:HB2	31:BG:26:LYS:HG3	1.86	0.57
32:BH:14:SER:HB3	32:BH:17:ASP:OD2	2.05	0.57
32:BH:84:ALA:HB2	32:BH:90:LEU:HD12	1.86	0.57
35:BK:113:MET:HA	35:BK:116:ILE:HG13	1.86	0.57
1:AA:376:G:C4	1:AA:389:A:C2	2.93	0.56
1:AA:1216:A:C2	1:AA:1217:C:C4	2.93	0.56
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.39	0.56
9:AI:43:ALA:N	9:AI:45:MET:SD	2.78	0.56
9:AI:98:ARG:CD	9:AI:103:VAL:HG21	2.35	0.56
10:AJ:33:GLY:HA3	10:AJ:83:THR:HB	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:35:ALA:HA	14:AN:41:ARG:HB3	1.86	0.56
22:AV:18:C:OP1	22:AV:18:C:C5	2.58	0.56
22:AV:270:C:O2'	22:AV:271:G:C5'	2.43	0.56
22:AV:272:C:C4'	22:AV:291:A:N1	2.68	0.56
22:AV:341:5MU:HN3	22:AV:345:A:H62	1.46	0.56
26:BA:528:A:H3'	26:BA:528:A:H8	1.70	0.56
26:BA:894:U:C2'	26:BA:895:U:C4'	2.66	0.56
26:BA:1073:A:H3'	26:BA:1074:G:H5'	1.86	0.56
26:BA:1538:G:H8	26:BA:1538:G:OP2	1.88	0.56
26:BA:2590:A:O2'	26:BA:2591:C:H5'	2.04	0.56
28:BD:100:LEU:HD12	28:BD:100:LEU:O	2.04	0.56
32:BH:72:ILE:CG2	32:BH:140:ALA:HB1	2.35	0.56
38:BN:48:VAL:HG12	38:BN:49:GLU:N	2.18	0.56
47:BW:37:ARG:HG3	47:BW:37:ARG:NH1	2.18	0.56
50:BZ:23:LEU:HD11	50:BZ:53:MET:HE2	1.87	0.56
1:AA:55:A:C4	1:AA:56:U:C6	2.94	0.56
1:AA:65:A:C2	1:AA:381:C:C6	2.93	0.56
1:AA:376:G:H5"	16:AP:5:ARG:HB3	1.86	0.56
1:AA:412:A:H4'	1:AA:413:G:OP1	2.04	0.56
1:AA:437:U:C4	1:AA:438:U:C5	2.93	0.56
1:AA:696:A:H8	1:AA:696:A:O5'	1.88	0.56
1:AA:1162:C:C2	1:AA:1175:G:C2	2.92	0.56
1:AA:1502:A:N7	1:AA:1504:G:C4	2.73	0.56
2:AB:79:VAL:O	2:AB:83:ALA:HB3	2.05	0.56
2:AB:185:ILE:HA	2:AB:199:ILE:HB	1.86	0.56
7:AG:14:ASP:CB	7:AG:19:SER:HB3	2.35	0.56
9:AI:11:ARG:CG	9:AI:11:ARG:HH11	2.19	0.56
13:AM:2:ARG:HG3	13:AM:3:ILE:N	2.19	0.56
13:AM:10:ASP:OD1	13:AM:11:HIS:N	2.38	0.56
16:AP:51:ARG:HB3	16:AP:51:ARG:NH1	2.19	0.56
19:AS:73:PHE:CD1	19:AS:73:PHE:N	2.72	0.56
20:AT:46:ALA:O	20:AT:47:GLN:C	2.48	0.56
20:AT:53:MET:CE	20:AT:54:GLN:HA	2.35	0.56
22:AV:16:U:C2'	22:AV:18:C:H5"	2.35	0.56
22:AV:29:G:H8	22:AV:29:G:O5'	1.89	0.56
22:AV:38:A:H2	22:AV:316:A:C2	2.23	0.56
22:AV:44:C:O2'	22:AV:45:A:C8	2.38	0.56
22:AV:68:U:N3	22:AV:303:G:C8	2.71	0.56
22:AV:139:C:N1	22:AV:182:U:H6	2.02	0.56
22:AV:257:U:N3	22:AV:258:G:C2	2.72	0.56
23:AW:63:TYR:HD2	23:AW:64:GLU:H	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:438:PHE:C	25:AY:438:PHE:HD2	2.13	0.56
25:AY:636:PRO:HG2	33:BI:23:VAL:C	2.30	0.56
25:AY:652:MET:HG3	25:AY:652:MET:O	2.04	0.56
26:BA:273:G:N2	26:BA:365:U:O2	2.38	0.56
26:BA:876:C:H2'	26:BA:877:A:C6	2.39	0.56
26:BA:912:C:H2'	26:BA:913:U:H5'	1.86	0.56
26:BA:1071:G:C1'	26:BA:1089:A:N7	2.68	0.56
26:BA:1484:U:H2'	26:BA:1484:U:O2	2.04	0.56
26:BA:1665:A:N3	35:BK:1:MET:HE2	2.20	0.56
26:BA:1734:G:C4	26:BA:1735:A:C8	2.93	0.56
26:BA:1919:A:H2'	26:BA:1919:A:N3	2.18	0.56
26:BA:2144:G:C2'	26:BA:2147:A:H61	2.18	0.56
26:BA:2194:U:H2'	26:BA:2195:U:C6	2.40	0.56
26:BA:2577:A:H5"	26:BA:2578:G:H5'	1.86	0.56
27:BC:259:ASN:O	27:BC:260:LYS:CB	2.52	0.56
28:BD:187:LEU:C	28:BD:188:LEU:HD23	2.30	0.56
32:BH:61:VAL:O	32:BH:64:ALA:CB	2.50	0.56
40:BP:30:TRP:CE3	40:BP:39:LEU:CD1	2.88	0.56
46:BV:70:ILE:HG22	46:BV:72:VAL:CG1	2.34	0.56
49:BY:56:LEU:O	49:BY:57:LEU:HB2	2.05	0.56
1:AA:1030:U:H5'	1:AA:1031:C:O2	2.06	0.56
1:AA:1081:A:C2	1:AA:1082:A:C4	2.93	0.56
1:AA:1100:C:C4	2:AB:94:ARG:CZ	2.80	0.56
1:AA:1152:A:H5'	10:AJ:15:HIS:CD2	2.40	0.56
1:AA:1499:A:C2'	1:AA:1500:A:H5'	2.35	0.56
1:AA:1533:C:C4'	1:AA:1534:A:OP1	2.53	0.56
2:AB:39:ILE:N	2:AB:39:ILE:HD13	2.20	0.56
2:AB:86:CYS:HB2	2:AB:88:GLN:OE1	2.05	0.56
2:AB:113:LEU:O	2:AB:117:GLU:HG2	2.05	0.56
2:AB:147:LEU:CD2	2:AB:150:ILE:HG21	2.35	0.56
4:AD:7:LYS:NZ	4:AD:21:LYS:HG3	2.20	0.56
5:AE:15:ILE:HD12	5:AE:15:ILE:N	2.20	0.56
5:AE:45:VAL:HG13	5:AE:117:ALA:HB2	1.87	0.56
11:AK:110:THR:HG23	21:AU:4:LYS:HB3	1.87	0.56
13:AM:113:LYS:HB2	13:AM:114:PRO:HD3	1.87	0.56
16:AP:6:LEU:CD2	16:AP:70:ARG:HG3	2.35	0.56
20:AT:35:TYR:HA	20:AT:38:ILE:HD12	1.87	0.56
20:AT:50:PHE:O	20:AT:53:MET:HG3	2.05	0.56
21:AU:13:VAL:O	21:AU:15:LEU:CG	2.53	0.56
22:AV:44:C:H1'	22:AV:45:A:C8	2.39	0.56
22:AV:47:G:O6	22:AV:305:A:N6	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:52:G:N2	22:AV:72:A:N6	2.22	0.56
22:AV:213:G:N2	22:AV:245:C:N4	2.51	0.56
22:AV:257:U:C5	22:AV:259:G:O6	2.59	0.56
22:AV:327:A:H2'	22:AV:328:U:H6	1.71	0.56
22:AV:334:A:C2	23:AW:112:TYR:C	2.84	0.56
22:AV:345:A:C5	22:AV:348:C:C5	2.92	0.56
23:AW:9:ARG:NH2	25:AY:500:GLN:O	2.38	0.56
24:AX:50:G:C2	24:AX:51:U:C6	2.93	0.56
25:AY:379:GLY:O	25:AY:380:LEU:HB2	2.04	0.56
25:AY:534:ILE:HD11	25:AY:570:GLY:HA3	1.88	0.56
26:BA:32:C:O2'	26:BA:33:C:H5'	2.05	0.56
26:BA:185:G:C4	26:BA:186:G:C8	2.93	0.56
26:BA:359:G:C5	26:BA:360:U:C5	2.93	0.56
26:BA:611:C:H2'	26:BA:612:G:H5'	1.87	0.56
26:BA:851:C:H2'	26:BA:852:U:H6	1.71	0.56
26:BA:866:A:C6	26:BA:867:C:C4	2.92	0.56
26:BA:875:G:C2'	26:BA:876:C:H5'	2.33	0.56
26:BA:883:G:N2	26:BA:884:U:C2	2.73	0.56
26:BA:887:U:OP1	26:BA:887:U:C4'	2.53	0.56
26:BA:1060:U:H5'	26:BA:1062:G:H5'	1.85	0.56
26:BA:1181:U:H2'	26:BA:1182:G:C8	2.40	0.56
26:BA:1313:U:H5"	26:BA:1314:C:OP2	2.04	0.56
26:BA:1414:C:C4	26:BA:1415:U:H5	2.22	0.56
26:BA:1470:A:N6	26:BA:1521:G:H1'	2.20	0.56
26:BA:1494:A:C6	26:BA:1495:A:C6	2.93	0.56
26:BA:1873:G:O2'	26:BA:1874:C:H5'	2.04	0.56
26:BA:2205:A:H2'	26:BA:2206:C:C6	2.41	0.56
26:BA:2360:G:H1'	36:BL:60:ARG:HD3	1.88	0.56
26:BA:2376:A:N3	39:BO:111:ARG:NH1	2.53	0.56
26:BA:2801:G:H2'	26:BA:2802:G:C8	2.40	0.56
26:BA:2897:U:H2'	26:BA:2898:U:C6	2.41	0.56
30:BF:48:LEU:HD12	30:BF:51:ASN:HD21	1.68	0.56
30:BF:107:VAL:HG12	30:BF:108:PRO:CD	2.36	0.56
32:BH:31:VAL:CB	32:BH:32:PRO:CD	2.83	0.56
33:BI:18:ASN:CB	33:BI:37:PHE:HB3	2.35	0.56
33:BI:21:PRO:HB2	33:BI:22:PRO:CD	2.30	0.56
36:BL:68:SER:O	36:BL:69:ARG:CB	2.52	0.56
36:BL:85:VAL:O	36:BL:86:GLU:O	2.22	0.56
36:BL:107:PHE:CD2	36:BL:107:PHE:N	2.72	0.56
40:BP:72:VAL:CG2	40:BP:72:VAL:O	2.53	0.56
49:BY:22:LEU:O	49:BY:23:ARG:C	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B1:28:THR:O	52:B1:29:LYS:HG2	2.05	0.56
1:AA:108:G:C6	20:AT:9:ARG:HG2	2.39	0.56
1:AA:131:A:C6	1:AA:132:C:N4	2.73	0.56
1:AA:624:C:C2'	1:AA:625:U:O5'	2.52	0.56
1:AA:775:G:C2'	1:AA:776:G:H5'	2.35	0.56
1:AA:1078:U:H6	1:AA:1078:U:O5'	1.88	0.56
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.41	0.56
2:AB:70:GLY:CA	2:AB:163:ILE:HG22	2.35	0.56
3:AC:39:ARG:O	3:AC:40:GLN:C	2.49	0.56
3:AC:52:SER:HB2	3:AC:113:LYS:HB3	1.88	0.56
4:AD:48:SER:O	4:AD:52:VAL:HG13	2.05	0.56
13:AM:94:LEU:CB	13:AM:95:PRO:CD	2.83	0.56
14:AN:15:LEU:N	14:AN:15:LEU:HD23	2.21	0.56
19:AS:19:GLU:C	19:AS:21:ALA:H	2.14	0.56
22:AV:46:U:HO2'	22:AV:313:C:P	2.29	0.56
22:AV:59:U:C2'	22:AV:60:U:C5'	2.80	0.56
22:AV:75:C:C2	22:AV:76:C:C5	2.93	0.56
22:AV:158:U:H2'	22:AV:159:C:C5	2.38	0.56
22:AV:163:G:C4	22:AV:164:G:H8	2.17	0.56
22:AV:192:A:H2'	22:AV:193:A:H8	1.69	0.56
22:AV:272:C:C2	22:AV:273:A:C8	2.94	0.56
22:AV:324:G:H2'	22:AV:325:G:C8	2.40	0.56
23:AW:31:VAL:HA	23:AW:34:LEU:HD12	1.88	0.56
24:AX:14:A:C2	24:AX:15:G:H1'	2.39	0.56
24:AX:72:C:H3'	24:AX:73:A:C8	2.40	0.56
25:AY:77:HIS:NE2	25:AY:277:VAL:HG21	2.21	0.56
25:AY:415:PRO:O	25:AY:420:ASP:HB2	2.05	0.56
26:BA:889:C:H2'	26:BA:891:G:C5	2.36	0.56
26:BA:1178:C:O3'	26:BA:1179:G:C8	2.58	0.56
26:BA:1860:G:O2'	26:BA:1861:G:H5'	2.06	0.56
26:BA:1869:G:O2'	26:BA:1872:A:N6	2.38	0.56
26:BA:2325:G:H5"	26:BA:2326:C:OP2	2.06	0.56
26:BA:2722:G:H4'	38:BN:4:ARG:HB2	1.87	0.56
30:BF:100:GLU:O	30:BF:101:ARG:C	2.47	0.56
30:BF:151:LEU:HD12	30:BF:152:ASP:H	1.71	0.56
32:BH:34:GLY:O	32:BH:35:LYS:CB	2.53	0.56
41:BQ:68:ALA:HB1	41:BQ:73:ILE:O	2.05	0.56
44:BT:19:LYS:O	44:BT:20:ALA:C	2.49	0.56
46:BV:61:LEU:HD13	46:BV:61:LEU:N	2.21	0.56
1:AA:22:G:C6	1:AA:23:C:N3	2.73	0.56
1:AA:1103:C:H5"	2:AB:96:LEU:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1134:G:C2	1:AA:1135:U:H1'	2.40	0.56
1:AA:1240:U:OP1	7:AG:115:MET:CB	2.54	0.56
1:AA:1342:C:O2'	1:AA:1343:G:C5'	2.30	0.56
2:AB:23:ASN:ND2	2:AB:191:ASP:HA	2.21	0.56
2:AB:59:ILE:C	2:AB:59:ILE:HD12	2.30	0.56
6:AF:1:MET:HE2	6:AF:67:PRO:HD3	1.88	0.56
8:AH:74:ILE:HD13	8:AH:128:VAL:HG13	1.87	0.56
11:AK:50:GLY:O	11:AK:51:PHE:CD2	2.58	0.56
11:AK:93:GLU:OE2	21:AU:20:ARG:NH2	2.39	0.56
15:AO:86:LEU:N	15:AO:86:LEU:HD23	2.20	0.56
22:AV:12:U:C5	22:AV:348:C:C1'	2.81	0.56
22:AV:46:U:C4'	22:AV:312:A:C3'	2.76	0.56
22:AV:61:G:H4'	22:AV:62:G:H5"	1.79	0.56
22:AV:63:C:N3	22:AV:73:A:N1	2.50	0.56
22:AV:157:C:HO2'	22:AV:158:U:H5'	1.68	0.56
22:AV:163:G:C2	22:AV:164:G:C5	2.94	0.56
22:AV:325:G:C8	22:AV:325:G:OP2	2.58	0.56
23:AW:62:PRO:HB3	23:AW:70:ASN:ND2	2.19	0.56
24:AX:53:G:C2'	24:AX:54:G:H8	2.16	0.56
25:AY:406:GLU:HB3	25:AY:407:PRO:CD	2.35	0.56
25:AY:619:ASP:HB3	31:BG:175:LYS:CE	2.35	0.56
26:BA:1171:G:C5	26:BA:1172:C:N3	2.73	0.56
26:BA:1458:U:H4'	26:BA:1459:G:O5'	2.06	0.56
26:BA:1536:C:O4'	26:BA:1537:G:C2	2.58	0.56
30:BF:13:LYS:HG3	30:BF:14:LYS:N	2.20	0.56
31:BG:8:VAL:HG12	31:BG:49:LEU:O	2.06	0.56
31:BG:80:GLU:O	31:BG:81:GLY:O	2.23	0.56
32:BH:4:ILE:HD11	32:BH:44:ILE:HA	1.87	0.56
33:BI:91:LYS:HB3	33:BI:94:LYS:HG3	1.87	0.56
36:BL:30:THR:O	36:BL:33:ARG:HG2	2.05	0.56
36:BL:120:VAL:HG22	36:BL:121:THR:N	2.21	0.56
46:BV:39:ALA:O	46:BV:40:ILE:HD13	2.06	0.56
1:AA:18:C:C1'	1:AA:1078:U:H3	2.18	0.56
1:AA:1004:A:C2	1:AA:1026:G:C2	2.94	0.56
1:AA:1114:C:C2	1:AA:1115:U:C6	2.93	0.56
1:AA:1462:C:H2'	1:AA:1463:U:C6	2.41	0.56
3:AC:79:LYS:CG	22:AV:184:A:OP2	2.51	0.56
5:AE:136:VAL:O	5:AE:137:ARG:HB3	2.06	0.56
8:AH:59:GLU:C	8:AH:59:GLU:OE2	2.49	0.56
9:AI:11:ARG:HH11	9:AI:11:ARG:HG2	1.70	0.56
9:AI:90:ASP:OD2	9:AI:93:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:32:THR:HG23	10:AJ:33:GLY:N	2.21	0.56
11:AK:15:VAL:O	11:AK:16:SER:CB	2.54	0.56
22:AV:66:C:H1'	22:AV:70:A:N1	2.20	0.56
22:AV:176:G:H2'	22:AV:177:A:C8	2.38	0.56
22:AV:316:A:N6	22:AV:317:G:O6	2.38	0.56
23:AW:88:ARG:HD2	23:AW:88:ARG:C	2.30	0.56
25:AY:64:THR:C	25:AY:66:THR:H	2.14	0.56
25:AY:218:GLU:O	25:AY:221:ALA:HB3	2.06	0.56
25:AY:609:GLU:HA	25:AY:643:ILE:O	2.05	0.56
25:AY:655:TYR:HD2	25:AY:669:PHE:CE2	2.24	0.56
26:BA:183:C:H2'	26:BA:184:C:H5'	1.87	0.56
26:BA:207:A:H2'	26:BA:208:C:O4'	2.06	0.56
26:BA:277:G:C1'	26:BA:361:G:O6	2.54	0.56
26:BA:851:C:H2'	26:BA:852:U:C6	2.40	0.56
26:BA:870:U:H2'	26:BA:871:U:H6	1.70	0.56
26:BA:873:C:H2'	26:BA:874:G:C8	2.36	0.56
26:BA:883:G:C2	26:BA:884:U:C2	2.94	0.56
26:BA:1495:A:C2'	26:BA:1496:A:O5'	2.53	0.56
26:BA:1894:C:H2'	26:BA:1895:C:C6	2.40	0.56
26:BA:2491:U:H5"	26:BA:2570:G:H5"	1.87	0.56
26:BA:2886:A:C2	26:BA:2887:A:H1'	2.40	0.56
41:BQ:86:SER:CB	42:BR:51:VAL:HA	2.35	0.56
42:BR:39:LEU:CA	42:BR:49:ILE:CG2	2.81	0.56
45:BU:53:GLN:N	45:BU:54:PRO:HD3	2.19	0.56
46:BV:4:ILE:HD11	46:BV:56:PHE:HE1	1.71	0.56
54:B3:16:THR:HG21	54:B3:48:MET:HE1	1.86	0.56
1:AA:771:G:C2'	1:AA:772:U:H5'	2.36	0.56
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.05	0.56
1:AA:1493:A:OP2	1:AA:1493:A:C8	2.55	0.56
2:AB:55:GLU:HA	2:AB:58:LYS:HB3	1.87	0.56
3:AC:164:THR:O	3:AC:165:GLU:HB2	2.06	0.56
4:AD:8:LEU:CD2	4:AD:21:LYS:HB2	2.36	0.56
4:AD:120:LYS:C	4:AD:122:ILE:HD13	2.31	0.56
4:AD:147:LYS:H	4:AD:147:LYS:HD3	1.69	0.56
5:AE:119:VAL:HG21	5:AE:122:VAL:HG11	1.87	0.56
8:AH:93:LYS:HD3	8:AH:96:ALA:O	2.06	0.56
9:AI:5:TYR:HB3	9:AI:88:GLU:CG	2.35	0.56
9:AI:46:VAL:O	9:AI:49:GLN:HB2	2.05	0.56
9:AI:95:SER:CA	9:AI:98:ARG:HB2	2.35	0.56
11:AK:80:ASN:HB3	11:AK:105:ARG:CB	2.31	0.56
14:AN:6:LYS:HD3	14:AN:6:LYS:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:100:SER:O	14:AN:101:TRP:HB3	2.05	0.56
22:AV:36:C:C2'	22:AV:37:C:C6	2.70	0.56
22:AV:75:C:H2'	22:AV:76:C:H6	1.71	0.56
22:AV:120:U:O2	22:AV:120:U:C5'	2.53	0.56
22:AV:256:G:N9	22:AV:258:G:O6	2.39	0.56
22:AV:328:U:H2'	22:AV:329:U:H6	1.71	0.56
22:AV:329:U:H2'	22:AV:330:U:H6	1.70	0.56
25:AY:20:HIS:O	25:AY:21:ILE:O	2.24	0.56
25:AY:141:LYS:O	25:AY:144:ALA:HB2	2.05	0.56
25:AY:204:GLU:CD	25:AY:204:GLU:H	2.14	0.56
25:AY:216:LEU:HD23	25:AY:216:LEU:C	2.31	0.56
25:AY:526:VAL:HB	25:AY:566:THR:HG23	1.88	0.56
26:BA:358:U:H2'	26:BA:359:G:C8	2.41	0.56
26:BA:887:U:C4'	26:BA:888:C:H5'	2.35	0.56
26:BA:1475:G:O4'	26:BA:1475:G:N3	2.34	0.56
26:BA:1731:G:N1	26:BA:1733:G:C4	2.73	0.56
26:BA:2091:C:O2'	48:BX:55:MET:CE	2.54	0.56
27:BC:161:VAL:HG12	27:BC:162:GLN:N	2.20	0.56
28:BD:86:GLU:CA	28:BD:86:GLU:OE1	2.54	0.56
28:BD:101:PHE:CE2	28:BD:203:VAL:HG12	2.41	0.56
30:BF:11:VAL:HG13	30:BF:171:ALA:CB	2.35	0.56
36:BL:79:LEU:O	36:BL:82:LEU:HD22	2.05	0.56
52:B1:50:GLU:O	52:B1:51:ALA:HB2	2.05	0.56
1:AA:138:G:H2'	1:AA:139:A:H5'	1.87	0.56
1:AA:410:G:C4'	1:AA:411:A:OP1	2.53	0.56
1:AA:504:C:O4'	1:AA:510:A:C2	2.59	0.56
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.36	0.56
1:AA:1298:U:OP2	7:AG:113:LYS:HE2	2.06	0.56
2:AB:75:ALA:O	2:AB:76:SER:C	2.48	0.56
3:AC:135:ARG:O	3:AC:136:ALA:C	2.48	0.56
4:AD:10:LEU:CD2	4:AD:62:ARG:HD3	2.36	0.56
4:AD:24:VAL:C	4:AD:25:ARG:O	2.49	0.56
4:AD:97:LEU:HD23	4:AD:117:VAL:HG11	1.87	0.56
5:AE:114:LEU:O	5:AE:119:VAL:HG22	2.05	0.56
9:AI:98:ARG:HA	9:AI:103:VAL:CG2	2.36	0.56
13:AM:49:GLU:O	13:AM:50:GLY:C	2.47	0.56
22:AV:8:A:C8	22:AV:334:A:H1'	2.41	0.56
22:AV:25:A:H2'	22:AV:26:U:H6	1.71	0.56
22:AV:77:G:H2'	22:AV:78:C:H6	1.71	0.56
22:AV:161:U:O2	22:AV:162:A:N7	2.38	0.56
22:AV:220:G:C4	22:AV:221:U:C5	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:306:U:O2	22:AV:307:G:C8	2.59	0.56
24:AX:18:U:C4’	24:AX:19:G:OP1	2.54	0.56
24:AX:28:U:C2’	24:AX:29:C:H5’	2.33	0.56
24:AX:41:C:H2’	24:AX:42:C:H6	1.71	0.56
26:BA:229:C:H2’	26:BA:230:G:O5’	2.04	0.56
26:BA:415:A:C2	26:BA:416:U:O2	2.58	0.56
26:BA:866:A:O2’	26:BA:867:C:H5”	2.05	0.56
26:BA:1130:U:C2	26:BA:2025:C:H5’	2.41	0.56
26:BA:1419:A:O2’	26:BA:1420:A:H5”	2.06	0.56
26:BA:1925:C:H4’	26:BA:1926:U:C6	2.41	0.56
26:BA:2146:C:H5’	26:BA:2147:A:C5	2.41	0.56
26:BA:2194:U:C2	26:BA:2195:U:C5	2.93	0.56
31:BG:86:LEU:HD11	31:BG:132:LEU:HD12	1.88	0.56
35:BK:121:GLU:O	35:BK:122:VAL:O	2.23	0.56
39:BO:27:VAL:HG12	39:BO:93:ASP:HB3	1.87	0.56
40:BP:52:ARG:HG2	40:BP:52:ARG:HH11	1.69	0.56
41:BQ:13:HIS:O	41:BQ:14:LYS:C	2.48	0.56
46:BV:2:PHE:HD1	46:BV:50:MET:HE3	1.71	0.56
49:BY:36:GLN:O	49:BY:37:LEU:HB3	2.05	0.56
51:B0:53:VAL:O	51:B0:54:ILE:C	2.45	0.56
1:AA:270:A:C5	1:AA:271:C:C4	2.94	0.56
1:AA:299:G:N1	1:AA:300:A:C2	2.74	0.56
1:AA:408:A:C2’	1:AA:409:U:H5’	2.36	0.56
1:AA:462:G:H3’	1:AA:463:U:C6	2.35	0.56
1:AA:1240:U:C2	7:AG:31:VAL:HG12	2.40	0.56
1:AA:1387:G:C2’	1:AA:1388:C:C5’	2.68	0.56
2:AB:137:THR:HA	2:AB:140:LEU:HB2	1.88	0.56
5:AE:108:GLY:HA2	5:AE:111:ARG:HB3	1.87	0.56
5:AE:132:PRO:HA	5:AE:135:VAL:CG1	2.36	0.56
13:AM:40:GLU:CG	13:AM:41:ASP:N	2.68	0.56
17:AQ:11:VAL:O	17:AQ:12:VAL:HB	2.04	0.56
20:AT:7:LYS:O	20:AT:10:ALA:HB3	2.06	0.56
21:AU:9:GLU:OE1	21:AU:10:PRO:HG3	2.06	0.56
22:AV:222:U:P	22:AV:236:U:H3	2.27	0.56
22:AV:263:G:C8	22:AV:308:U:H5	2.20	0.56
23:AW:45:PHE:HB3	23:AW:100:LEU:O	2.06	0.56
23:AW:63:TYR:CD2	23:AW:64:GLU:N	2.72	0.56
25:AY:105:ILE:HD12	25:AY:105:ILE:N	2.21	0.56
25:AY:395:PRO:O	25:AY:397:VAL:HG13	2.05	0.56
25:AY:622:GLY:O	25:AY:625:ASN:N	2.38	0.56
26:BA:435:C:H2’	26:BA:436:C:H5’	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:911:A:OP2	26:BA:911:A:C8	2.58	0.56
26:BA:1061:U:O2	33:BI:9:LYS:HB2	2.06	0.56
26:BA:1084:A:H5"	26:BA:1085:A:OP2	2.06	0.56
26:BA:1266:G:O6	43:BS:13:SER:HB3	2.06	0.56
26:BA:1414:C:C5	26:BA:1415:U:C5	2.93	0.56
26:BA:1503:A:C2	26:BA:1504:A:C4	2.94	0.56
26:BA:2078:C:O2'	26:BA:2079:U:H5'	2.06	0.56
26:BA:2276:G:C2'	26:BA:2277:G:H5'	2.36	0.56
28:BD:57:ALA:O	28:BD:58:ASN:C	2.48	0.56
28:BD:103:ASP:OD1	28:BD:104:VAL:N	2.38	0.56
30:BF:48:LEU:HA	30:BF:51:ASN:CG	2.31	0.56
30:BF:48:LEU:O	30:BF:51:ASN:N	2.39	0.56
31:BG:148:ARG:CG	31:BG:148:ARG:NH1	2.67	0.56
31:BG:163:TYR:HB2	31:BG:166:GLU:CB	2.36	0.56
1:AA:198:G:C5	1:AA:199:A:N7	2.74	0.56
1:AA:499:A:N6	1:AA:547:A:H5"	2.21	0.56
1:AA:541:G:H2'	1:AA:542:G:O4'	2.06	0.56
1:AA:1226:C:C5	13:AM:102:LYS:CB	2.89	0.56
2:AB:147:LEU:C	2:AB:150:ILE:CG2	2.79	0.56
8:AH:4:ASP:HB2	8:AH:80:PRO:CG	2.36	0.56
9:AI:66:VAL:O	9:AI:66:VAL:HG13	2.06	0.56
13:AM:113:LYS:HB3	13:AM:114:PRO:HD3	1.88	0.56
14:AN:30:ILE:HG23	14:AN:45:VAL:HB	1.88	0.56
21:AU:38:GLU:N	21:AU:40:PRO:HD3	2.19	0.56
22:AV:21:C:N3	22:AV:332:G:N2	2.49	0.56
22:AV:142:U:C2	22:AV:143:C:C5	2.94	0.56
22:AV:163:G:HO2'	22:AV:164:G:H5'	1.60	0.56
22:AV:239:A:C3'	22:AV:240:U:H4'	2.36	0.56
23:AW:83:LYS:CG	23:AW:84:HIS:N	2.69	0.56
24:AX:15:G:O6	24:AX:49:C:O2	2.22	0.56
25:AY:496:LYS:HE2	25:AY:498:ILE:HD13	1.87	0.56
25:AY:539:ILE:O	25:AY:542:VAL:HG12	2.06	0.56
26:BA:543:G:H1'	26:BA:551:G:N2	2.21	0.56
26:BA:1178:C:C2'	26:BA:1179:G:N7	2.69	0.56
26:BA:1416:G:O2'	26:BA:1417:C:C6	2.59	0.56
26:BA:1742:U:C2'	26:BA:1743:G:O5'	2.54	0.56
26:BA:2144:G:O2'	26:BA:2147:A:N1	2.38	0.56
26:BA:2223:G:C2'	26:BA:2224:G:H5'	2.35	0.56
26:BA:2492:U:H2'	26:BA:2493:U:H5'	1.88	0.56
26:BA:2571:U:O2'	28:BD:151:THR:HG22	2.06	0.56
26:BA:2732:G:C3'	26:BA:2733:A:H5'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:26:LYS:HB3	31:BG:31:GLU:HG3	1.88	0.56
31:BG:68:ARG:HD3	31:BG:68:ARG:O	2.06	0.56
34:BJ:29:ALA:HA	34:BJ:32:LEU:HB2	1.89	0.56
34:BJ:64:VAL:CG1	34:BJ:68:LYS:HB2	2.36	0.56
1:AA:198:G:O2'	1:AA:199:A:H5'	2.06	0.55
1:AA:921:U:H6	1:AA:921:U:H3'	1.71	0.55
1:AA:1299:A:C2	1:AA:1301:U:N3	2.74	0.55
1:AA:1375:A:O2'	1:AA:1376:U:H5'	2.05	0.55
1:AA:1387:G:N1	1:AA:1388:C:C4	2.74	0.55
1:AA:1451:U:H5"	1:AA:1452:C:C5	2.41	0.55
2:AB:150:ILE:HG13	2:AB:151:LYS:N	2.20	0.55
5:AE:96:GLN:HB2	5:AE:123:LEU:HD11	1.88	0.55
5:AE:113:VAL:HG22	5:AE:114:LEU:N	2.22	0.55
5:AE:132:PRO:C	5:AE:134:ASN:N	2.62	0.55
13:AM:106:ARG:NH1	13:AM:106:ARG:HG2	2.21	0.55
14:AN:61:ARG:O	14:AN:62:ASN:CB	2.54	0.55
15:AO:88:ARG:CZ	26:BA:714:U:C5	2.88	0.55
16:AP:50:THR:O	16:AP:50:THR:HG22	2.06	0.55
19:AS:40:PHE:O	19:AS:43:MET:HG3	2.06	0.55
19:AS:50:VAL:CG2	19:AS:70:LEU:HD13	2.36	0.55
22:AV:231:A:N1	22:AV:232:A:N6	2.53	0.55
22:AV:266:C:N4	22:AV:267:G:N7	2.53	0.55
25:AY:601:ILE:HG21	25:AY:687:LEU:HD12	1.88	0.55
26:BA:84:A:N3	26:BA:85:G:H1'	2.22	0.55
26:BA:90:U:H2'	26:BA:91:A:C8	2.41	0.55
26:BA:528:A:C2	26:BA:2042:A:H2'	2.40	0.55
26:BA:703:U:O4	26:BA:704:G:C6	2.59	0.55
26:BA:1830:C:O5'	26:BA:1830:C:H6	1.89	0.55
26:BA:1838:C:C5	26:BA:1899:A:C5	2.94	0.55
26:BA:1871:A:C8	26:BA:1872:A:N1	2.74	0.55
26:BA:2185:U:H2'	26:BA:2185:U:O2	2.06	0.55
26:BA:2314:A:H2'	26:BA:2315:G:C8	2.40	0.55
26:BA:2519:U:C5	26:BA:2541:A:C6	2.94	0.55
26:BA:2544:G:O2'	26:BA:2545:G:H5'	2.06	0.55
26:BA:2704:C:H3'	26:BA:2705:A:H8	1.71	0.55
28:BD:39:ASP:OD1	28:BD:46:ARG:HD2	2.06	0.55
32:BH:129:GLU:HG2	32:BH:143:ILE:HG13	1.89	0.55
33:BI:6:ALA:HB1	33:BI:60:VAL:HG23	1.88	0.55
33:BI:24:GLY:O	33:BI:27:LEU:HD23	2.06	0.55
35:BK:77:ILE:HG22	35:BK:78:ARG:N	2.21	0.55
1:AA:91:U:C6	1:AA:92:U:C6	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:410:G:H5”	1:AA:411:A:OP1	2.06	0.55
1:AA:918:A:C2’	1:AA:919:A:C8	2.65	0.55
1:AA:918:A:N9	1:AA:919:A:N7	2.53	0.55
1:AA:939:G:C4	1:AA:940:C:C4	2.93	0.55
1:AA:1093:A:N3	1:AA:1109:C:O2’	2.31	0.55
1:AA:1267:C:C5	1:AA:1268:G:C5	2.94	0.55
1:AA:1294:G:C6	1:AA:1295:U:C4	2.94	0.55
1:AA:1442:G:H2’	1:AA:1443:C:O5’	2.04	0.55
4:AD:24:VAL:O	4:AD:25:ARG:O	2.25	0.55
4:AD:169:TRP:CD1	4:AD:185:PRO:HD3	2.41	0.55
7:AG:122:GLU:O	7:AG:123:LEU:C	2.48	0.55
10:AJ:87:LEU:C	10:AJ:87:LEU:HD13	2.32	0.55
11:AK:54:SER:O	11:AK:55:ARG:C	2.48	0.55
18:AR:32:ILE:HA	18:AR:39:VAL:HG23	1.89	0.55
21:AU:18:PHE:O	21:AU:21:SER:HB3	2.05	0.55
21:AU:39:LYS:N	21:AU:40:PRO:HD2	2.21	0.55
22:AV:8:A:N6	22:AV:346:C:C4	2.75	0.55
22:AV:20:A:H2’	23:AW:78:LYS:HZ1	1.70	0.55
22:AV:47:G:P	22:AV:313:C:H5”	2.46	0.55
22:AV:49:C:N4	22:AV:67:G:N1	2.14	0.55
22:AV:109:C:C2	22:AV:110:U:C5	2.94	0.55
22:AV:111:U:H3	22:AV:134:G:H1	1.54	0.55
22:AV:162:A:H2’	22:AV:163:G:C8	2.36	0.55
22:AV:196:G:N2	22:AV:197:A:N6	2.39	0.55
22:AV:211:C:H2’	22:AV:212:U:C6	2.41	0.55
22:AV:273:A:N3	22:AV:274:G:O6	2.39	0.55
22:AV:288:G:N3	22:AV:289:U:C5	2.74	0.55
22:AV:289:U:O2’	22:AV:290:A:H5’	2.05	0.55
22:AV:343:C:H5’	30:BF:79:ARG:C	2.30	0.55
23:AW:47:ARG:HD2	23:AW:48:PHE:CE1	2.41	0.55
23:AW:60:ILE:HG12	23:AW:77:ARG:NH2	2.22	0.55
25:AY:156:ARG:HB2	25:AY:157:LEU:HD23	1.88	0.55
25:AY:252:ASP:N	25:AY:252:ASP:OD2	2.39	0.55
25:AY:622:GLY:O	26:BA:2473:U:O2	2.23	0.55
26:BA:887:U:OP1	26:BA:887:U:H4’	2.06	0.55
26:BA:960:A:O3’	26:BA:961:C:H3’	2.07	0.55
26:BA:1248:G:OP1	41:BQ:1:ALA:N	2.39	0.55
26:BA:1507:C:N4	26:BA:1508:A:C2	2.75	0.55
26:BA:1838:C:N1	26:BA:1898:U:H5	2.05	0.55
26:BA:2219:U:H2’	26:BA:2220:U:O5’	2.06	0.55
26:BA:2331:G:N2	26:BA:2385:C:C6	2.73	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2719:G:O2'	26:BA:2720:U:H5'	2.04	0.55
27:BC:270:ARG:HH11	27:BC:270:ARG:HG2	1.71	0.55
29:BE:115:GLN:O	29:BE:116:ASP:HB2	2.04	0.55
29:BE:131:THR:HG22	29:BE:160:ALA:C	2.31	0.55
31:BG:8:VAL:HG13	31:BG:49:LEU:HB2	1.87	0.55
33:BI:132:ALA:HB1	33:BI:137:LEU:HD12	1.88	0.55
34:BJ:97:PRO:O	34:BJ:98:GLU:C	2.46	0.55
39:BO:94:ARG:O	39:BO:96:GLY:N	2.39	0.55
41:BQ:75:TYR:CZ	41:BQ:79:ILE:HG13	2.41	0.55
1:AA:89:U:O2'	1:AA:90:C:C5'	2.54	0.55
1:AA:938:A:C2'	1:AA:939:G:O5'	2.54	0.55
1:AA:1142:G:C2	1:AA:1143:G:C1'	2.84	0.55
1:AA:1299:A:O2'	1:AA:1300:G:H4'	2.05	0.55
1:AA:1308:U:O2'	1:AA:1309:G:H5'	2.06	0.55
5:AE:20:VAL:CG2	5:AE:20:VAL:O	2.55	0.55
8:AH:58:LEU:HD11	8:AH:60:LEU:HD21	1.88	0.55
9:AI:18:VAL:HA	9:AI:64:ILE:HG22	1.88	0.55
21:AU:13:VAL:CG1	21:AU:15:LEU:CD2	2.78	0.55
22:AV:26:U:C2	22:AV:27:U:C5	2.94	0.55
22:AV:264:U:O2'	22:AV:265:C:H5'	2.06	0.55
22:AV:301:A:H3'	22:AV:302:A:C5'	2.36	0.55
23:AW:65:LYS:CA	26:BA:1909:C:OP1	2.54	0.55
25:AY:165:GLN:HE21	25:AY:177:ILE:HG21	1.71	0.55
25:AY:610:VAL:HG12	25:AY:669:PHE:HB3	1.88	0.55
26:BA:100:U:C2	26:BA:101:A:N6	2.75	0.55
26:BA:907:G:H2'	26:BA:908:C:H6	1.71	0.55
26:BA:1327:A:H2'	26:BA:1328:A:O4'	2.06	0.55
26:BA:2182:U:H2'	26:BA:2183:A:C8	2.40	0.55
26:BA:2211:A:C2'	26:BA:2212:A:OP1	2.54	0.55
26:BA:2256:G:H2'	26:BA:2257:U:O5'	2.06	0.55
28:BD:12:THR:HG22	28:BD:13:ARG:H	1.71	0.55
30:BF:76:PHE:C	30:BF:77:LYS:HG3	2.30	0.55
30:BF:96:TRP:O	30:BF:99:PHE:N	2.40	0.55
30:BF:121:PHE:CZ	30:BF:127:TYR:HB2	2.41	0.55
31:BG:19:ASN:C	31:BG:22:VAL:HG23	2.31	0.55
40:BP:52:ARG:O	40:BP:53:GLY:C	2.50	0.55
41:BQ:40:LYS:C	41:BQ:42:GLY:N	2.59	0.55
1:AA:8:A:H5'	5:AE:124:ALA:O	2.07	0.55
1:AA:113:G:C6	1:AA:315:A:N6	2.74	0.55
1:AA:376:G:H2'	1:AA:377:G:C8	2.41	0.55
1:AA:589:U:H2'	1:AA:590:U:H6	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1081:A:C2'	1:AA:1082:A:H5'	2.35	0.55
1:AA:1153:G:C6	1:AA:1154:G:N7	2.74	0.55
1:AA:1190:G:H5'	3:AC:175:HIS:CE1	2.41	0.55
2:AB:55:GLU:HA	2:AB:58:LYS:HB2	1.88	0.55
2:AB:115:ASP:O	2:AB:116:LEU:HB2	2.05	0.55
3:AC:59:PRO:O	3:AC:60:ALA:HB3	2.06	0.55
4:AD:94:GLU:HG2	4:AD:185:PRO:HG2	1.89	0.55
6:AF:20:GLY:O	6:AF:23:GLU:HB3	2.07	0.55
8:AH:33:VAL:HG12	8:AH:34:ALA:N	2.21	0.55
11:AK:111:ASP:O	21:AU:3:ILE:CG2	2.55	0.55
13:AM:5:GLY:C	13:AM:7:ASN:H	2.14	0.55
15:AO:7:THR:O	15:AO:11:VAL:HG23	2.07	0.55
19:AS:10:ILE:HG21	19:AS:40:PHE:CE2	2.41	0.55
19:AS:50:VAL:HG21	19:AS:70:LEU:O	2.06	0.55
22:AV:6:U:O2'	22:AV:7:G:C5'	2.54	0.55
22:AV:62:G:O2'	22:AV:63:C:C6	2.60	0.55
22:AV:110:U:H2'	22:AV:111:U:H6	1.71	0.55
22:AV:114:G:H8	22:AV:114:G:O5'	1.89	0.55
22:AV:329:U:C2	22:AV:330:U:C5	2.95	0.55
23:AW:63:TYR:CG	23:AW:67:SER:HA	2.42	0.55
23:AW:82:HIS:N	23:AW:82:HIS:ND1	2.53	0.55
25:AY:92:ILE:HG23	25:AY:93:GLU:N	2.20	0.55
26:BA:31:C:O3'	26:BA:1238:G:H5"	2.05	0.55
26:BA:449:A:H2'	26:BA:450:G:H5'	1.89	0.55
26:BA:611:C:C2'	26:BA:612:G:H5'	2.36	0.55
26:BA:871:U:H2'	26:BA:872:U:C6	2.41	0.55
26:BA:872:U:C2	26:BA:873:C:C5	2.94	0.55
26:BA:1183:U:H2'	26:BA:1184:U:C6	2.41	0.55
26:BA:1291:C:C2'	26:BA:1292:G:H5'	2.36	0.55
26:BA:1694:C:H4'	26:BA:1695:G:O5'	2.05	0.55
26:BA:2334:U:H4'	26:BA:2335:A:OP2	2.07	0.55
26:BA:2747:G:O2'	31:BG:66:THR:HG22	2.07	0.55
32:BH:14:SER:OG	32:BH:17:ASP:HB2	2.06	0.55
32:BH:59:ALA:HA	32:BH:62:LEU:CD2	2.36	0.55
39:BO:31:THR:HG22	39:BO:33:ARG:N	2.21	0.55
44:BT:7:LEU:HD22	44:BT:46:ALA:HA	1.88	0.55
50:BZ:34:THR:HG22	50:BZ:35:VAL:N	2.21	0.55
52:B1:16:THR:CG2	52:B1:41:VAL:HG11	2.36	0.55
1:AA:18:C:C1'	1:AA:1078:U:N3	2.68	0.55
1:AA:404:G:N7	4:AD:1:ALA:N	2.54	0.55
1:AA:691:G:O6	11:AK:52:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1049:U:C4'	1:AA:1050:G:OP2	2.53	0.55
1:AA:1201:A:H1'	1:AA:1202:U:OP2	2.07	0.55
1:AA:1398:A:H61	5:AE:24:VAL:C	2.13	0.55
5:AE:152:VAL:HG22	5:AE:153:ALA:N	2.21	0.55
6:AF:3:HIS:H	6:AF:92:THR:HG23	1.72	0.55
8:AH:48:PHE:O	8:AH:49:LYS:HB2	2.07	0.55
9:AI:28:VAL:HG11	9:AI:31:GLN:HA	1.87	0.55
10:AJ:5:ARG:HE	10:AJ:79:PRO:HG3	1.71	0.55
12:AL:101:LEU:N	12:AL:101:LEU:HD13	2.21	0.55
16:AP:75:ILE:O	16:AP:77:GLU:N	2.39	0.55
17:AQ:16:MET:HG2	17:AQ:19:SER:HB3	1.88	0.55
22:AV:133:A:O2'	22:AV:134:G:O5'	2.24	0.55
22:AV:135:A:H2'	22:AV:136:G:C8	2.41	0.55
22:AV:212:U:C4'	22:AV:213:G:OP1	2.55	0.55
22:AV:222:U:H5'	22:AV:236:U:C4	2.41	0.55
22:AV:256:G:C5	22:AV:273:A:N1	2.73	0.55
22:AV:269:C:H3'	22:AV:270:C:H5'	1.89	0.55
22:AV:317:G:C4	22:AV:318:G:C8	2.95	0.55
22:AV:328:U:C2	22:AV:329:U:C5	2.94	0.55
22:AV:340:G:O2'	22:AV:341:5MU:H5"	2.07	0.55
25:AY:8:ASP:O	25:AY:9:LEU:HB3	2.06	0.55
25:AY:390:VAL:HG23	25:AY:391:GLY:O	2.07	0.55
25:AY:553:GLY:HA2	25:AY:560:VAL:HG23	1.89	0.55
25:AY:624:LEU:HD11	25:AY:655:TYR:OH	2.06	0.55
25:AY:634:MET:SD	26:BA:1068:G:C2'	2.95	0.55
26:BA:236:C:H2'	26:BA:237:C:H6	1.71	0.55
26:BA:282:A:H2'	26:BA:283:G:H8	1.72	0.55
26:BA:871:U:H2'	26:BA:872:U:H6	1.70	0.55
26:BA:894:U:O5'	26:BA:894:U:H6	1.88	0.55
26:BA:903:C:O2	26:BA:904:G:H8	1.84	0.55
26:BA:1171:G:C2	26:BA:1172:C:O2	2.60	0.55
27:BC:128:THR:C	27:BC:129:LEU:CD2	2.79	0.55
27:BC:182:LYS:O	27:BC:183:VAL:HG23	2.06	0.55
30:BF:42:ALA:CB	30:BF:45:ASP:O	2.54	0.55
33:BI:18:ASN:HD21	33:BI:27:LEU:HD11	1.72	0.55
34:BJ:4:PHE:CD1	34:BJ:4:PHE:C	2.84	0.55
38:BN:12:ARG:NH1	38:BN:20:MET:HE1	2.20	0.55
40:BP:27:VAL:HG22	40:BP:83:ILE:HG13	1.88	0.55
49:BY:18:LEU:O	49:BY:22:LEU:N	2.39	0.55
51:B0:47:TYR:CE2	51:B0:52:LYS:HB2	2.42	0.55
56:BB:106:G:H2'	56:BB:107:G:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:188:C:O2	1:AA:188:C:H2'	2.06	0.55
1:AA:918:A:N6	1:AA:919:A:C6	2.74	0.55
1:AA:1007:U:H2'	1:AA:1008:U:H5'	1.89	0.55
1:AA:1243:C:H2'	1:AA:1244:G:C8	2.42	0.55
1:AA:1279:G:H5"	10:AJ:9:ARG:CZ	2.36	0.55
2:AB:209:VAL:O	2:AB:211:LEU:N	2.40	0.55
4:AD:167:PRO:CG	4:AD:170:LEU:HD11	2.37	0.55
7:AG:134:VAL:CG2	7:AG:135:LYS:N	2.69	0.55
7:AG:143:MET:C	7:AG:144:ALA:O	2.48	0.55
9:AI:51:LEU:HA	9:AI:54:VAL:CG2	2.36	0.55
10:AJ:33:GLY:HA3	10:AJ:83:THR:CB	2.37	0.55
15:AO:63:ARG:NH1	15:AO:87:ARG:NH2	2.55	0.55
18:AR:50:TYR:O	18:AR:54:LEU:HB2	2.06	0.55
22:AV:39:A:N1	22:AV:41:G:N7	2.55	0.55
22:AV:109:C:H2'	22:AV:110:U:H6	1.71	0.55
22:AV:113:A:C2	22:AV:114:G:C5	2.94	0.55
22:AV:181:G:O2'	22:AV:182:U:O5'	2.18	0.55
22:AV:327:A:C4	22:AV:328:U:C5	2.95	0.55
25:AY:65:ILE:HD13	25:AY:65:ILE:H	1.71	0.55
26:BA:415:A:C2	26:BA:2409:G:C2	2.95	0.55
26:BA:889:C:H2'	26:BA:891:G:C1'	2.35	0.55
26:BA:905:A:C2	26:BA:906:U:C5	2.94	0.55
26:BA:907:G:C4	26:BA:908:C:C5	2.94	0.55
26:BA:1078:U:H5"	26:BA:1079:C:OP1	2.07	0.55
26:BA:1167:C:C2'	26:BA:1168:G:H5"	2.35	0.55
26:BA:2127:G:N2	26:BA:2161:C:O2	2.40	0.55
26:BA:2473:U:C6	26:BA:2474:U:C5	2.94	0.55
27:BC:129:LEU:N	27:BC:129:LEU:CD2	2.70	0.55
29:BE:150:THR:HG22	29:BE:170:ARG:O	2.06	0.55
30:BF:16:MET:CA	30:BF:16:MET:HE3	2.37	0.55
32:BH:122:LEU:HD13	32:BH:128:HIS:CD2	2.42	0.55
44:BT:14:PRO:HD2	49:BY:33:ALA:HB1	1.88	0.55
1:AA:128:G:O2'	1:AA:129:A:H5'	2.07	0.55
1:AA:257:G:C2	1:AA:258:G:C5	2.95	0.55
1:AA:683:G:O2'	1:AA:684:U:H5'	2.07	0.55
1:AA:714:G:H2'	1:AA:715:A:C8	2.41	0.55
1:AA:832:G:H2'	1:AA:833:G:H5'	1.88	0.55
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.70	0.55
1:AA:1277:C:H2'	1:AA:1279:G:H8	1.71	0.55
1:AA:1299:A:C6	1:AA:1301:U:O2	2.60	0.55
1:AA:1503:A:C8	1:AA:1531:A:H1'	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:206:ILE:HD13	2:AB:207:ARG:H	1.72	0.55
3:AC:5:HIS:CD2	3:AC:8:GLY:H	2.25	0.55
3:AC:141:MET:HE1	3:AC:147:GLY:CA	2.36	0.55
9:AI:20:ILE:HD11	9:AI:85:ALA:HB3	1.89	0.55
9:AI:71:ILE:HG22	9:AI:72:SER:N	2.21	0.55
13:AM:28:ARG:NH1	13:AM:62:PHE:HB3	2.22	0.55
14:AN:3:GLN:HA	14:AN:6:LYS:HE2	1.88	0.55
15:AO:10:ILE:O	15:AO:14:PHE:HD1	1.89	0.55
17:AQ:58:VAL:HG22	17:AQ:60:ILE:HD13	1.89	0.55
22:AV:77:G:C4	22:AV:78:C:C5	2.94	0.55
22:AV:108:G:H2'	22:AV:109:C:H6	1.71	0.55
22:AV:343:C:C5'	30:BF:79:ARG:HA	2.36	0.55
25:AY:282:SER:C	25:AY:284:LEU:H	2.14	0.55
25:AY:359:HIS:O	25:AY:361:ASN:N	2.40	0.55
26:BA:545:U:O2	26:BA:545:U:O5'	2.25	0.55
26:BA:1051:G:H5'	26:BA:1052:C:OP2	2.07	0.55
26:BA:1057:A:C5	26:BA:1086:A:H2'	2.41	0.55
26:BA:1071:G:H8	26:BA:1071:G:OP2	1.90	0.55
26:BA:1074:G:C2'	26:BA:1075:C:H5'	2.36	0.55
26:BA:1452:G:H5"	26:BA:1452:G:C8	2.41	0.55
26:BA:2313:C:H6	26:BA:2313:C:H3'	1.71	0.55
26:BA:2579:C:O5'	26:BA:2579:C:H6	1.88	0.55
26:BA:2661:G:C6	26:BA:2662:A:C2	2.94	0.55
29:BE:118:LEU:HD11	29:BE:188:MET:HG3	1.88	0.55
31:BG:10:VAL:O	31:BG:47:ASN:ND2	2.40	0.55
31:BG:41:GLU:HB2	31:BG:54:ARG:NH2	2.22	0.55
40:BP:36:LYS:HE3	40:BP:38:ARG:HE	1.72	0.55
40:BP:102:ARG:CD	40:BP:106:ALA:O	2.55	0.55
50:BZ:9:THR:HG22	50:BZ:10:ARG:HG3	1.88	0.55
56:BB:64:G:H2'	56:BB:65:U:C6	2.41	0.55
1:AA:375:U:C4	1:AA:376:G:N7	2.75	0.55
1:AA:538:G:H5"	12:AL:110:LYS:HB2	1.89	0.55
1:AA:542:G:C2	1:AA:543:U:C6	2.94	0.55
1:AA:939:G:H2'	1:AA:940:C:C6	2.41	0.55
1:AA:1165:U:C2'	1:AA:1166:G:H5'	2.36	0.55
1:AA:1308:U:OP2	13:AM:97:ARG:HG2	2.07	0.55
3:AC:154:GLY:HA3	3:AC:162:ALA:HB1	1.88	0.55
3:AC:155:ARG:HD3	3:AC:192:TYR:O	2.06	0.55
3:AC:166:TRP:N	3:AC:166:TRP:CD2	2.74	0.55
8:AH:28:SER:HB3	8:AH:56:PRO:HB3	1.89	0.55
9:AI:128:LYS:NZ	24:AX:35:C:H5"	2.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:10:ASP:CG	13:AM:11:HIS:N	2.65	0.55
13:AM:18:LEU:HD11	13:AM:32:ILE:HG21	1.89	0.55
16:AP:67:ILE:HG13	16:AP:71:VAL:CG1	2.37	0.55
17:AQ:10:ARG:HH21	17:AQ:55:GLY:HA2	1.71	0.55
22:AV:9:U:H5'	23:AW:35:ARG:HH12	1.70	0.55
22:AV:108:G:C4	22:AV:109:C:C5	2.95	0.55
22:AV:139:C:C2	22:AV:182:U:C6	2.94	0.55
22:AV:301:A:C3'	22:AV:302:A:C5'	2.85	0.55
25:AY:534:ILE:HG13	25:AY:570:GLY:O	2.05	0.55
26:BA:213:A:C2	26:BA:214:G:C5	2.95	0.55
26:BA:1495:A:O2'	26:BA:1496:A:H5'	2.07	0.55
26:BA:1531:C:H2'	26:BA:1532:A:C8	2.41	0.55
26:BA:1867:G:O2'	26:BA:1868:C:H5'	2.07	0.55
26:BA:2365:G:H2'	26:BA:2366:A:C8	2.42	0.55
31:BG:150:TYR:O	31:BG:151:ARG:HB2	2.07	0.55
32:BH:2:GLN:O	32:BH:19:VAL:O	2.24	0.55
33:BI:5:GLN:O	33:BI:5:GLN:HG2	2.07	0.55
34:BJ:30:THR:CG2	34:BJ:31:GLU:N	2.69	0.55
43:BS:41:LYS:O	43:BS:42:LYS:C	2.46	0.55
46:BV:93:ARG:O	46:BV:94:ALA:HB2	2.05	0.55
49:BY:18:LEU:O	49:BY:22:LEU:CB	2.54	0.55
54:B3:16:THR:HG23	54:B3:20:GLY:O	2.06	0.55
54:B3:31:ILE:CG2	54:B3:34:LYS:HE3	2.36	0.55
1:AA:5:U:C2	1:AA:5:U:OP1	2.60	0.55
1:AA:52:C:O2'	1:AA:53:A:H5'	2.06	0.55
1:AA:293:G:C5	1:AA:294:U:C5	2.95	0.55
1:AA:368:U:H5"	25:AY:354:ARG:NH1	2.22	0.55
1:AA:452:A:C8	1:AA:452:A:C3'	2.90	0.55
1:AA:1123:U:O3'	10:AJ:38:GLY:HA3	2.07	0.55
1:AA:1244:G:O2'	1:AA:1245:C:H5'	2.07	0.55
2:AB:19:THR:HB	2:AB:36:LYS:O	2.06	0.55
2:AB:71:THR:O	2:AB:72:LYS:CB	2.55	0.55
2:AB:93:HIS:ND1	2:AB:145:ASN:HB2	2.22	0.55
2:AB:116:LEU:HG	2:AB:140:LEU:CD1	2.37	0.55
2:AB:138:ARG:HG3	2:AB:139:GLU:H	1.72	0.55
3:AC:109:GLU:CD	3:AC:109:GLU:H	2.15	0.55
8:AH:62:LEU:H	8:AH:62:LEU:HD22	1.72	0.55
10:AJ:7:ARG:CB	10:AJ:75:ASP:OD1	2.54	0.55
13:AM:21:ILE:HG22	13:AM:22:TYR:O	2.06	0.55
17:AQ:16:MET:HG2	17:AQ:19:SER:CB	2.36	0.55
22:AV:110:U:H2'	22:AV:111:U:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:155:C:C2'	22:AV:155:C:O2	2.48	0.55
22:AV:209:C:H2'	22:AV:210:C:C5	2.42	0.55
22:AV:218:G:C2	22:AV:219:G:C5	2.95	0.55
22:AV:271:G:C2'	22:AV:272:C:C5'	2.81	0.55
22:AV:343:C:C3'	30:BF:73:VAL:N	2.69	0.55
23:AW:98:LEU:CD2	23:AW:119:LEU:HD13	2.35	0.55
25:AY:343:ASN:C	25:AY:343:ASN:ND2	2.59	0.55
26:BA:554:U:O2'	26:BA:555:G:H5'	2.06	0.55
26:BA:880:G:N3	26:BA:881:G:C8	2.75	0.55
26:BA:964:C:O2'	26:BA:2273:A:N3	2.35	0.55
26:BA:1063:G:H4'	33:BI:76:ALA:CB	2.37	0.55
26:BA:1707:G:O2'	26:BA:1708:C:H5'	2.07	0.55
26:BA:2590:A:O3'	27:BC:237:ARG:NH1	2.39	0.55
27:BC:226:PRO:HD3	27:BC:233:GLY:CA	2.36	0.55
28:BD:2:ILE:HD13	28:BD:90:PHE:CE1	2.42	0.55
36:BL:81:ASP:C	36:BL:83:ALA:H	2.14	0.55
38:BN:41:ALA:HB1	38:BN:97:ILE:HD13	1.88	0.55
39:BO:24:THR:HG22	39:BO:42:PRO:CD	2.37	0.55
39:BO:31:THR:O	39:BO:102:ARG:NH1	2.37	0.55
43:BS:4:ILE:HG23	43:BS:106:VAL:HG22	1.87	0.55
46:BV:2:PHE:CD1	46:BV:50:MET:HE2	2.41	0.55
1:AA:209:U:H4'	1:AA:210:C:OP2	2.06	0.55
1:AA:274:A:H5"	17:AQ:15:LYS:HE2	1.87	0.55
1:AA:283:U:H2'	1:AA:284:C:H6	1.72	0.55
1:AA:373:A:C4	1:AA:482:A:N7	2.75	0.55
1:AA:377:G:OP1	16:AP:5:ARG:HD3	2.06	0.55
1:AA:647:C:O2'	1:AA:648:A:H5'	2.06	0.55
1:AA:694:A:H2'	1:AA:695:A:O5'	2.07	0.55
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.88	0.55
1:AA:943:U:H2'	1:AA:944:G:C5'	2.37	0.55
1:AA:1057:G:H4'	3:AC:196:GLY:N	2.22	0.55
1:AA:1294:G:N3	1:AA:1294:G:H2'	2.21	0.55
4:AD:169:TRP:CD1	4:AD:185:PRO:HG3	2.41	0.55
5:AE:17:VAL:HA	5:AE:33:THR:O	2.07	0.55
5:AE:33:THR:HB	5:AE:49:TYR:CE2	2.42	0.55
6:AF:6:ILE:HA	6:AF:89:VAL:HA	1.89	0.55
10:AJ:33:GLY:O	10:AJ:34:ALA:HB2	2.05	0.55
11:AK:52:ARG:N	11:AK:55:ARG:HB2	2.22	0.55
14:AN:35:ALA:HB2	14:AN:41:ARG:HB3	1.88	0.55
14:AN:41:ARG:HG3	14:AN:42:TRP:CE3	2.42	0.55
22:AV:16:U:H2'	22:AV:17:U:OP2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:139:C:N1	22:AV:182:U:C6	2.75	0.55
22:AV:139:C:O2	22:AV:182:U:H6	1.89	0.55
22:AV:322:U:C2'	22:AV:323:A:N7	2.57	0.55
22:AV:330:U:H2'	22:AV:331:C:H6	1.71	0.55
25:AY:119:GLU:O	25:AY:120:THR:OG1	2.24	0.55
25:AY:250:THR:O	25:AY:252:ASP:N	2.40	0.55
26:BA:277:G:H4'	26:BA:278:A:N6	2.22	0.55
26:BA:280:U:H2'	26:BA:281:C:C6	2.42	0.55
26:BA:587:C:O2'	36:BL:19:LEU:HD11	2.07	0.55
26:BA:660:C:OP1	29:BE:94:GLN:HB2	2.06	0.55
26:BA:870:U:C2	26:BA:871:U:C5	2.94	0.55
26:BA:898:C:H2'	26:BA:899:A:H5'	1.89	0.55
26:BA:899:A:C4'	26:BA:900:A:OP1	2.39	0.55
26:BA:1371:G:O2'	26:BA:1372:U:H5'	2.07	0.55
26:BA:1932:A:H2'	26:BA:1933:G:O4'	2.07	0.55
26:BA:2331:G:O4'	47:BW:38:GLY:HA3	2.07	0.55
26:BA:2846:G:H2'	26:BA:2847:U:O4'	2.07	0.55
27:BC:265:PHE:N	27:BC:265:PHE:CD1	2.75	0.55
30:BF:62:GLN:HE22	30:BF:94:ARG:HD3	1.73	0.55
32:BH:60:GLU:O	32:BH:63:ALA:HB3	2.06	0.55
33:BI:57:VAL:O	33:BI:58:ILE:HD13	2.07	0.55
34:BJ:114:LEU:HG	34:BJ:118:MET:HE3	1.89	0.55
38:BN:49:GLU:N	38:BN:50:PRO:CD	2.70	0.55
1:AA:15:G:H1	1:AA:920:U:C1'	2.17	0.54
1:AA:142:G:H5'	1:AA:143:A:OP2	2.07	0.54
1:AA:410:G:H5'	1:AA:411:A:OP1	2.03	0.54
1:AA:928:G:N2	1:AA:1390:U:O2	2.40	0.54
1:AA:985:C:C2	1:AA:1221:G:N2	2.75	0.54
1:AA:1102:A:O2'	1:AA:1103:C:H5'	2.07	0.54
1:AA:1253:G:H1'	1:AA:1355:G:O2'	2.07	0.54
1:AA:1399:C:C2	1:AA:1502:A:N6	2.74	0.54
2:AB:147:LEU:C	2:AB:150:ILE:HG22	2.32	0.54
3:AC:15:LYS:HG3	3:AC:16:PRO:CD	2.37	0.54
5:AE:14:LEU:C	5:AE:14:LEU:CD1	2.81	0.54
5:AE:81:GLN:NE2	5:AE:149:PRO:HD3	2.21	0.54
6:AF:42:TRP:CZ2	6:AF:61:LEU:HB2	2.42	0.54
7:AG:144:ALA:O	7:AG:145:GLU:CB	2.55	0.54
8:AH:13:ILE:HG22	8:AH:14:ARG:N	2.22	0.54
9:AI:33:SER:HB3	9:AI:36:GLN:CG	2.37	0.54
9:AI:44:ARG:N	9:AI:45:MET:SD	2.80	0.54
21:AU:24:LYS:O	21:AU:28:LEU:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:43:G:O6	22:AV:312:A:C2	2.56	0.54
22:AV:48:C:H2'	22:AV:49:C:O4'	2.07	0.54
22:AV:150:G:H22	22:AV:151:C:H1'	1.68	0.54
22:AV:210:C:O2'	22:AV:240:U:C5	2.31	0.54
22:AV:297:G:H2'	22:AV:298:A:C8	2.42	0.54
22:AV:330:U:C2	22:AV:331:C:C5	2.94	0.54
22:AV:344:A:C5'	30:BF:76:PHE:N	2.66	0.54
23:AW:41:PHE:CD1	23:AW:102:PRO:HB2	2.41	0.54
25:AY:343:ASN:HD21	25:AY:345:THR:CB	2.20	0.54
25:AY:411:VAL:HG12	25:AY:412:ALA:N	2.22	0.54
25:AY:528:ALA:HB3	25:AY:567:LEU:O	2.07	0.54
26:BA:581:C:OP1	41:BQ:32:ARG:HG3	2.07	0.54
26:BA:587:C:O2	36:BL:33:ARG:NH2	2.40	0.54
26:BA:1588:G:C5	26:BA:1589:U:C5	2.95	0.54
26:BA:1762:A:H8	26:BA:1762:A:O5'	1.90	0.54
26:BA:1926:U:O2	26:BA:1926:U:H2'	2.06	0.54
27:BC:124:LYS:HB2	27:BC:125:PRO:HD2	1.89	0.54
27:BC:161:VAL:HG13	27:BC:173:LEU:HB3	1.88	0.54
29:BE:19:PHE:CE1	29:BE:109:LEU:HD23	2.42	0.54
29:BE:48:THR:C	29:BE:50:ALA:H	2.15	0.54
33:BI:46:ASP:CA	33:BI:50:LYS:HD2	2.36	0.54
45:BU:97:SER:O	45:BU:98:ASN:CB	2.54	0.54
52:B1:33:LEU:N	52:B1:51:ALA:HB3	2.21	0.54
1:AA:104:G:HO2'	1:AA:105:G:H5'	1.71	0.54
1:AA:108:G:C5'	1:AA:108:G:N3	2.69	0.54
1:AA:324:G:N2	1:AA:326:G:H3'	2.22	0.54
1:AA:626:G:H2'	1:AA:627:G:H5'	1.88	0.54
1:AA:980:C:C5	1:AA:981:U:C4	2.95	0.54
1:AA:1013:G:N2	1:AA:1017:U:N3	2.56	0.54
1:AA:1060:U:C5	3:AC:1:GLY:CA	2.90	0.54
1:AA:1161:C:O2	1:AA:1176:A:C2	2.60	0.54
1:AA:1349:A:OP1	9:AI:121:ARG:HB2	2.06	0.54
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.72	0.54
2:AB:22:TRP:HA	2:AB:189:ASN:HA	1.89	0.54
2:AB:146:SER:O	2:AB:147:LEU:CG	2.54	0.54
4:AD:87:GLU:HG2	4:AD:187:ARG:HD3	1.89	0.54
5:AE:45:VAL:O	5:AE:70:MET:CG	2.55	0.54
10:AJ:91:ASP:C	10:AJ:92:LEU:HG	2.33	0.54
13:AM:106:ARG:HG2	13:AM:106:ARG:HH11	1.71	0.54
15:AO:23:SER:HB3	15:AO:26:VAL:CG2	2.37	0.54
22:AV:218:G:C2	22:AV:219:G:N7	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:259:G:C5	22:AV:260:C:C4	2.96	0.54
25:AY:213:HIS:O	25:AY:217:VAL:HG23	2.08	0.54
25:AY:264:LEU:HD23	25:AY:264:LEU:C	2.32	0.54
25:AY:417:THR:O	25:AY:419:ALA:N	2.40	0.54
25:AY:446:THR:HG23	25:AY:448:GLN:HG2	1.88	0.54
26:BA:717:C:H2'	26:BA:718:A:H5'	1.89	0.54
26:BA:894:U:N3	26:BA:895:U:C6	2.75	0.54
26:BA:2086:U:H2'	26:BA:2087:G:C8	2.42	0.54
30:BF:43:ILE:HG22	30:BF:82:TYR:CE1	2.41	0.54
33:BI:73:PRO:HB2	33:BI:77:VAL:HG21	1.89	0.54
33:BI:101:SER:HB3	33:BI:104:GLN:CG	2.37	0.54
35:BK:90:ASN:O	35:BK:91:SER:HB3	2.06	0.54
37:BM:113:ALA:O	37:BM:116:ALA:N	2.41	0.54
40:BP:25:VAL:HG23	40:BP:84:SER:O	2.07	0.54
43:BS:57:ASN:O	43:BS:61:ASN:HB2	2.08	0.54
44:BT:35:ALA:O	44:BT:38:ALA:CB	2.55	0.54
49:BY:18:LEU:CD2	49:BY:22:LEU:CD2	2.85	0.54
56:BB:43:C:H5"	56:BB:44:G:OP2	2.07	0.54
1:AA:73:C:O2'	1:AA:74:A:H5"	2.08	0.54
1:AA:246:A:H4'	1:AA:247:G:OP1	2.07	0.54
1:AA:769:G:H2'	1:AA:770:C:O5'	2.07	0.54
1:AA:976:G:H5'	1:AA:977:A:OP1	2.07	0.54
3:AC:63:ILE:HG22	3:AC:96:VAL:CG2	2.37	0.54
6:AF:2:ARG:HG2	6:AF:92:THR:HG21	1.90	0.54
7:AG:119:LEU:HD22	7:AG:123:LEU:CD2	2.38	0.54
10:AJ:27:GLU:O	10:AJ:30:LYS:HG2	2.07	0.54
11:AK:22:ILE:HG22	11:AK:31:VAL:HG22	1.90	0.54
13:AM:80:MET:HG2	13:AM:91:ARG:NH2	2.22	0.54
18:AR:22:TYR:C	18:AR:22:TYR:CD1	2.86	0.54
19:AS:39:ILE:HD11	19:AS:70:LEU:HD22	1.89	0.54
22:AV:71:A:O2'	22:AV:72:A:H8	1.90	0.54
22:AV:253:U:H3	22:AV:278:G:H1	1.55	0.54
23:AW:24:ILE:HB	23:AW:26:LEU:HD21	1.89	0.54
25:AY:687:LEU:O	25:AY:689:LYS:N	2.40	0.54
26:BA:368:A:N7	26:BA:369:U:C5	2.75	0.54
26:BA:1045:C:O5'	26:BA:1046:A:H5'	2.07	0.54
26:BA:1073:A:N7	26:BA:1074:G:C8	2.73	0.54
26:BA:1908:C:C5'	26:BA:1909:C:OP2	2.55	0.54
26:BA:2313:C:H3'	26:BA:2313:C:C6	2.42	0.54
26:BA:2534:A:H2'	26:BA:2535:G:O5'	2.07	0.54
26:BA:2751:G:C4	31:BG:2:ARG:CD	2.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:149:LYS:HD3	27:BC:152:GLN:OE1	2.08	0.54
28:BD:26:VAL:CG1	28:BD:186:LEU:HD13	2.36	0.54
31:BG:154:GLU:OE2	31:BG:157:LYS:HB2	2.06	0.54
33:BI:18:ASN:ND2	33:BI:27:LEU:CD2	2.71	0.54
35:BK:28:SER:C	35:BK:30:ARG:H	2.15	0.54
35:BK:55:GLY:O	35:BK:56:ASP:C	2.50	0.54
37:BM:55:ARG:HH21	37:BM:55:ARG:CG	2.20	0.54
44:BT:67:VAL:HG22	44:BT:76:ARG:HG3	1.90	0.54
56:BB:102:G:H2'	56:BB:103:U:H5'	1.87	0.54
1:AA:142:G:C5	1:AA:143:A:C8	2.96	0.54
1:AA:322:C:O3'	20:AT:17:ARG:HG3	2.07	0.54
1:AA:1130:A:H1'	1:AA:1146:A:C2	2.42	0.54
1:AA:1397:C:HO2'	1:AA:1398:A:P	2.29	0.54
2:AB:73:ARG:O	2:AB:74:ALA:HB2	2.06	0.54
4:AD:3:TYR:CD1	4:AD:3:TYR:O	2.60	0.54
10:AJ:28:THR:O	10:AJ:32:THR:CG2	2.55	0.54
10:AJ:40:ILE:HG21	10:AJ:73:LEU:HD12	1.89	0.54
15:AO:7:THR:HA	15:AO:10:ILE:HD12	1.90	0.54
16:AP:20:VAL:HG22	16:AP:35:ARG:HA	1.89	0.54
22:AV:21:C:H6	22:AV:21:C:H3'	1.73	0.54
22:AV:28:U:C2	22:AV:29:G:C5	2.95	0.54
22:AV:54:G:N3	22:AV:54:G:C2'	2.70	0.54
22:AV:158:U:C6	22:AV:197:A:N1	2.76	0.54
22:AV:242:A:H2'	22:AV:243:G:C8	2.42	0.54
22:AV:298:A:C2'	22:AV:299:C:O4'	2.36	0.54
22:AV:324:G:N2	22:AV:325:G:N7	2.49	0.54
23:AW:16:ILE:HA	23:AW:119:LEU:O	2.07	0.54
23:AW:27:LYS:N	23:AW:30:GLU:OE1	2.40	0.54
26:BA:874:G:H2'	26:BA:875:G:C8	2.42	0.54
26:BA:998:C:C2'	26:BA:999:U:O5'	2.56	0.54
26:BA:1085:A:C5	26:BA:1086:A:N1	2.76	0.54
26:BA:1936:A:H3'	26:BA:1937:A:H5'	1.89	0.54
26:BA:2006:C:O5'	26:BA:2006:C:H6	1.91	0.54
26:BA:2009:A:OP1	43:BS:41:LYS:HE2	2.06	0.54
26:BA:2287:A:C8	26:BA:2289:G:C8	2.96	0.54
26:BA:2392:A:H5'	54:B3:27:ASN:OD1	2.07	0.54
26:BA:2888:C:H2'	26:BA:2889:C:H6	1.72	0.54
33:BI:17:ALA:HA	33:BI:41:PHE:CZ	2.43	0.54
38:BN:38:LEU:HB3	38:BN:39:PRO:HD3	1.90	0.54
52:B1:42:VAL:HG22	52:B1:44:GLN:HB2	1.90	0.54
55:B4:37:GLN:O	55:B4:37:GLN:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:55:A:C2	1:AA:56:U:H1'	2.42	0.54
1:AA:64:G:N2	1:AA:67:C:C4	2.75	0.54
1:AA:338:A:N1	1:AA:351:G:O6	2.41	0.54
1:AA:1392:G:HO2'	1:AA:1393:U:H5'	1.73	0.54
2:AB:103:TRP:CZ2	2:AB:153:MET:HG2	2.42	0.54
4:AD:144:ILE:HD13	4:AD:177:MET:HB3	1.90	0.54
5:AE:120:HIS:O	5:AE:121:ASN:CB	2.54	0.54
6:AF:86:ARG:CG	6:AF:86:ARG:NH1	2.69	0.54
7:AG:91:ARG:HE	7:AG:93:VAL:CG2	2.21	0.54
8:AH:76:ARG:NE	8:AH:78:SER:O	2.41	0.54
8:AH:124:ILE:O	8:AH:124:ILE:CG1	2.55	0.54
12:AL:2:THR:CG2	12:AL:4:ASN:CB	2.86	0.54
17:AQ:40:THR:HG22	17:AQ:41:THR:N	2.23	0.54
21:AU:35:GLU:OE2	21:AU:37:TYR:HD1	1.90	0.54
22:AV:26:U:H2'	22:AV:27:U:H6	1.71	0.54
22:AV:174:A:C2'	22:AV:175:A:H5'	2.34	0.54
22:AV:229:U:C4'	22:AV:230:U:OP1	2.30	0.54
22:AV:250:U:O2'	22:AV:251:U:H5'	2.07	0.54
23:AW:34:LEU:C	23:AW:36:ALA:H	2.15	0.54
23:AW:55:LEU:HD23	23:AW:56:GLU:N	2.22	0.54
24:AX:32:G:C6	24:AX:33:C:N3	2.75	0.54
24:AX:72:C:HO2'	26:BA:1851:U:C2'	2.14	0.54
25:AY:137:ASN:HD21	25:AY:263:ALA:HB3	1.73	0.54
25:AY:250:THR:HA	25:AY:255:ILE:HG23	1.89	0.54
26:BA:365:U:O2'	26:BA:366:C:H5'	2.08	0.54
26:BA:1212:G:H1'	26:BA:1236:G:N2	2.23	0.54
26:BA:1478:G:H1	26:BA:1513:U:H3	1.55	0.54
26:BA:1486:U:O2	26:BA:1504:A:C2	2.60	0.54
27:BC:42:ARG:HH11	27:BC:42:ARG:HG2	1.73	0.54
30:BF:69:ALA:HB2	30:BF:82:TYR:O	2.08	0.54
34:BJ:64:VAL:HG13	34:BJ:65:THR:N	2.22	0.54
35:BK:9:ASN:O	35:BK:83:ALA:HA	2.08	0.54
37:BM:16:ARG:CG	37:BM:16:ARG:NH1	2.65	0.54
41:BQ:26:ALA:HB1	41:BQ:33:VAL:HG21	1.88	0.54
43:BS:35:ILE:O	43:BS:36:LEU:C	2.51	0.54
53:B2:24:THR:O	53:B2:25:LYS:C	2.47	0.54
56:BB:33:G:H2'	56:BB:34:A:H5'	1.88	0.54
1:AA:224:U:H2'	1:AA:225:C:C6	2.42	0.54
1:AA:417:G:C6	1:AA:418:C:C4	2.96	0.54
1:AA:987:G:O2'	1:AA:988:G:H5'	2.07	0.54
1:AA:1245:C:H2'	1:AA:1246:A:O4'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:12:GLY:C	3:AC:13:ILE:HG23	2.33	0.54
3:AC:154:GLY:CA	3:AC:162:ALA:HB1	2.37	0.54
4:AD:57:LYS:C	4:AD:57:LYS:HD2	2.32	0.54
5:AE:64:GLU:OE2	5:AE:68:ARG:NH2	2.40	0.54
5:AE:76:ASN:O	5:AE:77:ASN:CB	2.55	0.54
6:AF:64:VAL:HG12	6:AF:65:GLU:N	2.22	0.54
8:AH:79:ARG:HB2	8:AH:80:PRO:CD	2.38	0.54
10:AJ:34:ALA:O	10:AJ:35:GLN:HB2	2.08	0.54
11:AK:110:THR:HG23	21:AU:4:LYS:CB	2.38	0.54
11:AK:114:PRO:O	11:AK:115:ILE:HD13	2.07	0.54
14:AN:3:GLN:OE1	14:AN:6:LYS:HE3	2.07	0.54
15:AO:15:GLY:O	15:AO:16:ARG:C	2.51	0.54
15:AO:23:SER:OG	15:AO:26:VAL:HG23	2.08	0.54
17:AQ:15:LYS:C	17:AQ:15:LYS:HD2	2.33	0.54
19:AS:28:LYS:HB3	19:AS:29:PRO:CD	2.38	0.54
22:AV:20:A:H2'	22:AV:21:C:N1	2.23	0.54
22:AV:40:G:C8	22:AV:317:G:N9	2.74	0.54
22:AV:164:G:O5'	22:AV:165:A:OP2	2.26	0.54
22:AV:171:A:N1	22:AV:172:U:C4	2.75	0.54
22:AV:180:G:H5"	22:AV:181:G:OP2	2.07	0.54
22:AV:188:C:C4	22:AV:189:C:H5	2.25	0.54
22:AV:233:A:HO2'	22:AV:234:A:P	2.30	0.54
23:AW:44:SER:N	23:AW:57:ASN:ND2	2.51	0.54
24:AX:25:U:C2'	24:AX:26:C:H5'	2.38	0.54
25:AY:18:ALA:HA	25:AY:85:PRO:HG2	1.88	0.54
25:AY:286:ILE:HD12	25:AY:286:ILE:N	2.23	0.54
25:AY:326:THR:O	25:AY:328:ILE:HG23	2.07	0.54
26:BA:547:A:C8	26:BA:548:G:N3	2.76	0.54
26:BA:806:C:O2	26:BA:2444:G:O2'	2.25	0.54
26:BA:1799:G:H4'	26:BA:1800:C:O5'	2.07	0.54
26:BA:1863:G:C2	26:BA:1880:U:O2	2.60	0.54
26:BA:2019:A:C2'	26:BA:2020:A:O5'	2.56	0.54
26:BA:2139:U:H2'	26:BA:2140:G:H8	1.72	0.54
26:BA:2170:A:C8	26:BA:2170:A:OP2	2.60	0.54
26:BA:2458:G:C2	26:BA:2490:G:N2	2.76	0.54
26:BA:2647:U:O2'	26:BA:2648:G:H5'	2.07	0.54
27:BC:195:GLY:O	27:BC:196:ASN:O	2.25	0.54
29:BE:108:ILE:HD12	36:BL:2:ARG:HH12	1.71	0.54
29:BE:128:ALA:HB1	29:BE:129:PRO:CD	2.38	0.54
30:BF:90:LEU:C	30:BF:95:MET:HB2	2.32	0.54
32:BH:59:ALA:HA	32:BH:62:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:76:GLU:HG2	32:BH:143:ILE:HD12	1.90	0.54
32:BH:129:GLU:HA	32:BH:142:VAL:O	2.06	0.54
33:BI:96:LYS:HA	33:BI:96:LYS:HE3	1.90	0.54
49:BY:28:LEU:O	49:BY:29:ARG:C	2.49	0.54
52:B1:10:LEU:HA	52:B1:49:LYS:O	2.08	0.54
1:AA:374:A:O4'	1:AA:481:G:N2	2.41	0.54
1:AA:622:A:C8	1:AA:623:C:C5	2.96	0.54
1:AA:955:U:C5	1:AA:956:U:C5	2.95	0.54
1:AA:1077:G:N1	1:AA:1081:A:C5	2.76	0.54
2:AB:193:ASP:C	2:AB:195:VAL:H	2.15	0.54
2:AB:206:ILE:HG12	2:AB:207:ARG:N	2.23	0.54
4:AD:57:LYS:HG2	4:AD:202:LEU:HD22	1.90	0.54
4:AD:146:GLU:HA	4:AD:149:LYS:HD2	1.89	0.54
11:AK:30:ILE:CB	11:AK:45:THR:HG22	2.37	0.54
17:AQ:45:VAL:HG11	17:AQ:60:ILE:CG1	2.38	0.54
21:AU:25:ALA:O	21:AU:26:GLY:C	2.50	0.54
22:AV:63:C:C2	22:AV:73:A:N3	2.76	0.54
22:AV:65:U:H1'	22:AV:71:A:C2	2.42	0.54
22:AV:133:A:C2'	22:AV:134:G:O5'	2.55	0.54
22:AV:151:C:O2'	22:AV:152:C:H5'	2.08	0.54
22:AV:220:G:O2'	22:AV:221:U:H5'	2.08	0.54
22:AV:238:A:N3	22:AV:239:A:N7	2.55	0.54
23:AW:63:TYR:HE2	23:AW:65:LYS:HG3	1.72	0.54
25:AY:86:GLY:O	25:AY:88:VAL:N	2.37	0.54
26:BA:192:C:O2'	26:BA:802:A:N3	2.35	0.54
26:BA:880:G:N2	26:BA:898:C:C4	2.76	0.54
26:BA:1379:U:C6	26:BA:1379:U:OP1	2.61	0.54
26:BA:1669:A:H5"	26:BA:1670:C:OP2	2.08	0.54
26:BA:1783:A:H5'	26:BA:2608:G:H4'	1.88	0.54
26:BA:2298:A:C2'	26:BA:2299:U:H5'	2.38	0.54
26:BA:2571:U:O2'	28:BD:151:THR:CG2	2.55	0.54
26:BA:2619:C:OP1	28:BD:157:LYS:HE2	2.06	0.54
26:BA:2723:C:H2'	26:BA:2724:U:O5'	2.08	0.54
27:BC:72:GLY:HA2	27:BC:116:GLN:HE21	1.73	0.54
27:BC:123:ILE:HG22	27:BC:123:ILE:O	2.06	0.54
28:BD:28:GLU:OE2	28:BD:30:GLU:HG3	2.08	0.54
29:BE:108:ILE:HD12	29:BE:108:ILE:O	2.08	0.54
31:BG:8:VAL:HG12	31:BG:49:LEU:HB2	1.88	0.54
33:BI:57:VAL:CG1	33:BI:58:ILE:N	2.71	0.54
33:BI:59:THR:HG22	33:BI:61:TYR:CZ	2.43	0.54
47:BW:37:ARG:O	47:BW:53:HIS:ND1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B3:15:LYS:HG3	54:B3:16:THR:N	2.21	0.54
56:BB:30:C:H2'	56:BB:31:C:H5'	1.88	0.54
1:AA:109:A:C6	1:AA:326:G:C6	2.95	0.54
1:AA:160:A:H1'	1:AA:344:A:C5	2.42	0.54
1:AA:193:C:O4'	20:AT:54:GLN:OE1	2.26	0.54
1:AA:451:A:OP2	16:AP:70:ARG:NH2	2.41	0.54
1:AA:464:U:N3	1:AA:466:A:C5'	2.71	0.54
1:AA:570:G:H1'	1:AA:820:U:C4	2.42	0.54
1:AA:939:G:C6	1:AA:940:C:C4	2.96	0.54
1:AA:1202:U:H2'	1:AA:1203:C:O4'	2.07	0.54
1:AA:1234:C:C2'	1:AA:1235:U:H5'	2.38	0.54
1:AA:1446:A:H2'	1:AA:1447:A:H5'	1.89	0.54
2:AB:67:LEU:HB3	2:AB:160:LEU:HD23	1.90	0.54
2:AB:90:PHE:N	2:AB:149:GLY:HA3	2.23	0.54
3:AC:21:TRP:CD1	3:AC:58:ARG:HD3	2.42	0.54
3:AC:54:ILE:HD12	3:AC:54:ILE:C	2.32	0.54
3:AC:72:PRO:HG3	3:AC:104:GLU:HB2	1.89	0.54
3:AC:142:ARG:HH11	3:AC:142:ARG:HG3	1.68	0.54
4:AD:2:ARG:NE	4:AD:114:ARG:HD3	2.23	0.54
5:AE:106:ALA:O	5:AE:111:ARG:NH2	2.41	0.54
6:AF:10:VAL:HG13	6:AF:11:HIS:N	2.23	0.54
6:AF:43:GLY:HA2	6:AF:58:HIS:NE2	2.22	0.54
7:AG:55:LYS:O	7:AG:60:ALA:HB2	2.08	0.54
8:AH:46:GLU:O	8:AH:47:ASP:CB	2.54	0.54
22:AV:38:A:C4'	22:AV:39:A:OP1	2.28	0.54
22:AV:65:U:O2'	22:AV:66:C:H5'	2.07	0.54
22:AV:68:U:C5	22:AV:302:A:O2'	2.61	0.54
22:AV:186:A:H2'	22:AV:187:C:O5'	2.06	0.54
22:AV:269:C:C5	22:AV:270:C:C5	2.96	0.54
22:AV:356:C:H2'	22:AV:357:U:O4'	2.08	0.54
23:AW:14:TYR:CD2	23:AW:14:TYR:N	2.75	0.54
24:AX:3:C:C4	24:AX:4:G:N7	2.76	0.54
25:AY:238:THR:HG23	25:AY:241:GLU:H	1.72	0.54
25:AY:634:MET:CG	26:BA:1068:G:O2'	2.55	0.54
26:BA:31:C:C2'	26:BA:32:C:H5'	2.38	0.54
26:BA:900:A:C4'	26:BA:901:C:OP2	2.55	0.54
26:BA:1893:C:C2'	26:BA:1894:C:H5'	2.38	0.54
26:BA:2163:A:H3'	26:BA:2164:C:H4'	1.89	0.54
26:BA:2318:G:C6	26:BA:2319:G:C6	2.95	0.54
27:BC:24:HIS:CD2	27:BC:79:ARG:CZ	2.91	0.54
1:AA:93:U:H2'	1:AA:94:G:C5'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:300:A:H1'	1:AA:565:U:O2	2.08	0.54
1:AA:458:U:H2'	1:AA:459:A:C8	2.43	0.54
1:AA:542:G:C2	1:AA:543:U:C4	2.96	0.54
1:AA:1077:G:C2'	1:AA:1080:A:N6	2.71	0.54
1:AA:1142:G:N2	1:AA:1143:G:H1'	2.20	0.54
1:AA:1205:U:O2	1:AA:1205:U:H2'	2.07	0.54
1:AA:1323:G:C2	1:AA:1324:A:C4	2.95	0.54
2:AB:65:LYS:O	2:AB:158:ASP:HB2	2.08	0.54
2:AB:205:ALA:O	2:AB:207:ARG:N	2.40	0.54
3:AC:70:ALA:HB2	3:AC:105:VAL:HB	1.90	0.54
5:AE:105:ILE:HD11	5:AE:123:LEU:HB3	1.89	0.54
8:AH:65:PHE:C	8:AH:65:PHE:CD1	2.82	0.54
10:AJ:42:LEU:HB3	10:AJ:71:LEU:HB3	1.90	0.54
16:AP:42:ILE:HG22	16:AP:42:ILE:O	2.08	0.54
22:AV:21:C:C2'	22:AV:22:G:C5'	2.85	0.54
22:AV:34:A:H4'	22:AV:323:A:H1'	1.90	0.54
22:AV:41:G:H2'	22:AV:42:U:H6	1.72	0.54
22:AV:297:G:H2'	22:AV:298:A:H8	1.73	0.54
24:AX:69:C:O2	24:AX:69:C:H2'	2.08	0.54
26:BA:45:G:C4'	26:BA:46:G:H5'	2.36	0.54
26:BA:301:G:C4	26:BA:302:C:C5	2.96	0.54
26:BA:898:C:O2	26:BA:898:C:C2'	2.56	0.54
26:BA:1480:C:H2'	26:BA:1481:U:O4'	2.08	0.54
26:BA:1889:A:H1'	26:BA:2086:U:O2'	2.08	0.54
26:BA:2076:U:O4'	26:BA:2076:U:O2	2.24	0.54
26:BA:2143:C:H2'	26:BA:2144:G:C8	2.43	0.54
26:BA:2194:U:H2'	26:BA:2195:U:H6	1.72	0.54
26:BA:2276:G:H2'	26:BA:2277:G:H5'	1.89	0.54
26:BA:2660:A:N1	26:BA:2661:G:C4	2.76	0.54
26:BA:2751:G:C4	31:BG:2:ARG:HD2	2.42	0.54
28:BD:38:LYS:HB3	28:BD:43:ASP:CB	2.38	0.54
29:BE:7:ASP:C	29:BE:9:GLN:N	2.65	0.54
30:BF:69:ALA:HA	30:BF:84:ILE:HG21	1.89	0.54
34:BJ:65:THR:O	34:BJ:68:LYS:HG3	2.07	0.54
34:BJ:77:HIS:CD2	34:BJ:79:GLY:HA2	2.43	0.54
37:BM:113:ALA:O	37:BM:115:GLU:N	2.40	0.54
1:AA:20:U:C2'	1:AA:21:G:H5'	2.38	0.54
1:AA:382:A:H2'	1:AA:383:A:C8	2.42	0.54
1:AA:428:G:H4'	1:AA:429:U:OP1	2.07	0.54
1:AA:827:U:H5"	1:AA:828:U:OP2	2.08	0.54
1:AA:1167:A:N7	1:AA:1169:A:C6	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1341:U:O2'	1:AA:1342:C:H5'	2.08	0.54
1:AA:1391:U:C2'	1:AA:1392:G:H5'	2.38	0.54
2:AB:34:ARG:NE	2:AB:34:ARG:CA	2.71	0.54
2:AB:159:ALA:HA	2:AB:181:PRO:HD2	1.89	0.54
3:AC:56:ILE:HG12	3:AC:65:VAL:HG22	1.90	0.54
6:AF:71:ILE:HG13	6:AF:72:ASP:N	2.23	0.54
8:AH:52:GLY:HA3	8:AH:56:PRO:CA	2.35	0.54
10:AJ:100:ILE:HG13	10:AJ:101:SER:N	2.22	0.54
11:AK:111:ASP:O	21:AU:3:ILE:HG22	2.07	0.54
22:AV:25:A:C4	22:AV:26:U:C5	2.95	0.54
22:AV:68:U:C2	22:AV:303:G:H5'	2.42	0.54
22:AV:132:U:C2	22:AV:133:A:C8	2.95	0.54
22:AV:136:G:H2'	22:AV:137:C:O5'	2.07	0.54
22:AV:168:G:H2'	22:AV:169:G:C8	2.39	0.54
22:AV:191:A:H2'	22:AV:192:A:C4'	2.38	0.54
24:AX:33:C:C2'	24:AX:34:U:H5'	2.32	0.54
26:BA:887:U:C2'	26:BA:888:C:H5'	2.28	0.54
26:BA:894:U:O2	26:BA:895:U:O4'	2.25	0.54
26:BA:1452:G:O2'	26:BA:1453:A:OP1	2.25	0.54
26:BA:1626:A:H8	26:BA:1626:A:OP2	1.91	0.54
26:BA:1744:A:H3'	26:BA:1745:A:H8	1.72	0.54
26:BA:1881:C:C4	26:BA:1882:U:C5	2.95	0.54
26:BA:2145:C:H6	26:BA:2145:C:H3'	1.73	0.54
26:BA:2156:G:H3'	26:BA:2157:G:C8	2.43	0.54
27:BC:166:ARG:CZ	27:BC:166:ARG:HB2	2.38	0.54
30:BF:80:GLN:CD	30:BF:81:GLY:N	2.65	0.54
32:BH:9:VAL:O	32:BH:10:ALA:O	2.25	0.54
32:BH:100:ALA:O	32:BH:104:THR:HG23	2.08	0.54
32:BH:135:HIS:HD2	32:BH:138:VAL:HG23	1.73	0.54
39:BO:30:ARG:HG2	39:BO:31:THR:N	2.22	0.54
39:BO:56:LYS:O	39:BO:57:ALA:C	2.50	0.54
41:BQ:25:GLY:O	41:BQ:26:ALA:C	2.51	0.54
45:BU:82:VAL:HG12	45:BU:83:GLY:N	2.22	0.54
56:BB:39:A:C2	56:BB:44:G:C2	2.96	0.54
1:AA:257:G:N2	1:AA:258:G:C4	2.76	0.53
1:AA:429:U:O2	1:AA:430:A:H5"	2.07	0.53
1:AA:437:U:N3	1:AA:438:U:C5	2.76	0.53
1:AA:452:A:N6	1:AA:480:U:H3	2.05	0.53
1:AA:649:A:H2'	1:AA:650:G:H5"	1.89	0.53
1:AA:1246:A:C2	1:AA:1247:U:C2	2.97	0.53
1:AA:1305:G:H2'	1:AA:1331:G:N2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1430:A:OP2	1:AA:1430:A:C8	2.61	0.53
2:AB:53:LEU:HD11	2:AB:216:VAL:HG22	1.90	0.53
2:AB:54:ALA:O	2:AB:58:LYS:HB2	2.07	0.53
3:AC:57:GLU:HG3	3:AC:64:ARG:CB	2.38	0.53
3:AC:174:LEU:O	3:AC:174:LEU:HD12	2.08	0.53
4:AD:16:THR:HG22	4:AD:17:ASP:O	2.07	0.53
4:AD:47:LEU:HD23	4:AD:47:LEU:O	2.08	0.53
5:AE:71:ILE:HG21	5:AE:144:GLU:HB2	1.90	0.53
10:AJ:18:ILE:HG12	10:AJ:72:ARG:HG3	1.90	0.53
12:AL:87:LYS:O	12:AL:87:LYS:HG3	2.07	0.53
14:AN:6:LYS:HD3	14:AN:6:LYS:H	1.73	0.53
15:AO:18:ALA:O	15:AO:19:ASN:HB2	2.07	0.53
19:AS:80:ARG:HA	19:AS:80:ARG:HE	1.73	0.53
20:AT:82:ILE:HG13	20:AT:83:ASN:H	1.72	0.53
22:AV:13:G:O2'	22:AV:14:G:P	2.66	0.53
22:AV:63:C:C2	22:AV:73:A:C4	2.96	0.53
22:AV:125:A:N7	22:AV:126:C:C2	2.76	0.53
22:AV:343:C:OP1	30:BF:79:ARG:C	2.50	0.53
25:AY:238:THR:HG23	25:AY:240:GLU:H	1.73	0.53
25:AY:524:GLU:O	25:AY:565:VAL:N	2.32	0.53
25:AY:608:VAL:HG13	25:AY:670:VAL:O	2.08	0.53
26:BA:559:G:C2'	26:BA:560:C:H5'	2.38	0.53
26:BA:864:G:O2'	26:BA:865:C:H5'	2.08	0.53
26:BA:911:A:H2'	37:BM:9:PHE:HZ	1.73	0.53
26:BA:995:C:O2'	26:BA:996:A:P	2.66	0.53
26:BA:1499:C:C4	26:BA:1500:G:N7	2.77	0.53
26:BA:1595:C:C2'	26:BA:1595:C:O2	2.53	0.53
26:BA:1851:U:H2'	26:BA:1852:U:O5'	2.07	0.53
26:BA:2685:G:OP1	35:BK:78:ARG:NH2	2.41	0.53
30:BF:69:ALA:HA	30:BF:84:ILE:CG2	2.38	0.53
39:BO:3:LYS:HE3	56:BB:47:C:OP2	2.08	0.53
40:BP:96:LEU:HD23	40:BP:96:LEU:N	2.23	0.53
41:BQ:20:ALA:HB2	41:BQ:38:VAL:HG23	1.90	0.53
1:AA:175:C:C2'	1:AA:176:C:H5'	2.37	0.53
1:AA:437:U:H2'	1:AA:438:U:H5'	1.89	0.53
1:AA:491:G:N3	1:AA:491:G:H2'	2.23	0.53
1:AA:505:G:H5'	1:AA:534:U:H2'	1.90	0.53
1:AA:587:G:H4'	8:AH:3:GLN:CA	2.34	0.53
1:AA:850:U:H2'	1:AA:851:G:H5"	1.90	0.53
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.44	0.53
1:AA:1266:G:N1	1:AA:1270:G:C6	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1322:C:O2	1:AA:1322:C:O4'	2.19	0.53
1:AA:1338:G:C6	1:AA:1339:A:N6	2.77	0.53
1:AA:1392:G:O2'	1:AA:1393:U:C5'	2.52	0.53
1:AA:1400:C:H4'	1:AA:1401:G:OP2	2.09	0.53
3:AC:129:PHE:CZ	3:AC:130:ARG:HD2	2.43	0.53
4:AD:147:LYS:O	4:AD:148:ALA:C	2.49	0.53
4:AD:191:SER:OG	4:AD:192:ALA:N	2.42	0.53
5:AE:40:ASP:OD1	5:AE:40:ASP:C	2.51	0.53
5:AE:105:ILE:O	5:AE:105:ILE:HG13	2.08	0.53
7:AG:93:VAL:O	7:AG:96:ASN:OD1	2.26	0.53
8:AH:111:THR:O	8:AH:114:ALA:HB3	2.09	0.53
10:AJ:6:ILE:HD12	10:AJ:76:ILE:O	2.08	0.53
14:AN:87:ALA:HA	14:AN:90:ARG:HH12	1.72	0.53
17:AQ:51:GLU:N	17:AQ:51:GLU:OE1	2.42	0.53
19:AS:39:ILE:CD1	19:AS:70:LEU:HD22	2.38	0.53
20:AT:81:GLN:HA	20:AT:84:LYS:HG2	1.89	0.53
22:AV:8:A:N7	22:AV:334:A:C1'	2.68	0.53
22:AV:143:C:H3'	22:AV:144:U:C5'	2.37	0.53
23:AW:102:PRO:HA	23:AW:117:LEU:CD2	2.36	0.53
25:AY:177:ILE:O	25:AY:178:ILE:HD12	2.08	0.53
25:AY:684:GLN:O	25:AY:688:ILE:HD13	2.09	0.53
26:BA:1090:A:C6	26:BA:1091:G:N7	2.76	0.53
26:BA:1483:G:C4	26:BA:1484:U:C5	2.96	0.53
26:BA:2602:A:C4'	26:BA:2603:G:OP2	2.53	0.53
26:BA:2615:U:C2	51:B0:3:GLN:HA	2.43	0.53
26:BA:2870:C:C5	26:BA:2871:U:C5	2.96	0.53
30:BF:100:GLU:OE2	30:BF:104:THR:HG21	2.08	0.53
33:BI:33:ASN:HB2	33:BI:36:GLU:CG	2.33	0.53
37:BM:125:PRO:C	37:BM:126:ILE:HG23	2.33	0.53
39:BO:24:THR:HG22	39:BO:42:PRO:HG3	1.89	0.53
46:BV:2:PHE:HD1	46:BV:50:MET:CE	2.20	0.53
1:AA:85:U:H4'	1:AA:86:G:OP1	2.06	0.53
1:AA:956:U:O2	1:AA:1225:A:C2	2.61	0.53
1:AA:1222:G:C6	1:AA:1223:C:C4	2.95	0.53
1:AA:1271:A:OP1	1:AA:1314:C:H4'	2.08	0.53
1:AA:1425:U:C2'	1:AA:1426:G:H5'	2.38	0.53
2:AB:110:ILE:HD11	2:AB:147:LEU:CD2	2.37	0.53
3:AC:59:PRO:CB	10:AJ:94:ALA:HB1	2.38	0.53
3:AC:79:LYS:CD	22:AV:184:A:OP2	2.55	0.53
3:AC:106:ARG:O	3:AC:107:LYS:C	2.52	0.53
3:AC:109:GLU:HB2	3:AC:143:LEU:CD2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:159:GLU:HG2	4:AD:160:LEU:N	2.24	0.53
5:AE:71:ILE:HG23	5:AE:72:ASN:N	2.22	0.53
5:AE:75:LEU:HD21	5:AE:119:VAL:HG12	1.90	0.53
7:AG:45:ALA:HB1	7:AG:119:LEU:HB3	1.90	0.53
8:AH:24:VAL:O	8:AH:24:VAL:HG13	2.07	0.53
9:AI:46:VAL:CG2	9:AI:75:ALA:HB1	2.38	0.53
10:AJ:61:ALA:O	10:AJ:62:ARG:HB2	2.07	0.53
14:AN:73:PHE:HE1	14:AN:75:ARG:HA	1.73	0.53
22:AV:9:U:O2	22:AV:9:U:C2'	2.55	0.53
22:AV:44:C:C5	22:AV:300:U:H5	2.26	0.53
22:AV:64:C:O2	22:AV:72:A:C2	2.60	0.53
22:AV:163:G:N3	22:AV:164:G:H8	1.91	0.53
22:AV:175:A:H2'	22:AV:176:G:H8	1.72	0.53
22:AV:245:C:H5'	22:AV:248:G:C2	2.42	0.53
24:AX:15:G:H3'	24:AX:16:C:H5"	1.91	0.53
26:BA:347:A:H2'	26:BA:348:A:C8	2.43	0.53
26:BA:1096:A:H2'	26:BA:1097:U:O4'	2.07	0.53
26:BA:1180:U:H2'	26:BA:1181:U:O5'	2.08	0.53
26:BA:2592:G:C6	26:BA:2593:U:C4	2.96	0.53
27:BC:22:GLU:O	27:BC:22:GLU:HG3	2.09	0.53
32:BH:66:ASN:CG	32:BH:138:VAL:HG21	2.34	0.53
36:BL:104:GLN:HA	36:BL:104:GLN:OE1	2.09	0.53
41:BQ:60:TRP:O	41:BQ:61:ILE:C	2.51	0.53
54:B3:54:LEU:O	54:B3:55:GLY:C	2.50	0.53
1:AA:204:G:H1'	1:AA:465:A:C2	2.43	0.53
1:AA:240:G:OP1	1:AA:240:G:C4'	2.56	0.53
1:AA:303:A:H2'	1:AA:304:U:O4'	2.08	0.53
1:AA:589:U:H2'	1:AA:590:U:C6	2.43	0.53
1:AA:921:U:C1'	5:AE:23:THR:O	2.40	0.53
1:AA:988:G:C6	1:AA:989:U:N3	2.76	0.53
1:AA:1160:G:O2'	1:AA:1161:C:O5'	2.23	0.53
2:AB:24:PRO:C	2:AB:26:MET:H	2.16	0.53
2:AB:112:ARG:O	2:AB:115:ASP:O	2.27	0.53
3:AC:22:PHE:CD2	3:AC:22:PHE:C	2.85	0.53
3:AC:23:ALA:HB2	3:AC:31:ASN:ND2	2.23	0.53
3:AC:79:LYS:HE2	22:AV:184:A:O5'	2.04	0.53
3:AC:105:VAL:C	3:AC:106:ARG:O	2.51	0.53
3:AC:168:ARG:O	3:AC:168:ARG:NE	2.41	0.53
9:AI:56:MET:HA	9:AI:59:LYS:CB	2.38	0.53
14:AN:25:GLU:C	14:AN:28:ALA:H	2.15	0.53
21:AU:34:ARG:O	21:AU:35:GLU:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:65:U:O2	22:AV:71:A:N1	2.42	0.53
22:AV:136:G:N3	22:AV:137:C:C5	2.73	0.53
22:AV:183:C:O2'	22:AV:184:A:N9	2.40	0.53
22:AV:186:A:C2'	22:AV:187:C:O5'	2.56	0.53
22:AV:206:A:O3'	22:AV:207:A:C8	2.60	0.53
22:AV:210:C:H2'	22:AV:240:U:O4	2.06	0.53
22:AV:257:U:C1'	22:AV:258:G:C6	2.87	0.53
22:AV:269:C:N4	22:AV:270:C:C5	2.74	0.53
22:AV:296:U:N3	22:AV:297:G:C6	2.76	0.53
22:AV:311:U:O5'	22:AV:311:U:H6	1.90	0.53
23:AW:64:GLU:CG	26:BA:1910:G:OP1	2.56	0.53
23:AW:78:LYS:HG3	23:AW:79:LEU:H	1.72	0.53
24:AX:71:G:H22	26:BA:1851:U:C5'	2.20	0.53
25:AY:125:ALA:C	25:AY:127:LYS:N	2.66	0.53
26:BA:64:A:H2'	26:BA:65:U:C6	2.43	0.53
26:BA:188:G:H2'	26:BA:189:G:H5'	1.89	0.53
26:BA:250:G:OP2	54:B3:12:ARG:NH1	2.42	0.53
26:BA:285:G:C6	26:BA:286:U:C4	2.96	0.53
26:BA:301:G:OP2	45:BU:81:ARG:NH1	2.41	0.53
26:BA:550:C:H2'	26:BA:550:C:O2	2.08	0.53
26:BA:1073:A:H2'	26:BA:1074:G:H5"	1.91	0.53
26:BA:1730:C:O2'	26:BA:1731:G:C4	2.59	0.53
26:BA:2849:U:H4'	26:BA:2868:A:C2	2.43	0.53
27:BC:3:VAL:HB	27:BC:17:LYS:HB2	1.90	0.53
27:BC:10:PRO:O	27:BC:11:GLY:C	2.52	0.53
28:BD:13:ARG:O	28:BD:14:ILE:HD13	2.08	0.53
28:BD:96:ILE:CG2	28:BD:97:SER:N	2.71	0.53
30:BF:7:TYR:HA	30:BF:11:VAL:HG21	1.91	0.53
30:BF:68:LYS:HE2	56:BB:41:G:C6	2.41	0.53
30:BF:173:ASP:O	30:BF:174:PHE:C	2.51	0.53
37:BM:55:ARG:CG	37:BM:55:ARG:NH2	2.66	0.53
41:BQ:88:GLU:H	42:BR:49:ILE:CD1	2.21	0.53
42:BR:39:LEU:O	42:BR:40:MET:CB	2.57	0.53
44:BT:40:LYS:HE2	44:BT:60:THR:HG23	1.91	0.53
45:BU:87:GLU:O	45:BU:88:ASP:HB3	2.08	0.53
49:BY:5:GLU:C	49:BY:7:ARG:H	2.16	0.53
51:B0:54:ILE:O	51:B0:55:ALA:HB3	2.09	0.53
54:B3:16:THR:HG23	54:B3:20:GLY:C	2.33	0.53
1:AA:38:G:C2	1:AA:397:A:C2	2.96	0.53
1:AA:386:C:O2'	1:AA:387:U:H5'	2.09	0.53
1:AA:455:G:N2	1:AA:478:A:C2	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:510:A:H5”	1:AA:511:C:P	2.48	0.53
1:AA:533:A:C2	1:AA:536:C:C5	2.97	0.53
1:AA:938:A:N6	1:AA:939:G:C5	2.76	0.53
1:AA:1118:U:C5’	9:AI:105:ARG:HG3	2.38	0.53
1:AA:1202:U:H2’	1:AA:1203:C:H5’	1.91	0.53
1:AA:1429:A:H8	1:AA:1429:A:OP2	1.91	0.53
2:AB:32:GLY:O	2:AB:33:ALA:HB2	2.09	0.53
2:AB:53:LEU:CD1	2:AB:56:LEU:HD12	2.38	0.53
2:AB:63:LYS:HD3	2:AB:63:LYS:C	2.33	0.53
2:AB:63:LYS:C	2:AB:65:LYS:HE2	2.33	0.53
2:AB:89:PHE:CD2	2:AB:89:PHE:N	2.76	0.53
3:AC:64:ARG:O	3:AC:65:VAL:HB	2.07	0.53
5:AE:148:SER:O	5:AE:152:VAL:HG12	2.08	0.53
7:AG:103:ILE:O	7:AG:104:VAL:C	2.51	0.53
9:AI:34:LEU:HD21	9:AI:47:VAL:HG21	1.91	0.53
16:AP:5:ARG:HA	16:AP:68:SER:OG	2.08	0.53
16:AP:48:GLU:CG	16:AP:49:GLY:N	2.71	0.53
19:AS:10:ILE:HG13	19:AS:37:SER:HB3	1.91	0.53
21:AU:16:ARG:C	21:AU:18:PHE:H	2.15	0.53
22:AV:172:U:C5	22:AV:173:C:H5	2.26	0.53
22:AV:323:A:H8	22:AV:323:A:P	2.31	0.53
23:AW:3:PRO:C	23:AW:4:VAL:HG12	2.34	0.53
25:AY:446:THR:O	25:AY:448:GLN:N	2.41	0.53
26:BA:869:G:O2’	26:BA:870:U:O5’	2.27	0.53
26:BA:1060:U:H5’	26:BA:1062:G:H4’	1.91	0.53
26:BA:1409:U:H2’	26:BA:1410:G:O4’	2.08	0.53
26:BA:1902:C:H5”	27:BC:239:PHE:CE1	2.44	0.53
26:BA:2383:G:O2’	26:BA:2384:U:H5’	2.08	0.53
26:BA:2474:U:H5”	26:BA:2475:C:OP2	2.08	0.53
33:BI:102:ARG:N	33:BI:141:ASP:HA	2.21	0.53
34:BJ:80:HIS:HB3	34:BJ:81:ILE:CG2	2.34	0.53
37:BM:72:PRO:HB3	37:BM:92:TRP:CZ3	2.44	0.53
1:AA:16:A:H2’	1:AA:17:U:H5’	1.90	0.53
1:AA:118:U:O4	1:AA:288:A:H2’	2.09	0.53
1:AA:142:G:H3’	1:AA:143:A:C8	2.41	0.53
1:AA:379:C:C2’	1:AA:380:G:H5’	2.39	0.53
1:AA:805:C:C2’	1:AA:806:C:H5’	2.38	0.53
1:AA:1096:C:H2’	1:AA:1170:A:HO2’	1.67	0.53
1:AA:1216:A:N3	1:AA:1217:C:C5	2.77	0.53
1:AA:1239:A:H62	1:AA:1299:A:N6	2.07	0.53
1:AA:1386:G:H2’	1:AA:1387:G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1502:A:N7	1:AA:1504:G:N3	2.57	0.53
2:AB:49:PHE:CA	2:AB:212:TYR:OH	2.56	0.53
2:AB:80:LYS:HG3	2:AB:84:LEU:HD22	1.91	0.53
2:AB:89:PHE:HB3	2:AB:149:GLY:O	2.08	0.53
4:AD:61:ARG:HG3	4:AD:71:PHE:CD2	2.42	0.53
4:AD:75:TYR:CG	4:AD:203:TYR:HD1	2.26	0.53
4:AD:196:GLU:CD	4:AD:196:GLU:N	2.66	0.53
11:AK:81:LEU:N	11:AK:81:LEU:HD23	2.24	0.53
11:AK:86:LYS:HG3	11:AK:113:THR:HA	1.90	0.53
17:AQ:46:HIS:O	17:AQ:73:THR:HG23	2.08	0.53
21:AU:28:LEU:HD23	21:AU:28:LEU:C	2.33	0.53
22:AV:127:C:C2'	22:AV:128:U:H5'	2.38	0.53
22:AV:202:G:C6	22:AV:203:U:O4	2.62	0.53
22:AV:244:G:C2	22:AV:245:C:C2	2.96	0.53
22:AV:303:G:N3	22:AV:304:C:C6	2.76	0.53
23:AW:63:TYR:HB3	23:AW:67:SER:CB	2.38	0.53
23:AW:93:VAL:O	23:AW:98:LEU:CB	2.56	0.53
25:AY:164:MET:O	25:AY:165:GLN:HG2	2.09	0.53
25:AY:689:LYS:HG3	25:AY:690:GLY:N	2.23	0.53
26:BA:882:G:N3	26:BA:896:A:N6	2.56	0.53
26:BA:1246:A:C2'	26:BA:1247:A:O5'	2.57	0.53
26:BA:1558:C:H4'	26:BA:1559:U:O5'	2.08	0.53
26:BA:1563:U:H2'	26:BA:1564:C:C6	2.43	0.53
26:BA:1645:G:H5"	26:BA:1646:C:H5'	1.90	0.53
26:BA:2147:A:H2'	26:BA:2148:G:O4'	2.08	0.53
26:BA:2631:G:H2'	26:BA:2632:A:O5'	2.09	0.53
31:BG:87:GLN:C	31:BG:88:LEU:HD12	2.33	0.53
32:BH:117:LEU:HD21	32:BH:121:VAL:N	2.23	0.53
33:BI:56:VAL:HG23	33:BI:70:THR:HA	1.90	0.53
36:BL:77:ILE:HD11	36:BL:101:ILE:HG21	1.90	0.53
40:BP:30:TRP:CZ3	40:BP:39:LEU:HD13	2.43	0.53
1:AA:363:A:OP1	12:AL:30:ARG:HB3	2.09	0.53
1:AA:791:G:C6	1:AA:792:A:N7	2.76	0.53
1:AA:1079:G:C5	1:AA:1080:A:N1	2.67	0.53
1:AA:1102:A:O2'	2:AB:97:GLY:HA3	2.09	0.53
1:AA:1321:U:H3'	1:AA:1322:C:O2	2.08	0.53
3:AC:41:TYR:CE1	3:AC:89:VAL:HG21	2.44	0.53
4:AD:154:VAL:O	4:AD:158:LEU:HG	2.08	0.53
6:AF:3:HIS:HB2	6:AF:92:THR:HG23	1.89	0.53
6:AF:9:MET:HE1	18:AR:64:LEU:HD22	1.91	0.53
7:AG:99:ALA:O	7:AG:100:MET:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:15:ASN:O	8:AH:18:ALA:N	2.42	0.53
8:AH:100:ILE:HD11	8:AH:128:VAL:HG23	1.90	0.53
10:AJ:5:ARG:HG2	10:AJ:79:PRO:HG3	1.91	0.53
10:AJ:59:LYS:CE	10:AJ:59:LYS:N	2.72	0.53
10:AJ:65:TYR:HA	14:AN:98:LYS:HA	1.91	0.53
11:AK:91:GLY:O	11:AK:95:THR:CG2	2.54	0.53
11:AK:109:ILE:HG21	21:AU:16:ARG:HE	1.74	0.53
12:AL:2:THR:HG22	12:AL:4:ASN:HB2	1.90	0.53
13:AM:17:ALA:O	13:AM:20:SER:CB	2.57	0.53
13:AM:76:ILE:HG23	13:AM:80:MET:CE	2.39	0.53
20:AT:4:LYS:HE2	20:AT:4:LYS:C	2.34	0.53
22:AV:45:A:O2'	22:AV:312:A:C1'	2.57	0.53
22:AV:153:U:O5'	22:AV:153:U:H6	1.92	0.53
22:AV:165:A:C5'	22:AV:166:C:O4'	2.57	0.53
23:AW:41:PHE:HA	23:AW:44:SER:OG	2.09	0.53
24:AX:65:G:C2	24:AX:66:C:C2	2.97	0.53
25:AY:137:ASN:HD21	25:AY:263:ALA:H	1.55	0.53
25:AY:180:VAL:HG23	25:AY:216:LEU:CD1	2.37	0.53
25:AY:228:MET:O	25:AY:232:LEU:HD23	2.09	0.53
25:AY:580:MET:HE3	25:AY:584:ILE:CG1	2.39	0.53
25:AY:636:PRO:HD2	33:BI:23:VAL:HA	1.90	0.53
26:BA:158:U:H2'	26:BA:158:U:O2	2.07	0.53
26:BA:1084:A:H2'	26:BA:1085:A:C8	2.43	0.53
26:BA:1246:A:H2'	26:BA:1247:A:O5'	2.08	0.53
26:BA:1441:G:H2'	26:BA:1442:U:H6	1.72	0.53
26:BA:1445:G:H2'	26:BA:1446:C:C6	2.44	0.53
26:BA:1954:G:O2'	26:BA:1956:U:O4	2.19	0.53
26:BA:2091:C:O2'	48:BX:55:MET:HE3	2.08	0.53
26:BA:2141:G:C2	26:BA:2142:A:H1'	2.43	0.53
26:BA:2665:A:C2	26:BA:2666:C:C5	2.97	0.53
27:BC:28:PRO:HG2	27:BC:33:LEU:HD11	1.91	0.53
27:BC:124:LYS:CB	27:BC:125:PRO:HD2	2.39	0.53
30:BF:132:ARG:HA	30:BF:150:GLY:HA2	1.91	0.53
30:BF:171:ALA:C	30:BF:173:ASP:H	2.16	0.53
31:BG:75:VAL:O	31:BG:79:THR:HB	2.08	0.53
33:BI:10:LEU:HD12	33:BI:23:VAL:HG12	1.91	0.53
38:BN:74:GLU:HG2	38:BN:75:ILE:HD12	1.91	0.53
39:BO:76:LYS:O	39:BO:77:ALA:C	2.52	0.53
39:BO:93:ASP:C	39:BO:95:SER:H	2.16	0.53
41:BQ:86:SER:HB3	42:BR:51:VAL:HA	1.91	0.53
43:BS:89:ALA:O	43:BS:90:LYS:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BT:69:ARG:HA	44:BT:74:ILE:HA	1.91	0.53
46:BV:6:ALA:HB1	46:BV:40:ILE:CG2	2.38	0.53
51:B0:35:GLU:OE2	51:B0:45:ASP:HB2	2.08	0.53
1:AA:424:G:O2'	1:AA:425:G:H5'	2.08	0.53
1:AA:978:A:C1'	1:AA:1322:C:H5	2.22	0.53
1:AA:1098:C:O4'	1:AA:1169:A:C2	2.62	0.53
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.09	0.53
1:AA:1203:C:H4'	14:AN:67:THR:HG22	1.91	0.53
1:AA:1215:G:H2'	1:AA:1216:A:H5'	1.90	0.53
1:AA:1387:G:H2'	1:AA:1388:C:C6	2.44	0.53
1:AA:1472:U:O2'	1:AA:1473:G:H5'	2.09	0.53
1:AA:1504:G:H4'	1:AA:1505:G:C4	2.43	0.53
2:AB:53:LEU:HD11	2:AB:216:VAL:HA	1.89	0.53
2:AB:86:CYS:HB2	2:AB:88:GLN:NE2	2.24	0.53
2:AB:110:ILE:HD12	2:AB:147:LEU:HD13	1.90	0.53
2:AB:110:ILE:HG22	2:AB:111:LYS:N	2.22	0.53
2:AB:132:GLU:O	2:AB:136:ARG:HB2	2.08	0.53
2:AB:193:ASP:C	2:AB:195:VAL:N	2.66	0.53
3:AC:35:ASP:OD1	3:AC:58:ARG:NH1	2.42	0.53
5:AE:55:VAL:HB	5:AE:56:PRO:CD	2.39	0.53
5:AE:102:THR:HG22	5:AE:103:GLY:H	1.74	0.53
7:AG:21:LEU:HD11	7:AG:61:PHE:HZ	1.73	0.53
7:AG:70:PRO:HG3	7:AG:102:TRP:CH2	2.43	0.53
9:AI:46:VAL:HA	9:AI:49:GLN:HG3	1.91	0.53
12:AL:32:VAL:HG12	12:AL:78:VAL:HG22	1.90	0.53
13:AM:85:TYR:HA	13:AM:88:LEU:HD12	1.91	0.53
16:AP:18:GLN:HG3	16:AP:35:ARG:HD2	1.90	0.53
22:AV:15:A:N1	22:AV:346:C:H5	2.06	0.53
22:AV:63:C:C6	22:AV:73:A:C2	2.97	0.53
22:AV:158:U:O2'	22:AV:159:C:H5'	2.09	0.53
22:AV:164:G:P	22:AV:165:A:OP2	2.66	0.53
22:AV:165:A:C5'	22:AV:166:C:C1'	2.83	0.53
22:AV:198:U:H6	22:AV:198:U:O5'	1.91	0.53
22:AV:295:C:H2'	22:AV:296:U:C6	2.43	0.53
24:AX:28:U:OP1	24:AX:28:U:O4'	2.26	0.53
24:AX:52:C:O5'	24:AX:52:C:H6	1.90	0.53
25:AY:186:TYR:HA	25:AY:198:GLU:HA	1.90	0.53
25:AY:498:ILE:HG22	25:AY:507:TYR:CD2	2.43	0.53
26:BA:120:U:H5"	26:BA:122:G:OP2	2.08	0.53
26:BA:178:G:C2'	26:BA:179:C:H5'	2.39	0.53
26:BA:247:G:C8	26:BA:249:C:C5	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:301:G:H1'	26:BA:302:C:C6	2.44	0.53
26:BA:1319:C:O2'	26:BA:1320:C:H5'	2.08	0.53
26:BA:1485:U:N3	26:BA:1505:A:C2	2.77	0.53
26:BA:1838:C:N4	26:BA:1899:A:C4	2.76	0.53
26:BA:2886:A:C4	26:BA:2887:A:C8	2.97	0.53
27:BC:140:VAL:HG11	27:BC:189:ALA:HB1	1.89	0.53
29:BE:23:PHE:HB2	29:BE:111:GLU:HG2	1.90	0.53
30:BF:56:LEU:HD13	30:BF:64:PRO:HB3	1.91	0.53
33:BI:33:ASN:C	33:BI:35:MET:H	2.16	0.53
33:BI:59:THR:HG22	33:BI:61:TYR:OH	2.09	0.53
33:BI:121:ILE:HG23	33:BI:124:MET:SD	2.48	0.53
38:BN:103:ARG:CZ	38:BN:110:MET:HE2	2.39	0.53
42:BR:42:ALA:CA	42:BR:46:GLU:HB2	2.31	0.53
54:B3:31:ILE:O	54:B3:35:LYS:HE3	2.08	0.53
56:BB:64:G:C5	56:BB:65:U:C4	2.96	0.53
56:BB:102:G:O2'	56:BB:103:U:H5'	2.09	0.53
1:AA:71:A:O2'	1:AA:72:A:H5"	2.09	0.53
1:AA:259:G:N2	1:AA:260:G:H1'	2.23	0.53
1:AA:274:A:C5'	17:AQ:15:LYS:CE	2.87	0.53
1:AA:895:G:H2'	1:AA:896:C:C6	2.44	0.53
1:AA:1211:U:H1'	1:AA:1213:A:C2	2.44	0.53
2:AB:20:ARG:O	2:AB:22:TRP:CD1	2.62	0.53
4:AD:150:LYS:CB	4:AD:177:MET:HE1	2.39	0.53
6:AF:93:LYS:O	6:AF:94:HIS:HB2	2.08	0.53
8:AH:15:ASN:O	8:AH:16:GLY:C	2.52	0.53
9:AI:85:ALA:C	9:AI:87:MET:N	2.64	0.53
11:AK:30:ILE:HD12	11:AK:31:VAL:N	2.24	0.53
13:AM:44:ILE:N	13:AM:44:ILE:CD1	2.72	0.53
15:AO:45:HIS:C	15:AO:47:LYS:H	2.17	0.53
22:AV:62:G:C4	22:AV:63:C:N4	2.77	0.53
22:AV:63:C:C3'	22:AV:64:C:H5'	2.38	0.53
22:AV:66:C:O5'	22:AV:66:C:H6	1.91	0.53
22:AV:144:U:O4	22:AV:176:G:C6	2.61	0.53
22:AV:150:G:N2	22:AV:151:C:N1	2.57	0.53
22:AV:223:G:N3	22:AV:223:G:C2'	2.70	0.53
22:AV:225:A:C6	22:AV:226:G:C5	2.97	0.53
23:AW:98:LEU:CG	23:AW:119:LEU:HB3	2.39	0.53
25:AY:121:VAL:HA	25:AY:124:GLN:HE22	1.72	0.53
25:AY:507:TYR:C	25:AY:507:TYR:CD1	2.86	0.53
25:AY:530:VAL:HG22	25:AY:531:GLY:H	1.73	0.53
25:AY:637:ARG:O	25:AY:638:GLY:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:11:C:H2'	26:BA:12:U:H5'	1.91	0.53
26:BA:213:A:C2	26:BA:214:G:C4	2.96	0.53
26:BA:772:C:C2'	26:BA:773:U:O5'	2.56	0.53
26:BA:892:A:N3	26:BA:893:C:C6	2.77	0.53
26:BA:896:A:O4'	26:BA:897:C:OP1	2.27	0.53
26:BA:1121:C:H2'	26:BA:1122:G:O5'	2.09	0.53
26:BA:1820:U:OP1	27:BC:176:ARG:NH2	2.42	0.53
26:BA:2094:A:H5"	32:BH:25:TYR:CE2	2.43	0.53
26:BA:2114:A:C5	26:BA:2167:U:H5'	2.44	0.53
26:BA:2748:A:C2	26:BA:2757:A:C4	2.96	0.53
26:BA:2870:C:C2'	26:BA:2871:U:H5'	2.39	0.53
27:BC:128:THR:C	27:BC:129:LEU:HD23	2.34	0.53
31:BG:51:PHE:CE2	31:BG:68:ARG:HA	2.44	0.53
32:BH:46:PHE:HD2	32:BH:47:PHE:N	2.07	0.53
46:BV:80:HIS:CD2	46:BV:81:PRO:HD2	2.44	0.53
56:BB:30:C:C2'	56:BB:31:C:H5'	2.39	0.53
1:AA:9:G:O2'	1:AA:10:A:H5'	2.08	0.53
1:AA:11:G:C6	1:AA:12:U:C4	2.97	0.53
1:AA:103:U:C2	1:AA:104:G:C8	2.97	0.53
1:AA:138:G:O2'	1:AA:139:A:H5'	2.09	0.53
1:AA:198:G:N3	1:AA:199:A:C8	2.77	0.53
1:AA:374:A:C6	1:AA:375:U:C4	2.97	0.53
1:AA:689:C:H2'	1:AA:690:G:C8	2.44	0.53
1:AA:763:G:C2'	1:AA:764:C:O5'	2.57	0.53
1:AA:1215:G:N2	1:AA:1216:A:C1'	2.72	0.53
1:AA:1216:A:N1	1:AA:1217:C:C4	2.77	0.53
1:AA:1247:U:O2'	1:AA:1248:A:H5'	2.08	0.53
1:AA:1338:G:C5	1:AA:1339:A:C6	2.96	0.53
1:AA:1339:A:H2	24:AX:32:G:C4'	2.11	0.53
1:AA:1341:U:HO2'	1:AA:1342:C:H6	1.56	0.53
1:AA:1380:U:O4	7:AG:2:ARG:HD3	2.09	0.53
1:AA:1411:C:C2'	1:AA:1412:C:C5'	2.84	0.53
8:AH:46:GLU:N	8:AH:63:LYS:CG	2.72	0.53
10:AJ:16:ARG:O	10:AJ:16:ARG:HG3	2.09	0.53
11:AK:30:ILE:HD12	11:AK:30:ILE:C	2.34	0.53
11:AK:125:LYS:C	21:AU:33:ARG:NH2	2.67	0.53
16:AP:39:PHE:CG	16:AP:74:LEU:HD11	2.44	0.53
18:AR:48:ALA:O	18:AR:49:LYS:C	2.52	0.53
21:AU:3:ILE:HD13	21:AU:19:LYS:HE3	1.90	0.53
22:AV:39:A:N7	22:AV:40:G:C5	2.77	0.53
22:AV:44:C:N3	22:AV:263:G:H21	1.31	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:38:LYS:CG	26:BA:1910:G:O3'	2.29	0.53
24:AX:50:G:N2	24:AX:51:U:C1'	2.72	0.53
25:AY:28:THR:O	25:AY:32:ILE:HG13	2.09	0.53
25:AY:125:ALA:C	25:AY:127:LYS:H	2.17	0.53
25:AY:411:VAL:CG1	25:AY:412:ALA:N	2.71	0.53
25:AY:486:THR:HG23	25:AY:600:VAL:CG1	2.38	0.53
26:BA:309:A:H4'	45:BU:15:GLY:HA2	1.91	0.53
26:BA:869:G:C2'	26:BA:870:U:O5'	2.57	0.53
26:BA:882:G:C2	26:BA:895:U:O2	2.60	0.53
26:BA:1078:U:H1'	26:BA:1088:A:N1	2.24	0.53
26:BA:1100:C:H2'	26:BA:1101:U:C6	2.43	0.53
26:BA:1141:U:OP2	34:BJ:65:THR:HG21	2.09	0.53
26:BA:1869:G:C6	26:BA:1871:A:OP2	2.61	0.53
26:BA:2128:G:C2'	26:BA:2129:C:H5'	2.38	0.53
26:BA:2303:G:C5	26:BA:2304:G:N7	2.76	0.53
26:BA:2784:U:H2'	26:BA:2785:C:C6	2.44	0.53
29:BE:192:ALA:O	29:BE:193:VAL:C	2.52	0.53
31:BG:130:ILE:HG22	31:BG:131:VAL:H	1.73	0.53
31:BG:130:ILE:HG22	31:BG:131:VAL:N	2.24	0.53
41:BQ:98:ALA:HB2	41:BQ:105:PHE:CD2	2.44	0.53
54:B3:44:ARG:HH11	54:B3:44:ARG:HG3	1.74	0.53
1:AA:44:A:H2'	1:AA:45:G:H5'	1.91	0.52
1:AA:1077:G:C2'	1:AA:1080:A:H61	2.21	0.52
1:AA:1082:A:O2'	1:AA:1083:U:H5'	2.10	0.52
1:AA:1118:U:H5'	9:AI:105:ARG:HG3	1.91	0.52
1:AA:1259:C:H6	1:AA:1259:C:O5'	1.91	0.52
1:AA:1285:A:H5'	1:AA:1286:U:C4	2.44	0.52
1:AA:1399:C:O2	1:AA:1502:A:C6	2.61	0.52
2:AB:209:VAL:HG23	2:AB:210:THR:H	1.74	0.52
3:AC:84:GLU:HG3	3:AC:85:LYS:N	2.23	0.52
4:AD:33:ILE:HG12	4:AD:34:GLU:HB2	1.91	0.52
4:AD:61:ARG:HG2	4:AD:71:PHE:HD2	1.71	0.52
6:AF:47:LEU:HD12	6:AF:55:HIS:HA	1.90	0.52
7:AG:91:ARG:HE	7:AG:93:VAL:HG23	1.74	0.52
9:AI:20:ILE:HG21	9:AI:60:LEU:HD12	1.90	0.52
9:AI:83:THR:HB	9:AI:97:LEU:CD2	2.38	0.52
10:AJ:29:ALA:HA	10:AJ:32:THR:CG2	2.34	0.52
11:AK:15:VAL:HG22	11:AK:16:SER:N	2.24	0.52
11:AK:82:GLU:HG3	11:AK:108:ASN:ND2	2.24	0.52
12:AL:101:LEU:N	12:AL:101:LEU:CD1	2.72	0.52
17:AQ:13:SER:HB2	17:AQ:21:VAL:CG1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:8:LYS:O	20:AT:9:ARG:C	2.50	0.52
20:AT:65:LEU:O	20:AT:65:LEU:HD12	2.09	0.52
20:AT:77:ASN:O	20:AT:81:GLN:HG2	2.10	0.52
22:AV:19:G:H1	23:AW:22:ALA:HA	1.72	0.52
22:AV:38:A:C2	22:AV:316:A:C2	2.97	0.52
22:AV:63:C:C6	22:AV:73:A:N1	2.77	0.52
23:AW:93:VAL:O	23:AW:98:LEU:HB2	2.08	0.52
25:AY:12:LEU:HB3	25:AY:283:PRO:CG	2.39	0.52
25:AY:607:ARG:O	25:AY:671:MET:HA	2.09	0.52
26:BA:978:G:O2'	26:BA:979:A:H5'	2.08	0.52
26:BA:1079:C:H2'	26:BA:1080:A:H8	1.73	0.52
26:BA:1829:A:H2'	26:BA:1830:C:H5'	1.91	0.52
26:BA:2218:G:C6	26:BA:2219:U:C4	2.96	0.52
27:BC:235:GLU:HA	27:BC:235:GLU:OE1	2.09	0.52
29:BE:177:PRO:O	29:BE:178:VAL:C	2.51	0.52
32:BH:34:GLY:O	32:BH:35:LYS:CG	2.57	0.52
33:BI:14:ALA:HB1	33:BI:45:THR:HG23	1.92	0.52
35:BK:109:SER:O	35:BK:111:LYS:N	2.42	0.52
44:BT:2:ILE:HG22	44:BT:2:ILE:O	2.10	0.52
46:BV:8:VAL:HG12	46:BV:65:VAL:HG21	1.91	0.52
1:AA:81:A:H2'	1:AA:82:G:H5'	1.90	0.52
1:AA:233:C:H2'	1:AA:234:C:H6	1.75	0.52
1:AA:525:C:H2'	1:AA:526:C:C6	2.44	0.52
1:AA:549:C:H2'	1:AA:550:G:O5'	2.08	0.52
1:AA:989:U:H2'	1:AA:990:C:H6	1.74	0.52
1:AA:1239:A:C2	1:AA:1241:G:N1	2.77	0.52
1:AA:1341:U:C2	1:AA:1342:C:H5	2.26	0.52
2:AB:122:ASP:O	2:AB:123:GLY:O	2.27	0.52
5:AE:104:ILE:HD12	5:AE:122:VAL:CG2	2.39	0.52
7:AG:110:ARG:HD2	7:AG:122:GLU:HG2	1.92	0.52
9:AI:43:ALA:C	9:AI:45:MET:H	2.17	0.52
10:AJ:56:HIS:O	10:AJ:57:VAL:O	2.27	0.52
13:AM:94:LEU:HB3	13:AM:95:PRO:CD	2.38	0.52
17:AQ:16:MET:C	17:AQ:19:SER:HB3	2.34	0.52
19:AS:39:ILE:HG12	19:AS:70:LEU:CD2	2.38	0.52
22:AV:58:G:C4	22:AV:59:U:C5	2.96	0.52
22:AV:60:U:O4	22:AV:63:C:C5	2.62	0.52
22:AV:133:A:N3	22:AV:134:G:C8	2.77	0.52
22:AV:362:C:H6	22:AV:362:C:H3'	1.73	0.52
24:AX:49:C:C5'	24:AX:50:G:H5"	2.39	0.52
25:AY:90:PHE:CG	25:AY:90:PHE:O	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:71:A:H5”	26:BA:72:U:H2’	1.92	0.52
26:BA:887:U:C5	26:BA:888:C:C5	2.98	0.52
26:BA:1372:U:C2’	26:BA:1373:A:H5’	2.39	0.52
26:BA:1673:G:H2’	26:BA:1674:G:H5’	1.90	0.52
26:BA:2287:A:N3	26:BA:2287:A:H2’	2.24	0.52
26:BA:2522:U:C2’	26:BA:2523:G:H5’	2.39	0.52
29:BE:53:THR:HG22	29:BE:53:THR:O	2.09	0.52
30:BF:142:TYR:CG	30:BF:142:TYR:O	2.63	0.52
32:BH:80:ILE:HD12	32:BH:144:VAL:CG1	2.39	0.52
33:BI:17:ALA:HB1	33:BI:41:PHE:CE2	2.44	0.52
33:BI:79:LEU:HD13	33:BI:135:MET:CE	2.39	0.52
35:BK:51:LYS:HD3	35:BK:95:ILE:HG22	1.92	0.52
39:BO:24:THR:HG22	39:BO:42:PRO:HD3	1.90	0.52
41:BQ:29:ARG:NE	51:B0:9:ARG:HH11	2.07	0.52
46:BV:66:ASP:O	46:BV:67:GLY:C	2.52	0.52
56:BB:34:A:O2’	56:BB:35:C:H5”	2.09	0.52
56:BB:54:G:C4	56:BB:55:U:C6	2.97	0.52
1:AA:79:G:H1	1:AA:90:C:N4	2.01	0.52
1:AA:451:A:C8	1:AA:481:G:C6	2.97	0.52
1:AA:972:C:O3’	10:AJ:59:LYS:HB3	2.09	0.52
1:AA:978:A:C2’	1:AA:979:C:H5’	2.39	0.52
1:AA:1038:C:H2’	1:AA:1039:G:H5’	1.89	0.52
3:AC:58:ARG:HA	3:AC:62:SER:O	2.09	0.52
4:AD:57:LYS:N	4:AD:199:ILE:HG22	2.24	0.52
4:AD:112:GLU:O	4:AD:115:GLN:HB3	2.09	0.52
7:AG:143:MET:HA	7:AG:143:MET:HE3	1.90	0.52
8:AH:87:ARG:O	8:AH:121:GLY:HA3	2.09	0.52
8:AH:100:ILE:CD1	8:AH:128:VAL:HG23	2.39	0.52
10:AJ:27:GLU:C	10:AJ:29:ALA:H	2.17	0.52
11:AK:33:ILE:HG12	11:AK:69:CYS:SG	2.49	0.52
11:AK:51:PHE:CA	11:AK:55:ARG:HB3	2.40	0.52
16:AP:61:VAL:HA	16:AP:65:ALA:HB3	1.91	0.52
19:AS:12:LEU:O	19:AS:13:HIS:C	2.51	0.52
22:AV:47:G:N2	22:AV:48:C:O2	2.42	0.52
22:AV:68:U:O5’	22:AV:68:U:H6	1.92	0.52
22:AV:303:G:N3	22:AV:304:C:C5	2.77	0.52
22:AV:343:C:C5’	30:BF:79:ARG:CA	2.86	0.52
25:AY:9:LEU:C	25:AY:11:ARG:N	2.65	0.52
25:AY:12:LEU:CB	25:AY:283:PRO:HG2	2.39	0.52
25:AY:86:GLY:O	25:AY:88:VAL:HG22	2.09	0.52
25:AY:176:GLY:HA3	25:AY:187:THR:HA	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:637:ARG:HG3	25:AY:637:ARG:NH1	2.23	0.52
26:BA:887:U:C3'	26:BA:888:C:H5'	2.39	0.52
26:BA:914:G:H5'	26:BA:915:C:OP2	2.10	0.52
26:BA:1171:G:H2'	26:BA:1172:C:C6	2.44	0.52
26:BA:1180:U:C2'	26:BA:1181:U:O5'	2.57	0.52
26:BA:1392:A:N6	44:BT:18:GLU:HG2	2.24	0.52
26:BA:1534:U:H5'	26:BA:1535:A:OP2	2.09	0.52
26:BA:2127:G:N1	26:BA:2161:C:O2	2.42	0.52
33:BI:82:ALA:HB1	33:BI:108:ILE:HD13	1.91	0.52
41:BQ:56:PHE:O	41:BQ:57:ARG:C	2.52	0.52
42:BR:62:GLU:HG2	42:BR:62:GLU:O	2.08	0.52
1:AA:17:U:C4'	1:AA:1079:G:O2'	2.55	0.52
1:AA:477:C:H2'	1:AA:478:A:C8	2.44	0.52
1:AA:1041:G:C6	1:AA:1042:A:N6	2.77	0.52
1:AA:1133:G:C5	1:AA:1134:G:N7	2.77	0.52
1:AA:1332:A:H2'	1:AA:1333:A:O5'	2.10	0.52
2:AB:16:GLY:HA2	2:AB:40:ILE:HG23	1.91	0.52
2:AB:48:MET:HG2	2:AB:198:VAL:O	2.10	0.52
2:AB:66:ILE:O	2:AB:67:LEU:HB2	2.08	0.52
2:AB:130:LYS:HE2	2:AB:130:LYS:HA	1.90	0.52
3:AC:2:GLN:C	3:AC:3:LYS:HG2	2.35	0.52
3:AC:6:PRO:HB3	3:AC:174:LEU:HD13	1.91	0.52
3:AC:171:ARG:C	3:AC:172:VAL:CG2	2.82	0.52
4:AD:117:VAL:HA	4:AD:122:ILE:HD12	1.91	0.52
4:AD:187:ARG:NH2	4:AD:191:SER:OG	2.43	0.52
7:AG:49:LEU:HD11	7:AG:60:ALA:CB	2.38	0.52
7:AG:144:ALA:O	7:AG:145:GLU:HB2	2.09	0.52
11:AK:107:THR:CG2	11:AK:108:ASN:ND2	2.72	0.52
13:AM:28:ARG:CZ	13:AM:62:PHE:CB	2.84	0.52
14:AN:89:MET:HE1	14:AN:98:LYS:CD	2.38	0.52
17:AQ:16:MET:CB	17:AQ:19:SER:HB3	2.39	0.52
18:AR:20:ILE:HD12	18:AR:21:ASP:N	2.25	0.52
21:AU:4:LYS:HD2	21:AU:4:LYS:O	2.09	0.52
22:AV:47:G:C2	22:AV:48:C:N3	2.77	0.52
22:AV:163:G:C4	22:AV:164:G:N7	2.76	0.52
22:AV:185:A:N7	22:AV:186:A:N6	2.57	0.52
22:AV:205:G:N2	22:AV:206:A:N6	2.56	0.52
23:AW:3:PRO:O	23:AW:4:VAL:HG12	2.08	0.52
23:AW:28:GLY:CA	23:AW:31:VAL:HG23	2.39	0.52
25:AY:205:TYR:O	25:AY:207:ASP:N	2.43	0.52
25:AY:584:ILE:O	25:AY:588:MET:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:688:ILE:HG22	25:AY:688:ILE:O	2.10	0.52
26:BA:196:A:H2'	26:BA:805:G:O6	2.10	0.52
26:BA:900:A:N3	26:BA:901:C:H5	2.08	0.52
26:BA:1121:C:C6	26:BA:1121:C:H3'	2.44	0.52
26:BA:2339:C:H2'	26:BA:2340:A:C8	2.44	0.52
27:BC:141:HIS:CE1	27:BC:190:THR:CG2	2.92	0.52
29:BE:190:ALA:C	29:BE:192:ALA:N	2.64	0.52
31:BG:153:PRO:HG3	31:BG:161:VAL:O	2.10	0.52
32:BH:7:ASP:CA	32:BH:15:LEU:HD22	2.38	0.52
33:BI:56:VAL:CG2	33:BI:57:VAL:N	2.73	0.52
33:BI:99:LYS:HB3	33:BI:138:VAL:HB	1.92	0.52
33:BI:100:ILE:HG21	33:BI:105:LEU:CD1	2.38	0.52
36:BL:28:GLY:C	36:BL:29:LYS:O	2.51	0.52
39:BO:66:GLY:CA	39:BO:102:ARG:NH2	2.73	0.52
46:BV:2:PHE:HB3	46:BV:50:MET:CE	2.39	0.52
47:BW:13:GLU:O	47:BW:15:LYS:HE2	2.09	0.52
49:BY:18:LEU:HG	49:BY:22:LEU:HB2	1.90	0.52
53:B2:23:ALA:C	53:B2:24:THR:CG2	2.82	0.52
56:BB:20:G:C2	56:BB:64:G:C4	2.97	0.52
1:AA:430:A:N3	1:AA:430:A:H2'	2.23	0.52
1:AA:452:A:C8	1:AA:453:G:O4'	2.62	0.52
1:AA:634:C:O2'	1:AA:635:A:H5'	2.10	0.52
1:AA:1037:C:N3	1:AA:1038:C:C5	2.77	0.52
1:AA:1304:G:N7	1:AA:1305:G:C6	2.78	0.52
1:AA:1379:G:C6	1:AA:1380:U:C4	2.98	0.52
1:AA:1389:C:O2	1:AA:1389:C:C2'	2.58	0.52
2:AB:8:MET:HB2	2:AB:43:GLU:OE2	2.09	0.52
2:AB:14:HIS:HD2	2:AB:15:PHE:N	2.08	0.52
2:AB:93:HIS:O	2:AB:94:ARG:C	2.52	0.52
4:AD:117:VAL:HG12	4:AD:130:ASN:HA	1.91	0.52
8:AH:77:VAL:HG11	8:AH:124:ILE:HD11	1.91	0.52
11:AK:85:VAL:CG1	11:AK:92:ARG:NH1	2.73	0.52
11:AK:96:ILE:C	11:AK:96:ILE:HD12	2.35	0.52
14:AN:20:PHE:CG	14:AN:24:ALA:HB3	2.45	0.52
16:AP:20:VAL:HG23	16:AP:35:ARG:HA	1.90	0.52
20:AT:2:ASN:O	20:AT:3:ILE:C	2.52	0.52
22:AV:1:G:H8	22:AV:1:G:O5'	1.93	0.52
22:AV:3:G:H2'	22:AV:4:G:H8	1.72	0.52
22:AV:63:C:H2'	22:AV:63:C:O2	2.09	0.52
22:AV:247:A:H5'	22:AV:248:G:H5'	1.91	0.52
22:AV:323:A:C4	22:AV:324:G:C5	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:345:A:C6	22:AV:348:C:C5	2.95	0.52
23:AW:63:TYR:CD2	23:AW:67:SER:HA	2.45	0.52
23:AW:108:ASN:CG	23:AW:114:LYS:HZ2	2.17	0.52
25:AY:227:ILE:HG12	25:AY:237:PRO:HB3	1.90	0.52
25:AY:331:TYR:O	25:AY:371:ALA:HB1	2.08	0.52
25:AY:385:THR:HG21	25:AY:436:PRO:HG3	1.92	0.52
26:BA:84:A:N1	26:BA:103:A:C5	2.77	0.52
26:BA:866:A:C5	26:BA:914:G:N7	2.77	0.52
26:BA:1463:C:H5'	26:BA:1463:C:H6	1.74	0.52
26:BA:2124:G:H2'	26:BA:2125:G:H5'	1.91	0.52
26:BA:2418:A:C5	26:BA:2419:U:C5	2.97	0.52
26:BA:2656:U:O2	26:BA:2656:U:H2'	2.10	0.52
28:BD:98:VAL:O	28:BD:98:VAL:CG2	2.58	0.52
30:BF:118:ALA:HB1	30:BF:166:ARG:CD	2.36	0.52
31:BG:95:ALA:CB	31:BG:104:LEU:HD23	2.39	0.52
33:BI:32:VAL:HG21	33:BI:58:ILE:HG23	1.90	0.52
36:BL:47:ARG:NH2	36:BL:47:ARG:HG2	2.23	0.52
37:BM:55:ARG:NH2	37:BM:55:ARG:HG3	2.25	0.52
39:BO:24:THR:CG2	39:BO:42:PRO:HG3	2.40	0.52
40:BP:9:GLN:C	40:BP:11:GLN:H	2.16	0.52
40:BP:111:GLU:HG3	40:BP:112:ARG:N	2.23	0.52
44:BT:30:ILE:HG22	44:BT:85:VAL:O	2.09	0.52
50:BZ:43:ILE:O	50:BZ:47:ILE:HD12	2.10	0.52
52:B1:16:THR:HG21	52:B1:41:VAL:CB	2.35	0.52
1:AA:182:A:C8	1:AA:184:G:C5	2.98	0.52
1:AA:446:G:H2'	1:AA:447:G:O4'	2.09	0.52
1:AA:633:G:OP2	8:AH:87:ARG:NH2	2.42	0.52
1:AA:979:C:OP1	1:AA:981:U:O4	2.27	0.52
1:AA:1233:G:C5	1:AA:1234:C:C5	2.98	0.52
2:AB:14:HIS:O	2:AB:15:PHE:C	2.52	0.52
3:AC:141:MET:HE2	3:AC:170:GLY:HA3	1.91	0.52
4:AD:40:HIS:HB3	4:AD:43:ARG:HG3	1.90	0.52
4:AD:58:GLN:HA	4:AD:58:GLN:OE1	2.10	0.52
4:AD:176:LYS:CB	4:AD:178:GLU:HG2	2.39	0.52
5:AE:82:HIS:CE1	5:AE:146:MET:HG3	2.45	0.52
5:AE:149:PRO:HA	8:AH:98:LEU:HD11	1.91	0.52
5:AE:152:VAL:CG2	5:AE:153:ALA:N	2.72	0.52
10:AJ:57:VAL:O	10:AJ:58:ASN:CB	2.56	0.52
10:AJ:59:LYS:N	10:AJ:59:LYS:HZ2	2.07	0.52
11:AK:15:VAL:HG13	11:AK:16:SER:H	1.74	0.52
15:AO:3:SER:HB2	15:AO:6:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:4:LYS:HE2	20:AT:4:LYS:CA	2.40	0.52
21:AU:34:ARG:O	21:AU:36:PHE:N	2.42	0.52
22:AV:27:U:O2'	22:AV:28:U:H5'	2.10	0.52
22:AV:46:U:H4'	22:AV:313:C:C5'	2.34	0.52
22:AV:339:G:H1	22:AV:349:C:H42	1.55	0.52
24:AX:60:A:O2'	24:AX:61:U:H5'	2.08	0.52
25:AY:35:TYR:CE1	25:AY:269:VAL:HB	2.45	0.52
25:AY:346:LYS:O	25:AY:347:GLY:C	2.52	0.52
25:AY:413:ILE:HD11	25:AY:474:ALA:HB3	1.92	0.52
25:AY:517:LEU:HB3	25:AY:521:SER:HB2	1.91	0.52
25:AY:606:MET:HE3	25:AY:671:MET:HG2	1.91	0.52
25:AY:623:ASP:H	31:BG:175:LYS:HZ2	1.57	0.52
25:AY:658:ASP:OD2	31:BG:176:LYS:CE	2.53	0.52
26:BA:638:G:C5	26:BA:639:U:C5	2.98	0.52
26:BA:720:U:H2'	26:BA:720:U:O2	2.10	0.52
26:BA:889:C:N1	26:BA:891:G:C6	2.78	0.52
26:BA:1917:U:O4	26:BA:1918:A:C6	2.62	0.52
26:BA:2114:A:C2	26:BA:2166:U:H2'	2.45	0.52
26:BA:2183:A:H2'	26:BA:2184:A:O4'	2.09	0.52
26:BA:2469:A:C4'	37:BM:55:ARG:HH22	2.22	0.52
27:BC:195:GLY:O	27:BC:196:ASN:C	2.52	0.52
30:BF:46:LYS:C	30:BF:48:LEU:H	2.18	0.52
30:BF:101:ARG:O	30:BF:102:LEU:C	2.53	0.52
32:BH:24:GLY:O	32:BH:25:TYR:C	2.51	0.52
41:BQ:73:ILE:O	41:BQ:73:ILE:HG23	2.09	0.52
43:BS:48:LYS:HE3	43:BS:52:GLU:OE2	2.10	0.52
49:BY:24:GLU:O	49:BY:25:GLN:C	2.52	0.52
56:BB:36:C:C5'	56:BB:37:C:OP2	2.58	0.52
1:AA:215:C:H2'	1:AA:216:U:O4'	2.09	0.52
1:AA:257:G:C2	1:AA:258:G:C8	2.98	0.52
1:AA:368:U:C3'	25:AY:354:ARG:HH12	2.22	0.52
1:AA:599:C:H4'	8:AH:121:GLY:C	2.35	0.52
1:AA:652:U:O2'	1:AA:653:U:P	2.68	0.52
2:AB:95:TRP:CH2	2:AB:99:MET:HG2	2.45	0.52
3:AC:105:VAL:HG12	3:AC:106:ARG:O	2.10	0.52
3:AC:172:VAL:N	3:AC:173:PRO:HD3	2.25	0.52
5:AE:15:ILE:O	5:AE:16:ALA:HB2	2.10	0.52
5:AE:93:VAL:HG12	5:AE:138:ALA:HB1	1.91	0.52
6:AF:91:ARG:O	6:AF:92:THR:OG1	2.26	0.52
10:AJ:7:ARG:O	10:AJ:100:ILE:O	2.27	0.52
10:AJ:32:THR:CG2	10:AJ:83:THR:HA	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:2:ARG:HA	13:AM:8:ILE:HG12	1.91	0.52
14:AN:3:GLN:HA	14:AN:6:LYS:CE	2.40	0.52
19:AS:33:TRP:CZ2	19:AS:56:HIS:CE1	2.97	0.52
22:AV:44:C:O2'	22:AV:45:A:C4'	2.57	0.52
22:AV:200:G:C8	22:AV:200:G:O5'	2.58	0.52
22:AV:266:C:C6	22:AV:267:G:H8	2.28	0.52
22:AV:303:G:H2'	22:AV:304:C:C5	2.41	0.52
23:AW:4:VAL:HA	23:AW:106:TYR:HB3	1.92	0.52
23:AW:34:LEU:C	23:AW:36:ALA:N	2.65	0.52
25:AY:19:ALA:HA	25:AY:121:VAL:HG11	1.91	0.52
25:AY:165:GLN:NE2	25:AY:177:ILE:HG21	2.24	0.52
25:AY:177:ILE:HG22	25:AY:178:ILE:N	2.24	0.52
25:AY:312:LEU:HD11	25:AY:401:SER:OG	2.09	0.52
26:BA:65:U:H2'	26:BA:66:C:C6	2.45	0.52
26:BA:89:A:O2'	26:BA:90:U:H5'	2.10	0.52
26:BA:414:C:H2'	26:BA:415:A:C8	2.45	0.52
26:BA:666:A:H2'	26:BA:667:U:C6	2.45	0.52
26:BA:883:G:C2'	26:BA:884:U:C5'	2.83	0.52
26:BA:903:C:H6	26:BA:903:C:O5'	1.93	0.52
26:BA:1056:G:C2	26:BA:1102:C:C5	2.97	0.52
26:BA:1434:A:O2'	26:BA:1435:G:C8	2.56	0.52
26:BA:1462:C:C2'	26:BA:1463:C:C5'	2.86	0.52
26:BA:1678:A:H2'	26:BA:1679:A:O4'	2.10	0.52
26:BA:2473:U:C5	26:BA:2474:U:C4	2.98	0.52
26:BA:2851:A:C5	26:BA:2852:G:C5	2.98	0.52
27:BC:173:LEU:N	27:BC:173:LEU:HD13	2.23	0.52
28:BD:86:GLU:OE1	28:BD:86:GLU:HA	2.08	0.52
28:BD:119:ALA:O	28:BD:162:ALA:HB1	2.10	0.52
29:BE:131:THR:HG22	29:BE:160:ALA:CA	2.39	0.52
30:BF:51:ASN:O	30:BF:52:ALA:C	2.53	0.52
31:BG:126:THR:CG2	31:BG:127:GLN:N	2.72	0.52
40:BP:74:GLN:HE21	40:BP:74:GLN:HA	1.75	0.52
53:B2:30:VAL:O	53:B2:31:LEU:C	2.52	0.52
1:AA:145:G:N2	1:AA:146:G:C4	2.77	0.52
1:AA:237:G:H2'	1:AA:238:A:C8	2.44	0.52
1:AA:369:G:C4	1:AA:370:C:C5	2.97	0.52
1:AA:449:G:O2'	1:AA:450:G:H5'	2.10	0.52
1:AA:918:A:N9	1:AA:919:A:C8	2.77	0.52
1:AA:1367:C:OP1	9:AI:116:GLY:N	2.39	0.52
1:AA:1534:A:N1	1:AA:1535:C:N3	2.57	0.52
2:AB:56:LEU:C	2:AB:56:LEU:CD2	2.80	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:61:SER:C	2:AB:63:LYS:N	2.67	0.52
2:AB:185:ILE:O	2:AB:185:ILE:CG1	2.57	0.52
4:AD:10:LEU:HD21	4:AD:62:ARG:HD3	1.90	0.52
4:AD:12:ARG:HD2	4:AD:33:ILE:HA	1.92	0.52
4:AD:159:GLU:O	4:AD:161:ALA:N	2.42	0.52
5:AE:37:VAL:HG23	5:AE:47:PHE:HA	1.92	0.52
5:AE:137:ARG:O	5:AE:138:ALA:C	2.50	0.52
6:AF:3:HIS:N	6:AF:92:THR:HG23	2.25	0.52
6:AF:5:GLU:HG3	6:AF:5:GLU:O	2.09	0.52
9:AI:42:THR:O	9:AI:43:ALA:HB3	2.09	0.52
9:AI:105:ARG:O	9:AI:105:ARG:HD2	2.09	0.52
12:AL:31:GLY:HA3	12:AL:54:VAL:CG1	2.40	0.52
12:AL:36:VAL:O	12:AL:36:VAL:HG12	2.09	0.52
14:AN:49:GLN:OE1	14:AN:49:GLN:CA	2.58	0.52
16:AP:76:LYS:O	16:AP:77:GLU:HB2	2.09	0.52
21:AU:25:ALA:O	21:AU:26:GLY:O	2.28	0.52
22:AV:137:C:H3'	22:AV:138:C:O4'	2.08	0.52
22:AV:181:G:N3	22:AV:181:G:C2'	2.71	0.52
22:AV:213:G:C6	22:AV:284:G:C5	2.97	0.52
22:AV:298:A:C5	22:AV:299:C:C5	2.98	0.52
22:AV:301:A:P	22:AV:302:A:OP2	2.67	0.52
25:AY:122:TRP:C	25:AY:122:TRP:CD1	2.88	0.52
25:AY:573:HIS:CD2	25:AY:575:VAL:H	2.28	0.52
25:AY:619:ASP:HB3	31:BG:175:LYS:NZ	2.25	0.52
26:BA:84:A:H5"	45:BU:5:ARG:HD3	1.91	0.52
26:BA:585:G:N7	41:BQ:5:ARG:NH1	2.57	0.52
26:BA:606:U:OP2	29:BE:99:LYS:HE3	2.09	0.52
26:BA:846:U:O2	26:BA:846:U:C2'	2.57	0.52
26:BA:886:A:C4'	26:BA:887:U:OP1	2.49	0.52
26:BA:1660:G:N2	26:BA:2001:C:C2	2.78	0.52
29:BE:4:VAL:C	29:BE:5:LEU:HD12	2.34	0.52
29:BE:54:GLY:CA	29:BE:74:LYS:HE2	2.40	0.52
31:BG:142:GLN:O	31:BG:145:ALA:HB3	2.09	0.52
34:BJ:81:ILE:HG23	34:BJ:82:GLY:H	1.75	0.52
39:BO:31:THR:O	39:BO:32:PRO:C	2.52	0.52
40:BP:52:ARG:HH11	40:BP:52:ARG:CG	2.23	0.52
50:BZ:6:ILE:CD1	50:BZ:47:ILE:HD11	2.40	0.52
1:AA:66:A:H2'	1:AA:67:C:H5'	1.91	0.52
1:AA:86:G:O4'	1:AA:86:G:N3	2.40	0.52
1:AA:106:C:O2	1:AA:379:C:H4'	2.10	0.52
1:AA:684:U:H2'	1:AA:685:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:923:A:H5'	5:AE:25:LYS:CE	2.31	0.52
1:AA:1103:C:H5"	2:AB:96:LEU:HB3	1.92	0.52
1:AA:1286:U:C6	1:AA:1286:U:OP1	2.63	0.52
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.73	0.52
3:AC:28:PHE:C	3:AC:28:PHE:CD2	2.87	0.52
3:AC:106:ARG:HD3	3:AC:106:ARG:N	2.25	0.52
3:AC:140:ALA:O	3:AC:145:ALA:HB3	2.10	0.52
4:AD:21:LYS:O	4:AD:22:SER:C	2.53	0.52
5:AE:59:ILE:O	5:AE:63:MET:HG2	2.09	0.52
5:AE:93:VAL:HG21	5:AE:110:MET:HE1	1.92	0.52
8:AH:94:VAL:HG21	8:AH:100:ILE:O	2.10	0.52
9:AI:18:VAL:HG11	9:AI:82:ILE:HG12	1.92	0.52
9:AI:48:ARG:O	9:AI:49:GLN:C	2.53	0.52
11:AK:73:VAL:C	11:AK:75:GLU:H	2.18	0.52
12:AL:23:LEU:HB2	12:AL:58:ASN:ND2	2.25	0.52
12:AL:55:ARG:HH21	12:AL:55:ARG:HG3	1.75	0.52
13:AM:28:ARG:NH1	13:AM:62:PHE:CB	2.73	0.52
14:AN:57:PRO:C	14:AN:59:ARG:H	2.18	0.52
20:AT:47:GLN:NE2	20:AT:47:GLN:O	2.43	0.52
22:AV:121:A:O2'	22:AV:122:A:H5'	2.09	0.52
22:AV:172:U:C1'	22:AV:173:C:C6	2.93	0.52
22:AV:173:C:O2'	22:AV:174:A:H8	1.93	0.52
22:AV:265:C:N3	22:AV:266:C:N4	2.58	0.52
22:AV:270:C:C2	22:AV:293:G:C6	2.98	0.52
22:AV:331:C:O2'	22:AV:332:G:H5'	2.08	0.52
22:AV:344:A:O4'	30:BF:76:PHE:N	2.42	0.52
25:AY:221:ALA:C	25:AY:223:PHE:H	2.18	0.52
25:AY:250:THR:O	25:AY:253:LEU:N	2.35	0.52
26:BA:17:G:H2'	26:BA:18:U:C6	2.45	0.52
26:BA:674:G:H5"	29:BE:71:GLY:N	2.24	0.52
26:BA:876:C:O2'	26:BA:877:A:C5	2.63	0.52
26:BA:900:A:N3	26:BA:900:A:C2'	2.73	0.52
26:BA:1090:A:H2'	26:BA:1091:G:O5'	2.10	0.52
26:BA:1244:A:H5'	36:BL:8:PRO:HD2	1.92	0.52
26:BA:1265:A:O4'	26:BA:1267:U:C6	2.63	0.52
26:BA:1468:U:H5'	26:BA:1469:A:OP1	2.10	0.52
26:BA:1495:A:H2'	26:BA:1496:A:O5'	2.10	0.52
26:BA:1533:C:H5'	26:BA:1534:U:OP2	2.10	0.52
26:BA:2330:G:O3'	47:BW:40:LYS:HE3	2.10	0.52
26:BA:2582:G:C2	26:BA:2583:G:C8	2.98	0.52
26:BA:2626:C:O5'	26:BA:2626:C:H6	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:9:SER:O	27:BC:10:PRO:C	2.53	0.52
29:BE:7:ASP:C	29:BE:9:GLN:H	2.18	0.52
32:BH:8:LYS:NZ	32:BH:14:SER:HA	2.25	0.52
32:BH:72:ILE:HG23	32:BH:141:LYS:O	2.09	0.52
41:BQ:107:ALA:HB1	42:BR:48:LYS:HZ2	1.74	0.52
44:BT:30:ILE:HD11	44:BT:32:LEU:HD21	1.91	0.52
45:BU:6:ARG:HG3	45:BU:7:ASP:H	1.75	0.52
47:BW:6:THR:O	47:BW:7:ARG:CB	2.58	0.52
52:B1:3:GLY:O	52:B1:4:ILE:HB	2.10	0.52
56:BB:39:A:O2'	56:BB:40:U:H5'	2.10	0.52
1:AA:63:C:C2'	1:AA:64:G:H5'	2.40	0.52
1:AA:160:A:H2'	1:AA:161:A:O4'	2.09	0.52
1:AA:432:A:H2'	1:AA:433:G:O5'	2.10	0.52
1:AA:437:U:C4	1:AA:438:U:H5	2.28	0.52
1:AA:464:U:C2	1:AA:466:A:H5"	2.45	0.52
1:AA:465:A:H2'	1:AA:466:A:C8	2.45	0.52
1:AA:609:A:H2'	1:AA:610:U:C5'	2.40	0.52
1:AA:1057:G:O2'	1:AA:1058:G:H5'	2.10	0.52
1:AA:1103:C:H2'	1:AA:1104:G:O5'	2.10	0.52
1:AA:1182:G:C4'	1:AA:1183:U:H5'	2.39	0.52
1:AA:1240:U:C2	7:AG:31:VAL:CG1	2.92	0.52
1:AA:1280:A:C5'	10:AJ:42:LEU:HD21	2.39	0.52
1:AA:1523:G:OP1	11:AK:124:LYS:HE2	2.09	0.52
2:AB:18:GLN:HG2	2:AB:189:ASN:ND2	2.25	0.52
2:AB:116:LEU:CG	2:AB:140:LEU:HD11	2.39	0.52
2:AB:139:GLU:HG2	2:AB:143:LEU:HD21	1.90	0.52
2:AB:151:LYS:HG3	2:AB:152:ASP:N	2.25	0.52
4:AD:129:VAL:HG11	4:AD:134:TYR:CD1	2.45	0.52
4:AD:131:ILE:CD1	4:AD:134:TYR:N	2.73	0.52
5:AE:49:TYR:CE2	5:AE:133:ILE:HD11	2.45	0.52
7:AG:59:GLU:O	7:AG:63:VAL:HG23	2.10	0.52
9:AI:27:ILE:HG23	9:AI:62:LEU:HD23	1.92	0.52
9:AI:98:ARG:HA	9:AI:103:VAL:HG21	1.92	0.52
11:AK:23:HIS:CD2	11:AK:23:HIS:C	2.88	0.52
12:AL:6:LEU:HB3	17:AQ:33:TYR:CE1	2.45	0.52
12:AL:49:ARG:HB2	12:AL:89:LEU:HD21	1.91	0.52
16:AP:50:THR:O	16:AP:51:ARG:O	2.28	0.52
22:AV:47:G:OP1	22:AV:313:C:H5"	2.10	0.52
22:AV:114:G:C2'	22:AV:115:C:H5'	2.39	0.52
22:AV:196:G:O2'	22:AV:229:U:C5'	2.57	0.52
22:AV:313:C:H2'	22:AV:314:C:H6	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:341:5MU:C2	22:AV:345:A:N6	2.77	0.52
25:AY:603:GLU:C	25:AY:676:TYR:HD1	2.18	0.52
26:BA:277:G:C8	26:BA:361:G:O6	2.63	0.52
26:BA:547:A:N7	26:BA:548:G:C1'	2.71	0.52
26:BA:1681:G:O2'	26:BA:1762:A:H1'	2.10	0.52
26:BA:1735:A:N3	26:BA:1736:U:C6	2.78	0.52
26:BA:1744:A:C2	26:BA:1745:A:H1'	2.45	0.52
26:BA:1838:C:C4	26:BA:1899:A:C4	2.98	0.52
26:BA:2174:C:O2	26:BA:2175:C:C6	2.63	0.52
26:BA:2194:U:O2	26:BA:2195:U:C6	2.63	0.52
26:BA:2298:A:C4	26:BA:2321:U:C5	2.98	0.52
26:BA:2578:G:OP2	26:BA:2578:G:H4'	2.10	0.52
26:BA:2851:A:N7	26:BA:2852:G:N7	2.58	0.52
26:BA:2881:U:C2'	26:BA:2882:A:O5'	2.58	0.52
30:BF:56:LEU:HD12	30:BF:64:PRO:CB	2.39	0.52
33:BI:45:THR:HG22	33:BI:50:LYS:HG3	1.92	0.52
33:BI:46:ASP:CB	33:BI:50:LYS:HD2	2.40	0.52
34:BJ:21:THR:HA	34:BJ:61:LYS:HB3	1.92	0.52
45:BU:15:GLY:O	45:BU:16:LYS:C	2.52	0.52
1:AA:112:G:C2'	1:AA:113:G:H5'	2.40	0.51
1:AA:235:C:H2'	1:AA:236:A:C8	2.45	0.51
1:AA:298:A:N6	1:AA:299:G:N1	2.58	0.51
1:AA:513:C:O2'	1:AA:514:C:C5'	2.58	0.51
1:AA:781:A:C4	1:AA:802:A:C2	2.98	0.51
1:AA:917:G:N1	1:AA:918:A:C6	2.78	0.51
1:AA:949:A:C2	1:AA:1233:G:N3	2.78	0.51
1:AA:994:A:C8	1:AA:1216:A:H4'	2.46	0.51
1:AA:1287:A:C6	1:AA:1288:A:C6	2.98	0.51
1:AA:1318:A:H1'	19:AS:36:ARG:NH1	2.25	0.51
1:AA:1341:U:C2'	1:AA:1342:C:H6	2.20	0.51
2:AB:221:ARG:HH11	2:AB:221:ARG:HG2	1.74	0.51
4:AD:104:MET:HE2	4:AD:170:LEU:HD22	1.92	0.51
4:AD:134:TYR:C	4:AD:134:TYR:CD2	2.88	0.51
7:AG:134:VAL:O	7:AG:138:GLU:HG2	2.10	0.51
8:AH:82:LEU:HD23	17:AQ:35:LYS:HA	1.92	0.51
11:AK:58:THR:HB	11:AK:59:PRO:HD2	1.92	0.51
12:AL:49:ARG:NH1	12:AL:88:ASP:OD1	2.41	0.51
14:AN:22:LYS:O	14:AN:23:ARG:C	2.52	0.51
15:AO:66:LEU:HD13	15:AO:87:ARG:HH22	1.75	0.51
22:AV:157:C:N3	22:AV:158:U:C4	2.77	0.51
24:AX:31:G:C2'	24:AX:32:G:O5'	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:77:A:C5	26:BA:2421:G:H2'	2.45	0.51
25:AY:617:MET:HE3	26:BA:1095:A:H1'	1.85	0.51
25:AY:625:ASN:C	25:AY:627:ARG:H	2.18	0.51
25:AY:633:GLY:CA	26:BA:1068:G:N7	2.57	0.51
26:BA:356:G:O2'	26:BA:357:C:H5'	2.10	0.51
26:BA:664:G:C2'	26:BA:665:U:H5'	2.39	0.51
26:BA:752:A:H62	26:BA:2609:U:H3	1.54	0.51
26:BA:878:A:H2'	26:BA:879:G:C8	2.45	0.51
26:BA:881:G:H1	26:BA:895:U:H3	1.56	0.51
26:BA:1028:A:N6	26:BA:1125:G:H2'	2.24	0.51
26:BA:1753:G:OP1	40:BP:92:ARG:HD3	2.11	0.51
26:BA:1766:G:H2'	26:BA:1767:G:H8	1.74	0.51
26:BA:2294:G:H2'	26:BA:2295:C:H6	1.75	0.51
27:BC:176:ARG:HH21	27:BC:176:ARG:CG	2.24	0.51
27:BC:216:ARG:CB	27:BC:217:PRO:CD	2.86	0.51
29:BE:5:LEU:HD12	29:BE:5:LEU:N	2.25	0.51
30:BF:36:ASN:CG	30:BF:37:MET:N	2.68	0.51
30:BF:110:ILE:HG12	30:BF:136:ILE:HG21	1.92	0.51
33:BI:79:LEU:CD2	33:BI:100:ILE:HD11	2.40	0.51
33:BI:122:GLU:C	33:BI:125:THR:HB	2.35	0.51
35:BK:87:LEU:HD23	35:BK:94:PRO:HA	1.92	0.51
38:BN:51:LEU:O	38:BN:54:LEU:HB3	2.10	0.51
44:BT:2:ILE:HG12	44:BT:7:LEU:HD11	1.92	0.51
50:BZ:23:LEU:HD11	50:BZ:53:MET:CE	2.40	0.51
55:B4:10:LEU:HD23	55:B4:10:LEU:N	2.24	0.51
1:AA:35:G:C4	1:AA:36:C:C5	2.98	0.51
1:AA:161:A:H2'	1:AA:162:A:C8	2.45	0.51
1:AA:284:C:H2'	1:AA:285:C:C6	2.46	0.51
1:AA:490:C:H2'	1:AA:491:G:O4'	2.10	0.51
1:AA:541:G:C2	1:AA:542:G:C4	2.98	0.51
1:AA:722:G:H3'	1:AA:722:G:N3	2.25	0.51
1:AA:917:G:H2'	1:AA:918:A:C8	2.45	0.51
1:AA:922:G:N9	1:AA:1398:A:H2	2.00	0.51
1:AA:1075:U:O2'	1:AA:1076:U:H5'	2.10	0.51
1:AA:1098:C:C1'	1:AA:1169:A:H2	2.03	0.51
1:AA:1462:C:H2'	1:AA:1463:U:H6	1.75	0.51
3:AC:16:PRO:O	3:AC:17:TRP:CB	2.59	0.51
3:AC:45:GLU:C	3:AC:47:ALA:H	2.19	0.51
4:AD:22:SER:O	4:AD:23:GLY:C	2.52	0.51
5:AE:131:ASN:HD22	5:AE:132:PRO:N	2.09	0.51
7:AG:82:SER:HB3	7:AG:84:TYR:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:86:VAL:O	7:AG:86:VAL:HG12	2.09	0.51
8:AH:46:GLU:N	8:AH:63:LYS:HG3	2.25	0.51
17:AQ:34:GLY:O	17:AQ:35:LYS:C	2.53	0.51
20:AT:16:ALA:O	20:AT:20:ASN:ND2	2.44	0.51
22:AV:32:A:HO2'	22:AV:35:C:P	2.25	0.51
22:AV:49:C:N4	22:AV:303:G:O6	2.43	0.51
22:AV:127:C:O2'	22:AV:128:U:H5'	2.10	0.51
22:AV:257:U:N1	22:AV:258:G:N1	2.55	0.51
25:AY:89:ASP:N	25:AY:89:ASP:OD2	2.43	0.51
25:AY:341:VAL:CG2	25:AY:350:GLU:HB2	2.39	0.51
25:AY:367:GLU:O	25:AY:368:GLU:HB3	2.10	0.51
25:AY:609:GLU:HB2	25:AY:670:VAL:HG22	1.91	0.51
25:AY:644:ARG:O	25:AY:645:ALA:HB2	2.10	0.51
26:BA:1106:G:H2'	26:BA:1106:G:N3	2.26	0.51
26:BA:1120:G:H2'	26:BA:1121:C:H5'	1.91	0.51
26:BA:1851:U:C2'	26:BA:1852:U:O5'	2.58	0.51
26:BA:2307:G:H22	26:BA:2311:A:H2'	1.75	0.51
26:BA:2346:A:C3'	26:BA:2347:C:C5'	2.81	0.51
26:BA:2805:C:C4	26:BA:2806:C:C4	2.98	0.51
27:BC:216:ARG:HB3	27:BC:217:PRO:HD2	1.91	0.51
30:BF:40:GLY:HA2	30:BF:84:ILE:HD11	1.91	0.51
30:BF:157:THR:CG2	30:BF:159:ALA:CB	2.88	0.51
34:BJ:27:ARG:HH11	34:BJ:27:ARG:HG2	1.74	0.51
38:BN:67:PHE:O	38:BN:71:ARG:HA	2.10	0.51
1:AA:441:A:H2'	1:AA:442:G:H5'	1.93	0.51
1:AA:446:G:C2	1:AA:489:C:C2	2.98	0.51
1:AA:570:G:H5"	1:AA:571:U:OP2	2.10	0.51
1:AA:1114:C:O2	1:AA:1114:C:C2'	2.58	0.51
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.74	0.51
2:AB:131:LYS:CG	2:AB:132:GLU:N	2.71	0.51
2:AB:220:VAL:O	2:AB:221:ARG:C	2.52	0.51
5:AE:37:VAL:HG23	5:AE:47:PHE:CB	2.40	0.51
7:AG:66:GLU:HG3	7:AG:69:ARG:NH2	2.25	0.51
8:AH:123:GLU:HG2	8:AH:125:ILE:HD12	1.92	0.51
9:AI:56:MET:CE	9:AI:57:VAL:H	2.22	0.51
11:AK:75:GLU:N	11:AK:75:GLU:OE1	2.42	0.51
21:AU:18:PHE:C	21:AU:19:LYS:HE2	2.35	0.51
21:AU:24:LYS:HD2	21:AU:25:ALA:H	1.75	0.51
22:AV:147:C:C2	22:AV:148:U:C5	2.98	0.51
23:AW:92:LYS:O	23:AW:98:LEU:CD2	2.54	0.51
24:AX:7:G:OP2	24:AX:7:G:H8	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:27:G:H2'	24:AX:28:U:OP1	2.10	0.51
25:AY:132:ARG:O	25:AY:256:THR:HG23	2.11	0.51
25:AY:350:GLU:HA	25:AY:350:GLU:OE1	2.10	0.51
25:AY:428:LEU:N	25:AY:428:LEU:HD23	2.26	0.51
25:AY:486:THR:HG21	25:AY:602:LEU:HD11	1.92	0.51
26:BA:181:A:C2	26:BA:182:A:C4	2.99	0.51
26:BA:324:A:H2'	26:BA:325:G:O5'	2.10	0.51
26:BA:479:A:H4'	26:BA:480:A:OP1	2.09	0.51
26:BA:528:A:H3'	26:BA:528:A:C8	2.46	0.51
26:BA:649:G:H2'	26:BA:650:C:H6	1.73	0.51
26:BA:1547:C:C6	26:BA:1547:C:H3'	2.46	0.51
26:BA:1717:A:H2'	26:BA:1718:G:O5'	2.09	0.51
26:BA:1805:A:N3	27:BC:49:THR:HB	2.25	0.51
26:BA:1860:G:C6	26:BA:1883:U:O2	2.63	0.51
26:BA:2215:C:O2'	26:BA:2216:G:H5'	2.09	0.51
27:BC:121:ALA:O	27:BC:122:ALA:C	2.50	0.51
27:BC:259:ASN:O	27:BC:260:LYS:HB2	2.10	0.51
29:BE:189:THR:HG23	29:BE:190:ALA:N	2.26	0.51
31:BG:54:ARG:CD	31:BG:57:TYR:HE1	2.23	0.51
42:BR:39:LEU:O	42:BR:49:ILE:HG23	2.11	0.51
46:BV:16:ALA:N	46:BV:19:ARG:HH21	2.09	0.51
47:BW:45:ALA:O	47:BW:46:ASN:HB2	2.10	0.51
1:AA:29:U:H5'	1:AA:296:U:OP1	2.11	0.51
1:AA:38:G:N2	1:AA:397:A:C4	2.78	0.51
1:AA:97:G:H2'	1:AA:98:A:O5'	2.10	0.51
1:AA:188:C:O2	1:AA:188:C:C2'	2.57	0.51
1:AA:413:G:N1	4:AD:32:LYS:CD	2.74	0.51
1:AA:687:A:C2	1:AA:704:A:C5	2.99	0.51
1:AA:892:A:C6	1:AA:893:C:C4	2.98	0.51
1:AA:1079:G:H2'	1:AA:1080:A:N9	2.26	0.51
1:AA:1136:C:O4'	1:AA:1136:C:O2	2.29	0.51
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.45	0.51
3:AC:156:LEU:HD12	3:AC:163:ARG:HB2	1.92	0.51
4:AD:121:ALA:N	4:AD:122:ILE:HD13	2.24	0.51
4:AD:131:ILE:HD12	4:AD:131:ILE:O	2.10	0.51
4:AD:169:TRP:HB2	4:AD:183:ARG:HG3	1.92	0.51
5:AE:154:ALA:HB1	8:AH:65:PHE:CE2	2.45	0.51
6:AF:43:GLY:HA2	6:AF:58:HIS:CD2	2.45	0.51
6:AF:81:ASN:O	6:AF:84:VAL:HG12	2.11	0.51
9:AI:16:ALA:HB2	9:AI:66:VAL:HG23	1.92	0.51
16:AP:12:LYS:HG2	16:AP:13:LYS:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:43:MET:O	19:AS:44:ILE:C	2.54	0.51
22:AV:20:A:N7	22:AV:21:C:N4	2.59	0.51
24:AX:15:G:H5"	24:AX:16:C:H5'	1.91	0.51
25:AY:181:LEU:HB2	25:AY:216:LEU:HD11	1.93	0.51
25:AY:202:PRO:O	25:AY:203:GLU:C	2.53	0.51
25:AY:282:SER:O	25:AY:284:LEU:N	2.43	0.51
25:AY:363:ARG:HG3	25:AY:363:ARG:NH1	2.23	0.51
25:AY:423:LYS:CB	25:AY:472:VAL:HG22	2.28	0.51
25:AY:519:ARG:NH1	25:AY:678:GLU:CB	2.74	0.51
25:AY:603:GLU:HB2	25:AY:604:PRO:HD2	1.91	0.51
26:BA:284:U:H2'	26:BA:285:G:H8	1.75	0.51
26:BA:1019:U:H3	26:BA:1142:A:H62	1.58	0.51
26:BA:1176:U:H2'	26:BA:1177:G:C8	2.46	0.51
26:BA:1816:C:C5	27:BC:61:TYR:CE1	2.99	0.51
26:BA:2179:C:C4	26:BA:2180:U:C5	2.99	0.51
26:BA:2312:U:H6	26:BA:2312:U:H3'	1.74	0.51
26:BA:2371:G:O2'	52:B1:45:HIS:HD2	1.93	0.51
26:BA:2708:G:O2'	26:BA:2709:G:H5'	2.09	0.51
28:BD:12:THR:HG21	40:BP:8:GLU:HG2	1.92	0.51
30:BF:24:VAL:O	30:BF:24:VAL:CG2	2.58	0.51
30:BF:51:ASN:HD22	30:BF:146:ASP:CB	2.24	0.51
31:BG:148:ARG:NH2	31:BG:166:GLU:OE2	2.43	0.51
32:BH:24:GLY:O	32:BH:27:ARG:O	2.29	0.51
32:BH:50:ARG:O	32:BH:51:ARG:C	2.53	0.51
32:BH:126:GLY:O	32:BH:145:ASN:HA	2.10	0.51
33:BI:57:VAL:O	33:BI:68:PHE:HB2	2.11	0.51
33:BI:66:PHE:N	33:BI:66:PHE:HD2	2.08	0.51
33:BI:75:ALA:CB	33:BI:128:ILE:CG2	2.87	0.51
37:BM:21:ALA:HB1	37:BM:100:LYS:HG2	1.93	0.51
38:BN:21:PHE:CD2	38:BN:24:MET:CE	2.93	0.51
1:AA:33:A:H2'	1:AA:34:C:C6	2.46	0.51
1:AA:390:U:H2'	1:AA:391:G:H8	1.75	0.51
1:AA:497:G:H2'	1:AA:498:A:C8	2.45	0.51
1:AA:874:G:C4	1:AA:875:U:C5	2.98	0.51
1:AA:880:C:O2'	1:AA:881:G:H5'	2.11	0.51
1:AA:1008:U:C2	1:AA:1022:A:C2	2.99	0.51
1:AA:1077:G:C1'	1:AA:1080:A:N6	2.74	0.51
1:AA:1078:U:H5	1:AA:1079:G:C6	2.26	0.51
1:AA:1293:C:C4	1:AA:1294:G:N7	2.78	0.51
1:AA:1367:C:H5"	10:AJ:62:ARG:NH1	2.25	0.51
2:AB:14:HIS:CD2	2:AB:14:HIS:C	2.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:72:PRO:O	3:AC:73:GLY:C	2.54	0.51
3:AC:142:ARG:NH1	22:AV:128:U:O3'	2.37	0.51
4:AD:173:ASP:CB	4:AD:176:LYS:HB2	2.41	0.51
5:AE:81:GLN:HE22	5:AE:148:SER:HA	1.75	0.51
10:AJ:27:GLU:O	10:AJ:29:ALA:N	2.44	0.51
10:AJ:65:TYR:HA	14:AN:99:ALA:H	1.74	0.51
11:AK:87:GLY:O	11:AK:92:ARG:HD2	2.10	0.51
13:AM:18:LEU:HG	13:AM:33:LEU:CD1	2.41	0.51
13:AM:110:GLY:O	13:AM:111:PRO:C	2.54	0.51
15:AO:78:THR:O	15:AO:82:GLU:OE1	2.29	0.51
20:AT:35:TYR:HA	20:AT:38:ILE:CD1	2.40	0.51
20:AT:47:GLN:C	20:AT:47:GLN:HE21	2.19	0.51
22:AV:19:G:H1'	23:AW:82:HIS:HD1	1.76	0.51
22:AV:56:C:C2'	22:AV:57:G:H8	2.04	0.51
22:AV:73:A:C2	22:AV:74:G:N7	2.78	0.51
22:AV:158:U:N1	22:AV:197:A:C6	2.78	0.51
22:AV:211:C:C2	22:AV:212:U:C5	2.98	0.51
22:AV:251:U:H2'	22:AV:252:G:H8	1.75	0.51
22:AV:256:G:O6	22:AV:273:A:C6	2.63	0.51
22:AV:257:U:O4	22:AV:274:G:O6	2.29	0.51
23:AW:57:ASN:OD1	23:AW:74:ARG:NH2	2.38	0.51
23:AW:112:TYR:O	23:AW:114:LYS:HG2	2.11	0.51
24:AX:65:G:H2'	24:AX:66:C:O4'	2.10	0.51
25:AY:340:TYR:CE1	25:AY:351:ARG:HB2	2.45	0.51
26:BA:656:G:H2'	26:BA:657:U:O5'	2.09	0.51
26:BA:898:C:O2	26:BA:899:A:H5'	2.11	0.51
26:BA:911:A:H62	37:BM:9:PHE:HB2	1.75	0.51
26:BA:1372:U:C2'	26:BA:1373:A:C5'	2.88	0.51
26:BA:1826:G:C5	26:BA:1827:U:C5	2.99	0.51
26:BA:2304:G:H2'	26:BA:2305:U:H5"	1.93	0.51
27:BC:203:VAL:O	27:BC:203:VAL:HG23	2.09	0.51
28:BD:104:VAL:O	28:BD:105:LYS:HB2	2.11	0.51
31:BG:86:LEU:HD11	31:BG:132:LEU:CD1	2.39	0.51
32:BH:33:GLN:O	32:BH:34:GLY:O	2.29	0.51
32:BH:72:ILE:HG22	32:BH:73:ASN:OD1	2.10	0.51
32:BH:116:ARG:HD2	32:BH:133:GLN:CG	2.37	0.51
32:BH:116:ARG:HG3	32:BH:133:GLN:CG	2.40	0.51
33:BI:71:LYS:N	33:BI:71:LYS:HD3	2.24	0.51
35:BK:48:PRO:O	35:BK:49:ARG:HG3	2.11	0.51
36:BL:125:LEU:CD1	36:BL:125:LEU:N	2.74	0.51
38:BN:24:MET:HG2	38:BN:44:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BO:7:ARG:HG3	39:BO:96:GLY:HA3	1.92	0.51
42:BR:21:ARG:CZ	42:BR:93:PHE:CE1	2.94	0.51
44:BT:28:ASN:HD21	44:BT:91:GLN:HB3	1.75	0.51
52:B1:11:VAL:O	52:B1:12:SER:C	2.53	0.51
52:B1:25:ASN:OD1	52:B1:27:ARG:HB2	2.10	0.51
54:B3:54:LEU:O	54:B3:58:ILE:HD12	2.10	0.51
56:BB:111:U:H2'	56:BB:112:G:C8	2.46	0.51
1:AA:109:A:C8	1:AA:326:G:H2'	2.46	0.51
1:AA:830:G:C2'	1:AA:831:A:H5'	2.41	0.51
1:AA:830:G:O2'	1:AA:831:A:H5'	2.11	0.51
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.46	0.51
1:AA:1151:A:HO2'	1:AA:1152:A:C5'	2.23	0.51
1:AA:1215:G:C2'	1:AA:1216:A:H5'	2.41	0.51
1:AA:1386:G:C2'	1:AA:1387:G:H5'	2.40	0.51
2:AB:116:LEU:HG	2:AB:140:LEU:HD11	1.93	0.51
2:AB:116:LEU:HB3	2:AB:140:LEU:HD11	1.93	0.51
3:AC:41:TYR:CD1	3:AC:42:LEU:CD1	2.94	0.51
3:AC:87:ARG:HG3	3:AC:100:ILE:HG22	1.91	0.51
3:AC:117:ASP:HA	3:AC:120:THR:HB	1.91	0.51
4:AD:18:LEU:C	4:AD:19:PHE:CG	2.87	0.51
4:AD:49:ASP:O	4:AD:53:GLN:CB	2.59	0.51
4:AD:164:ARG:C	4:AD:166:LYS:N	2.66	0.51
9:AI:6:TYR:HE2	9:AI:17:ARG:CB	2.23	0.51
9:AI:56:MET:HA	9:AI:59:LYS:HB2	1.92	0.51
17:AQ:3:LYS:C	17:AQ:4:ILE:HD12	2.36	0.51
22:AV:161:U:C2	22:AV:162:A:N7	2.78	0.51
22:AV:181:G:C2'	22:AV:182:U:O5'	2.59	0.51
25:AY:259:PHE:C	25:AY:260:LEU:HD13	2.35	0.51
25:AY:550:MET:CE	25:AY:563:ILE:HD11	2.37	0.51
26:BA:18:U:O3'	41:BQ:22:GLY:HA2	2.11	0.51
26:BA:172:A:H2'	26:BA:173:A:C8	2.45	0.51
26:BA:247:G:N7	26:BA:249:C:C2	2.79	0.51
26:BA:1026:G:H2'	26:BA:1027:A:H8	1.74	0.51
26:BA:1088:A:H3'	26:BA:1088:A:N3	2.25	0.51
26:BA:1094:U:O2	26:BA:1096:A:N7	2.43	0.51
26:BA:1138:G:H5"	26:BA:1139:G:OP2	2.11	0.51
26:BA:2096:C:H2'	26:BA:2096:C:O2	2.09	0.51
26:BA:2193:G:C4	26:BA:2194:U:H5	2.24	0.51
26:BA:2311:A:C8	30:BF:76:PHE:CG	2.99	0.51
26:BA:2642:G:N2	26:BA:2773:C:C2	2.79	0.51
26:BA:2766:A:N3	26:BA:2766:A:H2'	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BE:141:MET:O	29:BE:142:ALA:HB3	2.09	0.51
36:BL:127:VAL:CG1	36:BL:132:ARG:HB2	2.41	0.51
37:BM:31:PHE:CZ	37:BM:110:GLU:CA	2.93	0.51
37:BM:57:VAL:O	37:BM:58:LYS:C	2.53	0.51
46:BV:2:PHE:CD1	46:BV:50:MET:CE	2.93	0.51
1:AA:439:U:C6	1:AA:440:C:H5	2.28	0.51
1:AA:663:A:H5'	1:AA:836:G:OP1	2.10	0.51
1:AA:864:A:H3'	1:AA:865:A:C8	2.45	0.51
1:AA:1140:C:O2'	1:AA:1141:C:P	2.68	0.51
1:AA:1385:G:C6	1:AA:1386:G:C5	2.99	0.51
6:AF:9:MET:CE	18:AR:64:LEU:HD22	2.40	0.51
7:AG:87:PRO:C	7:AG:88:VAL:HG12	2.35	0.51
11:AK:95:THR:O	11:AK:99:LEU:HD23	2.11	0.51
13:AM:2:ARG:O	13:AM:3:ILE:O	2.28	0.51
14:AN:41:ARG:HB2	14:AN:42:TRP:CE3	2.44	0.51
16:AP:10:GLY:HA3	16:AP:15:PRO:HA	1.92	0.51
18:AR:32:ILE:O	18:AR:32:ILE:CG1	2.59	0.51
19:AS:43:MET:HE2	19:AS:48:ILE:HD11	1.92	0.51
20:AT:4:LYS:O	20:AT:5:SER:C	2.54	0.51
22:AV:163:G:H2'	22:AV:164:G:H8	1.76	0.51
22:AV:316:A:N1	22:AV:317:G:C6	2.79	0.51
22:AV:361:C:P	26:BA:2602:A:HO2'	2.33	0.51
23:AW:62:PRO:O	23:AW:70:ASN:ND2	2.43	0.51
24:AX:41:C:H2'	24:AX:42:C:C6	2.46	0.51
25:AY:512:ILE:CD1	25:AY:512:ILE:N	2.74	0.51
25:AY:590:ILE:C	25:AY:592:GLU:H	2.18	0.51
26:BA:74:A:H4'	26:BA:75:G:OP2	2.10	0.51
26:BA:434:U:H4'	26:BA:435:C:OP1	2.11	0.51
26:BA:473:G:H2'	26:BA:474:G:O5'	2.10	0.51
26:BA:547:A:C8	26:BA:548:G:O4'	2.63	0.51
26:BA:908:C:OP1	37:BM:22:GLN:HG2	2.03	0.51
26:BA:1059:G:H3'	26:BA:1060:U:H6	1.76	0.51
26:BA:1172:C:N3	26:BA:1173:U:H1'	2.26	0.51
26:BA:1318:U:H2'	26:BA:1319:C:C6	2.46	0.51
26:BA:2108:A:C6	26:BA:2109:U:C2	2.99	0.51
26:BA:2120:G:C2'	26:BA:2121:G:H5'	2.41	0.51
26:BA:2139:U:O2'	26:BA:2140:G:H5'	2.11	0.51
27:BC:93:VAL:HG11	27:BC:103:ILE:HD11	1.92	0.51
28:BD:99:GLU:HG2	28:BD:182:ALA:HB2	1.91	0.51
31:BG:126:THR:HG22	31:BG:128:THR:H	1.75	0.51
32:BH:103:VAL:HG12	32:BH:108:VAL:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:3:LYS:CD	33:BI:4:VAL:H	2.23	0.51
39:BO:54:VAL:O	39:BO:54:VAL:CG2	2.58	0.51
46:BV:21:ARG:C	46:BV:23:ALA:H	2.18	0.51
1:AA:108:G:N3	1:AA:108:G:H5'	2.25	0.51
1:AA:451:A:H61	1:AA:481:G:C5'	2.23	0.51
1:AA:796:C:O2'	1:AA:797:C:H5'	2.11	0.51
1:AA:974:A:H4'	1:AA:975:A:H3'	1.92	0.51
1:AA:1097:C:O2'	1:AA:1169:A:H1'	2.09	0.51
1:AA:1439:G:C6	1:AA:1440:U:C4	2.99	0.51
1:AA:1535:C:O5'	1:AA:1535:C:C6	2.50	0.51
2:AB:224:ARG:O	2:AB:224:ARG:HG2	2.10	0.51
3:AC:41:TYR:CZ	3:AC:89:VAL:HG21	2.45	0.51
3:AC:84:GLU:C	3:AC:86:LEU:H	2.18	0.51
4:AD:54:LEU:CD2	4:AD:55:ARG:N	2.74	0.51
9:AI:91:GLU:C	9:AI:93:LEU:H	2.19	0.51
10:AJ:56:HIS:O	10:AJ:57:VAL:CG1	2.59	0.51
16:AP:48:GLU:OE2	16:AP:51:ARG:HG3	2.11	0.51
20:AT:27:MET:O	20:AT:31:ILE:HD12	2.10	0.51
22:AV:16:U:C2'	22:AV:17:U:OP2	2.59	0.51
22:AV:116:A:N3	22:AV:129:G:N2	2.59	0.51
22:AV:180:G:H3'	22:AV:181:G:C8	2.45	0.51
22:AV:261:G:HO2'	22:AV:262:U:P	2.34	0.51
22:AV:303:G:N2	22:AV:304:C:C2	2.79	0.51
25:AY:9:LEU:O	25:AY:11:ARG:N	2.44	0.51
25:AY:236:GLU:O	25:AY:236:GLU:HG3	2.10	0.51
25:AY:359:HIS:C	25:AY:361:ASN:H	2.18	0.51
25:AY:616:TYR:HB3	25:AY:662:LYS:O	2.11	0.51
26:BA:189:G:P	48:BX:25:LYS:HD2	2.50	0.51
26:BA:876:C:C3'	26:BA:877:A:N7	2.74	0.51
26:BA:1079:C:C4	26:BA:1088:A:C5	2.98	0.51
26:BA:1301:A:N3	26:BA:1301:A:H2'	2.25	0.51
26:BA:1415:U:O2	26:BA:1415:U:C2'	2.59	0.51
26:BA:1585:C:C2'	26:BA:1586:A:C5'	2.89	0.51
26:BA:1901:A:H2'	26:BA:1901:A:N3	2.25	0.51
26:BA:1922:G:C4	26:BA:1923:U:C6	2.99	0.51
27:BC:24:HIS:NE2	27:BC:79:ARG:NH2	2.58	0.51
29:BE:44:ARG:O	29:BE:45:ALA:CB	2.59	0.51
29:BE:118:LEU:CD1	29:BE:188:MET:HG3	2.41	0.51
33:BI:79:LEU:HD11	33:BI:132:ALA:CB	2.41	0.51
36:BL:67:THR:O	36:BL:68:SER:O	2.29	0.51
39:BO:56:LYS:O	39:BO:58:ILE:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:74:ILE:N	42:BR:74:ILE:CD1	2.74	0.51
48:BX:36:ARG:HG3	48:BX:47:THR:HB	1.92	0.51
1:AA:257:G:N3	1:AA:258:G:C8	2.79	0.51
1:AA:439:U:H2'	1:AA:440:C:O5'	2.10	0.51
1:AA:542:G:H2'	1:AA:543:U:H6	1.75	0.51
1:AA:891:U:C5	1:AA:906:A:C2	2.98	0.51
1:AA:974:A:H4'	1:AA:975:A:O5'	2.10	0.51
1:AA:1269:A:C2	1:AA:1313:U:H1'	2.46	0.51
1:AA:1321:U:O3'	19:AS:77:ARG:NH2	2.44	0.51
1:AA:1410:A:C4	1:AA:1491:G:N2	2.78	0.51
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.46	0.51
2:AB:70:GLY:CA	2:AB:163:ILE:CG2	2.89	0.51
3:AC:70:ALA:C	3:AC:72:PRO:HD3	2.36	0.51
5:AE:37:VAL:HG23	5:AE:47:PHE:CA	2.40	0.51
5:AE:119:VAL:HG21	5:AE:122:VAL:CG1	2.40	0.51
8:AH:35:ILE:CD1	8:AH:125:ILE:HG21	2.41	0.51
8:AH:110:MET:CE	8:AH:115:ALA:N	2.74	0.51
15:AO:42:PHE:O	15:AO:46:LYS:HG2	2.11	0.51
16:AP:22:ALA:HA	16:AP:33:ILE:HG13	1.93	0.51
18:AR:42:ARG:HG2	18:AR:43:ILE:CD1	2.39	0.51
22:AV:45:A:H2'	22:AV:46:U:H6	1.76	0.51
22:AV:60:U:H2'	22:AV:62:G:C3'	2.40	0.51
22:AV:130:C:OP1	22:AV:131:U:P	2.69	0.51
22:AV:130:C:C2	22:AV:132:U:C4	2.99	0.51
22:AV:256:G:H2'	22:AV:258:G:C5	2.45	0.51
25:AY:33:LEU:HD11	25:AY:81:ILE:HD12	1.93	0.51
25:AY:486:THR:HG23	25:AY:600:VAL:HG13	1.91	0.51
25:AY:616:TYR:CD2	25:AY:663:THR:HA	2.46	0.51
26:BA:884:U:P	26:BA:886:A:N1	2.84	0.51
26:BA:1045:C:C3'	26:BA:1046:A:H5'	2.40	0.51
26:BA:1138:G:N2	34:BJ:108:MET:HE2	2.26	0.51
26:BA:1809:A:H2'	26:BA:1810:A:C8	2.45	0.51
26:BA:1856:U:O2'	26:BA:1857:G:H5'	2.11	0.51
26:BA:1917:U:C4	26:BA:1918:A:C5	2.99	0.51
26:BA:2502:G:C5'	26:BA:2503:A:H5"	2.41	0.51
27:BC:259:ASN:O	27:BC:261:ARG:N	2.43	0.51
30:BF:48:LEU:O	30:BF:51:ASN:HB2	2.11	0.51
33:BI:121:ILE:HG12	33:BI:124:MET:SD	2.51	0.51
34:BJ:140:LEU:HD11	34:BJ:142:ILE:HD13	1.93	0.51
36:BL:4:ASN:C	36:BL:5:THR:HG22	2.36	0.51
39:BO:3:LYS:CE	56:BB:47:C:OP2	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BX:37:PHE:CE1	48:BX:58:ILE:HG21	2.46	0.51
56:BB:20:G:H2'	56:BB:21:G:C5'	2.41	0.51
1:AA:256:U:H2'	1:AA:257:G:H8	1.76	0.51
1:AA:398:U:O2'	1:AA:399:G:H5'	2.11	0.51
1:AA:495:A:O4'	1:AA:496:A:C8	2.64	0.51
1:AA:537:G:OP1	12:AL:109:ARG:NH2	2.44	0.51
1:AA:982:U:P	14:AN:70:PRO:HG2	2.51	0.51
1:AA:1066:C:H2'	1:AA:1066:C:O2	2.10	0.51
1:AA:1492:A:H3'	1:AA:1493:A:H8	1.75	0.51
1:AA:1513:A:H2'	1:AA:1514:G:C8	2.46	0.51
3:AC:39:ARG:HG2	3:AC:54:ILE:HG12	1.93	0.51
3:AC:204:GLY:O	3:AC:205:GLU:HG2	2.10	0.51
6:AF:62:MET:O	6:AF:63:ASN:HB2	2.10	0.51
8:AH:6:ILE:HG23	8:AH:10:LEU:HD21	1.93	0.51
9:AI:18:VAL:HG11	9:AI:82:ILE:CG1	2.41	0.51
10:AJ:52:LEU:HD21	10:AJ:59:LYS:HA	1.93	0.51
10:AJ:56:HIS:C	10:AJ:57:VAL:O	2.54	0.51
13:AM:13:HIS:CD2	13:AM:41:ASP:HB2	2.46	0.51
13:AM:89:ARG:NH2	13:AM:94:LEU:HD12	2.26	0.51
14:AN:13:VAL:O	14:AN:16:ALA:HB3	2.11	0.51
17:AQ:21:VAL:CG2	17:AQ:22:VAL:N	2.74	0.51
22:AV:208:G:N3	22:AV:209:C:C5	2.79	0.51
23:AW:39:VAL:HG12	23:AW:60:ILE:HA	1.92	0.51
25:AY:25:LYS:HZ2	25:AY:86:GLY:HA2	1.76	0.51
25:AY:203:GLU:O	25:AY:204:GLU:O	2.28	0.51
25:AY:510:VAL:HG12	25:AY:511:LYS:N	2.25	0.51
26:BA:208:C:C2'	26:BA:208:C:O2	2.54	0.51
26:BA:782:A:H4'	26:BA:783:A:O5'	2.11	0.51
26:BA:866:A:N6	26:BA:867:C:N4	2.58	0.51
26:BA:893:C:H2'	26:BA:894:U:H6	1.65	0.51
26:BA:1061:U:H3'	26:BA:1062:G:H5'	1.92	0.51
26:BA:1076:C:H2'	26:BA:1077:A:N9	2.26	0.51
26:BA:1420:A:C6	26:BA:2211:A:N1	2.79	0.51
26:BA:1439:A:C2'	26:BA:1440:U:H5'	2.41	0.51
26:BA:2155:U:H2'	26:BA:2156:G:C4'	2.41	0.51
26:BA:2230:G:H4'	48:BX:29:LEU:HB2	1.92	0.51
26:BA:2820:A:H4'	38:BN:3:HIS:HD2	1.74	0.51
28:BD:13:ARG:HD2	28:BD:15:PHE:CZ	2.45	0.51
28:BD:39:ASP:OD2	28:BD:40:LEU:N	2.44	0.51
28:BD:172:VAL:HG21	28:BD:194:PRO:HD3	1.92	0.51
30:BF:16:MET:HE3	30:BF:16:MET:C	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BK:43:ILE:HD12	35:BK:56:ASP:HB2	1.93	0.51
37:BM:92:TRP:C	37:BM:93:VAL:HG13	2.35	0.51
38:BN:45:ARG:HG2	38:BN:95:THR:HG21	1.93	0.51
42:BR:49:ILE:HG22	42:BR:53:PHE:CA	2.41	0.51
43:BS:66:ILE:O	43:BS:66:ILE:CG2	2.59	0.51
49:BY:20:ASN:O	49:BY:21:LEU:C	2.52	0.51
49:BY:28:LEU:CD2	49:BY:37:LEU:HD21	2.40	0.51
1:AA:77:A:H2'	1:AA:78:A:N7	2.27	0.50
1:AA:451:A:O4'	1:AA:452:A:N3	2.44	0.50
1:AA:919:A:C2'	1:AA:920:U:H5"	2.41	0.50
1:AA:922:G:N1	1:AA:1398:A:N3	2.48	0.50
1:AA:1103:C:O2'	2:AB:106:VAL:HG23	2.11	0.50
1:AA:1241:G:C4	1:AA:1242:G:C8	2.99	0.50
1:AA:1461:G:H2'	1:AA:1462:C:O4'	2.11	0.50
1:AA:1533:C:H4'	1:AA:1534:A:O5'	2.06	0.50
4:AD:53:GLN:NE2	4:AD:202:LEU:N	2.60	0.50
4:AD:57:LYS:CB	4:AD:199:ILE:HB	2.40	0.50
4:AD:169:TRP:NE1	4:AD:185:PRO:CG	2.66	0.50
5:AE:14:LEU:O	5:AE:14:LEU:HD12	2.11	0.50
5:AE:63:MET:O	5:AE:64:GLU:C	2.54	0.50
8:AH:50:VAL:HG22	8:AH:50:VAL:O	2.10	0.50
9:AI:7:GLY:HA3	9:AI:84:ARG:C	2.36	0.50
10:AJ:6:ILE:CD1	10:AJ:76:ILE:HB	2.41	0.50
10:AJ:8:ILE:CD1	10:AJ:74:VAL:HG11	2.40	0.50
10:AJ:33:GLY:HA3	10:AJ:83:THR:OG1	2.11	0.50
15:AO:3:SER:HB2	15:AO:6:ALA:HB2	1.92	0.50
17:AQ:51:GLU:CD	17:AQ:51:GLU:N	2.67	0.50
20:AT:22:SER:O	20:AT:23:ARG:C	2.55	0.50
22:AV:12:U:H5	22:AV:348:C:C1'	2.18	0.50
22:AV:45:A:C2'	22:AV:46:U:C5'	2.85	0.50
22:AV:344:A:C8	30:BF:78:ILE:N	2.78	0.50
23:AW:15:GLU:N	23:AW:121:ARG:O	2.44	0.50
23:AW:104:LYS:CD	23:AW:116:LEU:HD23	2.41	0.50
24:AX:49:C:H6	24:AX:49:C:P	2.34	0.50
25:AY:65:ILE:O	25:AY:67:ALA:N	2.44	0.50
25:AY:181:LEU:CD1	25:AY:242:LEU:HD13	2.40	0.50
25:AY:679:VAL:HB	25:AY:683:VAL:HB	1.94	0.50
26:BA:630:G:C3'	26:BA:631:A:H5"	2.41	0.50
26:BA:905:A:N3	26:BA:906:U:C6	2.79	0.50
26:BA:1483:G:C2	26:BA:1507:C:C2	2.99	0.50
26:BA:1559:U:C3'	26:BA:1560:G:H5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2539:C:H5'	55:B4:3:VAL:HG21	1.92	0.50
26:BA:2593:U:H2'	26:BA:2594:C:H6	1.76	0.50
26:BA:2895:G:H2'	26:BA:2896:C:C6	2.46	0.50
27:BC:199:HIS:O	27:BC:202:ARG:HD3	2.12	0.50
27:BC:200:MET:HG3	27:BC:201:LEU:HD12	1.93	0.50
28:BD:205:PRO:O	28:BD:206:ALA:C	2.52	0.50
30:BF:26:GLN:O	30:BF:27:VAL:C	2.52	0.50
31:BG:123:GLU:OE2	31:BG:124:CYS:HB2	2.11	0.50
32:BH:128:HIS:O	32:BH:144:VAL:N	2.44	0.50
33:BI:7:TYR:HA	33:BI:58:ILE:HG12	1.94	0.50
33:BI:98:GLY:O	33:BI:138:VAL:HG23	2.11	0.50
35:BK:66:LYS:HD2	35:BK:79:PHE:O	2.11	0.50
37:BM:28:PHE:HB3	37:BM:64:TRP:CE2	2.46	0.50
41:BQ:90:ASP:C	41:BQ:90:ASP:OD2	2.54	0.50
44:BT:5:GLU:O	44:BT:6:ARG:C	2.54	0.50
50:BZ:3:THR:HG22	50:BZ:4:ILE:N	2.26	0.50
56:BB:77:U:C2'	56:BB:78:A:H5'	2.41	0.50
1:AA:87:C:H2'	1:AA:88:U:H5'	1.92	0.50
1:AA:234:C:H2'	1:AA:235:C:C6	2.46	0.50
1:AA:302:G:N3	1:AA:556:C:H4'	2.25	0.50
1:AA:429:U:OP2	4:AD:31:CYS:O	2.29	0.50
1:AA:540:G:C2'	1:AA:541:G:H5'	2.42	0.50
1:AA:646:G:C6	1:AA:647:C:N4	2.79	0.50
1:AA:763:G:C5	1:AA:764:C:C5	2.99	0.50
1:AA:1151:A:O2'	1:AA:1152:A:P	2.69	0.50
1:AA:1285:A:H4'	1:AA:1286:U:C2	2.45	0.50
1:AA:1304:G:C5	1:AA:1305:G:N1	2.80	0.50
2:AB:67:LEU:CD2	2:AB:69:VAL:HG23	2.41	0.50
5:AE:19:ARG:NH1	5:AE:30:PHE:CD2	2.79	0.50
5:AE:89:THR:CG2	5:AE:90:GLY:N	2.64	0.50
7:AG:67:ASN:O	7:AG:137:ARG:NH1	2.45	0.50
8:AH:48:PHE:O	8:AH:49:LYS:HG3	2.10	0.50
9:AI:7:GLY:HA3	9:AI:84:ARG:HB3	1.94	0.50
11:AK:112:VAL:O	11:AK:113:THR:C	2.54	0.50
13:AM:82:LEU:N	13:AM:82:LEU:HD23	2.25	0.50
14:AN:43:ASN:OD1	14:AN:47:LYS:CE	2.59	0.50
22:AV:37:C:H2'	22:AV:38:A:O5'	2.12	0.50
22:AV:61:G:N2	22:AV:62:G:O6	2.43	0.50
23:AW:83:LYS:O	23:AW:86:LEU:CD2	2.59	0.50
23:AW:87:ARG:HA	23:AW:90:LEU:CD2	2.40	0.50
25:AY:92:ILE:CG2	25:AY:93:GLU:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:177:ILE:HG21	25:AY:260:LEU:HD21	1.93	0.50
25:AY:223:PHE:CE2	25:AY:249:GLY:HA3	2.47	0.50
25:AY:252:ASP:HB2	25:AY:254:LYS:CG	2.40	0.50
25:AY:407:PRO:HB3	25:AY:452:SER:OG	2.12	0.50
26:BA:592:A:O2'	54:B3:2:LYS:HA	2.12	0.50
26:BA:709:U:H2'	26:BA:710:U:C6	2.45	0.50
26:BA:920:A:C2	26:BA:921:C:C2	2.99	0.50
26:BA:1470:A:H2'	26:BA:1471:G:O4'	2.11	0.50
26:BA:2581:G:C4	26:BA:2610:C:C5	2.99	0.50
27:BC:216:ARG:HB3	27:BC:217:PRO:HD3	1.91	0.50
28:BD:55:LYS:HD2	28:BD:60:VAL:HG22	1.93	0.50
30:BF:105:ILE:HG13	30:BF:106:ALA:N	2.25	0.50
30:BF:117:SER:C	30:BF:119:LYS:H	2.20	0.50
32:BH:53:GLU:HG2	32:BH:57:LYS:HD3	1.93	0.50
33:BI:105:LEU:HD23	33:BI:108:ILE:HG21	1.93	0.50
34:BJ:31:GLU:OE2	34:BJ:35:ARG:HD2	2.10	0.50
39:BO:31:THR:HB	39:BO:34:HIS:H	1.75	0.50
56:BB:20:G:C2'	56:BB:21:G:H5'	2.42	0.50
1:AA:455:G:C2	1:AA:478:A:C2	3.00	0.50
1:AA:605:U:C2'	1:AA:606:G:H5'	2.42	0.50
1:AA:646:G:N1	1:AA:647:C:C4	2.80	0.50
1:AA:656:G:C5	1:AA:657:U:C5	2.99	0.50
1:AA:667:G:H4'	15:AO:50:HIS:ND1	2.26	0.50
1:AA:721:G:C6	1:AA:733:G:N2	2.80	0.50
1:AA:1304:G:C5	1:AA:1305:G:C2	2.99	0.50
2:AB:150:ILE:O	2:AB:151:LYS:O	2.30	0.50
2:AB:195:VAL:HG12	2:AB:197:PHE:C	2.37	0.50
3:AC:96:VAL:CB	3:AC:97:PRO:HD2	2.41	0.50
3:AC:148:ILE:O	3:AC:169:GLU:O	2.30	0.50
4:AD:35:GLN:O	4:AD:36:ALA:HB2	2.11	0.50
4:AD:77:GLU:OE1	4:AD:77:GLU:CA	2.59	0.50
4:AD:195:ASN:O	4:AD:198:LEU:HB2	2.11	0.50
5:AE:95:MET:HB3	5:AE:124:ALA:HB2	1.93	0.50
6:AF:21:MET:HA	6:AF:24:ARG:NH2	2.25	0.50
6:AF:88:MET:HB2	18:AR:63:TYR:HE2	1.75	0.50
7:AG:22:LEU:CD2	7:AG:61:PHE:CZ	2.94	0.50
8:AH:52:GLY:O	8:AH:53:ASP:HB3	2.11	0.50
10:AJ:11:LYS:HA	10:AJ:70:HIS:O	2.11	0.50
10:AJ:67:ILE:HG13	14:AN:96:LEU:HD13	1.94	0.50
16:AP:1:MET:HE3	16:AP:1:MET:N	2.27	0.50
19:AS:4:LEU:C	19:AS:5:LYS:HG3	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:74:ALA:N	19:AS:75:PRO:CD	2.73	0.50
22:AV:17:U:O2	23:AW:112:TYR:HB3	2.11	0.50
22:AV:160:U:C2	22:AV:161:U:C5	2.98	0.50
22:AV:165:A:C4'	22:AV:166:C:O5'	2.57	0.50
22:AV:200:G:N2	22:AV:230:U:O4	2.44	0.50
22:AV:275:C:O2'	22:AV:276:U:H5'	2.11	0.50
23:AW:105:ILE:HD12	23:AW:105:ILE:O	2.12	0.50
24:AX:38:A:C2'	24:AX:39:A:H5'	2.41	0.50
25:AY:74:TRP:CH2	25:AY:270:GLN:HG2	2.47	0.50
25:AY:355:LEU:HD12	25:AY:369:LEU:CD1	2.34	0.50
25:AY:357:ARG:HH11	25:AY:373:ASP:CG	2.19	0.50
25:AY:634:MET:HG2	25:AY:634:MET:O	2.10	0.50
26:BA:643:A:H1'	52:B1:43:ARG:NH2	2.27	0.50
26:BA:752:A:H61	26:BA:2609:U:H3	1.58	0.50
26:BA:875:G:H2'	26:BA:876:C:C6	2.47	0.50
26:BA:1060:U:O4'	26:BA:1062:G:C5'	2.59	0.50
26:BA:1690:A:H2'	26:BA:1691:C:O4'	2.12	0.50
26:BA:1873:G:H2'	26:BA:1874:C:C6	2.47	0.50
27:BC:120:ASP:OD1	27:BC:120:ASP:N	2.44	0.50
36:BL:106:GLU:C	36:BL:107:PHE:CD2	2.89	0.50
40:BP:17:PRO:HG3	40:BP:83:ILE:O	2.11	0.50
40:BP:102:ARG:HH11	40:BP:102:ARG:HG3	1.76	0.50
40:BP:103:THR:O	40:BP:104:GLY:C	2.54	0.50
1:AA:412:A:H1'	1:AA:413:G:C5'	2.41	0.50
1:AA:438:U:C2	1:AA:494:G:C6	2.99	0.50
1:AA:452:A:N7	1:AA:453:G:N9	2.58	0.50
1:AA:470:C:N3	1:AA:471:U:C5	2.79	0.50
1:AA:496:A:H2'	1:AA:496:A:N3	2.26	0.50
1:AA:625:U:H4'	16:AP:16:PHE:CE2	2.46	0.50
1:AA:1347:G:H8	9:AI:108:ARG:CB	2.21	0.50
2:AB:63:LYS:NZ	2:AB:87:ASP:OD1	2.44	0.50
2:AB:81:ASP:N	2:AB:84:LEU:HB3	2.26	0.50
4:AD:125:ASN:HA	4:AD:141:VAL:HG22	1.93	0.50
9:AI:29:ILE:HA	9:AI:64:ILE:HG12	1.92	0.50
9:AI:38:PHE:HA	9:AI:41:GLU:CD	2.36	0.50
11:AK:96:ILE:HG13	11:AK:97:ARG:N	2.27	0.50
17:AQ:37:ILE:H	17:AQ:37:ILE:HD12	1.77	0.50
22:AV:46:U:H4'	22:AV:313:C:P	2.46	0.50
22:AV:171:A:H8	22:AV:171:A:O5'	1.95	0.50
22:AV:175:A:N3	22:AV:176:G:C8	2.79	0.50
22:AV:239:A:O3'	22:AV:240:U:H4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:242:A:H2'	22:AV:243:G:H8	1.77	0.50
23:AW:3:PRO:O	23:AW:4:VAL:CG1	2.60	0.50
23:AW:4:VAL:HG23	23:AW:106:TYR:CE2	2.45	0.50
23:AW:58:LEU:HD12	23:AW:59:TYR:N	2.26	0.50
24:AX:70:C:O2'	24:AX:71:G:H8	1.95	0.50
25:AY:15:ILE:O	25:AY:15:ILE:HD12	2.11	0.50
25:AY:114:VAL:O	25:AY:116:PRO:HD3	2.11	0.50
25:AY:122:TRP:CD1	25:AY:123:ARG:N	2.79	0.50
25:AY:210:ARG:O	25:AY:214:GLU:HG2	2.12	0.50
25:AY:340:TYR:CE2	25:AY:351:ARG:HD3	2.47	0.50
25:AY:546:ILE:CG2	25:AY:590:ILE:HG13	2.27	0.50
26:BA:305:C:O5'	26:BA:305:C:H6	1.94	0.50
26:BA:435:C:C2'	26:BA:436:C:H5'	2.41	0.50
26:BA:1124:G:H1'	55:B4:38:GLY:OXT	2.11	0.50
26:BA:2144:G:HO2'	26:BA:2147:A:N6	2.10	0.50
26:BA:2272:U:H5"	26:BA:2273:A:OP1	2.12	0.50
26:BA:2318:G:C2'	26:BA:2319:G:H5'	2.41	0.50
26:BA:2469:A:C4'	37:BM:55:ARG:HH12	2.23	0.50
26:BA:2691:C:O3'	26:BA:2871:U:H4'	2.11	0.50
29:BE:198:GLU:O	29:BE:199:MET:C	2.53	0.50
30:BF:105:ILE:CG1	30:BF:106:ALA:N	2.74	0.50
31:BG:108:PHE:CE2	31:BG:151:ARG:CZ	2.94	0.50
36:BL:81:ASP:CG	36:BL:100:ILE:HD13	2.37	0.50
39:BO:35:ILE:HD11	39:BO:106:LEU:HD13	1.92	0.50
41:BQ:67:ALA:O	41:BQ:68:ALA:C	2.54	0.50
44:BT:1:MET:CB	44:BT:2:ILE:HD12	2.41	0.50
49:BY:9:LYS:HB3	49:BY:12:GLU:H	1.76	0.50
1:AA:5:U:H4'	1:AA:6:G:C4	2.47	0.50
1:AA:257:G:C2	1:AA:270:A:C2	3.00	0.50
1:AA:262:A:N6	1:AA:263:A:N6	2.60	0.50
1:AA:356:A:H2	1:AA:368:U:O2	1.94	0.50
1:AA:390:U:H2'	1:AA:391:G:O5'	2.11	0.50
1:AA:443:C:H2'	1:AA:444:G:O4'	2.10	0.50
1:AA:590:U:H2'	1:AA:591:U:C6	2.46	0.50
1:AA:842:U:H3'	1:AA:843:U:C5'	2.41	0.50
1:AA:1171:A:C2	1:AA:1172:C:C2	3.00	0.50
2:AB:95:TRP:CD2	2:AB:99:MET:HE3	2.46	0.50
3:AC:86:LEU:HA	3:AC:89:VAL:HG22	1.94	0.50
3:AC:109:GLU:HB2	3:AC:143:LEU:HD23	1.93	0.50
5:AE:105:ILE:CG1	5:AE:123:LEU:HB3	2.42	0.50
6:AF:7:VAL:HG11	18:AR:64:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:65:LEU:C	7:AG:67:ASN:N	2.68	0.50
8:AH:82:LEU:C	8:AH:82:LEU:CD2	2.84	0.50
9:AI:40:ARG:H	9:AI:44:ARG:CB	2.24	0.50
14:AN:35:ALA:CA	14:AN:41:ARG:HB3	2.41	0.50
16:AP:51:ARG:HH11	16:AP:51:ARG:CB	2.24	0.50
19:AS:52:ASN:OD1	19:AS:55:GLN:O	2.30	0.50
19:AS:70:LEU:HD13	19:AS:70:LEU:O	2.11	0.50
21:AU:27:VAL:HG12	21:AU:30:GLU:OE1	2.11	0.50
22:AV:204:G:C6	22:AV:222:U:OP2	2.64	0.50
22:AV:254:U:H3	22:AV:277:G:H1	1.60	0.50
22:AV:315:G:H1'	22:AV:316:A:C4	2.45	0.50
23:AW:60:ILE:HD11	23:AW:77:ARG:HH21	1.76	0.50
23:AW:108:ASN:CG	23:AW:114:LYS:NZ	2.69	0.50
24:AX:56:U:H2'	24:AX:57:C:H3'	1.93	0.50
25:AY:18:ALA:O	25:AY:19:ALA:CB	2.59	0.50
25:AY:71:THR:HG21	25:AY:357:ARG:CD	2.41	0.50
25:AY:92:ILE:CG2	25:AY:454:MET:HE1	2.41	0.50
25:AY:485:GLU:OE1	25:AY:555:LEU:HB2	2.11	0.50
26:BA:1734:G:N3	26:BA:1735:A:C8	2.80	0.50
26:BA:1869:G:C2'	26:BA:1870:C:H5'	2.41	0.50
26:BA:2127:G:C2'	26:BA:2128:G:C8	2.86	0.50
26:BA:2248:C:H5"	26:BA:2249:U:OP2	2.11	0.50
28:BD:142:VAL:HB	28:BD:143:PRO:CD	2.42	0.50
29:BE:7:ASP:O	29:BE:9:GLN:N	2.45	0.50
30:BF:29:ARG:O	30:BF:158:THR:HG23	2.11	0.50
31:BG:49:LEU:HD12	31:BG:71:LEU:HD23	1.94	0.50
31:BG:127:GLN:HE21	31:BG:127:GLN:HA	1.75	0.50
31:BG:154:GLU:HG2	31:BG:155:PRO:HD2	1.93	0.50
32:BH:116:ARG:HG3	32:BH:133:GLN:OE1	2.11	0.50
33:BI:56:VAL:HG22	33:BI:68:PHE:HD2	1.77	0.50
35:BK:7:MET:HE1	35:BK:44:LYS:HG3	1.93	0.50
35:BK:13:ASN:ND2	35:BK:98:ARG:HG3	2.26	0.50
1:AA:148:G:C2'	1:AA:149:A:O5'	2.58	0.50
1:AA:155:A:C2	1:AA:167:A:C2	2.99	0.50
1:AA:218:U:O2'	1:AA:219:U:H5'	2.11	0.50
1:AA:383:A:H2'	1:AA:384:G:O4'	2.11	0.50
1:AA:429:U:H1'	1:AA:430:A:C5'	2.41	0.50
1:AA:802:A:C2'	1:AA:803:G:H5'	2.39	0.50
1:AA:977:A:H1'	1:AA:982:U:O4	2.11	0.50
1:AA:1044:A:C5	1:AA:1045:C:H1'	2.47	0.50
1:AA:1288:A:N3	1:AA:1352:C:O2'	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:66:ILE:O	2:AB:67:LEU:CB	2.59	0.50
2:AB:127:LYS:O	2:AB:128:LEU:O	2.30	0.50
3:AC:7:ASN:O	3:AC:8:GLY:C	2.53	0.50
3:AC:166:TRP:O	3:AC:167:TYR:HD1	1.94	0.50
4:AD:57:LYS:H	4:AD:199:ILE:HG22	1.76	0.50
5:AE:103:GLY:O	5:AE:104:ILE:HG22	2.12	0.50
5:AE:114:LEU:HG	5:AE:122:VAL:HG11	1.94	0.50
8:AH:104:SER:HA	8:AH:109:VAL:HA	1.94	0.50
9:AI:128:LYS:CE	24:AX:35:C:H4'	2.36	0.50
11:AK:109:ILE:HG22	21:AU:16:ARG:NE	2.27	0.50
12:AL:23:LEU:HG	12:AL:24:GLU:H	1.75	0.50
13:AM:9:PRO:O	13:AM:10:ASP:HB2	2.11	0.50
21:AU:16:ARG:NH1	21:AU:19:LYS:CG	2.74	0.50
22:AV:28:U:O2	22:AV:29:G:C6	2.65	0.50
22:AV:37:C:H6	22:AV:37:C:O5'	1.93	0.50
22:AV:40:G:O6	22:AV:316:A:C2	2.56	0.50
22:AV:73:A:N3	22:AV:73:A:H2'	2.27	0.50
22:AV:74:G:C4	22:AV:75:C:C5	2.99	0.50
22:AV:189:C:C2'	22:AV:190:A:C5'	2.58	0.50
22:AV:309:A:P	22:AV:309:A:H2'	2.51	0.50
24:AX:59:A:N1	24:AX:62:C:C5	2.80	0.50
24:AX:62:C:C5'	24:AX:63:C:OP2	2.60	0.50
24:AX:65:G:H2'	24:AX:66:C:C6	2.47	0.50
25:AY:177:ILE:HG22	25:AY:178:ILE:H	1.77	0.50
25:AY:428:LEU:HD13	25:AY:440:VAL:CG1	2.28	0.50
26:BA:137:U:O2'	26:BA:138:U:P	2.70	0.50
26:BA:923:G:H4'	47:BW:25:GLU:HG3	1.93	0.50
26:BA:1106:G:N2	26:BA:1107:G:H1'	2.26	0.50
26:BA:1414:C:C5	26:BA:1415:U:C4	2.99	0.50
26:BA:1734:G:C4	26:BA:1735:A:N7	2.79	0.50
26:BA:2027:G:C5	26:BA:2028:U:C5	3.00	0.50
29:BE:154:ASP:C	29:BE:154:ASP:OD2	2.55	0.50
29:BE:181:ILE:HG23	36:BL:2:ARG:HD3	1.94	0.50
29:BE:189:THR:HG22	29:BE:191:ASP:N	2.27	0.50
32:BH:37:VAL:HG23	32:BH:38:PRO:CD	2.41	0.50
42:BR:54:VAL:O	42:BR:55:ASP:C	2.54	0.50
50:BZ:53:MET:C	50:BZ:54:VAL:HG13	2.37	0.50
53:B2:12:ARG:CG	53:B2:13:ASN:N	2.75	0.50
1:AA:353:A:C2'	1:AA:354:G:OP2	2.59	0.50
1:AA:373:A:C2'	1:AA:374:A:O5'	2.60	0.50
1:AA:874:G:C4	1:AA:875:U:C6	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1294:G:C5	1:AA:1295:U:C5	3.00	0.50
1:AA:1360:A:OP2	14:AN:75:ARG:NH2	2.44	0.50
1:AA:1388:C:O2'	1:AA:1389:C:O4'	2.30	0.50
1:AA:1499:A:N3	1:AA:1500:A:C8	2.79	0.50
2:AB:106:VAL:HA	2:AB:109:SER:OG	2.12	0.50
2:AB:127:LYS:HG3	2:AB:128:LEU:N	2.26	0.50
3:AC:79:LYS:N	3:AC:79:LYS:HD2	2.27	0.50
4:AD:36:ALA:CA	4:AD:41:GLY:HA3	2.37	0.50
5:AE:45:VAL:HG22	5:AE:117:ALA:CB	2.42	0.50
5:AE:100:GLU:OE2	5:AE:102:THR:HA	2.12	0.50
5:AE:132:PRO:HA	5:AE:135:VAL:HG13	1.92	0.50
9:AI:87:MET:HG2	9:AI:88:GLU:N	2.27	0.50
9:AI:90:ASP:OD2	9:AI:90:ASP:C	2.54	0.50
11:AK:52:ARG:HA	11:AK:52:ARG:NE	2.25	0.50
21:AU:11:PHE:HD2	21:AU:11:PHE:H	1.59	0.50
22:AV:14:G:H22	30:BF:82:TYR:HE1	1.58	0.50
22:AV:62:G:H22	22:AV:64:C:N4	2.03	0.50
22:AV:130:C:O2'	22:AV:131:U:OP2	2.30	0.50
22:AV:151:C:O5'	22:AV:151:C:C6	2.62	0.50
22:AV:163:G:N2	22:AV:164:G:C4	2.80	0.50
22:AV:207:A:C4	22:AV:208:G:N7	2.80	0.50
22:AV:277:G:H2'	22:AV:278:G:H8	1.76	0.50
22:AV:314:C:O4'	22:AV:315:G:OP1	2.30	0.50
25:AY:292:THR:HG23	25:AY:297:GLU:H	1.77	0.50
25:AY:368:GLU:C	25:AY:369:LEU:HD12	2.36	0.50
25:AY:388:THR:CG2	25:AY:399:LEU:HD13	2.42	0.50
26:BA:21:A:H2'	26:BA:22:C:O5'	2.11	0.50
26:BA:228:C:H4'	26:BA:229:C:H5"	1.94	0.50
26:BA:851:C:O2'	26:BA:852:U:H5'	2.11	0.50
26:BA:880:G:C2	26:BA:881:G:N7	2.80	0.50
26:BA:1060:U:O4'	26:BA:1062:G:C4'	2.60	0.50
26:BA:1368:G:O2'	26:BA:1369:G:H5'	2.12	0.50
26:BA:1424:G:H2'	26:BA:1425:G:O4'	2.12	0.50
26:BA:1535:A:C5'	26:BA:1536:C:H5	2.25	0.50
26:BA:1838:C:H4'	26:BA:1839:G:H8	1.77	0.50
26:BA:1924:C:H3'	26:BA:1925:C:H5'	1.93	0.50
26:BA:2178:C:H3'	26:BA:2178:C:H6	1.77	0.50
26:BA:2283:C:H2'	26:BA:2284:A:O5'	2.12	0.50
27:BC:244:VAL:HG12	27:BC:250:GLN:HA	1.93	0.50
29:BE:126:VAL:HG21	29:BE:133:LEU:HB2	1.93	0.50
29:BE:176:ASP:OD1	29:BE:178:VAL:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:75:VAL:C	31:BG:77:GLY:N	2.67	0.50
32:BH:31:VAL:HG12	32:BH:32:PRO:CD	2.42	0.50
33:BI:54:ILE:HG12	33:BI:73:PRO:HA	1.94	0.50
33:BI:54:ILE:HG13	33:BI:73:PRO:HB3	1.93	0.50
33:BI:57:VAL:HG11	33:BI:59:THR:OG1	2.11	0.50
43:BS:19:LEU:HB3	51:B0:21:LEU:CD1	2.42	0.50
44:BT:2:ILE:HA	44:BT:3:ARG:C	2.36	0.50
44:BT:2:ILE:HG23	44:BT:7:LEU:HD12	1.92	0.50
45:BU:98:ASN:C	45:BU:100:GLU:N	2.70	0.50
1:AA:22:G:H2'	1:AA:23:C:O4'	2.11	0.50
1:AA:622:A:C2'	1:AA:623:C:H5'	2.41	0.50
1:AA:643:C:C5'	8:AH:31:LEU:HD23	2.42	0.50
1:AA:852:G:C5	1:AA:853:C:C5	2.99	0.50
1:AA:853:C:H2'	1:AA:854:U:C6	2.45	0.50
1:AA:893:C:H2'	1:AA:894:G:H8	1.75	0.50
1:AA:1306:A:C8	1:AA:1307:U:C5	2.99	0.50
1:AA:1377:A:N3	7:AG:1:PRO:HG3	2.27	0.50
1:AA:1539:C:C3'	21:AU:17:ARG:HG2	2.42	0.50
3:AC:28:PHE:HE2	3:AC:32:LEU:HD23	1.77	0.50
4:AD:89:LEU:O	4:AD:89:LEU:HD12	2.10	0.50
6:AF:84:VAL:O	6:AF:84:VAL:HG13	2.11	0.50
8:AH:104:SER:H	8:AH:125:ILE:HD13	1.76	0.50
11:AK:111:ASP:OD1	11:AK:113:THR:HG23	2.12	0.50
17:AQ:12:VAL:HG13	17:AQ:21:VAL:CG1	2.42	0.50
22:AV:17:U:O3'	22:AV:19:G:OP2	2.30	0.50
22:AV:53:G:C2'	22:AV:54:G:OP1	2.60	0.50
22:AV:61:G:O4'	22:AV:61:G:OP2	2.30	0.50
22:AV:158:U:C4'	22:AV:197:A:H2	2.23	0.50
22:AV:184:A:OP1	22:AV:184:A:O4'	2.30	0.50
22:AV:212:U:O5'	22:AV:212:U:H6	1.95	0.50
22:AV:345:A:C2'	22:AV:347:PSU:OP2	2.60	0.50
24:AX:3:C:O2	26:BA:1851:U:H5"	2.12	0.50
24:AX:20:G:C6	26:BA:2112:G:C2'	2.95	0.50
24:AX:48:U:O2	24:AX:48:U:C3'	2.57	0.50
25:AY:16:GLY:N	25:AY:101:LEU:HD13	2.27	0.50
25:AY:25:LYS:NZ	25:AY:86:GLY:HA2	2.27	0.50
25:AY:124:GLN:C	25:AY:127:LYS:HB3	2.37	0.50
25:AY:337:SER:HA	25:AY:355:LEU:CD2	2.42	0.50
25:AY:435:ASP:C	25:AY:435:ASP:OD2	2.55	0.50
26:BA:587:C:C2'	36:BL:19:LEU:HD11	2.42	0.50
26:BA:627:A:C6	26:BA:637:A:C8	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:899:A:H2	26:BA:900:A:N7	2.05	0.50
26:BA:900:A:O5'	26:BA:901:C:OP2	2.30	0.50
26:BA:1535:A:H5"	26:BA:1536:C:H5	1.76	0.50
26:BA:1712:U:C4	26:BA:1713:A:C5	2.99	0.50
26:BA:2334:U:O4	39:BO:16:ARG:CZ	2.59	0.50
30:BF:131:VAL:HG21	30:BF:136:ILE:HD11	1.94	0.50
34:BJ:18:VAL:HG12	34:BJ:19:ASP:N	2.26	0.50
38:BN:10:LEU:O	38:BN:11:ASN:C	2.53	0.50
38:BN:23:ASN:O	38:BN:24:MET:C	2.54	0.50
39:BO:18:LEU:HD11	39:BO:91:SER:HB3	1.94	0.50
40:BP:80:VAL:HG11	40:BP:83:ILE:CD1	2.41	0.50
45:BU:41:VAL:O	45:BU:59:GLU:HA	2.11	0.50
45:BU:101:THR:HG22	45:BU:102:ILE:N	2.26	0.50
46:BV:43:ASP:OD1	46:BV:43:ASP:C	2.54	0.50
49:BY:39:GLN:O	49:BY:40:SER:C	2.55	0.50
1:AA:395:C:H2'	1:AA:396:C:H6	1.74	0.50
1:AA:459:A:H2'	1:AA:460:A:H1'	1.91	0.50
1:AA:472:U:C5	1:AA:473:U:C5	3.00	0.50
1:AA:744:C:H2'	1:AA:745:G:H8	1.76	0.50
1:AA:1296:C:H4'	1:AA:1302:C:N4	2.27	0.50
1:AA:1314:C:O2	1:AA:1314:C:C2'	2.59	0.50
1:AA:1401:G:N2	1:AA:1402:C:H1'	2.27	0.50
2:AB:30:ILE:CD1	2:AB:38:HIS:CG	2.95	0.50
3:AC:59:PRO:HD2	3:AC:62:SER:O	2.12	0.50
3:AC:84:GLU:C	3:AC:86:LEU:N	2.70	0.50
3:AC:129:PHE:CE1	3:AC:130:ARG:HD2	2.47	0.50
6:AF:1:MET:HG3	6:AF:66:ALA:C	2.37	0.50
6:AF:17:GLN:O	6:AF:17:GLN:NE2	2.45	0.50
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.27	0.50
8:AH:46:GLU:O	8:AH:47:ASP:HB2	2.11	0.50
13:AM:33:LEU:HD23	13:AM:38:ILE:HB	1.93	0.50
15:AO:41:HIS:HD2	15:AO:42:PHE:CE2	2.29	0.50
16:AP:73:ALA:O	16:AP:77:GLU:HB2	2.11	0.50
22:AV:9:U:C1'	22:AV:10:U:O5'	2.60	0.50
22:AV:14:G:O2'	22:AV:15:A:O5'	2.26	0.50
22:AV:17:U:C4'	22:AV:18:C:OP2	2.58	0.50
22:AV:130:C:HO2'	22:AV:131:U:P	2.28	0.50
22:AV:143:C:C2'	22:AV:144:U:O4'	2.59	0.50
22:AV:183:C:OP1	22:AV:184:A:OP1	2.30	0.50
22:AV:184:A:C8	22:AV:185:A:N1	2.80	0.50
22:AV:210:C:C1'	22:AV:240:U:C5	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:213:G:H22	22:AV:245:C:N4	2.08	0.50
22:AV:238:A:H2'	22:AV:239:A:H8	1.76	0.50
22:AV:345:A:C6	22:AV:348:C:C2	3.00	0.50
25:AY:232:LEU:N	25:AY:232:LEU:HD22	2.26	0.50
25:AY:303:PRO:HA	25:AY:331:TYR:O	2.12	0.50
25:AY:415:PRO:CB	25:AY:421:GLN:HA	2.41	0.50
25:AY:417:THR:C	25:AY:419:ALA:N	2.70	0.50
25:AY:628:ARG:HG2	25:AY:628:ARG:HH11	1.77	0.50
26:BA:881:G:C2'	26:BA:882:G:H5'	2.42	0.50
26:BA:892:A:N1	26:BA:893:C:N4	2.60	0.50
26:BA:1128:G:O6	26:BA:2491:U:H5	1.94	0.50
26:BA:1414:C:N3	26:BA:1415:U:H5	2.09	0.50
26:BA:1564:C:O2'	26:BA:1565:C:H5'	2.11	0.50
26:BA:1783:A:C2	26:BA:2588:G:O4'	2.65	0.50
26:BA:2216:G:H2'	26:BA:2217:G:C8	2.46	0.50
26:BA:2644:G:O2'	26:BA:2645:G:H5'	2.12	0.50
26:BA:2713:U:H3'	26:BA:2714:G:H5"	1.92	0.50
27:BC:140:VAL:CG1	27:BC:189:ALA:HB1	2.42	0.50
29:BE:146:VAL:O	29:BE:146:VAL:HG23	2.12	0.50
29:BE:149:ILE:HD11	29:BE:172:ALA:N	2.27	0.50
31:BG:164:ALA:C	31:BG:166:GLU:N	2.69	0.50
37:BM:92:TRP:C	37:BM:93:VAL:CG1	2.85	0.50
38:BN:1:MET:O	38:BN:2:ARG:CB	2.59	0.50
46:BV:40:ILE:HG21	46:BV:42:LEU:HD21	1.93	0.50
51:B0:52:LYS:HE2	51:B0:55:ALA:HA	1.92	0.50
52:B1:34:GLU:CG	52:B1:49:LYS:HG3	2.42	0.50
56:BB:59:A:H2'	56:BB:60:C:O5'	2.12	0.50
1:AA:41:G:O2'	1:AA:42:G:H5'	2.11	0.49
1:AA:390:U:H2'	1:AA:391:G:C8	2.47	0.49
1:AA:414:A:C6	1:AA:431:A:C2	3.00	0.49
1:AA:809:G:H2'	1:AA:810:C:O5'	2.11	0.49
1:AA:828:U:H2'	1:AA:829:G:O5'	2.12	0.49
1:AA:918:A:H62	1:AA:919:A:N6	2.09	0.49
1:AA:1067:A:N1	1:AA:1108:G:O2'	2.31	0.49
1:AA:1079:G:H2'	1:AA:1080:A:C4	2.47	0.49
1:AA:1167:A:H5"	1:AA:1168:U:OP2	2.12	0.49
1:AA:1182:G:H4'	1:AA:1183:U:H5'	1.93	0.49
1:AA:1213:A:N1	1:AA:1215:G:H1'	2.27	0.49
1:AA:1226:C:C4	13:AM:102:LYS:HB2	2.46	0.49
1:AA:1326:U:H2'	1:AA:1327:C:C6	2.47	0.49
1:AA:1430:A:OP2	1:AA:1430:A:H8	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1470:U:O2'	1:AA:1471:U:H5'	2.11	0.49
2:AB:104:LYS:NZ	22:AV:121:A:OP2	2.45	0.49
2:AB:141:GLU:O	2:AB:145:ASN:OD1	2.29	0.49
3:AC:22:PHE:C	3:AC:22:PHE:HD2	2.20	0.49
3:AC:129:PHE:O	3:AC:130:ARG:C	2.55	0.49
4:AD:173:ASP:OD1	4:AD:176:LYS:CE	2.60	0.49
5:AE:35:LEU:HD21	5:AE:136:VAL:HG11	1.92	0.49
7:AG:45:ALA:CB	7:AG:119:LEU:HB3	2.42	0.49
7:AG:84:TYR:CE1	7:AG:150:PHE:HE2	2.30	0.49
7:AG:130:LYS:N	7:AG:134:VAL:HG11	2.27	0.49
10:AJ:42:LEU:HD23	10:AJ:43:PRO:HD2	1.94	0.49
10:AJ:81:GLU:HA	10:AJ:84:VAL:HG12	1.94	0.49
11:AK:34:THR:OG1	11:AK:35:ASP:N	2.45	0.49
13:AM:84:CYS:HA	19:AS:72:GLU:O	2.12	0.49
16:AP:18:GLN:HE21	16:AP:35:ARG:NE	2.10	0.49
17:AQ:71:SER:O	17:AQ:72:TRP:CD1	2.65	0.49
20:AT:53:MET:O	20:AT:56:ILE:HG23	2.11	0.49
21:AU:14:ALA:O	21:AU:15:LEU:CB	2.60	0.49
22:AV:39:A:C4	22:AV:40:G:N7	2.79	0.49
22:AV:46:U:C3'	22:AV:313:C:H5'	2.42	0.49
22:AV:163:G:C6	22:AV:164:G:N7	2.80	0.49
22:AV:206:A:O2'	22:AV:207:A:P	2.70	0.49
22:AV:227:C:H1'	22:AV:233:A:N1	2.27	0.49
22:AV:334:A:OP2	22:AV:335:C:N3	2.46	0.49
25:AY:139:MET:CE	25:AY:167:PRO:HG3	2.42	0.49
25:AY:293:THR:HA	25:AY:397:VAL:HG12	1.94	0.49
25:AY:616:TYR:CE2	25:AY:664:GLN:HG3	2.47	0.49
26:BA:1:G:N3	26:BA:2:G:C8	2.80	0.49
26:BA:229:C:C2'	26:BA:230:G:O5'	2.60	0.49
26:BA:246:C:H2'	26:BA:247:G:C5'	2.41	0.49
26:BA:282:A:H2'	26:BA:283:G:C8	2.46	0.49
26:BA:622:G:H2'	26:BA:623:C:H6	1.77	0.49
26:BA:763:G:C4	26:BA:765:C:C6	3.00	0.49
26:BA:888:C:H4'	26:BA:889:C:C6	2.47	0.49
26:BA:1124:G:H2'	26:BA:1125:G:C5'	2.42	0.49
26:BA:1267:U:O2	26:BA:1267:U:H2'	2.10	0.49
26:BA:1686:C:C2'	26:BA:1687:G:H5'	2.42	0.49
26:BA:2119:A:H61	26:BA:2167:U:H1'	1.77	0.49
26:BA:2209:G:C2	26:BA:2216:G:C2	3.00	0.49
26:BA:2247:A:H2'	26:BA:2248:C:H6	1.77	0.49
26:BA:2728:U:O2'	26:BA:2729:G:P	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:47:ALA:HA	28:BD:84:LEU:HG	1.94	0.49
28:BD:136:ASN:HD21	28:BD:139:SER:C	2.20	0.49
29:BE:10:SER:O	29:BE:11:ALA:C	2.55	0.49
29:BE:175:ILE:HD13	29:BE:196:VAL:HG21	1.94	0.49
30:BF:55:ASP:N	30:BF:55:ASP:OD2	2.44	0.49
32:BH:41:LYS:O	32:BH:42:LYS:C	2.55	0.49
33:BI:33:ASN:HB3	33:BI:36:GLU:CG	2.42	0.49
36:BL:77:ILE:HG23	36:BL:100:ILE:HD11	1.94	0.49
42:BR:64:VAL:HG22	42:BR:96:VAL:HA	1.93	0.49
49:BY:23:ARG:HA	49:BY:27:ASN:ND2	2.26	0.49
49:BY:45:GLN:O	49:BY:46:VAL:CB	2.57	0.49
54:B3:54:LEU:O	54:B3:58:ILE:CD1	2.60	0.49
1:AA:19:A:O2'	1:AA:20:U:H5'	2.12	0.49
1:AA:98:A:H2'	1:AA:99:C:C6	2.46	0.49
1:AA:201:G:N1	1:AA:217:C:C2	2.80	0.49
1:AA:240:G:OP1	1:AA:240:G:H4'	2.11	0.49
1:AA:437:U:H4'	4:AD:153:ARG:NH2	2.27	0.49
1:AA:794:A:H2'	1:AA:795:C:C6	2.47	0.49
1:AA:947:G:H2'	1:AA:948:C:O4'	2.12	0.49
1:AA:987:G:C2	1:AA:1219:A:C2	2.99	0.49
1:AA:1240:U:OP1	7:AG:115:MET:HB2	2.13	0.49
2:AB:90:PHE:H	2:AB:90:PHE:HD2	1.60	0.49
2:AB:133:ALA:C	2:AB:135:MET:H	2.20	0.49
2:AB:160:LEU:HB3	2:AB:182:VAL:HA	1.94	0.49
2:AB:209:VAL:O	2:AB:210:THR:C	2.54	0.49
3:AC:26:LYS:H	3:AC:26:LYS:CD	2.15	0.49
5:AE:22:LYS:HB3	5:AE:29:ILE:HG23	1.94	0.49
5:AE:148:SER:HB2	5:AE:151:MET:HB2	1.93	0.49
7:AG:101:ARG:O	7:AG:104:VAL:N	2.45	0.49
8:AH:4:ASP:HB2	8:AH:80:PRO:HG2	1.93	0.49
10:AJ:36:VAL:HG22	10:AJ:76:ILE:HG12	1.94	0.49
13:AM:33:LEU:HD23	13:AM:38:ILE:CG2	2.43	0.49
17:AQ:16:MET:SD	17:AQ:16:MET:N	2.85	0.49
20:AT:53:MET:HE3	20:AT:54:GLN:CA	2.41	0.49
20:AT:54:GLN:HG3	20:AT:75:LYS:NZ	2.27	0.49
22:AV:13:G:O2'	22:AV:14:G:OP1	2.29	0.49
22:AV:15:A:N6	22:AV:345:A:O3'	2.45	0.49
22:AV:256:G:N1	22:AV:273:A:C2	2.80	0.49
22:AV:314:C:O2	22:AV:315:G:O4'	2.30	0.49
23:AW:88:ARG:HD2	23:AW:89:LEU:CA	2.42	0.49
25:AY:15:ILE:CD1	25:AY:81:ILE:HG12	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:66:THR:O	25:AY:67:ALA:HB3	2.10	0.49
25:AY:113:GLY:O	25:AY:115:GLU:N	2.42	0.49
25:AY:121:VAL:CG2	25:AY:122:TRP:H	2.22	0.49
25:AY:146:LEU:C	25:AY:146:LEU:HD23	2.36	0.49
25:AY:481:VAL:HG23	25:AY:483:TYR:CE2	2.47	0.49
25:AY:519:ARG:HH21	25:AY:677:GLN:HB2	1.77	0.49
26:BA:894:U:H3'	26:BA:895:U:C5'	2.36	0.49
26:BA:1106:G:C6	26:BA:1107:G:C5	2.99	0.49
26:BA:1138:G:C2	34:BJ:108:MET:HE2	2.47	0.49
26:BA:1223:G:P	42:BR:68:ARG:HH12	2.35	0.49
26:BA:1922:G:C6	26:BA:1923:U:C4	3.00	0.49
26:BA:2308:G:C5	30:BF:76:PHE:HZ	2.29	0.49
26:BA:2619:C:H5'	28:BD:155:VAL:O	2.12	0.49
26:BA:2714:G:C2'	26:BA:2715:C:H5'	2.42	0.49
29:BE:189:THR:HB	29:BE:192:ALA:HB2	1.94	0.49
33:BI:56:VAL:HG22	33:BI:68:PHE:CD2	2.48	0.49
46:BV:80:HIS:CD2	46:BV:81:PRO:CD	2.95	0.49
47:BW:71:LYS:O	47:BW:72:ASN:HB2	2.11	0.49
49:BY:3:ALA:C	49:BY:5:GLU:H	2.20	0.49
56:BB:24:G:N2	56:BB:28:C:C2	2.80	0.49
1:AA:35:G:C4	1:AA:550:G:N2	2.80	0.49
1:AA:66:A:C2'	1:AA:67:C:H5'	2.42	0.49
1:AA:174:A:C6	1:AA:175:C:C4	3.00	0.49
1:AA:318:G:C4	1:AA:336:A:C2	3.00	0.49
1:AA:809:G:C2'	1:AA:810:C:O5'	2.60	0.49
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.12	0.49
1:AA:1181:G:C2	1:AA:1182:G:N2	2.80	0.49
1:AA:1350:A:OP1	9:AI:122:ARG:HD3	2.12	0.49
1:AA:1501:C:C2	1:AA:1504:G:C6	3.00	0.49
2:AB:63:LYS:HB3	2:AB:65:LYS:HE2	1.95	0.49
2:AB:81:ASP:C	2:AB:83:ALA:N	2.70	0.49
2:AB:170:ILE:O	2:AB:171:ALA:C	2.55	0.49
3:AC:93:ILE:HG22	3:AC:94:ALA:N	2.26	0.49
5:AE:45:VAL:C	5:AE:70:MET:HG3	2.37	0.49
5:AE:113:VAL:CG2	5:AE:114:LEU:N	2.75	0.49
12:AL:2:THR:HB	12:AL:5:GLN:CG	2.43	0.49
13:AM:2:ARG:CG	13:AM:3:ILE:N	2.75	0.49
14:AN:87:ALA:HB3	14:AN:93:ILE:HD11	1.94	0.49
20:AT:28:ARG:CA	20:AT:31:ILE:HD12	2.41	0.49
22:AV:163:G:N2	22:AV:164:G:N9	2.60	0.49
22:AV:231:A:O2'	22:AV:232:A:O5'	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:332:G:O2'	22:AV:333:G:O5'	2.30	0.49
24:AX:49:C:H5'	24:AX:50:G:H5"	1.95	0.49
25:AY:422:GLU:O	25:AY:423:LYS:C	2.54	0.49
25:AY:626:ALA:HA	26:BA:2473:U:C1'	2.42	0.49
25:AY:635:GLU:OE1	25:AY:644:ARG:HD2	2.11	0.49
26:BA:298:G:H5"	26:BA:299:A:OP1	2.11	0.49
26:BA:353:C:H2'	26:BA:353:C:O2	2.12	0.49
26:BA:361:G:O2'	26:BA:362:A:O5'	2.30	0.49
26:BA:878:A:H2'	26:BA:879:G:C5'	2.34	0.49
26:BA:1138:G:N3	34:BJ:108:MET:HE2	2.27	0.49
26:BA:1530:G:H5'	26:BA:1531:C:OP2	2.12	0.49
26:BA:1767:G:O2'	26:BA:1768:C:H5'	2.12	0.49
26:BA:2094:A:H5"	32:BH:25:TYR:CG	2.47	0.49
26:BA:2163:A:H3'	26:BA:2164:C:C4'	2.42	0.49
26:BA:2183:A:H2'	26:BA:2184:A:H8	1.77	0.49
27:BC:251:THR:O	27:BC:252:LYS:C	2.54	0.49
29:BE:23:PHE:CE1	29:BE:28:VAL:HG21	2.47	0.49
33:BI:114:ALA:O	33:BI:115:ASP:HB2	2.11	0.49
34:BJ:24:THR:O	34:BJ:25:LEU:C	2.55	0.49
36:BL:77:ILE:HD13	36:BL:77:ILE:N	2.27	0.49
38:BN:9:GLN:O	38:BN:10:LEU:C	2.55	0.49
43:BS:59:GLU:HG3	43:BS:66:ILE:HD11	1.94	0.49
45:BU:101:THR:CG2	45:BU:102:ILE:N	2.75	0.49
1:AA:135:C:O2	16:AP:1:MET:N	2.34	0.49
1:AA:233:C:C2	1:AA:234:C:C5	3.01	0.49
1:AA:369:G:C6	1:AA:370:C:N4	2.80	0.49
1:AA:406:G:C4	1:AA:407:U:C5	3.00	0.49
1:AA:541:G:N3	1:AA:542:G:C8	2.80	0.49
1:AA:564:C:H2'	1:AA:565:U:O4'	2.12	0.49
1:AA:821:G:H2'	1:AA:822:U:C6	2.48	0.49
1:AA:858:G:O2'	1:AA:859:G:H5'	2.13	0.49
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.12	0.49
1:AA:929:G:C6	1:AA:930:C:C4	3.00	0.49
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.11	0.49
1:AA:1300:G:C6	1:AA:1334:G:C5	3.00	0.49
2:AB:32:GLY:HA3	2:AB:38:HIS:CB	2.42	0.49
2:AB:112:ARG:O	2:AB:116:LEU:HB2	2.13	0.49
5:AE:110:MET:HA	5:AE:113:VAL:HG13	1.95	0.49
6:AF:17:GLN:HE21	6:AF:17:GLN:HA	1.77	0.49
7:AG:20:GLU:OE2	7:AG:20:GLU:HA	2.11	0.49
9:AI:87:MET:CG	9:AI:88:GLU:N	2.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:65:TYR:O	12:AL:96:THR:N	2.44	0.49
13:AM:48:SER:O	13:AM:49:GLU:C	2.56	0.49
13:AM:106:ARG:HH11	13:AM:106:ARG:CG	2.25	0.49
14:AN:43:ASN:CA	14:AN:45:VAL:HG22	2.41	0.49
15:AO:3:SER:O	15:AO:7:THR:HG23	2.12	0.49
15:AO:80:LEU:O	15:AO:84:LEU:HB2	2.13	0.49
16:AP:1:MET:HE3	16:AP:1:MET:H1	1.77	0.49
16:AP:53:ASP:C	16:AP:53:ASP:OD1	2.55	0.49
16:AP:80:LYS:HE3	16:AP:80:LYS:CA	2.43	0.49
17:AQ:11:VAL:O	17:AQ:12:VAL:CG1	2.60	0.49
18:AR:26:ALA:O	18:AR:29:LYS:HE3	2.12	0.49
22:AV:39:A:C4	22:AV:40:G:C8	3.00	0.49
22:AV:183:C:H4’	22:AV:183:C:OP1	2.12	0.49
22:AV:206:A:OP1	22:AV:206:A:O4’	2.30	0.49
22:AV:228:G:C4	22:AV:229:U:C5	3.00	0.49
22:AV:240:U:O3’	22:AV:240:U:OP1	2.30	0.49
23:AW:37:GLY:O	26:BA:1910:G:C4’	2.60	0.49
24:AX:56:U:N3	24:AX:59:A:OP2	2.45	0.49
24:AX:63:C:H3’	24:AX:64:G:H5”	1.94	0.49
25:AY:298:VAL:HG13	25:AY:299:VAL:N	2.26	0.49
25:AY:334:THR:CG2	25:AY:370:LYS:HG2	2.42	0.49
25:AY:655:TYR:CZ	25:AY:659:LEU:HD23	2.47	0.49
26:BA:151:C:OP1	26:BA:1359:A:O2’	2.28	0.49
26:BA:630:G:N2	26:BA:634:C:C4	2.80	0.49
26:BA:634:C:H6	26:BA:634:C:O5’	1.96	0.49
26:BA:897:C:C2’	26:BA:898:C:O4’	2.60	0.49
26:BA:989:G:C8	50:BZ:13:ILE:HD11	2.47	0.49
26:BA:996:A:C2	26:BA:997:G:C8	3.00	0.49
26:BA:1053:C:C4	26:BA:1054:A:C8	3.00	0.49
26:BA:1069:A:O2’	26:BA:1070:A:H5”	2.12	0.49
26:BA:1178:C:C5’	26:BA:1179:G:OP1	2.60	0.49
26:BA:1567:G:C5	27:BC:82:TYR:CD1	3.01	0.49
26:BA:1584:U:H3’	26:BA:1584:U:O2	2.12	0.49
26:BA:2139:U:C2	26:BA:2140:G:C8	3.01	0.49
26:BA:2305:U:H2’	26:BA:2306:C:C6	2.47	0.49
26:BA:2307:G:H22	26:BA:2311:A:C2’	2.25	0.49
26:BA:2309:A:N6	26:BA:2310:C:N4	2.60	0.49
29:BE:131:THR:HA	29:BE:160:ALA:HB1	1.93	0.49
31:BG:16:VAL:HG22	31:BG:25:ILE:CD1	2.43	0.49
31:BG:154:GLU:HG2	31:BG:155:PRO:N	2.27	0.49
33:BI:85:ILE:CG1	33:BI:88:GLY:HA2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BJ:31:GLU:O	34:BJ:35:ARG:HG3	2.13	0.49
36:BL:124:GLY:C	36:BL:125:LEU:HD12	2.38	0.49
38:BN:79:LEU:HD12	38:BN:79:LEU:H	1.76	0.49
45:BU:38:ILE:HG22	45:BU:39:ASN:N	2.25	0.49
56:BB:103:U:O2'	56:BB:104:A:H5'	2.12	0.49
1:AA:45:G:N2	1:AA:398:U:C4	2.80	0.49
1:AA:194:C:H2'	1:AA:195:A:H5'	1.95	0.49
1:AA:198:G:C2	1:AA:199:A:C8	2.99	0.49
1:AA:429:U:O2	1:AA:430:A:C8	2.65	0.49
1:AA:445:G:C2'	1:AA:446:G:H5'	2.43	0.49
1:AA:488:C:O5'	1:AA:488:C:H6	1.96	0.49
1:AA:646:G:C6	1:AA:647:C:C4	3.00	0.49
1:AA:955:U:C5	1:AA:956:U:C4	3.00	0.49
1:AA:1079:G:OP1	5:AE:49:TYR:CE1	2.65	0.49
1:AA:1100:C:C5	2:AB:94:ARG:HD2	2.45	0.49
2:AB:30:ILE:HG12	2:AB:38:HIS:HB2	1.95	0.49
2:AB:103:TRP:HZ2	2:AB:153:MET:HG2	1.77	0.49
4:AD:53:GLN:HE21	4:AD:202:LEU:N	2.10	0.49
4:AD:89:LEU:O	4:AD:93:LEU:HD12	2.13	0.49
5:AE:14:LEU:CD1	5:AE:14:LEU:O	2.60	0.49
5:AE:150:GLU:O	5:AE:153:ALA:CB	2.60	0.49
10:AJ:17:LEU:HD23	10:AJ:17:LEU:C	2.37	0.49
10:AJ:53:ILE:HD11	10:AJ:63:ASP:CG	2.38	0.49
13:AM:22:TYR:CD2	13:AM:68:LEU:HD23	2.48	0.49
19:AS:80:ARG:HA	19:AS:80:ARG:NE	2.27	0.49
22:AV:67:G:N3	22:AV:68:U:O4	2.45	0.49
22:AV:245:C:O2	22:AV:245:C:H2'	2.11	0.49
22:AV:272:C:H2'	22:AV:273:A:O5'	2.13	0.49
23:AW:71:VAL:CG1	23:AW:72:ASP:N	2.74	0.49
25:AY:106:VAL:CG2	25:AY:132:ARG:HG3	2.43	0.49
25:AY:255:ILE:CG1	25:AY:256:THR:N	2.74	0.49
25:AY:635:GLU:CD	25:AY:635:GLU:N	2.71	0.49
25:AY:681:LYS:HD2	25:AY:682:GLN:N	2.28	0.49
26:BA:20:C:O2'	26:BA:21:A:H5'	2.12	0.49
26:BA:702:U:H2'	26:BA:703:U:O4'	2.13	0.49
26:BA:864:G:C6	26:BA:865:C:N4	2.81	0.49
26:BA:866:A:N3	26:BA:867:C:C6	2.79	0.49
26:BA:882:G:N1	26:BA:895:U:N3	2.61	0.49
26:BA:1081:U:H6	26:BA:1081:U:OP2	1.95	0.49
26:BA:1518:C:O5'	26:BA:1518:C:H6	1.95	0.49
26:BA:1599:U:P	44:BT:40:LYS:HG3	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1856:U:H2'	26:BA:1857:G:H5'	1.93	0.49
26:BA:1875:G:C2'	26:BA:1876:A:OP2	2.60	0.49
26:BA:2298:A:H2'	26:BA:2299:U:H5'	1.95	0.49
26:BA:2748:A:C2	26:BA:2757:A:C5	3.01	0.49
26:BA:2813:A:H2'	26:BA:2814:A:H5'	1.94	0.49
27:BC:70:LYS:HE3	27:BC:95:TYR:CD2	2.47	0.49
29:BE:178:VAL:CG1	29:BE:179:SER:N	2.75	0.49
36:BL:78:ARG:CZ	36:BL:113:ALA:HB1	2.42	0.49
37:BM:28:PHE:HB2	37:BM:104:GLU:OE2	2.12	0.49
37:BM:125:PRO:C	37:BM:126:ILE:CG2	2.86	0.49
38:BN:66:ALA:O	38:BN:69:ARG:O	2.30	0.49
1:AA:22:G:O2'	1:AA:913:A:N1	2.39	0.49
1:AA:402:G:H2'	1:AA:403:C:H5'	1.94	0.49
1:AA:600:A:C4	1:AA:639:G:N2	2.80	0.49
1:AA:774:G:N2	1:AA:806:C:C6	2.80	0.49
1:AA:803:G:C6	1:AA:804:U:N3	2.80	0.49
1:AA:917:G:C6	1:AA:918:A:C5	2.99	0.49
1:AA:1006:G:C2	1:AA:1007:U:C2	3.01	0.49
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.48	0.49
1:AA:1213:A:C2	1:AA:1215:G:H1'	2.47	0.49
1:AA:1314:C:N3	1:AA:1315:U:C5	2.80	0.49
1:AA:1499:A:H2'	1:AA:1500:A:H8	1.77	0.49
5:AE:80:LEU:HD12	5:AE:146:MET:SD	2.51	0.49
6:AF:46:GLN:HA	6:AF:56:LYS:HG2	1.95	0.49
8:AH:31:LEU:C	8:AH:31:LEU:HD13	2.37	0.49
8:AH:44:PHE:HA	8:AH:70:VAL:HG11	1.95	0.49
11:AK:124:LYS:O	21:AU:33:ARG:NE	2.40	0.49
12:AL:43:LYS:CB	12:AL:44:PRO:HD3	2.42	0.49
13:AM:44:ILE:N	13:AM:44:ILE:HD12	2.27	0.49
15:AO:86:LEU:O	15:AO:87:ARG:HB3	2.13	0.49
16:AP:79:ASN:O	16:AP:80:LYS:HB2	2.12	0.49
17:AQ:13:SER:HB3	17:AQ:21:VAL:CG1	2.42	0.49
21:AU:9:GLU:CD	21:AU:10:PRO:CD	2.82	0.49
22:AV:63:C:N4	22:AV:73:A:N6	2.61	0.49
22:AV:148:U:O2'	22:AV:149:A:O4'	2.30	0.49
22:AV:159:C:C2'	22:AV:160:U:H5'	2.43	0.49
22:AV:300:U:O4	22:AV:301:A:N6	2.45	0.49
25:AY:20:HIS:N	25:AY:121:VAL:HG11	2.27	0.49
25:AY:121:VAL:CA	25:AY:124:GLN:HE22	2.25	0.49
25:AY:466:LEU:O	25:AY:470:PHE:HB2	2.12	0.49
25:AY:619:ASP:O	31:BG:175:LYS:NZ	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:681:LYS:HD2	25:AY:681:LYS:C	2.38	0.49
26:BA:1:G:H2'	26:BA:2:G:H8	1.78	0.49
26:BA:35:G:H2'	26:BA:36:G:O5'	2.13	0.49
26:BA:122:G:H2'	26:BA:123:G:O4'	2.12	0.49
26:BA:658:U:C2'	26:BA:659:G:O5'	2.59	0.49
26:BA:875:G:C6	26:BA:902:C:N4	2.73	0.49
26:BA:882:G:N2	26:BA:895:U:C2	2.80	0.49
26:BA:1434:A:O2'	26:BA:1435:G:H8	1.95	0.49
26:BA:1478:G:H2'	26:BA:1479:G:C8	2.47	0.49
26:BA:1547:C:C6	26:BA:1547:C:C3'	2.95	0.49
26:BA:2590:A:OP2	27:BC:236:GLY:HA2	2.13	0.49
26:BA:2798:U:H5'	26:BA:2798:U:H6	1.77	0.49
27:BC:224:MET:HE3	27:BC:229:HIS:CD2	2.48	0.49
27:BC:246:PRO:HG2	27:BC:247:TRP:CZ3	2.47	0.49
29:BE:60:TRP:O	29:BE:61:ARG:C	2.56	0.49
30:BF:129:MET:HE3	30:BF:129:MET:HB2	1.70	0.49
31:BG:93:TYR:CD2	31:BG:106:LEU:HA	2.47	0.49
43:BS:11:ARG:O	43:BS:12:SER:CB	2.61	0.49
1:AA:100:G:C5	1:AA:101:A:N7	2.80	0.49
1:AA:149:A:C1'	1:AA:1446:A:C2	2.96	0.49
1:AA:414:A:C5	1:AA:431:A:C2	3.01	0.49
1:AA:452:A:H3'	1:AA:452:A:H8	1.77	0.49
1:AA:570:G:H1'	1:AA:820:U:N3	2.27	0.49
1:AA:675:A:O4'	11:AK:117:HIS:CD2	2.65	0.49
1:AA:731:G:OP1	1:AA:766:A:H1'	2.13	0.49
1:AA:735:C:O2'	1:AA:736:C:H5'	2.13	0.49
1:AA:996:A:C2	1:AA:1046:A:H5'	2.47	0.49
1:AA:1129:C:C5'	9:AI:17:ARG:HH22	2.26	0.49
1:AA:1233:G:C4	1:AA:1234:C:C5	3.01	0.49
3:AC:15:LYS:HG3	3:AC:16:PRO:HD2	1.93	0.49
6:AF:39:LEU:CD1	6:AF:39:LEU:C	2.85	0.49
7:AG:25:PHE:N	7:AG:100:MET:HE1	2.27	0.49
7:AG:115:MET:O	7:AG:119:LEU:HB2	2.12	0.49
9:AI:20:ILE:CD1	9:AI:86:LEU:CD1	2.91	0.49
10:AJ:28:THR:HG22	10:AJ:86:ALA:HB1	1.94	0.49
10:AJ:49:PHE:N	10:AJ:49:PHE:HD1	2.09	0.49
14:AN:15:LEU:C	14:AN:17:ASP:N	2.71	0.49
14:AN:42:TRP:H	14:AN:42:TRP:HE3	1.60	0.49
17:AQ:46:HIS:O	17:AQ:73:THR:CG2	2.61	0.49
18:AR:54:LEU:HD11	18:AR:58:ILE:HD11	1.93	0.49
21:AU:44:ARG:N	21:AU:44:ARG:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:55:G:P	22:AV:56:C:OP2	2.70	0.49
22:AV:63:C:H1'	22:AV:73:A:H2	1.75	0.49
22:AV:245:C:C3'	22:AV:248:G:H1'	2.42	0.49
22:AV:290:A:O2'	22:AV:291:A:OP2	2.30	0.49
22:AV:299:C:HO2'	22:AV:300:U:C4'	2.21	0.49
22:AV:315:G:C4	22:AV:316:A:N6	2.77	0.49
22:AV:332:G:O2'	22:AV:333:G:C8	2.58	0.49
23:AW:85:GLU:O	23:AW:89:LEU:CD2	2.46	0.49
25:AY:77:HIS:CD2	25:AY:277:VAL:HG21	2.48	0.49
25:AY:204:GLU:O	25:AY:205:TYR:C	2.56	0.49
25:AY:539:ILE:HD12	25:AY:567:LEU:CD2	2.42	0.49
26:BA:899:A:O2'	26:BA:900:A:O5'	2.30	0.49
26:BA:1039:A:H2'	26:BA:1040:A:O5'	2.13	0.49
26:BA:1989:G:H2'	26:BA:1990:C:O5'	2.13	0.49
26:BA:2144:G:HO2'	26:BA:2147:A:H61	1.59	0.49
26:BA:2167:U:H2'	26:BA:2169:A:OP2	2.13	0.49
26:BA:2293:G:H2'	26:BA:2294:G:O4'	2.12	0.49
26:BA:2514:U:H2'	26:BA:2515:C:C6	2.48	0.49
27:BC:43:ASN:HB3	27:BC:49:THR:HG21	1.93	0.49
27:BC:76:VAL:HA	27:BC:113:ASP:O	2.12	0.49
28:BD:3:GLY:HA3	28:BD:203:VAL:O	2.12	0.49
29:BE:29:HIS:CE1	36:BL:8:PRO:HD3	2.48	0.49
33:BI:79:LEU:HA	33:BI:83:ALA:HB3	1.94	0.49
33:BI:83:ALA:HB2	33:BI:105:LEU:HD21	1.92	0.49
36:BL:111:ILE:N	36:BL:111:ILE:CD1	2.73	0.49
37:BM:97:GLN:CD	37:BM:97:GLN:N	2.70	0.49
39:BO:19:GLN:C	39:BO:21:LEU:H	2.20	0.49
44:BT:49:LYS:CA	44:BT:49:LYS:HE3	2.42	0.49
44:BT:87:LEU:O	44:BT:89:GLU:N	2.46	0.49
47:BW:6:THR:O	47:BW:7:ARG:HB2	2.12	0.49
1:AA:101:A:C6	1:AA:102:G:N7	2.80	0.49
1:AA:123:U:H4'	1:AA:290:C:O2	2.13	0.49
1:AA:173:U:C6	1:AA:197:A:C2	3.01	0.49
1:AA:516:U:C4	1:AA:517:G:C6	3.00	0.49
1:AA:609:A:O5'	1:AA:609:A:C8	2.66	0.49
1:AA:656:G:N3	1:AA:657:U:C6	2.81	0.49
1:AA:658:C:C4	1:AA:659:U:H5	2.29	0.49
1:AA:929:G:C4'	1:AA:1533:C:H5'	2.42	0.49
1:AA:940:C:O5'	1:AA:940:C:H6	1.95	0.49
1:AA:1061:G:C5'	1:AA:1062:U:OP2	2.60	0.49
1:AA:1288:A:H2'	1:AA:1289:A:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1330:U:H2'	1:AA:1331:G:C5'	2.37	0.49
1:AA:1538:C:H2'	1:AA:1539:C:H6	1.78	0.49
3:AC:54:ILE:O	3:AC:54:ILE:CG1	2.60	0.49
3:AC:119:ILE:O	3:AC:120:THR:C	2.55	0.49
7:AG:22:LEU:HD21	7:AG:61:PHE:CZ	2.47	0.49
8:AH:1:SER:O	8:AH:4:ASP:N	2.44	0.49
9:AI:117:LEU:HD23	9:AI:121:ARG:C	2.38	0.49
15:AO:69:LEU:O	15:AO:70:LYS:C	2.54	0.49
17:AQ:16:MET:HB2	17:AQ:19:SER:HB3	1.94	0.49
22:AV:18:C:N3	23:AW:82:HIS:HE1	1.98	0.49
22:AV:133:A:C2	22:AV:134:G:C5	3.01	0.49
22:AV:194:G:C2	22:AV:195:A:C5	3.00	0.49
22:AV:263:G:C8	22:AV:308:U:C5	3.00	0.49
22:AV:308:U:O4'	22:AV:309:A:O5'	2.30	0.49
22:AV:332:G:C4'	22:AV:333:G:OP1	2.59	0.49
24:AX:27:G:C5	24:AX:28:U:H5	2.30	0.49
24:AX:77:A:N9	26:BA:2421:G:H2'	2.27	0.49
25:AY:121:VAL:CA	25:AY:124:GLN:NE2	2.75	0.49
25:AY:315:LYS:HZ3	25:AY:317:MET:HG2	1.76	0.49
26:BA:31:C:H2'	26:BA:32:C:H5'	1.92	0.49
26:BA:79:C:O2	26:BA:108:G:C2	2.66	0.49
26:BA:183:C:C2'	26:BA:184:C:H5'	2.42	0.49
26:BA:184:C:H2'	26:BA:185:G:C8	2.48	0.49
26:BA:580:U:O3'	41:BQ:30:VAL:HG13	2.12	0.49
26:BA:593:U:H2'	26:BA:594:U:C6	2.47	0.49
26:BA:1730:C:H1'	26:BA:1731:G:C6	2.48	0.49
26:BA:2520:C:C6	26:BA:2567:G:H1'	2.48	0.49
26:BA:2683:C:H4'	28:BD:13:ARG:NH1	2.28	0.49
27:BC:104:LEU:N	27:BC:104:LEU:HD13	2.28	0.49
27:BC:194:VAL:HG22	27:BC:195:GLY:N	2.28	0.49
28:BD:33:ARG:NH1	28:BD:53:GLY:O	2.46	0.49
29:BE:120:VAL:HA	29:BE:188:MET:O	2.12	0.49
30:BF:20:ASN:O	30:BF:20:ASN:ND2	2.45	0.49
32:BH:3:VAL:HA	32:BH:39:ALA:N	2.28	0.49
34:BJ:58:ASN:N	34:BJ:127:GLY:O	2.45	0.49
36:BL:53:GLY:O	36:BL:54:GLN:C	2.55	0.49
37:BM:108:VAL:HG12	37:BM:109:PRO:CD	2.43	0.49
39:BO:7:ARG:HA	39:BO:10:ARG:NH2	2.28	0.49
45:BU:68:ASN:C	45:BU:69:VAL:HG13	2.38	0.49
1:AA:439:U:C2'	1:AA:440:C:O5'	2.60	0.49
1:AA:923:A:H2	1:AA:1399:C:OP2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:928:G:O2'	1:AA:1533:C:O5'	2.31	0.49
1:AA:1067:A:H3'	1:AA:1094:G:OP1	2.13	0.49
1:AA:1300:G:C5	1:AA:1334:G:C6	3.01	0.49
1:AA:1312:G:C2	1:AA:1326:U:C2	3.01	0.49
1:AA:1387:G:O6	1:AA:1388:C:N4	2.44	0.49
4:AD:168:THR:CG2	4:AD:183:ARG:NH2	2.75	0.49
6:AF:12:PRO:O	6:AF:13:ASP:C	2.56	0.49
6:AF:37:HIS:CD2	6:AF:37:HIS:N	2.79	0.49
8:AH:46:GLU:HB2	8:AH:63:LYS:HG2	1.93	0.49
11:AK:71:ASP:O	11:AK:72:ALA:HB2	2.12	0.49
11:AK:106:ILE:O	11:AK:106:ILE:HG23	2.13	0.49
12:AL:74:GLN:O	12:AL:75:GLU:C	2.55	0.49
17:AQ:60:ILE:HG23	17:AQ:72:TRP:HE3	1.78	0.49
22:AV:163:G:C2	22:AV:164:G:C4	3.01	0.49
22:AV:266:C:N4	22:AV:267:G:C5	2.81	0.49
22:AV:333:G:OP2	22:AV:334:A:OP2	2.30	0.49
22:AV:362:C:O5'	22:AV:363:A:OP2	2.30	0.49
23:AW:46:ALA:HB3	23:AW:100:LEU:HB3	1.94	0.49
23:AW:47:ARG:NH1	23:AW:48:PHE:CE1	2.78	0.49
23:AW:65:LYS:CG	23:AW:66:GLY:H	2.11	0.49
24:AX:34:U:H2'	24:AX:36:A:OP2	2.12	0.49
24:AX:50:G:H2'	24:AX:51:U:C6	2.44	0.49
25:AY:15:ILE:C	25:AY:101:LEU:HD13	2.37	0.49
25:AY:181:LEU:HD23	25:AY:182:ARG:HH12	1.77	0.49
25:AY:416:LYS:CD	25:AY:417:THR:N	2.67	0.49
26:BA:35:G:C2'	26:BA:36:G:O5'	2.60	0.49
26:BA:49:A:C8	26:BA:51:G:C2	3.01	0.49
26:BA:284:U:H2'	26:BA:285:G:C8	2.48	0.49
26:BA:640:C:O2'	26:BA:641:U:H5'	2.13	0.49
26:BA:686:U:O4	53:B2:12:ARG:HB2	2.13	0.49
26:BA:880:G:C2	26:BA:881:G:C5	3.01	0.49
26:BA:886:A:O2'	26:BA:887:U:P	2.71	0.49
26:BA:887:U:C1'	26:BA:888:C:C6	2.96	0.49
26:BA:1020:A:C2	26:BA:1141:U:C2	3.01	0.49
26:BA:1106:G:C4	26:BA:1107:G:C8	3.01	0.49
26:BA:1450:G:C6	26:BA:1451:C:N4	2.81	0.49
26:BA:1559:U:H3'	26:BA:1560:G:H5'	1.95	0.49
26:BA:2152:G:C4	26:BA:2153:C:C6	3.00	0.49
26:BA:2181:U:O2'	26:BA:2182:U:H5'	2.12	0.49
26:BA:2221:G:H2'	26:BA:2222:C:C5'	2.42	0.49
26:BA:2469:A:H4'	37:BM:55:ARG:HH22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BC:210:ALA:O	27:BC:215:VAL:HB	2.12	0.49
28:BD:32:ASN:N	28:BD:32:ASN:HD22	2.09	0.49
28:BD:47:ALA:HB1	28:BD:82:PHE:O	2.13	0.49
29:BE:3:LEU:O	29:BE:11:ALA:HA	2.13	0.49
31:BG:53:PRO:HD3	31:BG:61:TRP:CZ2	2.48	0.49
38:BN:32:GLU:CD	38:BN:86:ARG:HH22	2.20	0.49
39:BO:110:ALA:HB1	39:BO:115:LEU:HD22	1.94	0.49
51:B0:52:LYS:HE2	51:B0:55:ALA:CA	2.43	0.49
1:AA:64:G:N7	1:AA:99:C:C4	2.80	0.49
1:AA:451:A:H5'	1:AA:452:A:N3	2.27	0.49
1:AA:591:U:H2'	1:AA:592:G:C8	2.48	0.49
1:AA:1096:C:O2'	1:AA:1170:A:O3'	2.31	0.49
1:AA:1102:A:O2'	2:AB:97:GLY:N	2.46	0.49
1:AA:1158:C:N4	1:AA:1160:G:C5	2.81	0.49
1:AA:1245:C:H2'	1:AA:1246:A:C8	2.48	0.49
1:AA:1319:A:N7	1:AA:1323:G:C5	2.81	0.49
1:AA:1339:A:O2'	24:AX:33:C:C5'	2.61	0.49
2:AB:95:TRP:CH2	2:AB:174:GLU:CD	2.90	0.49
3:AC:153:SER:HA	3:AC:164:THR:HA	1.95	0.49
10:AJ:5:ARG:HG2	10:AJ:79:PRO:CG	2.43	0.49
10:AJ:57:VAL:HG22	10:AJ:58:ASN:N	2.26	0.49
17:AQ:62:GLU:N	17:AQ:72:TRP:CE3	2.81	0.49
22:AV:32:A:O2'	22:AV:33:A:O4'	2.30	0.49
22:AV:118:C:C2'	22:AV:119:U:C5'	2.89	0.49
22:AV:130:C:C4	22:AV:132:U:O4	2.66	0.49
22:AV:171:A:N3	22:AV:172:U:C4	2.81	0.49
22:AV:185:A:O2'	22:AV:186:A:C4	2.65	0.49
22:AV:257:U:O4	22:AV:273:A:C5	2.66	0.49
22:AV:316:A:C6	22:AV:317:G:O6	2.66	0.49
25:AY:115:GLU:O	25:AY:115:GLU:HG3	2.12	0.49
25:AY:122:TRP:CZ3	25:AY:132:ARG:HD2	2.47	0.49
25:AY:181:LEU:HD12	25:AY:242:LEU:HD13	1.94	0.49
25:AY:314:PHE:CD1	25:AY:315:LYS:HB2	2.48	0.49
25:AY:420:ASP:N	25:AY:420:ASP:OD2	2.46	0.49
25:AY:427:ALA:O	25:AY:431:LEU:HB2	2.12	0.49
26:BA:592:A:C2	26:BA:666:A:C4	3.01	0.49
26:BA:880:G:N2	26:BA:898:C:N4	2.61	0.49
26:BA:901:C:C2'	26:BA:902:C:OP1	2.60	0.49
26:BA:1495:A:O2'	26:BA:1496:A:C5'	2.60	0.49
26:BA:2032:G:H1'	28:BD:150:GLN:OE1	2.13	0.49
26:BA:2183:A:O2'	26:BA:2184:A:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2307:G:N2	26:BA:2311:A:C2'	2.69	0.49
26:BA:2531:A:H4'	31:BG:156:TYR:CD1	2.48	0.49
26:BA:2745:C:C4	26:BA:2746:U:C4	3.00	0.49
26:BA:2801:G:C2	26:BA:2802:G:C4	3.01	0.49
27:BC:161:VAL:CG2	27:BC:175:LEU:HD23	2.42	0.49
29:BE:175:ILE:HD13	29:BE:196:VAL:CG2	2.43	0.49
32:BH:69:ALA:CB	32:BH:138:VAL:CG1	2.91	0.49
33:BI:115:ASP:O	33:BI:116:MET:CB	2.60	0.49
49:BY:17:GLU:HA	49:BY:17:GLU:OE2	2.13	0.49
55:B4:16:ILE:HG22	55:B4:16:ILE:O	2.10	0.49
1:AA:258:G:C6	1:AA:259:G:C5	3.01	0.48
1:AA:294:U:H2'	1:AA:295:C:H6	1.78	0.48
1:AA:694:A:C2'	1:AA:695:A:O5'	2.60	0.48
1:AA:1226:C:H2'	13:AM:101:THR:HB	1.93	0.48
1:AA:1306:A:C5	1:AA:1307:U:C5	3.01	0.48
1:AA:1313:U:P	19:AS:5:LYS:HB2	2.53	0.48
1:AA:1485:U:H2'	1:AA:1486:G:C8	2.48	0.48
1:AA:1490:U:H2'	1:AA:1491:G:H5'	1.94	0.48
2:AB:81:ASP:OD1	2:AB:83:ALA:HB3	2.13	0.48
2:AB:127:LYS:CG	2:AB:128:LEU:N	2.75	0.48
2:AB:145:ASN:O	2:AB:146:SER:CB	2.61	0.48
4:AD:3:TYR:O	4:AD:4:LEU:CB	2.60	0.48
4:AD:149:LYS:O	4:AD:150:LYS:C	2.56	0.48
4:AD:156:ALA:HA	4:AD:159:GLU:HB3	1.94	0.48
7:AG:148:LYS:C	7:AG:150:PHE:N	2.69	0.48
8:AH:30:LYS:O	8:AH:31:LEU:C	2.55	0.48
11:AK:22:ILE:HG22	11:AK:31:VAL:CG2	2.43	0.48
13:AM:11:HIS:C	13:AM:43:LYS:HE3	2.38	0.48
15:AO:85:GLY:O	15:AO:86:LEU:HB3	2.13	0.48
22:AV:19:G:H21	23:AW:81:LEU:HG	1.77	0.48
23:AW:53:LEU:HD23	23:AW:79:LEU:HD13	1.95	0.48
25:AY:122:TRP:CZ2	25:AY:159:ALA:HB2	2.49	0.48
25:AY:413:ILE:HG23	25:AY:413:ILE:O	2.13	0.48
25:AY:445:GLU:HA	25:AY:445:GLU:OE1	2.13	0.48
25:AY:549:ALA:HB2	25:AY:587:SER:OG	2.13	0.48
25:AY:646:PHE:O	25:AY:647:VAL:HG13	2.13	0.48
25:AY:679:VAL:HG23	25:AY:684:GLN:NE2	2.28	0.48
26:BA:1:G:C2	26:BA:2:G:C8	3.00	0.48
26:BA:220:G:H1'	26:BA:234:U:H1'	1.95	0.48
26:BA:348:A:H2'	26:BA:349:U:C6	2.48	0.48
26:BA:368:A:H2'	26:BA:369:U:O5'	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:657:U:H2'	26:BA:658:U:C6	2.48	0.48
26:BA:897:C:H2'	26:BA:898:C:O4'	2.13	0.48
26:BA:960:A:C5'	26:BA:961:C:OP2	2.58	0.48
26:BA:1056:G:C4'	26:BA:1086:A:C8	2.96	0.48
26:BA:1180:U:C2'	26:BA:1181:U:H5'	2.42	0.48
26:BA:1665:A:N3	35:BK:1:MET:CE	2.76	0.48
26:BA:2875:C:H2'	26:BA:2876:G:O5'	2.12	0.48
27:BC:16:VAL:HG23	27:BC:203:VAL:CG2	2.42	0.48
28:BD:97:SER:O	28:BD:99:GLU:N	2.46	0.48
29:BE:171:ASP:O	29:BE:171:ASP:OD1	2.30	0.48
31:BG:5:LYS:O	31:BG:7:PRO:HD3	2.13	0.48
32:BH:5:LEU:O	32:BH:6:LEU:HD12	2.13	0.48
32:BH:7:ASP:C	32:BH:15:LEU:HD22	2.38	0.48
33:BI:32:VAL:HG21	33:BI:58:ILE:CG2	2.42	0.48
33:BI:52:LEU:HD11	33:BI:81:LYS:HE2	1.95	0.48
33:BI:70:THR:HA	33:BI:71:LYS:HD2	1.95	0.48
36:BL:110:VAL:HB	36:BL:127:VAL:HG22	1.95	0.48
37:BM:83:GLY:C	37:BM:84:LYS:HG2	2.38	0.48
38:BN:78:LYS:HG2	38:BN:78:LYS:O	2.13	0.48
38:BN:98:LEU:HD13	51:B0:54:ILE:HD11	1.94	0.48
40:BP:50:ARG:O	40:BP:56:SER:HA	2.13	0.48
43:BS:29:VAL:CG1	43:BS:55:ILE:HD11	2.43	0.48
47:BW:32:ILE:HG23	47:BW:54:THR:HG23	1.94	0.48
1:AA:83:C:H2'	1:AA:85:U:OP2	2.13	0.48
1:AA:276:G:C4	1:AA:277:C:C5	3.01	0.48
1:AA:423:G:H3'	1:AA:423:G:N3	2.28	0.48
1:AA:462:G:C8	1:AA:463:U:C5	3.01	0.48
1:AA:564:C:O2'	1:AA:565:U:H5'	2.13	0.48
1:AA:652:U:O2'	1:AA:653:U:OP2	2.29	0.48
1:AA:656:G:C4	1:AA:657:U:C6	3.01	0.48
1:AA:714:G:H5'	1:AA:776:G:H5"	1.95	0.48
1:AA:809:G:C6	1:AA:810:C:C5	3.01	0.48
1:AA:1097:C:O3'	1:AA:1169:A:O2'	2.30	0.48
2:AB:155:GLY:O	2:AB:156:LEU:O	2.31	0.48
3:AC:6:PRO:O	3:AC:10:ARG:HG3	2.14	0.48
3:AC:41:TYR:CD1	3:AC:42:LEU:HD12	2.49	0.48
5:AE:39:GLY:HA2	5:AE:44:ARG:O	2.13	0.48
5:AE:55:VAL:O	5:AE:58:ALA:HB3	2.13	0.48
6:AF:5:GLU:HG2	6:AF:90:MET:CE	2.43	0.48
7:AG:82:SER:CB	7:AG:84:TYR:CD2	2.96	0.48
9:AI:30:ASN:O	9:AI:32:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:18:ILE:CG2	10:AJ:19:ASP:N	2.75	0.48
11:AK:30:ILE:HB	11:AK:45:THR:CG2	2.41	0.48
12:AL:56:LEU:HB3	12:AL:58:ASN:OD1	2.14	0.48
13:AM:94:LEU:HD23	13:AM:94:LEU:N	2.28	0.48
18:AR:25:ILE:HA	18:AR:28:LEU:HB2	1.95	0.48
19:AS:19:GLU:C	19:AS:21:ALA:N	2.69	0.48
20:AT:34:VAL:CG1	20:AT:78:LEU:HD22	2.42	0.48
22:AV:12:U:OP1	22:AV:13:G:O5'	2.30	0.48
22:AV:13:G:HO2'	22:AV:14:G:H5'	1.75	0.48
22:AV:39:A:N3	22:AV:39:A:C3'	2.74	0.48
22:AV:47:G:O2'	22:AV:48:C:O4'	2.31	0.48
22:AV:120:U:H3'	22:AV:121:A:H2'	1.94	0.48
22:AV:156:G:N2	22:AV:230:U:C5	2.81	0.48
22:AV:180:G:C3'	22:AV:181:G:H8	2.26	0.48
22:AV:207:A:C2	22:AV:208:G:C8	3.01	0.48
22:AV:257:U:O2	22:AV:259:G:C8	2.66	0.48
23:AW:44:SER:O	23:AW:102:PRO:HD2	2.13	0.48
24:AX:8:U:O2	24:AX:49:C:O2	2.31	0.48
24:AX:54:G:H22	24:AX:62:C:N4	2.10	0.48
24:AX:77:A:C3'	26:BA:2422:C:N3	2.74	0.48
25:AY:84:THR:O	25:AY:85:PRO:O	2.30	0.48
25:AY:152:THR:C	25:AY:154:GLN:H	2.21	0.48
25:AY:610:VAL:HG23	25:AY:643:ILE:HB	1.95	0.48
25:AY:636:PRO:HB2	33:BI:26:ALA:N	2.27	0.48
26:BA:186:G:N2	26:BA:187:G:C4	2.81	0.48
26:BA:277:G:H2'	26:BA:278:A:OP2	2.14	0.48
26:BA:679:C:C2'	26:BA:680:C:H5'	2.43	0.48
26:BA:897:C:N3	26:BA:898:C:C5	2.81	0.48
26:BA:904:G:N3	26:BA:905:A:C8	2.81	0.48
26:BA:927:A:H2'	26:BA:928:A:C8	2.48	0.48
26:BA:1292:G:H2'	26:BA:1293:C:O5'	2.13	0.48
26:BA:1534:U:H2'	26:BA:1534:U:O2	2.14	0.48
26:BA:1613:G:C2	26:BA:1619:G:C5	3.01	0.48
26:BA:2298:A:C5	26:BA:2321:U:C5	3.02	0.48
26:BA:2371:G:N2	26:BA:2372:U:H1'	2.28	0.48
26:BA:2438:U:O2'	26:BA:2439:A:H5"	2.13	0.48
27:BC:16:VAL:CG2	27:BC:203:VAL:HG22	2.44	0.48
27:BC:100:ARG:NH1	27:BC:100:ARG:HG3	2.28	0.48
28:BD:136:ASN:HD22	28:BD:140:HIS:CD2	2.31	0.48
28:BD:157:LYS:HE3	34:BJ:79:GLY:O	2.13	0.48
30:BF:56:LEU:HD11	30:BF:86:CYS:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:59:ILE:HG23	30:BF:137:PHE:CD1	2.48	0.48
30:BF:153:ILE:N	30:BF:153:ILE:HD13	2.27	0.48
35:BK:41:ILE:C	35:BK:41:ILE:HD12	2.38	0.48
44:BT:28:ASN:ND2	44:BT:91:GLN:HB3	2.28	0.48
44:BT:69:ARG:O	44:BT:69:ARG:CG	2.60	0.48
46:BV:25:LYS:HE2	46:BV:43:ASP:CA	2.42	0.48
46:BV:50:MET:C	46:BV:52:ALA:N	2.68	0.48
49:BY:9:LYS:C	49:BY:11:VAL:H	2.20	0.48
1:AA:108:G:H5'	1:AA:109:A:H2	1.78	0.48
1:AA:270:A:C6	1:AA:271:C:N3	2.81	0.48
1:AA:466:A:H5'	1:AA:467:U:OP2	2.13	0.48
1:AA:572:A:C5'	1:AA:573:A:OP2	2.62	0.48
1:AA:1323:G:C6	1:AA:1324:A:C6	3.00	0.48
1:AA:1329:A:H2'	1:AA:1330:U:H5'	1.95	0.48
2:AB:62:ARG:O	2:AB:63:LYS:CB	2.60	0.48
2:AB:146:SER:O	2:AB:147:LEU:CB	2.60	0.48
3:AC:86:LEU:O	3:AC:89:VAL:CG2	2.61	0.48
4:AD:123:MET:HE2	4:AD:145:ARG:HD2	1.95	0.48
4:AD:198:LEU:C	4:AD:200:VAL:H	2.20	0.48
5:AE:94:PHE:CZ	5:AE:96:GLN:HG3	2.48	0.48
6:AF:38:ARG:HG3	6:AF:39:LEU:H	1.77	0.48
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.78	0.48
8:AH:48:PHE:CD1	8:AH:48:PHE:N	2.74	0.48
11:AK:70:ALA:O	11:AK:72:ALA:N	2.46	0.48
13:AM:19:THR:C	13:AM:24:VAL:HG23	2.38	0.48
16:AP:42:ILE:O	16:AP:44:SER:N	2.47	0.48
21:AU:14:ALA:O	21:AU:15:LEU:HD12	2.12	0.48
21:AU:16:ARG:NH1	21:AU:19:LYS:HG2	2.28	0.48
21:AU:36:PHE:O	21:AU:37:TYR:CB	2.61	0.48
22:AV:144:U:O5'	22:AV:145:C:OP2	2.30	0.48
22:AV:180:G:N9	22:AV:181:G:C8	2.81	0.48
22:AV:192:A:H2'	22:AV:193:A:C8	2.48	0.48
22:AV:219:G:C2'	22:AV:220:G:H5'	2.43	0.48
22:AV:308:U:C4'	22:AV:309:A:O5'	2.61	0.48
22:AV:308:U:O2'	22:AV:309:A:OP2	2.30	0.48
24:AX:38:A:O2'	24:AX:39:A:H5'	2.13	0.48
25:AY:85:PRO:HG3	25:AY:94:VAL:HG13	1.95	0.48
25:AY:198:GLU:O	25:AY:198:GLU:HG3	2.13	0.48
25:AY:230:LYS:HB2	25:AY:230:LYS:NZ	2.28	0.48
25:AY:282:SER:C	25:AY:284:LEU:N	2.72	0.48
25:AY:341:VAL:HG23	25:AY:350:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:518:PRO:HD2	25:AY:521:SER:OG	2.13	0.48
25:AY:580:MET:HE3	25:AY:584:ILE:HG12	1.95	0.48
26:BA:186:G:C2	26:BA:187:G:N7	2.81	0.48
26:BA:493:G:H2'	26:BA:494:G:O4'	2.13	0.48
26:BA:1098:A:C5	26:BA:1099:G:C6	3.01	0.48
26:BA:1124:G:H2'	26:BA:1125:G:H5'	1.95	0.48
26:BA:1327:A:N6	26:BA:1328:A:C2	2.80	0.48
26:BA:2161:C:O2	26:BA:2162:G:H8	1.96	0.48
26:BA:2219:U:C2'	26:BA:2220:U:O5'	2.62	0.48
26:BA:2419:U:OP1	54:B3:40:LYS:HE2	2.13	0.48
26:BA:2531:A:H4'	31:BG:156:TYR:CE1	2.48	0.48
26:BA:2639:A:C2	26:BA:2778:A:C8	3.00	0.48
27:BC:124:LYS:HD3	27:BC:127:ASN:ND2	2.28	0.48
30:BF:16:MET:O	30:BF:20:ASN:HA	2.13	0.48
31:BG:169:ARG:HH12	55:B4:29:ALA:HA	1.78	0.48
33:BI:56:VAL:HG21	33:BI:70:THR:CB	2.43	0.48
34:BJ:33:ALA:HB2	34:BJ:105:VAL:HG13	1.95	0.48
36:BL:112:LEU:O	36:BL:112:LEU:HG	2.14	0.48
1:AA:446:G:C2'	1:AA:447:G:H5'	2.43	0.48
1:AA:520:A:N1	1:AA:536:C:H1'	2.28	0.48
1:AA:735:C:H2'	1:AA:736:C:H6	1.78	0.48
1:AA:1061:G:C4	1:AA:1197:A:C2	3.01	0.48
1:AA:1080:A:C5'	1:AA:1081:A:OP2	2.59	0.48
1:AA:1140:C:O2	1:AA:1141:C:C5	2.66	0.48
1:AA:1215:G:N2	1:AA:1216:A:H1'	2.28	0.48
1:AA:1304:G:C6	1:AA:1305:G:C2	3.02	0.48
2:AB:53:LEU:CD1	2:AB:216:VAL:HG13	2.43	0.48
2:AB:95:TRP:CZ3	2:AB:174:GLU:OE2	2.66	0.48
3:AC:134:LYS:O	3:AC:138:GLN:HG3	2.13	0.48
5:AE:56:PRO:O	5:AE:60:GLN:HB2	2.14	0.48
6:AF:38:ARG:CG	6:AF:39:LEU:N	2.75	0.48
7:AG:145:GLU:HG3	7:AG:148:LYS:HE2	1.94	0.48
8:AH:122:GLY:O	8:AH:123:GLU:C	2.56	0.48
11:AK:124:LYS:CG	11:AK:125:LYS:H	2.23	0.48
14:AN:34:ASN:O	14:AN:41:ARG:HD3	2.14	0.48
18:AR:67:LEU:HD23	18:AR:68:PRO:HD3	1.95	0.48
20:AT:66:ILE:O	20:AT:66:ILE:CG2	2.60	0.48
22:AV:150:G:H3'	22:AV:151:C:H5	1.78	0.48
22:AV:163:G:N1	22:AV:164:G:N7	2.60	0.48
22:AV:165:A:C5'	22:AV:166:C:N1	2.47	0.48
22:AV:199:C:C2	22:AV:200:G:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:256:G:N7	22:AV:273:A:N6	2.61	0.48
24:AX:22:A:C5	24:AX:47:G:C6	3.01	0.48
25:AY:100:VAL:HG23	25:AY:329:ARG:CG	2.44	0.48
25:AY:122:TRP:HD1	25:AY:123:ARG:N	2.11	0.48
25:AY:196:ILE:O	25:AY:197:ARG:CB	2.56	0.48
25:AY:252:ASP:O	25:AY:253:LEU:HB2	2.12	0.48
25:AY:510:VAL:HG11	25:AY:567:LEU:HD13	1.95	0.48
25:AY:518:PRO:O	25:AY:520:GLY:N	2.46	0.48
26:BA:152:A:C2	26:BA:175:G:C2	3.02	0.48
26:BA:627:A:C5	26:BA:637:A:N7	2.80	0.48
26:BA:899:A:O2'	26:BA:900:A:P	2.72	0.48
26:BA:1090:A:C2'	26:BA:1091:G:O5'	2.61	0.48
26:BA:1180:U:HO2'	26:BA:1181:U:P	2.37	0.48
26:BA:1359:A:N7	26:BA:1373:A:C2	2.81	0.48
26:BA:1595:C:O2	26:BA:1595:C:H2'	2.12	0.48
26:BA:2140:G:O6	26:BA:2151:U:O2	2.31	0.48
26:BA:2204:G:OP2	27:BC:146:LYS:HE3	2.13	0.48
26:BA:2305:U:H4'	26:BA:2305:U:OP1	2.14	0.48
26:BA:2485:G:H5"	37:BM:45:GLN:HE21	1.77	0.48
30:BF:71:LYS:HD3	30:BF:72:SER:H	1.78	0.48
30:BF:121:PHE:CE2	30:BF:127:TYR:CD1	3.01	0.48
30:BF:168:LEU:O	30:BF:168:LEU:HG	2.13	0.48
32:BH:80:ILE:CD1	32:BH:144:VAL:CG1	2.92	0.48
35:BK:105:ARG:O	35:BK:106:GLU:C	2.57	0.48
35:BK:108:ARG:HH12	40:BP:34:GLY:N	2.10	0.48
36:BL:68:SER:O	36:BL:69:ARG:HB2	2.13	0.48
37:BM:97:GLN:O	37:BM:98:PRO:C	2.50	0.48
41:BQ:26:ALA:O	41:BQ:27:ARG:C	2.56	0.48
48:BX:40:GLU:O	48:BX:42:GLU:N	2.46	0.48
51:B0:10:SER:O	51:B0:11:LYS:C	2.56	0.48
1:AA:189:A:C6	1:AA:190:A:C2	3.02	0.48
1:AA:368:U:H6	25:AY:354:ARG:NH1	2.11	0.48
1:AA:409:U:C4	1:AA:410:G:C6	3.02	0.48
1:AA:417:G:C6	1:AA:418:C:N4	2.81	0.48
1:AA:595:A:C2	1:AA:641:U:C2	3.01	0.48
1:AA:634:C:C2	1:AA:635:A:C8	3.02	0.48
1:AA:725:G:C2'	1:AA:726:C:H5'	2.42	0.48
1:AA:918:A:C4	1:AA:919:A:C5	3.00	0.48
1:AA:922:G:C4	1:AA:1398:A:N3	2.55	0.48
1:AA:951:G:C5	1:AA:1231:G:C6	3.01	0.48
1:AA:1057:G:H4'	3:AC:196:GLY:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1215:G:C2	1:AA:1216:A:C8	3.02	0.48
1:AA:1332:A:H5'	1:AA:1332:A:N3	2.29	0.48
2:AB:34:ARG:HE	2:AB:34:ARG:CA	2.27	0.48
2:AB:206:ILE:O	2:AB:210:THR:HG23	2.13	0.48
4:AD:33:ILE:HG13	4:AD:34:GLU:N	2.28	0.48
4:AD:158:LEU:HD11	4:AD:177:MET:HE2	1.94	0.48
5:AE:88:HIS:O	5:AE:89:THR:HB	2.13	0.48
5:AE:100:GLU:O	5:AE:100:GLU:HG3	2.12	0.48
6:AF:46:GLN:HA	6:AF:56:LYS:HA	1.94	0.48
6:AF:89:VAL:HG23	6:AF:90:MET:N	2.28	0.48
7:AG:65:LEU:C	7:AG:67:ASN:H	2.22	0.48
10:AJ:59:LYS:HE3	10:AJ:59:LYS:N	2.26	0.48
11:AK:93:GLU:O	11:AK:94:SER:C	2.57	0.48
17:AQ:54:ILE:C	17:AQ:54:ILE:CD1	2.86	0.48
19:AS:18:VAL:HG11	19:AS:42:ASN:OD1	2.13	0.48
19:AS:50:VAL:CG2	19:AS:70:LEU:CD1	2.90	0.48
20:AT:23:ARG:O	20:AT:24:ARG:C	2.55	0.48
22:AV:16:U:C4	23:AW:110:ARG:NH2	2.81	0.48
22:AV:47:G:C4	22:AV:48:C:C5	3.01	0.48
22:AV:113:A:H2'	22:AV:114:G:H8	1.69	0.48
22:AV:173:C:C2'	22:AV:173:C:O2	2.54	0.48
22:AV:235:C:O2	22:AV:236:U:C5	2.66	0.48
24:AX:28:U:H2'	24:AX:29:C:H5"	1.92	0.48
25:AY:250:THR:C	25:AY:252:ASP:H	2.22	0.48
25:AY:406:GLU:CB	25:AY:407:PRO:CD	2.92	0.48
25:AY:415:PRO:HG3	25:AY:421:GLN:HG2	1.94	0.48
25:AY:510:VAL:CG1	25:AY:567:LEU:HD13	2.42	0.48
25:AY:539:ILE:HD12	25:AY:567:LEU:HD21	1.96	0.48
25:AY:626:ALA:HB2	26:BA:2473:U:C6	2.43	0.48
26:BA:892:A:H2'	26:BA:893:C:H5'	1.92	0.48
26:BA:900:A:H2	26:BA:901:C:H41	1.51	0.48
26:BA:1056:G:H4'	26:BA:1086:A:H8	1.77	0.48
26:BA:1103:A:C8	26:BA:1104:C:C5	3.01	0.48
26:BA:1417:C:C2'	26:BA:1418:G:H5'	2.43	0.48
26:BA:1925:C:C5'	26:BA:1926:U:C5	2.97	0.48
26:BA:2170:A:C2	26:BA:2171:A:C5	3.01	0.48
26:BA:2547:A:H2'	26:BA:2548:U:C6	2.49	0.48
29:BE:48:THR:C	29:BE:50:ALA:N	2.68	0.48
30:BF:42:ALA:HB1	30:BF:45:ASP:C	2.38	0.48
33:BI:17:ALA:CB	33:BI:41:PHE:CE2	2.97	0.48
33:BI:56:VAL:O	33:BI:57:VAL:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BJ:65:THR:HG23	34:BJ:68:LYS:NZ	2.28	0.48
36:BL:4:ASN:O	36:BL:4:ASN:CG	2.54	0.48
36:BL:117:THR:HG22	36:BL:117:THR:O	2.14	0.48
37:BM:111:GLU:OE1	37:BM:111:GLU:O	2.31	0.48
42:BR:34:GLU:CD	42:BR:60:LYS:HE2	2.38	0.48
46:BV:50:MET:C	46:BV:52:ALA:H	2.20	0.48
50:BZ:15:ARG:N	50:BZ:15:ARG:HD3	2.26	0.48
50:BZ:36:GLU:O	50:BZ:37:ARG:HD3	2.14	0.48
1:AA:160:A:H1'	1:AA:344:A:N7	2.29	0.48
1:AA:763:G:H2'	1:AA:764:C:O5'	2.14	0.48
1:AA:859:G:H2'	1:AA:860:A:C8	2.49	0.48
1:AA:1020:G:H2'	1:AA:1020:G:N3	2.28	0.48
1:AA:1129:C:H5"	9:AI:17:ARG:NH1	2.28	0.48
1:AA:1296:C:H4'	1:AA:1302:C:H41	1.78	0.48
2:AB:63:LYS:O	2:AB:65:LYS:CE	2.61	0.48
3:AC:10:ARG:O	3:AC:12:GLY:N	2.46	0.48
5:AE:150:GLU:O	5:AE:153:ALA:N	2.47	0.48
6:AF:38:ARG:HB3	6:AF:63:ASN:HB2	1.94	0.48
9:AI:29:ILE:HG22	9:AI:64:ILE:HD11	1.96	0.48
13:AM:59:VAL:C	13:AM:61:LYS:H	2.21	0.48
13:AM:70:ARG:HD2	13:AM:74:MET:CE	2.43	0.48
15:AO:34:GLN:HB3	15:AO:58:MET:HE1	1.95	0.48
22:AV:20:A:H3'	22:AV:21:C:C4	2.37	0.48
22:AV:38:A:O2'	22:AV:39:A:O5'	2.32	0.48
22:AV:130:C:H4'	22:AV:131:U:OP2	2.13	0.48
22:AV:204:G:O6	22:AV:222:U:OP2	2.30	0.48
22:AV:270:C:H1'	22:AV:293:G:N2	2.29	0.48
22:AV:320:U:O2'	22:AV:321:G:OP1	2.30	0.48
23:AW:72:ASP:CB	23:AW:75:ARG:HH21	2.24	0.48
24:AX:54:G:N2	24:AX:62:C:H42	2.11	0.48
25:AY:146:LEU:O	25:AY:147:TRP:C	2.56	0.48
25:AY:289:ILE:O	25:AY:301:ILE:HG12	2.13	0.48
25:AY:315:LYS:HD2	25:AY:317:MET:HG3	1.95	0.48
25:AY:422:GLU:O	25:AY:425:SER:N	2.47	0.48
25:AY:686:LYS:HD3	25:AY:686:LYS:C	2.39	0.48
26:BA:96:C:H4'	49:BY:41:HIS:CG	2.48	0.48
26:BA:275:C:C4	26:BA:276:U:H6	2.31	0.48
26:BA:473:G:C2'	26:BA:474:G:O5'	2.61	0.48
26:BA:565:C:H4'	26:BA:1253:A:N6	2.29	0.48
26:BA:790:U:O5'	26:BA:790:U:C2'	2.62	0.48
26:BA:874:G:O6	26:BA:904:G:O6	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:886:A:O2'	26:BA:887:U:OP1	2.30	0.48
26:BA:1348:C:H2'	26:BA:1349:C:H5'	1.95	0.48
26:BA:1359:A:C8	26:BA:1373:A:N1	2.81	0.48
26:BA:1561:C:H2'	26:BA:1562:U:C6	2.48	0.48
26:BA:1838:C:H4'	26:BA:1839:G:C8	2.48	0.48
26:BA:2093:G:H1'	26:BA:2225:A:N6	2.29	0.48
26:BA:2516:A:C6	26:BA:2517:C:N4	2.82	0.48
26:BA:2660:A:C2	26:BA:2661:G:H1'	2.49	0.48
27:BC:136:VAL:CG1	27:BC:137:GLY:N	2.72	0.48
27:BC:156:SER:O	27:BC:194:VAL:CG1	2.62	0.48
27:BC:170:TYR:CD2	27:BC:184:GLU:CA	2.96	0.48
27:BC:250:GLN:HB3	27:BC:254:LYS:HB2	1.96	0.48
29:BE:84:THR:HG22	29:BE:85:PHE:CG	2.48	0.48
31:BG:9:VAL:HG12	31:BG:9:VAL:O	2.13	0.48
31:BG:71:LEU:O	31:BG:72:ASN:C	2.56	0.48
33:BI:100:ILE:HG22	33:BI:104:GLN:HB2	1.95	0.48
34:BJ:73:VAL:HG12	34:BJ:75:TYR:CE2	2.48	0.48
37:BM:24:THR:O	37:BM:24:THR:CG2	2.60	0.48
39:BO:49:VAL:HG12	39:BO:49:VAL:O	2.11	0.48
39:BO:66:GLY:C	39:BO:102:ARG:NH2	2.72	0.48
44:BT:8:LEU:HD22	49:BY:22:LEU:HA	1.95	0.48
45:BU:88:ASP:CG	45:BU:89:GLY:H	2.22	0.48
49:BY:9:LYS:H	49:BY:12:GLU:HB2	1.79	0.48
1:AA:158:G:C2'	1:AA:159:G:H5"	2.43	0.48
1:AA:769:G:C2'	1:AA:770:C:O5'	2.62	0.48
1:AA:872:A:C4	1:AA:874:G:N7	2.82	0.48
1:AA:1238:A:N3	1:AA:1241:G:H1'	2.29	0.48
1:AA:1300:G:C4	1:AA:1334:G:C6	3.01	0.48
2:AB:110:ILE:CD1	2:AB:150:ILE:HG12	2.43	0.48
3:AC:54:ILE:O	3:AC:54:ILE:CD1	2.61	0.48
6:AF:18:VAL:CB	6:AF:19:PRO:CD	2.87	0.48
6:AF:39:LEU:HD13	6:AF:40:GLU:N	2.29	0.48
9:AI:24:ASN:C	9:AI:58:GLU:CA	2.87	0.48
11:AK:37:GLN:CA	11:AK:37:GLN:OE1	2.61	0.48
11:AK:87:GLY:H	11:AK:113:THR:CG2	2.27	0.48
13:AM:40:GLU:HG3	13:AM:41:ASP:H	1.77	0.48
14:AN:43:ASN:OD1	14:AN:47:LYS:NZ	2.47	0.48
16:AP:10:GLY:O	16:AP:11:ALA:HB2	2.11	0.48
17:AQ:12:VAL:HG12	17:AQ:21:VAL:HG13	1.96	0.48
19:AS:11:ASP:OD1	19:AS:36:ARG:HD2	2.13	0.48
22:AV:120:U:O2	22:AV:120:U:O4'	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:257:U:N3	22:AV:258:G:N1	2.60	0.48
23:AW:27:LYS:CD	23:AW:30:GLU:OE1	2.56	0.48
23:AW:83:LYS:O	23:AW:86:LEU:HD22	2.13	0.48
25:AY:73:PHE:CE2	25:AY:78:ARG:HB2	2.49	0.48
25:AY:451:ILE:HG23	25:AY:451:ILE:O	2.13	0.48
25:AY:451:ILE:HG23	25:AY:459:LEU:HD23	1.95	0.48
26:BA:225:C:C2'	26:BA:226:A:H5'	2.44	0.48
26:BA:734:A:C5	26:BA:735:A:C8	3.01	0.48
26:BA:876:C:C3'	26:BA:877:A:C8	2.96	0.48
26:BA:1637:A:H5'	26:BA:1760:C:O2'	2.14	0.48
26:BA:1707:G:H2'	26:BA:1708:C:O4'	2.14	0.48
26:BA:1721:G:C6	26:BA:1738:G:C6	3.01	0.48
26:BA:1737:G:C6	26:BA:1738:G:C2	3.01	0.48
26:BA:2136:G:H1	26:BA:2155:U:H3	1.61	0.48
26:BA:2491:U:H5'	26:BA:2570:G:H5'	1.95	0.48
26:BA:2655:G:O2'	26:BA:2656:U:OP2	2.32	0.48
28:BD:4:LEU:HD11	28:BD:96:ILE:HG22	1.95	0.48
29:BE:3:LEU:CD1	29:BE:14:VAL:HG21	2.44	0.48
29:BE:134:LEU:HD23	29:BE:160:ALA:O	2.13	0.48
30:BF:94:ARG:HB3	30:BF:94:ARG:NH1	2.29	0.48
31:BG:73:SER:HA	31:BG:76:ILE:HG12	1.95	0.48
32:BH:1:MET:SD	32:BH:3:VAL:CG1	3.02	0.48
33:BI:102:ARG:HA	33:BI:141:ASP:OD2	2.14	0.48
35:BK:70:ARG:CD	35:BK:76:VAL:HG22	2.43	0.48
37:BM:36:VAL:HG23	37:BM:129:THR:CG2	2.42	0.48
37:BM:50:ARG:O	37:BM:51:ARG:C	2.56	0.48
42:BR:68:ARG:HG2	42:BR:92:TRP:CE3	2.49	0.48
44:BT:31:VAL:HA	44:BT:83:ALA:O	2.13	0.48
45:BU:5:ARG:C	45:BU:6:ARG:O	2.54	0.48
49:BY:37:LEU:C	49:BY:37:LEU:CD1	2.87	0.48
56:BB:2:G:H2'	56:BB:2:G:N3	2.29	0.48
1:AA:193:C:H2'	1:AA:194:C:H6	1.78	0.48
1:AA:399:G:H2'	1:AA:400:C:H6	1.77	0.48
1:AA:972:C:C4'	10:AJ:59:LYS:HE2	2.39	0.48
1:AA:1059:C:H2'	1:AA:1060:U:H6	1.78	0.48
1:AA:1096:C:HO2'	1:AA:1170:A:C2'	2.26	0.48
1:AA:1241:G:H2'	1:AA:1242:G:H8	1.78	0.48
1:AA:1494:G:C2	1:AA:1495:U:C6	3.01	0.48
1:AA:1519:A:C8	1:AA:1520:C:H1'	2.49	0.48
2:AB:129:THR:HB	2:AB:131:LYS:HB3	1.94	0.48
3:AC:39:ARG:C	3:AC:41:TYR:N	2.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:51:VAL:HA	3:AC:69:THR:HA	1.95	0.48
4:AD:117:VAL:O	4:AD:130:ASN:HB2	2.14	0.48
5:AE:81:GLN:NE2	5:AE:149:PRO:CD	2.77	0.48
6:AF:3:HIS:CB	6:AF:92:THR:HG23	2.43	0.48
8:AH:24:VAL:CG1	8:AH:62:LEU:HD21	2.44	0.48
9:AI:129:ARG:OXT	9:AI:129:ARG:HG3	2.12	0.48
10:AJ:65:TYR:HB2	14:AN:96:LEU:HD11	1.96	0.48
13:AM:88:LEU:O	13:AM:92:ARG:HG3	2.13	0.48
19:AS:5:LYS:HD2	19:AS:6:LYS:HG2	1.94	0.48
20:AT:54:GLN:HB3	20:AT:55:PRO:HD3	1.94	0.48
22:AV:44:C:P	22:AV:264:U:OP1	2.71	0.48
22:AV:162:A:C2	22:AV:163:G:C5	3.02	0.48
22:AV:175:A:C2	22:AV:176:G:N7	2.82	0.48
22:AV:247:A:C5’	22:AV:248:G:H5’	2.43	0.48
23:AW:59:TYR:HE1	23:AW:73:PRO:HB3	1.74	0.48
24:AX:11:A:H61	24:AX:25:U:H3	1.62	0.48
24:AX:48:U:N1	24:AX:51:U:OP1	2.47	0.48
25:AY:289:ILE:CD1	25:AY:331:TYR:CZ	2.97	0.48
25:AY:514:VAL:HG21	25:AY:593:ALA:HB1	1.94	0.48
25:AY:523:PHE:CE1	25:AY:550:MET:SD	3.07	0.48
26:BA:528:A:C8	26:BA:528:A:C3’	2.97	0.48
26:BA:687:C:H1’	53:B2:4:THR:HG22	1.95	0.48
26:BA:1277:G:H5’	38:BN:20:MET:CE	2.38	0.48
26:BA:1361:G:C6	26:BA:1362:C:N4	2.81	0.48
26:BA:1385:A:O2’	26:BA:1396:U:O2	2.31	0.48
26:BA:1599:U:H2’	26:BA:1600:C:C6	2.48	0.48
26:BA:1871:A:N7	26:BA:1872:A:N1	2.61	0.48
26:BA:1979:U:C2’	26:BA:1980:G:H5’	2.44	0.48
26:BA:2093:G:C2’	26:BA:2198:A:N1	2.66	0.48
26:BA:2102:G:C5	26:BA:2103:C:C5	3.02	0.48
26:BA:2748:A:C1’	31:BG:66:THR:HG22	2.39	0.48
26:BA:2785:C:O2’	28:BD:67:HIS:CD2	2.62	0.48
27:BC:96:LYS:HE2	27:BC:96:LYS:HA	1.95	0.48
28:BD:67:HIS:O	28:BD:68:PHE:C	2.57	0.48
30:BF:48:LEU:HA	30:BF:51:ASN:ND2	2.28	0.48
31:BG:54:ARG:O	31:BG:55:ASP:C	2.56	0.48
35:BK:109:SER:O	35:BK:110:GLU:C	2.57	0.48
39:BO:31:THR:HG23	56:BB:29:A:OP2	2.14	0.48
48:BX:69:GLU:O	48:BX:73:ARG:HG2	2.13	0.48
1:AA:49:U:O2’	1:AA:50:A:H2’	2.14	0.48
1:AA:55:A:H2’	1:AA:56:U:O4’	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:140:U:H2'	1:AA:141:G:O5'	2.13	0.48
1:AA:244:U:O2	1:AA:894:G:H1'	2.13	0.48
1:AA:478:A:H2'	1:AA:479:U:O5'	2.14	0.48
1:AA:575:G:H4'	1:AA:576:C:OP1	2.14	0.48
1:AA:915:A:H2'	1:AA:916:U:H5'	1.96	0.48
1:AA:1079:G:C2'	1:AA:1080:A:C8	2.97	0.48
1:AA:1103:C:C2'	1:AA:1104:G:O5'	2.62	0.48
1:AA:1235:U:H2'	1:AA:1236:A:O5'	2.13	0.48
1:AA:1350:A:OP2	9:AI:119:LYS:HE2	2.14	0.48
1:AA:1377:A:N3	7:AG:6:ILE:HD11	2.29	0.48
1:AA:1397:C:H3'	1:AA:1398:A:H5"	1.95	0.48
2:AB:26:MET:CE	2:AB:29:PHE:CD2	2.97	0.48
3:AC:147:GLY:CA	3:AC:171:ARG:H	2.27	0.48
3:AC:205:GLU:OE2	3:AC:205:GLU:HA	2.14	0.48
4:AD:162:GLU:HA	4:AD:166:LYS:CD	2.44	0.48
4:AD:167:PRO:HB2	4:AD:170:LEU:HD11	1.95	0.48
4:AD:186:GLU:O	4:AD:187:ARG:C	2.56	0.48
5:AE:32:PHE:CD2	5:AE:32:PHE:N	2.82	0.48
5:AE:37:VAL:HA	5:AE:47:PHE:HA	1.95	0.48
6:AF:50:PRO:O	6:AF:51:ILE:C	2.56	0.48
8:AH:88:LYS:HG3	8:AH:89:ASP:N	2.28	0.48
9:AI:114:LYS:O	9:AI:115:VAL:C	2.55	0.48
10:AJ:25:ILE:HG22	10:AJ:26:VAL:N	2.28	0.48
10:AJ:65:TYR:OH	14:AN:85:ARG:CD	2.62	0.48
12:AL:49:ARG:HG3	12:AL:89:LEU:HD11	1.96	0.48
16:AP:6:LEU:HG	16:AP:17:TYR:CB	2.44	0.48
16:AP:44:SER:OG	16:AP:46:LYS:HG3	2.14	0.48
16:AP:53:ASP:O	16:AP:57:ILE:HG13	2.14	0.48
16:AP:72:ALA:HA	16:AP:75:ILE:HD11	1.95	0.48
19:AS:60:PHE:O	19:AS:65:MET:HE1	2.13	0.48
21:AU:32:ARG:HH11	21:AU:32:ARG:HG2	1.78	0.48
22:AV:199:C:C3'	22:AV:200:G:N7	2.75	0.48
22:AV:231:A:C2	22:AV:232:A:C6	3.01	0.48
22:AV:303:G:OP2	22:AV:304:C:OP2	2.32	0.48
23:AW:26:LEU:HD13	23:AW:34:LEU:CD1	2.40	0.48
23:AW:52:GLU:CG	23:AW:54:TYR:HE1	2.25	0.48
23:AW:62:PRO:CB	23:AW:70:ASN:ND2	2.77	0.48
23:AW:93:VAL:O	23:AW:98:LEU:N	2.46	0.48
24:AX:22:A:C6	24:AX:47:G:C5	3.02	0.48
25:AY:17:ILE:N	25:AY:17:ILE:CD1	2.77	0.48
25:AY:217:VAL:HG22	25:AY:242:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:238:THR:C	25:AY:240:GLU:H	2.21	0.48
26:BA:141:G:C2	44:BT:1:MET:HE3	2.49	0.48
26:BA:359:G:C6	26:BA:360:U:C6	3.01	0.48
26:BA:684:G:C6	26:BA:774:G:C4	3.02	0.48
26:BA:866:A:C4	26:BA:867:C:C5	3.01	0.48
26:BA:1084:A:C5	26:BA:1085:A:N6	2.82	0.48
26:BA:1319:C:C2'	26:BA:1320:C:H5'	2.44	0.48
26:BA:1880:U:H2'	26:BA:1881:C:C6	2.49	0.48
26:BA:1924:C:H3'	26:BA:1925:C:C5'	2.44	0.48
26:BA:2032:G:N1	26:BA:2572:A:C8	2.82	0.48
26:BA:2149:U:H2'	26:BA:2150:C:C6	2.49	0.48
26:BA:2415:G:H2'	26:BA:2416:C:O5'	2.14	0.48
27:BC:90:ILE:HD12	27:BC:102:TYR:CD1	2.49	0.48
28:BD:97:SER:C	28:BD:99:GLU:H	2.22	0.48
28:BD:125:TRP:CD2	28:BD:160:LYS:HD2	2.48	0.48
31:BG:136:ASP:O	31:BG:137:LYS:C	2.57	0.48
37:BM:74:THR:O	37:BM:75:GLU:HG3	2.13	0.48
38:BN:49:GLU:HB2	38:BN:50:PRO:HD3	1.96	0.48
40:BP:15:ASP:O	40:BP:16:VAL:C	2.55	0.48
42:BR:51:VAL:CB	42:BR:52:PRO:CD	2.92	0.48
54:B3:53:ASP:O	54:B3:54:LEU:C	2.56	0.48
55:B4:9:LYS:C	55:B4:10:LEU:HD23	2.39	0.48
1:AA:11:G:C2	1:AA:24:U:O2	2.66	0.48
1:AA:130:A:N7	17:AQ:64:ARG:HB2	2.29	0.48
1:AA:212:G:H2'	1:AA:213:G:C8	2.48	0.48
1:AA:657:U:O2	1:AA:657:U:C2'	2.62	0.48
1:AA:737:C:H2'	1:AA:738:C:C6	2.44	0.48
1:AA:859:G:C2'	1:AA:860:A:O5'	2.62	0.48
1:AA:1057:G:O2'	3:AC:196:GLY:HA3	2.13	0.48
1:AA:1432:G:P	40:BP:105:LYS:HG2	2.53	0.48
1:AA:1505:G:H4'	1:AA:1506:U:H5"	1.96	0.48
3:AC:154:GLY:HA2	3:AC:163:ARG:N	2.29	0.48
5:AE:24:VAL:O	5:AE:25:LYS:C	2.57	0.48
5:AE:83:PRO:CA	5:AE:97:PRO:HD3	2.44	0.48
6:AF:40:GLU:HB2	6:AF:42:TRP:HE1	1.78	0.48
9:AI:49:GLN:C	9:AI:51:LEU:H	2.22	0.48
11:AK:82:GLU:HG3	11:AK:108:ASN:HD22	1.77	0.48
11:AK:95:THR:HG23	11:AK:96:ILE:H	1.79	0.48
13:AM:18:LEU:HD12	13:AM:32:ILE:HG21	1.96	0.48
13:AM:53:ASP:HB3	13:AM:56:ARG:HH21	1.79	0.48
17:AQ:47:ASP:O	17:AQ:47:ASP:CG	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:40:G:C5	22:AV:316:A:N3	2.82	0.48
22:AV:63:C:C5	22:AV:73:A:N1	2.82	0.48
22:AV:113:A:C6	22:AV:114:G:O6	2.67	0.48
23:AW:28:GLY:HA2	23:AW:31:VAL:HG23	1.96	0.48
24:AX:40:C:C2'	24:AX:41:C:H5'	2.39	0.48
25:AY:282:SER:O	25:AY:286:ILE:HD13	2.14	0.48
25:AY:639:ASN:CB	33:BI:29:GLN:CG	2.83	0.48
26:BA:142:A:C8	26:BA:142:A:OP2	2.67	0.48
26:BA:371:A:H5"	26:BA:423:A:C2	2.48	0.48
26:BA:460:A:P	53:B2:41:ARG:HH12	2.37	0.48
26:BA:587:C:N3	36:BL:33:ARG:NH2	2.61	0.48
26:BA:691:C:O2'	26:BA:692:C:H5'	2.14	0.48
26:BA:869:G:O6	26:BA:909:A:N6	2.46	0.48
26:BA:907:G:O3'	37:BM:22:GLN:CB	2.62	0.48
26:BA:967:U:H2'	26:BA:968:C:C6	2.48	0.48
26:BA:994:C:H1'	42:BR:10:LYS:HE3	1.95	0.48
26:BA:1056:G:HO2'	26:BA:1086:A:H8	1.61	0.48
26:BA:1520:U:H2'	26:BA:1520:U:O2	2.13	0.48
26:BA:2207:C:H2'	26:BA:2208:C:H6	1.78	0.48
26:BA:2287:A:C4	26:BA:2289:G:N7	2.82	0.48
30:BF:30:VAL:O	30:BF:30:VAL:CG2	2.62	0.48
30:BF:105:ILE:CD1	30:BF:138:PRO:HG3	2.44	0.48
30:BF:135:ILE:HD12	30:BF:135:ILE:N	2.29	0.48
30:BF:147:ARG:CG	30:BF:148:VAL:N	2.76	0.48
31:BG:24:THR:C	31:BG:25:ILE:HG12	2.39	0.48
31:BG:102:ILE:HD12	31:BG:147:LEU:HD11	1.95	0.48
33:BI:111:THR:O	33:BI:112:LYS:C	2.56	0.48
35:BK:47:ILE:HB	35:BK:48:PRO:HD3	1.96	0.48
38:BN:28:LEU:HD12	38:BN:28:LEU:O	2.14	0.48
38:BN:36:THR:HG23	38:BN:37:THR:N	2.29	0.48
45:BU:4:ILE:HG22	45:BU:5:ARG:N	2.26	0.48
45:BU:70:ALA:HB3	45:BU:79:ALA:HB1	1.95	0.48
1:AA:72:A:N6	1:AA:73:C:N4	2.62	0.47
1:AA:198:G:C6	1:AA:199:A:N7	2.82	0.47
1:AA:335:C:O2'	1:AA:336:A:H5'	2.14	0.47
1:AA:439:U:C5	1:AA:440:C:H5	2.32	0.47
1:AA:503:C:O5'	1:AA:503:C:H6	1.97	0.47
1:AA:609:A:O5'	1:AA:609:A:H8	1.97	0.47
1:AA:745:G:O2'	1:AA:746:A:H5'	2.14	0.47
1:AA:1085:U:C6	1:AA:1094:G:N1	2.80	0.47
1:AA:1160:G:O2'	1:AA:1161:C:P	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1304:G:C6	1:AA:1305:G:N2	2.82	0.47
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.49	0.47
2:AB:9:LEU:HG	2:AB:11:ALA:H	1.78	0.47
2:AB:181:PRO:O	2:AB:182:VAL:C	2.56	0.47
5:AE:158:LYS:OXT	8:AH:46:GLU:OE2	2.31	0.47
6:AF:82:ASP:N	6:AF:82:ASP:OD1	2.47	0.47
9:AI:22:PRO:HA	9:AI:60:LEU:HB3	1.96	0.47
11:AK:96:ILE:HA	11:AK:99:LEU:HD23	1.96	0.47
20:AT:26:MET:HE3	20:AT:56:ILE:HD11	1.96	0.47
22:AV:29:G:C2'	22:AV:30:C:C5'	2.86	0.47
22:AV:60:U:N3	22:AV:63:C:H5	2.06	0.47
22:AV:167:G:C2	22:AV:168:G:C5	3.02	0.47
22:AV:171:A:C4	22:AV:172:U:C4	3.02	0.47
22:AV:334:A:O3'	22:AV:335:C:N3	2.47	0.47
22:AV:344:A:O2'	30:BF:77:LYS:HG2	2.14	0.47
24:AX:40:C:C4	24:AX:41:C:C5	3.02	0.47
24:AX:51:U:H3'	24:AX:52:C:C5	2.49	0.47
24:AX:77:A:C5	26:BA:2421:G:C3'	2.97	0.47
25:AY:99:ARG:CZ	25:AY:128:TYR:HB2	2.44	0.47
25:AY:128:TYR:O	25:AY:129:LYS:CB	2.60	0.47
26:BA:278:A:N3	26:BA:278:A:H2'	2.29	0.47
26:BA:742:A:H2'	26:BA:743:A:C8	2.49	0.47
26:BA:1104:C:OP2	26:BA:1104:C:C6	2.67	0.47
26:BA:1281:G:C2	26:BA:1290:C:C2	3.02	0.47
26:BA:1482:G:C2	26:BA:1483:G:C5	3.02	0.47
26:BA:1716:U:C2'	26:BA:1717:A:H5'	2.44	0.47
26:BA:1747:U:H2'	26:BA:1748:C:C6	2.48	0.47
26:BA:1872:A:H2'	26:BA:1873:G:O4'	2.13	0.47
26:BA:2196:C:O2'	26:BA:2197:U:H5'	2.14	0.47
26:BA:2211:A:HO2'	26:BA:2212:A:P	2.37	0.47
26:BA:2221:G:H2'	26:BA:2222:C:H5'	1.95	0.47
26:BA:2774:C:H2'	26:BA:2775:G:O4'	2.14	0.47
29:BE:171:ASP:O	29:BE:172:ALA:C	2.57	0.47
30:BF:71:LYS:HE2	30:BF:71:LYS:HA	1.96	0.47
33:BI:15:GLY:CA	33:BI:50:LYS:HB3	2.41	0.47
36:BL:106:GLU:HB3	36:BL:107:PHE:CE2	2.48	0.47
37:BM:110:GLU:O	37:BM:111:GLU:C	2.57	0.47
38:BN:2:ARG:C	38:BN:2:ARG:HD2	2.39	0.47
39:BO:59:ALA:O	39:BO:60:GLU:C	2.56	0.47
39:BO:67:ASN:O	39:BO:68:LYS:C	2.57	0.47
48:BX:76:LYS:HE3	48:BX:77:TYR:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BY:23:ARG:O	49:BY:24:GLU:C	2.55	0.47
54:B3:49:VAL:HG12	54:B3:53:ASP:HB2	1.96	0.47
56:BB:65:U:H6	56:BB:65:U:O5'	1.97	0.47
1:AA:20:U:H2'	1:AA:21:G:H5'	1.95	0.47
1:AA:79:G:H2'	1:AA:80:A:O4'	2.15	0.47
1:AA:407:U:O2'	4:AD:112:GLU:HG3	2.13	0.47
1:AA:591:U:H2'	1:AA:592:G:H8	1.79	0.47
1:AA:623:C:H2'	1:AA:624:C:H5'	1.96	0.47
1:AA:656:G:C4	1:AA:657:U:C5	3.02	0.47
1:AA:982:U:OP1	14:AN:70:PRO:HG2	2.15	0.47
1:AA:1259:C:N4	1:AA:1260:G:C4	2.82	0.47
3:AC:13:ILE:O	3:AC:13:ILE:HG12	2.14	0.47
5:AE:104:ILE:O	5:AE:104:ILE:HG23	2.13	0.47
9:AI:49:GLN:HE22	9:AI:79:ARG:NH1	2.12	0.47
9:AI:60:LEU:HD23	9:AI:60:LEU:N	2.28	0.47
10:AJ:6:ILE:HD13	10:AJ:76:ILE:HB	1.96	0.47
11:AK:22:ILE:HG13	11:AK:22:ILE:O	2.14	0.47
15:AO:34:GLN:HB3	15:AO:58:MET:HE2	1.94	0.47
17:AQ:20:ILE:HD13	17:AQ:47:ASP:OD1	2.14	0.47
20:AT:53:MET:HA	20:AT:56:ILE:CG2	2.44	0.47
21:AU:40:PRO:O	21:AU:44:ARG:HD3	2.13	0.47
22:AV:17:U:H1'	23:AW:112:TYR:CD1	2.48	0.47
22:AV:31:G:C6	22:AV:34:A:H5'	2.43	0.47
22:AV:45:A:C2	22:AV:46:U:C5	3.02	0.47
22:AV:45:A:N3	22:AV:46:U:C6	2.83	0.47
22:AV:164:G:OP1	22:AV:165:A:OP2	2.33	0.47
22:AV:166:C:C2	22:AV:167:G:N7	2.82	0.47
22:AV:247:A:O5'	22:AV:247:A:H8	1.96	0.47
25:AY:5:VAL:C	25:AY:7:TYR:H	2.22	0.47
25:AY:513:LYS:HB3	25:AY:566:THR:HB	1.95	0.47
25:AY:633:GLY:HA3	26:BA:1068:G:H8	1.67	0.47
26:BA:84:A:H62	26:BA:101:A:H2	1.63	0.47
26:BA:1076:C:H2'	26:BA:1077:A:O4'	2.14	0.47
26:BA:1139:G:O3'	34:BJ:26:GLY:CA	2.62	0.47
26:BA:1392:A:N6	44:BT:18:GLU:CG	2.77	0.47
26:BA:1547:C:C2'	26:BA:1548:A:O5'	2.62	0.47
26:BA:2303:G:C4	26:BA:2304:G:C8	3.02	0.47
26:BA:2348:U:H2'	26:BA:2349:G:O4'	2.14	0.47
26:BA:2591:C:H2'	26:BA:2592:G:C8	2.49	0.47
27:BC:159:THR:N	27:BC:194:VAL:CG1	2.77	0.47
30:BF:73:VAL:HG22	30:BF:78:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BG:8:VAL:CG1	31:BG:49:LEU:CB	2.83	0.47
31:BG:25:ILE:O	31:BG:78:VAL:CG1	2.62	0.47
32:BH:57:LYS:HG2	32:BH:58:LEU:HG	1.96	0.47
32:BH:76:GLU:O	32:BH:143:ILE:HB	2.14	0.47
33:BI:57:VAL:HG23	33:BI:71:LYS:HZ1	1.77	0.47
33:BI:71:LYS:N	33:BI:71:LYS:HD2	2.27	0.47
37:BM:57:VAL:C	37:BM:58:LYS:HG2	2.38	0.47
42:BR:51:VAL:HB	42:BR:52:PRO:HD3	1.94	0.47
44:BT:12:ARG:HH21	49:BY:29:ARG:NH2	2.12	0.47
44:BT:56:GLU:HB2	44:BT:88:LYS:H	1.77	0.47
45:BU:71:ILE:HG12	45:BU:71:ILE:O	2.14	0.47
48:BX:10:ARG:HB2	48:BX:11:PRO:HD2	1.95	0.47
48:BX:17:ARG:HA	48:BX:17:ARG:HD2	1.76	0.47
49:BY:22:LEU:HG	49:BY:23:ARG:H	1.78	0.47
1:AA:69:G:H2'	1:AA:70:U:C6	2.49	0.47
1:AA:146:G:C2'	1:AA:147:G:H5'	2.44	0.47
1:AA:157:U:H1'	1:AA:165:G:N2	2.29	0.47
1:AA:417:G:C2	1:AA:418:C:C2	3.02	0.47
1:AA:430:A:OP2	4:AD:7:LYS:HG2	2.14	0.47
1:AA:554:A:H2'	1:AA:555:U:C6	2.49	0.47
1:AA:806:C:O2	1:AA:807:A:C8	2.67	0.47
1:AA:922:G:O2'	5:AE:25:LYS:CA	2.62	0.47
1:AA:923:A:H2'	1:AA:924:C:O4'	2.15	0.47
1:AA:1061:G:OP2	3:AC:1:GLY:O	2.32	0.47
1:AA:1068:G:N7	1:AA:1094:G:H2'	2.29	0.47
1:AA:1175:G:O2'	1:AA:1176:A:H5'	2.14	0.47
1:AA:1230:C:H6	1:AA:1230:C:O5'	1.97	0.47
1:AA:1339:A:N3	24:AX:32:G:C4'	2.69	0.47
2:AB:49:PHE:CB	2:AB:212:TYR:OH	2.62	0.47
2:AB:134:LEU:HA	2:AB:137:THR:OG1	2.14	0.47
3:AC:166:TRP:HE3	3:AC:166:TRP:O	1.98	0.47
4:AD:2:ARG:CZ	4:AD:114:ARG:CD	2.92	0.47
4:AD:97:LEU:CD2	4:AD:117:VAL:HG11	2.44	0.47
4:AD:169:TRP:HB3	4:AD:183:ARG:CZ	2.43	0.47
4:AD:171:GLU:HG2	4:AD:182:LYS:NZ	2.29	0.47
10:AJ:44:THR:O	10:AJ:45:ARG:C	2.57	0.47
11:AK:109:ILE:HG22	21:AU:16:ARG:HE	1.79	0.47
12:AL:105:GLY:HA3	12:AL:117:GLY:O	2.14	0.47
15:AO:45:HIS:O	15:AO:47:LYS:N	2.48	0.47
15:AO:49:HIS:O	15:AO:52:ARG:HB3	2.15	0.47
15:AO:78:THR:C	15:AO:82:GLU:OE1	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:28:ARG:HG2	16:AP:29:ASN:OD1	2.14	0.47
22:AV:11:C:O2'	22:AV:12:U:OP2	2.33	0.47
22:AV:21:C:C1'	23:AW:78:LYS:HZ1	2.26	0.47
22:AV:28:U:C2	22:AV:29:G:C6	3.02	0.47
22:AV:49:C:O2	22:AV:303:G:N3	2.48	0.47
22:AV:168:G:C2	22:AV:169:G:C5	3.02	0.47
25:AY:89:ASP:HB2	25:AY:90:PHE:H	1.37	0.47
25:AY:214:GLU:O	25:AY:218:GLU:N	2.42	0.47
25:AY:228:MET:HE3	25:AY:229:LEU:HG	1.96	0.47
25:AY:351:ARG:O	25:AY:351:ARG:HG3	2.13	0.47
25:AY:416:LYS:NZ	25:AY:417:THR:HG23	2.29	0.47
26:BA:1:G:H8	26:BA:1:G:OP2	1.97	0.47
26:BA:21:A:C2'	26:BA:22:C:O5'	2.63	0.47
26:BA:368:A:H8	26:BA:368:A:O5'	1.97	0.47
26:BA:479:A:HO2'	26:BA:481:G:H8	1.61	0.47
26:BA:535:G:H2'	26:BA:536:G:H5'	1.94	0.47
26:BA:867:C:C4	26:BA:868:U:C4	3.01	0.47
26:BA:875:G:H8	26:BA:875:G:O5'	1.97	0.47
26:BA:1057:A:N6	26:BA:1086:A:O3'	2.47	0.47
26:BA:1079:C:C2	26:BA:1080:A:C8	3.03	0.47
26:BA:1081:U:OP2	26:BA:1081:U:C6	2.66	0.47
26:BA:1234:U:O5'	26:BA:1234:U:H6	1.97	0.47
26:BA:1348:C:H2'	26:BA:1349:C:C5'	2.45	0.47
26:BA:1408:G:C2'	26:BA:1409:U:H5'	2.44	0.47
26:BA:1592:C:H2'	26:BA:1593:A:C8	2.49	0.47
26:BA:1734:G:C5	26:BA:1735:A:N7	2.82	0.47
26:BA:1871:A:C8	26:BA:1872:A:C2	3.03	0.47
26:BA:2223:G:C3'	26:BA:2224:G:H5'	2.45	0.47
28:BD:12:THR:HG21	40:BP:8:GLU:CG	2.45	0.47
28:BD:85:ALA:O	28:BD:86:GLU:O	2.31	0.47
29:BE:144:GLU:OE2	29:BE:166:LYS:HD3	2.13	0.47
30:BF:30:VAL:HG23	30:BF:95:MET:SD	2.55	0.47
33:BI:42:ASN:HB3	33:BI:46:ASP:OD1	2.14	0.47
35:BK:109:SER:O	35:BK:112:PHE:N	2.46	0.47
36:BL:23:ILE:O	36:BL:24:GLY:C	2.55	0.47
46:BV:60:VAL:C	46:BV:61:LEU:HD13	2.39	0.47
55:B4:36:ARG:CG	55:B4:37:GLN:H	2.26	0.47
1:AA:143:A:H5'	1:AA:144:G:O5'	2.15	0.47
1:AA:214:C:H2'	1:AA:215:C:C6	2.48	0.47
1:AA:307:C:C5	1:AA:308:C:C5	3.02	0.47
1:AA:502:A:C2	1:AA:503:C:C2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1053:G:H4'	1:AA:1054:C:C5'	2.43	0.47
1:AA:1238:A:H2	1:AA:1241:G:N3	2.11	0.47
1:AA:1313:U:C2	1:AA:1314:C:C5	3.02	0.47
1:AA:1377:A:C5	7:AG:6:ILE:HD12	2.50	0.47
1:AA:1410:A:O2'	1:AA:1411:C:C5'	2.61	0.47
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.29	0.47
1:AA:1480:A:C4	1:AA:1481:U:C6	3.02	0.47
1:AA:1507:A:C5	1:AA:1530:G:C6	3.03	0.47
3:AC:183:TYR:HA	3:AC:199:VAL:O	2.14	0.47
5:AE:100:GLU:HB2	5:AE:121:ASN:HB3	1.95	0.47
5:AE:104:ILE:HA	5:AE:122:VAL:HG23	1.94	0.47
6:AF:71:ILE:HG23	6:AF:72:ASP:H	1.79	0.47
8:AH:100:ILE:HD11	8:AH:128:VAL:HB	1.96	0.47
11:AK:46:ALA:HA	11:AK:65:ALA:HB2	1.96	0.47
13:AM:44:ILE:HG22	13:AM:44:ILE:O	2.15	0.47
13:AM:65:GLU:O	13:AM:68:LEU:N	2.48	0.47
19:AS:39:ILE:CD1	19:AS:70:LEU:CD2	2.92	0.47
20:AT:72:ALA:O	20:AT:73:ARG:C	2.56	0.47
22:AV:118:C:H2'	22:AV:119:U:C5'	2.43	0.47
22:AV:240:U:H4'	22:AV:240:U:OP1	2.14	0.47
22:AV:247:A:C5'	22:AV:248:G:OP1	2.54	0.47
22:AV:260:C:H2'	22:AV:261:G:C8	2.50	0.47
22:AV:310:G:C2	22:AV:311:U:O4	2.64	0.47
22:AV:335:C:C6	22:AV:335:C:OP1	2.67	0.47
24:AX:49:C:P	24:AX:49:C:C6	3.08	0.47
25:AY:170:ARG:HH22	25:AY:208:GLN:HE22	1.62	0.47
25:AY:422:GLU:C	25:AY:424:LEU:N	2.68	0.47
25:AY:561:VAL:O	25:AY:562:ASP:HB2	2.13	0.47
26:BA:411:G:OP2	26:BA:2406:A:O2'	2.31	0.47
26:BA:572:A:H3'	26:BA:573:U:O4'	2.13	0.47
26:BA:632:A:H2'	26:BA:633:A:C8	2.49	0.47
26:BA:772:C:H2'	26:BA:773:U:H6	1.79	0.47
26:BA:880:G:C4'	26:BA:899:A:H61	2.27	0.47
26:BA:907:G:H2'	26:BA:908:C:C6	2.50	0.47
26:BA:1023:U:H2'	26:BA:1024:G:H5'	1.96	0.47
26:BA:1075:C:C6	26:BA:1075:C:H3'	2.49	0.47
26:BA:1591:A:H2'	26:BA:1592:C:O4'	2.13	0.47
26:BA:2186:G:H2'	26:BA:2187:U:H6	1.77	0.47
26:BA:2751:G:H2'	26:BA:2751:G:N3	2.29	0.47
27:BC:63:ILE:O	27:BC:63:ILE:HG22	2.14	0.47
31:BG:89:VAL:HG21	31:BG:162:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BL:106:GLU:CB	36:BL:107:PHE:CE2	2.98	0.47
39:BO:2:ASP:O	39:BO:3:LYS:C	2.57	0.47
39:BO:16:ARG:O	39:BO:20:GLU:HG3	2.14	0.47
1:AA:16:A:C2'	1:AA:17:U:H5'	2.44	0.47
1:AA:201:G:H2'	1:AA:202:G:C8	2.49	0.47
1:AA:706:A:H2'	1:AA:707:U:H5'	1.95	0.47
1:AA:872:A:C5	1:AA:874:G:C8	3.02	0.47
1:AA:872:A:N7	1:AA:874:G:C8	2.83	0.47
1:AA:919:A:N3	1:AA:919:A:H2'	2.30	0.47
1:AA:1213:A:C8	1:AA:1215:G:N7	2.82	0.47
1:AA:1508:A:H2'	1:AA:1509:C:C6	2.50	0.47
2:AB:56:LEU:HD13	2:AB:57:ASN:N	2.28	0.47
2:AB:84:LEU:O	2:AB:88:GLN:O	2.33	0.47
4:AD:156:ALA:O	4:AD:160:LEU:HD13	2.14	0.47
4:AD:167:PRO:CB	4:AD:170:LEU:HD11	2.44	0.47
5:AE:19:ARG:HA	5:AE:31:SER:O	2.15	0.47
7:AG:94:ARG:CZ	7:AG:98:LEU:HD21	2.44	0.47
10:AJ:27:GLU:C	10:AJ:29:ALA:N	2.73	0.47
10:AJ:59:LYS:N	10:AJ:59:LYS:NZ	2.63	0.47
12:AL:54:VAL:HG12	12:AL:56:LEU:HD23	1.96	0.47
16:AP:52:LEU:HD23	16:AP:78:VAL:HG11	1.95	0.47
18:AR:22:TYR:CE1	18:AR:23:LYS:HG3	2.49	0.47
22:AV:153:U:H2'	22:AV:192:A:N7	2.30	0.47
22:AV:185:A:C8	22:AV:186:A:N6	2.83	0.47
22:AV:233:A:H2'	22:AV:234:A:OP1	2.15	0.47
22:AV:248:G:O6	22:AV:249:U:O4	2.32	0.47
22:AV:263:G:C5'	22:AV:264:U:OP2	2.63	0.47
23:AW:38:LYS:NZ	26:BA:1910:G:P	2.75	0.47
25:AY:176:GLY:HA2	25:AY:187:THR:HA	1.95	0.47
25:AY:210:ARG:HH11	25:AY:210:ARG:HG2	1.79	0.47
25:AY:259:PHE:N	25:AY:259:PHE:CD1	2.81	0.47
25:AY:504:ARG:O	25:AY:506:GLN:N	2.47	0.47
26:BA:31:C:H2'	26:BA:32:C:C5'	2.45	0.47
26:BA:329:G:O4'	26:BA:477:A:H1'	2.13	0.47
26:BA:882:G:C2	26:BA:883:G:C5	3.03	0.47
26:BA:1090:A:N1	26:BA:1091:G:N7	2.62	0.47
26:BA:1122:G:C6	26:BA:1123:C:C5	3.03	0.47
26:BA:1122:G:C2	26:BA:1123:C:C6	3.01	0.47
26:BA:1413:A:C2	26:BA:1590:A:C2	3.02	0.47
26:BA:1710:G:H4'	26:BA:2858:C:O2	2.15	0.47
26:BA:1838:C:C4	26:BA:1899:A:C5	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1840:G:C4	26:BA:1841:U:C6	3.02	0.47
26:BA:2111:U:H5'	26:BA:2112:G:P	2.55	0.47
26:BA:2145:C:H3'	26:BA:2145:C:C6	2.49	0.47
26:BA:2545:G:H2'	26:BA:2546:U:O4'	2.14	0.47
26:BA:2732:G:O2'	26:BA:2733:A:H5'	2.13	0.47
27:BC:58:LYS:O	27:BC:59:GLN:HG3	2.15	0.47
28:BD:207:VAL:HG13	28:BD:208:LYS:N	2.29	0.47
33:BI:18:ASN:HD21	33:BI:27:LEU:HD21	1.78	0.47
36:BL:77:ILE:HD12	36:BL:100:ILE:HD11	1.96	0.47
36:BL:130:GLY:O	36:BL:131:ALA:C	2.57	0.47
39:BO:64:TYR:HB3	39:BO:67:ASN:ND2	2.29	0.47
42:BR:14:VAL:HG11	42:BR:98:ILE:CD1	2.45	0.47
1:AA:94:G:N1	1:AA:98:A:C2	2.82	0.47
1:AA:328:C:O2	1:AA:328:C:C2'	2.62	0.47
1:AA:373:A:H2'	1:AA:374:A:H8	1.79	0.47
1:AA:675:A:H2'	1:AA:676:A:O5'	2.15	0.47
1:AA:710:G:H5"	6:AF:53:LYS:NZ	2.29	0.47
1:AA:854:U:C6	1:AA:871:U:O4	2.68	0.47
1:AA:949:A:C4	1:AA:1233:G:N2	2.82	0.47
1:AA:1007:U:C2'	1:AA:1008:U:H5'	2.45	0.47
1:AA:1187:G:H5'	9:AI:114:LYS:HE3	1.95	0.47
1:AA:1291:U:P	7:AG:36:SER:HG	2.32	0.47
2:AB:9:LEU:HD11	2:AB:11:ALA:O	2.14	0.47
4:AD:101:VAL:HA	4:AD:104:MET:HG3	1.96	0.47
4:AD:121:ALA:N	4:AD:122:ILE:HD12	2.29	0.47
5:AE:114:LEU:HD12	5:AE:114:LEU:HA	1.74	0.47
7:AG:42:VAL:O	7:AG:46:LEU:N	2.47	0.47
11:AK:52:ARG:O	11:AK:55:ARG:HB2	2.14	0.47
13:AM:53:ASP:CB	13:AM:56:ARG:HE	2.27	0.47
14:AN:73:PHE:CZ	14:AN:78:GLY:HA2	2.49	0.47
18:AR:54:LEU:O	18:AR:58:ILE:HG13	2.15	0.47
20:AT:67:HIS:HB3	20:AT:68:LYS:HG3	1.96	0.47
21:AU:7:GLU:CB	21:AU:11:PHE:HZ	2.27	0.47
22:AV:17:U:C5'	22:AV:19:G:P	2.95	0.47
22:AV:46:U:H1'	22:AV:312:A:H4'	1.93	0.47
22:AV:150:G:N3	22:AV:150:G:H2'	2.28	0.47
22:AV:180:G:O2'	22:AV:181:G:H1'	2.15	0.47
22:AV:321:G:OP1	22:AV:321:G:O4'	2.33	0.47
22:AV:334:A:N1	23:AW:112:TYR:HA	1.92	0.47
23:AW:7:ASN:ND2	23:AW:41:PHE:HB2	2.30	0.47
23:AW:17:LEU:CD2	23:AW:119:LEU:HD12	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:81:LEU:HD23	23:AW:85:GLU:O	2.14	0.47
24:AX:53:G:C4	24:AX:54:G:C8	3.03	0.47
25:AY:120:THR:C	25:AY:124:GLN:CD	2.83	0.47
25:AY:205:TYR:O	25:AY:206:LEU:C	2.57	0.47
26:BA:7:G:H5'	34:BJ:132:HIS:CE1	2.49	0.47
26:BA:178:G:O2'	26:BA:179:C:H5'	2.14	0.47
26:BA:729:G:C6	27:BC:206:LYS:HB2	2.49	0.47
26:BA:875:G:C6	26:BA:876:C:N4	2.82	0.47
26:BA:896:A:H1'	26:BA:897:C:C5'	2.33	0.47
26:BA:1348:C:C5	26:BA:1349:C:C5	3.02	0.47
26:BA:1532:A:H3'	26:BA:1533:C:H6	1.79	0.47
26:BA:1664:A:C2	26:BA:2726:A:C8	3.03	0.47
26:BA:1820:U:O2	27:BC:200:MET:HB3	2.14	0.47
26:BA:1924:C:H2'	26:BA:1925:C:H5"	1.96	0.47
26:BA:2141:G:C2'	26:BA:2142:A:H5'	2.44	0.47
26:BA:2192:U:H2'	26:BA:2193:G:H8	1.80	0.47
26:BA:2199:A:H2'	26:BA:2200:C:H5'	1.97	0.47
26:BA:2544:G:H2'	26:BA:2545:G:O5'	2.15	0.47
26:BA:2668:G:C2'	26:BA:2669:G:O5'	2.62	0.47
27:BC:5:CYS:SG	27:BC:15:VAL:HG12	2.55	0.47
27:BC:221:GLY:O	27:BC:223:ALA:N	2.48	0.47
30:BF:23:SER:O	30:BF:25:MET:N	2.47	0.47
30:BF:57:ALA:O	30:BF:60:SER:O	2.33	0.47
30:BF:148:VAL:O	30:BF:148:VAL:HG23	2.15	0.47
31:BG:164:ALA:C	31:BG:166:GLU:H	2.21	0.47
34:BJ:23:LYS:HE3	34:BJ:142:ILE:OXT	2.13	0.47
35:BK:69:VAL:O	35:BK:76:VAL:HA	2.14	0.47
35:BK:91:SER:O	35:BK:92:GLU:C	2.56	0.47
37:BM:16:ARG:HG2	37:BM:16:ARG:NH1	2.23	0.47
39:BO:89:ASP:HA	39:BO:116:GLN:HB3	1.96	0.47
40:BP:3:ILE:HD12	40:BP:3:ILE:N	2.29	0.47
40:BP:55:HIS:O	40:BP:56:SER:C	2.57	0.47
42:BR:49:ILE:HB	42:BR:51:VAL:O	2.14	0.47
49:BY:36:GLN:O	49:BY:37:LEU:CB	2.63	0.47
1:AA:71:A:O2'	1:AA:72:A:P	2.72	0.47
1:AA:198:G:C6	1:AA:220:G:C4	3.03	0.47
1:AA:375:U:O2'	16:AP:6:LEU:O	2.32	0.47
1:AA:413:G:N1	4:AD:32:LYS:HD2	2.29	0.47
1:AA:427:U:H3'	1:AA:428:G:H2'	1.96	0.47
1:AA:439:U:HO2'	1:AA:440:C:P	2.38	0.47
1:AA:455:G:C2	1:AA:478:A:N1	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:540:G:C4	1:AA:541:G:C8	3.03	0.47
1:AA:791:G:C5	1:AA:792:A:N7	2.83	0.47
1:AA:833:G:C4	1:AA:834:U:C6	3.03	0.47
1:AA:1033:G:N3	1:AA:1033:G:C2'	2.78	0.47
1:AA:1079:G:N1	1:AA:1080:A:C2	2.76	0.47
1:AA:1100:C:N4	2:AB:94:ARG:CZ	2.66	0.47
1:AA:1141:C:O2	1:AA:1142:G:C8	2.68	0.47
1:AA:1162:C:C2	1:AA:1175:G:N2	2.83	0.47
1:AA:1181:G:C6	1:AA:1182:G:N2	2.83	0.47
1:AA:1186:G:H2'	1:AA:1187:G:O5'	2.14	0.47
1:AA:1213:A:C4	1:AA:1215:G:C8	3.02	0.47
1:AA:1286:U:O2	1:AA:1286:U:H2'	2.14	0.47
1:AA:1291:U:O5'	1:AA:1291:U:H6	1.97	0.47
1:AA:1339:A:O2'	24:AX:33:C:H5'	2.14	0.47
1:AA:1377:A:N1	7:AG:6:ILE:CD1	2.77	0.47
1:AA:1412:C:C2	1:AA:1413:A:N7	2.82	0.47
2:AB:40:ILE:HG21	2:AB:201:GLY:H	1.79	0.47
2:AB:88:GLN:HG3	2:AB:220:VAL:HG11	1.95	0.47
2:AB:183:PHE:CE2	2:AB:197:PHE:CD2	3.02	0.47
2:AB:205:ALA:C	2:AB:206:ILE:HD13	2.40	0.47
4:AD:11:SER:O	4:AD:12:ARG:C	2.57	0.47
4:AD:56:GLU:OE2	4:AD:194:ILE:HA	2.15	0.47
5:AE:116:VAL:O	5:AE:116:VAL:HG23	2.15	0.47
5:AE:130:THR:O	5:AE:131:ASN:C	2.58	0.47
6:AF:38:ARG:HG3	6:AF:39:LEU:N	2.29	0.47
8:AH:40:LYS:N	8:AH:45:ILE:HG12	2.29	0.47
9:AI:24:ASN:O	9:AI:60:LEU:C	2.58	0.47
9:AI:27:ILE:HG12	9:AI:62:LEU:HD21	1.97	0.47
13:AM:70:ARG:HD2	13:AM:74:MET:HE3	1.95	0.47
13:AM:78:ARG:O	13:AM:82:LEU:HG	2.15	0.47
13:AM:80:MET:CB	13:AM:91:ARG:HH22	2.26	0.47
14:AN:5:MET:HE2	14:AN:63:ARG:NH2	2.29	0.47
16:AP:39:PHE:CB	16:AP:74:LEU:HD11	2.45	0.47
21:AU:9:GLU:CD	21:AU:10:PRO:HG3	2.40	0.47
22:AV:44:C:C2	22:AV:263:G:N3	2.82	0.47
22:AV:61:G:C4'	22:AV:62:G:C5'	2.51	0.47
22:AV:63:C:O2	22:AV:73:A:N3	2.48	0.47
22:AV:77:G:H2'	22:AV:78:C:C6	2.50	0.47
22:AV:361:C:H2'	22:AV:362:C:H5'	1.97	0.47
23:AW:45:PHE:CD1	23:AW:45:PHE:N	2.82	0.47
25:AY:9:LEU:HD23	25:AY:10:LYS:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:182:ARG:HG3	25:AY:182:ARG:HH11	1.80	0.47
25:AY:385:THR:OG1	25:AY:386:GLY:N	2.47	0.47
25:AY:525:PHE:CD1	25:AY:525:PHE:N	2.80	0.47
25:AY:632:LEU:O	26:BA:1067:A:P	2.73	0.47
25:AY:658:ASP:OD1	31:BG:176:LYS:NZ	2.41	0.47
26:BA:141:G:H5"	26:BA:142:A:N7	2.29	0.47
26:BA:359:G:C5	26:BA:360:U:C6	3.02	0.47
26:BA:490:C:H4'	26:BA:491:G:OP2	2.15	0.47
26:BA:662:G:O3'	36:BL:16:GLY:HA2	2.14	0.47
26:BA:720:U:O2	26:BA:720:U:C2'	2.61	0.47
26:BA:790:U:O2	26:BA:790:U:O4'	2.27	0.47
26:BA:1079:C:C4	26:BA:1088:A:C6	3.02	0.47
26:BA:1249:U:H4'	41:BQ:3:VAL:HG11	1.96	0.47
26:BA:1292:G:O2'	26:BA:1293:C:H5'	2.15	0.47
26:BA:1301:A:C2	26:BA:1303:G:C6	3.03	0.47
26:BA:1773:A:N7	26:BA:1829:A:H1'	2.30	0.47
26:BA:1840:G:C4	26:BA:1841:U:C5	3.02	0.47
26:BA:1888:G:H5"	26:BA:1889:A:OP1	2.15	0.47
26:BA:2128:G:H2'	26:BA:2129:C:C6	2.49	0.47
26:BA:2146:C:C5'	26:BA:2147:A:OP1	2.62	0.47
26:BA:2191:A:H2'	26:BA:2191:A:N3	2.29	0.47
26:BA:2210:U:O3'	26:BA:2211:A:H4'	2.14	0.47
26:BA:2228:G:H2'	26:BA:2229:U:C6	2.50	0.47
26:BA:2317:A:N6	26:BA:2318:G:C2	2.83	0.47
26:BA:2552:U:C2	26:BA:2554:U:H5'	2.49	0.47
26:BA:2661:G:C2'	26:BA:2662:A:O5'	2.63	0.47
27:BC:135:PRO:O	27:BC:136:VAL:C	2.57	0.47
27:BC:181:ARG:HG2	27:BC:181:ARG:HH21	1.79	0.47
30:BF:30:VAL:CG2	30:BF:95:MET:SD	3.03	0.47
30:BF:43:ILE:O	30:BF:82:TYR:OH	2.33	0.47
30:BF:162:ASP:O	30:BF:163:GLU:C	2.58	0.47
32:BH:72:ILE:HD12	32:BH:140:ALA:HB3	1.97	0.47
32:BH:135:HIS:CD2	32:BH:137:GLU:HG2	2.49	0.47
34:BJ:73:VAL:HG11	34:BJ:75:TYR:CZ	2.49	0.47
36:BL:4:ASN:C	36:BL:5:THR:CG2	2.87	0.47
37:BM:47:GLU:O	37:BM:48:ALA:C	2.56	0.47
43:BS:66:ILE:HA	43:BS:69:LEU:CD2	2.44	0.47
49:BY:9:LYS:C	49:BY:11:VAL:N	2.72	0.47
50:BZ:3:THR:CG2	50:BZ:36:GLU:HB3	2.45	0.47
52:B1:31:GLU:O	52:B1:31:GLU:HG2	2.15	0.47
56:BB:35:C:H2'	56:BB:36:C:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BB:45:A:H2'	56:BB:46:A:O4'	2.15	0.47
1:AA:66:A:H2'	1:AA:66:A:N3	2.30	0.47
1:AA:203:G:N2	1:AA:215:C:C2	2.83	0.47
1:AA:258:G:C2	1:AA:269:C:O2	2.68	0.47
1:AA:276:G:C5	1:AA:277:C:C5	3.03	0.47
1:AA:299:G:O6	1:AA:300:A:N1	2.48	0.47
1:AA:323:U:O4	1:AA:324:G:C6	2.68	0.47
1:AA:643:C:C2'	1:AA:644:U:H5'	2.44	0.47
1:AA:708:C:H2'	1:AA:709:U:C6	2.47	0.47
1:AA:922:G:O2'	5:AE:25:LYS:CG	2.55	0.47
2:AB:53:LEU:N	2:AB:53:LEU:CD2	2.77	0.47
3:AC:46:LEU:HD21	3:AC:86:LEU:HD11	1.97	0.47
4:AD:123:MET:HG3	4:AD:145:ARG:HG2	1.96	0.47
4:AD:162:GLU:HA	4:AD:166:LYS:HD3	1.97	0.47
4:AD:164:ARG:O	4:AD:166:LYS:N	2.47	0.47
5:AE:125:LYS:HD3	5:AE:127:TYR:CE2	2.50	0.47
8:AH:48:PHE:HB3	8:AH:60:LEU:HD23	1.97	0.47
12:AL:28:GLN:HB2	12:AL:81:ILE:O	2.14	0.47
13:AM:2:ARG:C	13:AM:3:ILE:HD13	2.40	0.47
16:AP:52:LEU:O	16:AP:54:LEU:N	2.48	0.47
16:AP:79:ASN:CB	16:AP:82:ALA:O	2.63	0.47
20:AT:53:MET:HE3	20:AT:54:GLN:N	2.29	0.47
22:AV:153:U:O2'	22:AV:154:C:OP1	2.30	0.47
22:AV:199:C:H6	22:AV:199:C:C5'	2.28	0.47
22:AV:244:G:C2	22:AV:245:C:C1'	2.90	0.47
22:AV:248:G:C2	22:AV:249:U:N3	2.82	0.47
22:AV:303:G:OP2	22:AV:303:G:C3'	2.33	0.47
24:AX:18:U:O2'	24:AX:19:G:C4'	2.54	0.47
24:AX:48:U:C6	24:AX:51:U:OP1	2.68	0.47
25:AY:8:ASP:O	25:AY:10:LYS:N	2.44	0.47
25:AY:17:ILE:HG22	25:AY:25:LYS:HG2	1.96	0.47
25:AY:168:ILE:HD11	25:AY:178:ILE:CD1	2.43	0.47
25:AY:207:ASP:O	25:AY:208:GLN:C	2.56	0.47
25:AY:370:LYS:O	25:AY:371:ALA:C	2.58	0.47
25:AY:409:ILE:HG22	25:AY:459:LEU:HD13	1.97	0.47
25:AY:618:GLY:HA3	26:BA:1094:U:H5'	1.96	0.47
25:AY:635:GLU:OE1	26:BA:1067:A:O2'	2.32	0.47
25:AY:658:ASP:CG	31:BG:176:LYS:HZ1	2.23	0.47
26:BA:134:G:H2'	26:BA:135:U:O5'	2.15	0.47
26:BA:158:U:H2'	26:BA:159:G:H5'	1.96	0.47
26:BA:388:G:H5'	26:BA:389:G:OP2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:416:U:H3'	26:BA:416:U:H6	1.80	0.47
26:BA:417:C:C2	26:BA:418:C:C5	3.03	0.47
26:BA:601:C:O2	26:BA:605:G:H4'	2.14	0.47
26:BA:1154:G:OP2	41:BQ:57:ARG:NH1	2.45	0.47
26:BA:1415:U:O2	26:BA:1415:U:C3'	2.63	0.47
26:BA:1417:C:O2'	26:BA:1587:G:O2'	2.26	0.47
26:BA:1855:U:O2'	26:BA:1856:U:H5'	2.15	0.47
26:BA:1878:G:H2'	26:BA:1879:C:O4'	2.15	0.47
26:BA:2105:U:O4	26:BA:2184:A:N1	2.47	0.47
26:BA:2161:C:O2	26:BA:2162:G:C8	2.66	0.47
26:BA:2211:A:O2'	26:BA:2212:A:P	2.72	0.47
26:BA:2516:A:C2	26:BA:2569:G:C2	3.03	0.47
29:BE:5:LEU:N	29:BE:5:LEU:CD1	2.77	0.47
29:BE:30:GLN:O	29:BE:30:GLN:HG2	2.14	0.47
30:BF:93:GLU:O	30:BF:94:ARG:C	2.56	0.47
33:BI:41:PHE:CE2	33:BI:42:ASN:OD1	2.67	0.47
39:BO:56:LYS:HA	39:BO:59:ALA:HB3	1.97	0.47
40:BP:30:TRP:CE3	40:BP:39:LEU:HD12	2.50	0.47
41:BQ:35:PHE:C	41:BQ:37:ALA:H	2.22	0.47
42:BR:43:ASN:HB3	42:BR:44:GLY:H	1.51	0.47
1:AA:4:U:H3'	1:AA:4:U:O2	2.15	0.47
1:AA:154:U:O4	1:AA:167:A:N1	2.48	0.47
1:AA:277:C:H2'	1:AA:278:G:C5'	2.44	0.47
1:AA:368:U:H6	25:AY:354:ARG:CZ	2.27	0.47
1:AA:949:A:C5	1:AA:950:U:C5	3.02	0.47
1:AA:1002:G:C6	1:AA:1003:G:C5	3.03	0.47
1:AA:1060:U:H2'	1:AA:1061:G:H8	1.78	0.47
1:AA:1239:A:N3	1:AA:1241:G:N1	2.63	0.47
1:AA:1367:C:OP2	9:AI:113:LYS:NZ	2.43	0.47
1:AA:1374:A:C2'	1:AA:1375:A:H5'	2.44	0.47
2:AB:15:PHE:HB2	2:AB:39:ILE:HG23	1.97	0.47
2:AB:30:ILE:CD1	2:AB:38:HIS:HB2	2.44	0.47
3:AC:39:ARG:HG2	3:AC:54:ILE:CG1	2.45	0.47
3:AC:69:THR:O	3:AC:104:GLU:HA	2.14	0.47
3:AC:158:GLY:HA2	3:AC:192:TYR:CD1	2.49	0.47
5:AE:88:HIS:CE1	5:AE:137:ARG:HD3	2.50	0.47
6:AF:35:LYS:HE3	6:AF:65:GLU:OE2	2.15	0.47
8:AH:124:ILE:O	8:AH:124:ILE:HG13	2.13	0.47
9:AI:48:ARG:HD3	9:AI:49:GLN:N	2.30	0.47
10:AJ:40:ILE:HB	10:AJ:73:LEU:CB	2.44	0.47
10:AJ:63:ASP:OD2	14:AN:98:LYS:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:119:U:C2'	22:AV:120:U:O5'	2.62	0.47
22:AV:129:G:C3'	22:AV:130:C:H4'	2.39	0.47
22:AV:184:A:C8	22:AV:185:A:C5	3.03	0.47
22:AV:256:G:O2'	22:AV:258:G:N7	2.41	0.47
22:AV:316:A:C2'	22:AV:317:G:C5'	2.87	0.47
23:AW:45:PHE:CB	23:AW:100:LEU:O	2.62	0.47
23:AW:88:ARG:HH12	23:AW:119:LEU:CD2	2.23	0.47
24:AX:53:G:C2	24:AX:64:G:C4	3.03	0.47
25:AY:87:HIS:NE2	25:AY:120:THR:OG1	2.47	0.47
25:AY:122:TRP:CE2	25:AY:157:LEU:HD12	2.49	0.47
25:AY:487:ILE:H	25:AY:487:ILE:CD1	2.28	0.47
26:BA:277:G:H4'	26:BA:278:A:C6	2.50	0.47
26:BA:354:A:C5	26:BA:355:U:C5	3.03	0.47
26:BA:882:G:N1	26:BA:895:U:C2	2.83	0.47
26:BA:894:U:C2	26:BA:895:U:C6	3.02	0.47
26:BA:906:U:H2'	26:BA:907:G:C8	2.46	0.47
26:BA:1079:C:N4	26:BA:1088:A:C4	2.83	0.47
26:BA:1121:C:C6	26:BA:1121:C:C3'	2.98	0.47
26:BA:1196:C:O4'	26:BA:1226:A:C2	2.68	0.47
26:BA:1270:C:H6	26:BA:1270:C:O5'	1.98	0.47
26:BA:1441:G:H2'	26:BA:1442:U:C6	2.50	0.47
26:BA:1519:G:C4	26:BA:1520:U:C5	3.02	0.47
26:BA:1585:C:C2'	26:BA:1586:A:H5'	2.44	0.47
26:BA:1616:A:H4'	26:BA:1617:C:OP2	2.15	0.47
26:BA:1869:G:H2'	26:BA:1870:C:H5'	1.97	0.47
26:BA:1922:G:N7	26:BA:1923:U:C5	2.82	0.47
26:BA:2046:G:C2'	26:BA:2047:C:H5'	2.45	0.47
26:BA:2102:G:C5	26:BA:2103:C:C4	3.03	0.47
26:BA:2182:U:C2	26:BA:2183:A:N7	2.83	0.47
26:BA:2313:C:H5"	30:BF:87:LYS:HD3	1.97	0.47
26:BA:2429:G:OP2	26:BA:2430:A:OP2	2.32	0.47
26:BA:2472:G:H2'	26:BA:2475:C:H42	1.79	0.47
30:BF:135:ILE:HG22	30:BF:135:ILE:O	2.15	0.47
31:BG:140:ILE:HD12	31:BG:140:ILE:C	2.40	0.47
33:BI:6:ALA:CB	33:BI:60:VAL:N	2.78	0.47
33:BI:12:VAL:O	33:BI:13:ALA:HB2	2.15	0.47
40:BP:102:ARG:HD2	40:BP:106:ALA:O	2.14	0.47
41:BQ:35:PHE:C	41:BQ:37:ALA:N	2.70	0.47
52:B1:10:LEU:HD23	52:B1:10:LEU:N	2.30	0.47
55:B4:19:ARG:O	55:B4:21:GLY:N	2.48	0.47
1:AA:159:G:H5"	1:AA:159:G:H8	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:632:U:H3'	1:AA:632:U:C6	2.47	0.47
1:AA:985:C:H2'	1:AA:986:U:C6	2.50	0.47
1:AA:994:A:O2'	14:AN:7:ALA:CB	2.63	0.47
1:AA:1080:A:C8	1:AA:1080:A:P	3.06	0.47
1:AA:1217:C:C2	1:AA:1218:C:C5	3.03	0.47
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.50	0.47
2:AB:30:ILE:HD13	2:AB:38:HIS:CG	2.50	0.47
2:AB:68:PHE:HE2	2:AB:88:GLN:CB	2.27	0.47
2:AB:207:ARG:O	2:AB:211:LEU:HD13	2.14	0.47
2:AB:216:VAL:O	2:AB:220:VAL:HG23	2.15	0.47
3:AC:55:VAL:HG12	3:AC:56:ILE:N	2.30	0.47
3:AC:112:ALA:O	3:AC:113:LYS:C	2.57	0.47
4:AD:91:ALA:O	4:AD:94:GLU:N	2.48	0.47
4:AD:160:LEU:N	4:AD:160:LEU:HD22	2.29	0.47
5:AE:90:GLY:O	5:AE:128:GLY:HA3	2.15	0.47
7:AG:30:MET:CG	7:AG:31:VAL:N	2.78	0.47
11:AK:30:ILE:HA	11:AK:45:THR:HG22	1.95	0.47
11:AK:88:PRO:HD3	21:AU:28:LEU:HD11	1.97	0.47
12:AL:37:TYR:O	12:AL:38:THR:CG2	2.63	0.47
14:AN:22:LYS:HA	14:AN:25:GLU:OE2	2.15	0.47
14:AN:61:ARG:HG2	14:AN:70:PRO:HB3	1.96	0.47
15:AO:88:ARG:NE	26:BA:714:U:C5	2.83	0.47
17:AQ:14:ASP:N	17:AQ:16:MET:HE1	2.30	0.47
17:AQ:60:ILE:HA	17:AQ:73:THR:O	2.15	0.47
19:AS:12:LEU:C	19:AS:14:LEU:N	2.72	0.47
21:AU:11:PHE:C	21:AU:12:ASP:OD2	2.58	0.47
22:AV:8:A:C6	22:AV:346:C:C2	3.03	0.47
22:AV:16:U:C6	23:AW:110:ARG:CZ	2.98	0.47
22:AV:251:U:H2'	22:AV:252:G:C8	2.50	0.47
22:AV:257:U:C2	22:AV:258:G:C6	3.01	0.47
22:AV:257:U:C2	22:AV:258:G:N2	2.82	0.47
23:AW:48:PHE:CE2	23:AW:100:LEU:HD21	2.49	0.47
23:AW:81:LEU:HD23	23:AW:85:GLU:C	2.40	0.47
25:AY:150:ILE:C	25:AY:152:THR:N	2.69	0.47
25:AY:379:GLY:O	25:AY:380:LEU:O	2.33	0.47
25:AY:447:GLY:O	25:AY:448:GLN:C	2.58	0.47
25:AY:601:ILE:HG22	25:AY:601:ILE:O	2.15	0.47
25:AY:605:ILE:HD11	25:AY:677:GLN:HG2	1.97	0.47
26:BA:245:G:O6	54:B3:7:ARG:HD3	2.15	0.47
26:BA:729:G:H2'	26:BA:1775:U:H1'	1.96	0.47
26:BA:877:A:O2'	26:BA:878:A:H5"	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:903:C:O5'	26:BA:903:C:C6	2.69	0.47
26:BA:1446:C:H2'	26:BA:1447:C:C6	2.50	0.47
26:BA:1581:G:C2'	26:BA:1582:C:H5'	2.45	0.47
26:BA:1801:A:C8	26:BA:2203:U:H2'	2.51	0.47
26:BA:2333:A:P	47:BW:73:ARG:HH22	2.37	0.47
26:BA:2799:A:O2'	26:BA:2800:A:C5'	2.63	0.47
27:BC:77:VAL:HG12	27:BC:111:ALA:HA	1.97	0.47
27:BC:202:ARG:HG2	27:BC:202:ARG:O	2.15	0.47
30:BF:6:TYR:CD2	30:BF:6:TYR:C	2.93	0.47
31:BG:117:PRO:HD2	31:BG:120:ILE:HB	1.96	0.47
31:BG:154:GLU:HG2	31:BG:155:PRO:CD	2.45	0.47
33:BI:57:VAL:HG23	33:BI:71:LYS:HZ3	1.80	0.47
36:BL:29:LYS:HG2	36:BL:30:THR:HG23	1.97	0.47
36:BL:127:VAL:HG13	36:BL:131:ALA:HB3	1.97	0.47
39:BO:9:ARG:O	39:BO:10:ARG:C	2.58	0.47
40:BP:21:PRO:HD3	40:BP:49:ILE:CD1	2.44	0.47
40:BP:24:THR:HB	40:BP:87:ARG:HB3	1.97	0.47
42:BR:48:LYS:HE3	42:BR:48:LYS:HB3	1.52	0.47
43:BS:20:VAL:HG11	43:BS:47:VAL:HG11	1.97	0.47
46:BV:70:ILE:HG22	46:BV:72:VAL:HG13	1.96	0.47
46:BV:75:GLN:HB2	46:BV:92:VAL:HG23	1.97	0.47
1:AA:234:C:H2'	1:AA:235:C:H6	1.77	0.46
1:AA:457:G:C5	1:AA:458:U:C5	3.04	0.46
1:AA:458:U:H2'	1:AA:458:U:O2	2.14	0.46
1:AA:685:G:O2'	1:AA:686:U:H5'	2.14	0.46
1:AA:1004:A:C2	1:AA:1026:G:C4	3.03	0.46
1:AA:1156:G:H5"	1:AA:1157:A:P	2.55	0.46
1:AA:1279:G:C5'	10:AJ:9:ARG:CZ	2.92	0.46
1:AA:1397:C:O2	1:AA:1397:C:O4'	2.33	0.46
1:AA:1415:G:O2'	1:AA:1416:G:H5'	2.14	0.46
2:AB:69:VAL:HG12	2:AB:69:VAL:O	2.15	0.46
4:AD:54:LEU:HD23	4:AD:55:ARG:HA	1.96	0.46
4:AD:149:LYS:O	4:AD:151:GLN:N	2.48	0.46
5:AE:115:GLU:OE1	5:AE:116:VAL:HG12	2.15	0.46
8:AH:105:THR:HG21	8:AH:120:LEU:CD1	2.45	0.46
9:AI:93:LEU:HD12	9:AI:94:ARG:N	2.29	0.46
13:AM:80:MET:O	13:AM:81:ASP:C	2.56	0.46
17:AQ:30:HIS:ND1	17:AQ:31:PRO:HD2	2.30	0.46
20:AT:34:VAL:HG21	20:AT:53:MET:HG2	1.96	0.46
22:AV:26:U:H4'	30:BF:132:ARG:NH2	2.29	0.46
22:AV:45:A:C6	22:AV:307:G:N1	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:47:G:H5'	22:AV:313:C:OP1	2.15	0.46
22:AV:65:U:O2'	22:AV:66:C:C5'	2.63	0.46
22:AV:113:A:H8	22:AV:113:A:O5'	1.99	0.46
22:AV:139:C:C2'	22:AV:140:U:H5'	2.44	0.46
23:AW:46:ALA:HB1	23:AW:53:LEU:HD21	1.96	0.46
24:AX:27:G:N2	24:AX:45:A:N6	2.55	0.46
24:AX:59:A:O2'	24:AX:61:U:OP2	2.32	0.46
24:AX:70:C:C2	24:AX:71:G:C8	3.03	0.46
25:AY:121:VAL:CG2	25:AY:122:TRP:N	2.77	0.46
25:AY:495:GLY:O	25:AY:510:VAL:N	2.43	0.46
25:AY:636:PRO:C	33:BI:23:VAL:O	2.46	0.46
26:BA:132:G:H2'	26:BA:133:U:C6	2.50	0.46
26:BA:396:G:H1'	48:BX:28:PHE:HB3	1.97	0.46
26:BA:1069:A:N1	26:BA:1074:G:C5	2.82	0.46
26:BA:1270:C:H5"	26:BA:1271:G:O5'	2.15	0.46
26:BA:1473:G:C6	26:BA:1474:U:N3	2.83	0.46
26:BA:1482:G:N3	26:BA:1483:G:C8	2.83	0.46
26:BA:1693:U:O2'	27:BC:13:ARG:NH2	2.49	0.46
26:BA:1735:A:C2	26:BA:1736:U:C2	3.03	0.46
26:BA:2123:G:O2'	26:BA:2124:G:H5'	2.16	0.46
26:BA:2383:G:C2'	26:BA:2384:U:H5'	2.45	0.46
26:BA:2388:A:H5'	26:BA:2389:G:OP2	2.15	0.46
26:BA:2593:U:H2'	26:BA:2594:C:C6	2.50	0.46
26:BA:2849:U:C6	26:BA:2867:G:N2	2.83	0.46
26:BA:2881:U:H2'	26:BA:2882:A:O5'	2.15	0.46
33:BI:18:ASN:ND2	33:BI:27:LEU:CD1	2.78	0.46
37:BM:69:PRO:O	37:BM:70:ASP:OD2	2.33	0.46
40:BP:64:SER:OG	40:BP:65:ASN:ND2	2.49	0.46
41:BQ:105:PHE:CE1	41:BQ:109:VAL:CG2	2.98	0.46
44:BT:35:ALA:HB1	44:BT:37:ASP:OD1	2.15	0.46
45:BU:37:GLY:O	45:BU:38:ILE:HD13	2.15	0.46
45:BU:86:PHE:CE1	45:BU:91:LYS:HB2	2.51	0.46
49:BY:9:LYS:O	49:BY:13:GLU:HB2	2.14	0.46
52:B1:33:LEU:H	52:B1:51:ALA:CB	2.25	0.46
56:BB:36:C:H5"	56:BB:37:C:OP2	2.15	0.46
1:AA:17:U:O2'	1:AA:1078:U:O2	2.28	0.46
1:AA:68:G:C5	1:AA:69:G:H1'	2.50	0.46
1:AA:103:U:O2'	1:AA:104:G:H5'	2.14	0.46
1:AA:258:G:C2	1:AA:259:G:H1'	2.50	0.46
1:AA:439:U:C4	1:AA:440:C:C5	3.04	0.46
1:AA:456:A:N6	1:AA:457:G:C6	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:470:C:N3	1:AA:471:U:C4	2.84	0.46
1:AA:540:G:O2'	1:AA:541:G:H5'	2.14	0.46
1:AA:579:A:H2'	1:AA:580:C:C6	2.51	0.46
1:AA:643:C:H6	1:AA:643:C:O5'	1.98	0.46
1:AA:659:U:O2'	1:AA:660:C:H5'	2.16	0.46
1:AA:714:G:O2'	1:AA:715:A:H5'	2.14	0.46
1:AA:748:G:C4	1:AA:749:A:C8	3.03	0.46
1:AA:812:G:OP1	1:AA:903:G:H1'	2.15	0.46
1:AA:977:A:O2'	1:AA:979:C:OP2	2.32	0.46
1:AA:1202:U:H1'	14:AN:69:ARG:HD2	1.97	0.46
1:AA:1338:G:C6	1:AA:1339:A:N1	2.83	0.46
2:AB:142:LYS:O	2:AB:145:ASN:OD1	2.32	0.46
2:AB:206:ILE:CG1	2:AB:207:ARG:N	2.78	0.46
4:AD:52:VAL:HG23	4:AD:53:GLN:N	2.30	0.46
4:AD:154:VAL:O	4:AD:157:ALA:HB3	2.15	0.46
5:AE:40:ASP:OD1	5:AE:42:ASN:N	2.49	0.46
6:AF:74:LEU:HD23	6:AF:78:PHE:CZ	2.51	0.46
7:AG:145:GLU:HA	7:AG:148:LYS:HE2	1.96	0.46
9:AI:38:PHE:CE1	9:AI:75:ALA:HB2	2.50	0.46
9:AI:48:ARG:C	9:AI:50:PRO:HD2	2.40	0.46
12:AL:1:ALA:HB3	12:AL:5:GLN:OE1	2.16	0.46
13:AM:53:ASP:HA	13:AM:56:ARG:HE	1.79	0.46
22:AV:31:G:N7	22:AV:34:A:H8	2.07	0.46
22:AV:171:A:C4	22:AV:172:U:C5	3.04	0.46
22:AV:218:G:C2'	22:AV:219:G:C5'	2.84	0.46
23:AW:38:LYS:HG2	26:BA:1911:U:OP2	1.90	0.46
25:AY:74:TRP:NE1	25:AY:273:LEU:HB3	2.30	0.46
25:AY:124:GLN:O	25:AY:127:LYS:HB3	2.16	0.46
25:AY:181:LEU:HD11	25:AY:242:LEU:HD22	1.97	0.46
25:AY:228:MET:HE3	25:AY:229:LEU:CD2	2.45	0.46
25:AY:302:HIS:HA	25:AY:303:PRO:HD2	1.74	0.46
25:AY:346:LYS:HE2	25:AY:384:ILE:HG12	1.97	0.46
25:AY:465:ARG:O	25:AY:470:PHE:HD2	1.99	0.46
25:AY:491:VAL:CG1	25:AY:596:LYS:HD3	2.44	0.46
25:AY:636:PRO:HG2	33:BI:23:VAL:CA	2.45	0.46
26:BA:196:A:H2'	26:BA:196:A:N3	2.31	0.46
26:BA:449:A:C2'	26:BA:450:G:H5'	2.44	0.46
26:BA:847:U:O2	26:BA:934:U:H1'	2.16	0.46
26:BA:903:C:C2	26:BA:904:G:H8	2.28	0.46
26:BA:1085:A:C5	26:BA:1086:A:C6	3.04	0.46
26:BA:1889:A:C2'	26:BA:1890:A:O5'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1919:A:H5”	26:BA:1920:C:OP2	2.15	0.46
26:BA:2199:A:C8	26:BA:2200:C:C5	3.02	0.46
26:BA:2516:A:C2	26:BA:2569:G:N3	2.83	0.46
27:BC:16:VAL:HG23	27:BC:203:VAL:HG22	1.97	0.46
27:BC:96:LYS:HA	27:BC:96:LYS:CE	2.45	0.46
30:BF:35:LEU:HD11	30:BF:98:PHE:CZ	2.50	0.46
33:BI:100:ILE:HG22	33:BI:104:GLN:CB	2.46	0.46
40:BP:103:THR:O	40:BP:105:LYS:N	2.48	0.46
43:BS:20:VAL:HG11	43:BS:44:ALA:HA	1.96	0.46
44:BT:30:ILE:HG12	44:BT:31:VAL:N	2.31	0.46
1:AA:47:C:H4’	1:AA:48:C:O5’	2.15	0.46
1:AA:189:A:C5	1:AA:190:A:C2	3.04	0.46
1:AA:451:A:N7	1:AA:481:G:C6	2.83	0.46
1:AA:620:C:H1’	4:AD:131:ILE:HD13	1.97	0.46
1:AA:636:U:H2’	1:AA:637:C:H6	1.77	0.46
1:AA:687:A:C8	1:AA:701:U:C4	3.04	0.46
1:AA:987:G:C2’	1:AA:988:G:H5’	2.45	0.46
1:AA:1071:C:N3	1:AA:1105:A:C2	2.83	0.46
1:AA:1124:G:C2	1:AA:1150:A:C2	3.03	0.46
1:AA:1285:A:H4’	1:AA:1286:U:C4	2.50	0.46
1:AA:1317:C:H2’	1:AA:1318:A:O5’	2.16	0.46
1:AA:1356:G:N2	1:AA:1357:A:C4	2.83	0.46
1:AA:1367:C:C2	1:AA:1368:A:C8	3.03	0.46
2:AB:9:LEU:HG	2:AB:11:ALA:N	2.30	0.46
2:AB:14:HIS:HB2	2:AB:202:ASN:HB3	1.97	0.46
2:AB:117:GLU:HA	2:AB:120:SER:HB2	1.96	0.46
2:AB:136:ARG:O	2:AB:139:GLU:CB	2.60	0.46
3:AC:156:LEU:C	3:AC:158:GLY:H	2.24	0.46
4:AD:54:LEU:HD23	4:AD:55:ARG:CA	2.46	0.46
4:AD:54:LEU:CD2	4:AD:58:GLN:HB2	2.46	0.46
9:AI:16:ALA:HA	9:AI:65:THR:O	2.15	0.46
9:AI:27:ILE:CG1	9:AI:62:LEU:HD21	2.45	0.46
11:AK:73:VAL:O	11:AK:75:GLU:N	2.48	0.46
11:AK:124:LYS:HE3	21:AU:34:ARG:NH2	2.31	0.46
13:AM:2:ARG:O	13:AM:7:ASN:O	2.34	0.46
17:AQ:48:GLU:O	17:AQ:49:ASN:C	2.58	0.46
20:AT:34:VAL:O	20:AT:35:TYR:C	2.56	0.46
22:AV:21:C:C2’	22:AV:22:G:O5’	2.64	0.46
22:AV:28:U:C2’	22:AV:29:G:H8	2.05	0.46
22:AV:63:C:C2	22:AV:73:A:C5	3.03	0.46
22:AV:257:U:O4	22:AV:273:A:C4	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:328:U:H2'	22:AV:329:U:C6	2.50	0.46
22:AV:331:C:H2'	22:AV:332:G:H8	1.79	0.46
22:AV:362:C:OP1	26:BA:2602:A:O5'	2.33	0.46
24:AX:15:G:C5'	24:AX:16:C:H5'	2.46	0.46
25:AY:88:VAL:O	25:AY:90:PHE:N	2.49	0.46
25:AY:168:ILE:HG22	25:AY:175:SER:OG	2.16	0.46
25:AY:446:THR:O	25:AY:446:THR:HG23	2.16	0.46
25:AY:455:GLY:O	25:AY:456:GLU:C	2.59	0.46
25:AY:528:ALA:O	25:AY:568:TYR:HA	2.14	0.46
25:AY:539:ILE:HA	25:AY:542:VAL:CG1	2.44	0.46
26:BA:362:A:C8	26:BA:362:A:OP2	2.69	0.46
26:BA:666:A:H2'	26:BA:667:U:H6	1.79	0.46
26:BA:883:G:C2	26:BA:884:U:N3	2.84	0.46
26:BA:1004:U:C2'	26:BA:1005:C:OP2	2.63	0.46
26:BA:1060:U:O4'	26:BA:1062:G:OP2	2.34	0.46
26:BA:1297:C:O2'	26:BA:1302:A:N1	2.46	0.46
26:BA:1475:G:HO2'	26:BA:1476:U:P	2.37	0.46
26:BA:1731:G:C2	26:BA:1733:G:C4	3.03	0.46
26:BA:1853:A:C5	26:BA:1889:A:C6	3.03	0.46
26:BA:1857:G:H1'	26:BA:1884:G:N2	2.29	0.46
26:BA:2063:C:O2	26:BA:2450:A:N1	2.48	0.46
26:BA:2171:A:H3'	26:BA:2173:A:C8	2.51	0.46
26:BA:2592:G:C5	26:BA:2593:U:C4	3.03	0.46
26:BA:2831:G:OP1	28:BD:56:LYS:HE2	2.15	0.46
27:BC:74:PRO:HB2	27:BC:96:LYS:HD3	1.97	0.46
27:BC:105:ALA:O	27:BC:195:GLY:CA	2.63	0.46
27:BC:110:LYS:HE2	27:BC:113:ASP:CG	2.41	0.46
29:BE:145:ASP:HA	29:BE:166:LYS:O	2.14	0.46
29:BE:145:ASP:HB3	29:BE:184:ASP:CG	2.40	0.46
30:BF:142:TYR:HD1	30:BF:145:VAL:HG11	1.79	0.46
32:BH:135:HIS:HB3	32:BH:138:VAL:HB	1.96	0.46
33:BI:95:ASP:CG	33:BI:97:VAL:H	2.23	0.46
33:BI:102:ARG:HB3	33:BI:141:ASP:O	2.15	0.46
33:BI:122:GLU:O	33:BI:126:ARG:HD3	2.16	0.46
35:BK:113:MET:C	35:BK:115:ILE:N	2.69	0.46
41:BQ:80:ASN:O	41:BQ:83:LYS:HB3	2.15	0.46
46:BV:4:ILE:HG12	46:BV:50:MET:SD	2.55	0.46
54:B3:36:ALA:O	54:B3:40:LYS:HG3	2.16	0.46
1:AA:22:G:C6	1:AA:23:C:C4	3.04	0.46
1:AA:373:A:C2	1:AA:482:A:N6	2.84	0.46
1:AA:374:A:C5	1:AA:375:U:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:413:G:N1	4:AD:32:LYS:HD3	2.31	0.46
1:AA:614:C:H2'	1:AA:615:G:O4'	2.16	0.46
1:AA:763:G:C4	1:AA:764:C:C6	3.03	0.46
1:AA:853:C:C2	1:AA:854:U:C6	3.03	0.46
1:AA:1204:A:C4	1:AA:1205:U:C6	3.03	0.46
1:AA:1270:G:O3'	1:AA:1314:C:H5'	2.15	0.46
2:AB:32:GLY:HA3	2:AB:39:ILE:H	1.80	0.46
2:AB:122:ASP:O	2:AB:123:GLY:C	2.59	0.46
3:AC:60:ALA:O	3:AC:62:SER:N	2.49	0.46
4:AD:29:THR:O	4:AD:30:LYS:C	2.58	0.46
4:AD:53:GLN:HE21	4:AD:202:LEU:CA	2.28	0.46
4:AD:176:LYS:HB3	4:AD:178:GLU:HG2	1.98	0.46
5:AE:56:PRO:HA	5:AE:59:ILE:HG12	1.97	0.46
6:AF:42:TRP:CD1	6:AF:42:TRP:H	2.34	0.46
7:AG:70:PRO:O	7:AG:95:ARG:HD3	2.15	0.46
11:AK:63:GLN:O	11:AK:64:VAL:C	2.58	0.46
13:AM:94:LEU:CB	13:AM:95:PRO:HD2	2.45	0.46
13:AM:105:ALA:O	13:AM:106:ARG:C	2.59	0.46
15:AO:87:ARG:O	15:AO:88:ARG:HB2	2.15	0.46
21:AU:32:ARG:HH11	21:AU:32:ARG:CG	2.28	0.46
21:AU:38:GLU:OE2	21:AU:41:THR:HG21	2.15	0.46
22:AV:19:G:C6	23:AW:23:GLY:N	2.73	0.46
22:AV:19:G:O2'	22:AV:20:A:OP1	2.33	0.46
22:AV:61:G:H1'	22:AV:62:G:C8	2.51	0.46
22:AV:130:C:C4'	22:AV:130:C:OP1	2.60	0.46
22:AV:145:C:O5'	22:AV:145:C:H6	1.98	0.46
22:AV:233:A:O2'	22:AV:234:A:OP2	2.33	0.46
22:AV:277:G:H2'	22:AV:278:G:C8	2.51	0.46
22:AV:333:G:OP2	22:AV:333:G:O3'	2.33	0.46
25:AY:117:GLN:O	25:AY:118:SER:C	2.58	0.46
25:AY:120:THR:O	25:AY:124:GLN:CD	2.59	0.46
25:AY:219:VAL:C	25:AY:221:ALA:N	2.72	0.46
25:AY:420:ASP:C	25:AY:422:GLU:N	2.72	0.46
26:BA:39:G:H1'	29:BE:43:THR:HG21	1.97	0.46
26:BA:128:C:H2'	26:BA:129:C:H6	1.80	0.46
26:BA:483:A:O2'	45:BU:56:GLY:HA2	2.15	0.46
26:BA:881:G:N3	26:BA:882:G:C8	2.84	0.46
26:BA:887:U:C2	26:BA:888:C:C6	3.04	0.46
26:BA:1372:U:H5'	26:BA:1372:U:H6	1.81	0.46
26:BA:1413:A:C2	26:BA:1414:C:O2	2.68	0.46
26:BA:1433:A:H2'	26:BA:1434:A:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1800:C:H3'	27:BC:145:MET:HE1	1.97	0.46
26:BA:1904:G:H1'	26:BA:1927:A:N1	2.31	0.46
26:BA:1917:U:C4	26:BA:1918:A:N7	2.83	0.46
26:BA:2180:U:H3'	26:BA:2181:U:C6	2.51	0.46
26:BA:2229:U:H2'	26:BA:2230:G:C8	2.51	0.46
26:BA:2656:U:C5	26:BA:2664:G:N2	2.83	0.46
27:BC:158:GLY:H	27:BC:194:VAL:HG13	1.79	0.46
27:BC:259:ASN:OD1	27:BC:262:THR:HG23	2.15	0.46
29:BE:119:ILE:N	29:BE:119:ILE:HD13	2.30	0.46
30:BF:40:GLY:HA2	30:BF:84:ILE:HD12	1.97	0.46
51:B0:29:VAL:HG12	51:B0:34:GLY:HA2	1.97	0.46
52:B1:33:LEU:HB3	52:B1:51:ALA:HB2	1.96	0.46
56:BB:39:A:C2	56:BB:44:G:N3	2.84	0.46
1:AA:159:G:C5'	1:AA:159:G:C8	2.97	0.46
1:AA:176:C:H5"	20:AT:23:ARG:NH1	2.31	0.46
1:AA:218:U:C2'	1:AA:219:U:H5'	2.46	0.46
1:AA:410:G:H5"	1:AA:411:A:P	2.56	0.46
1:AA:499:A:H61	1:AA:547:A:C5'	2.28	0.46
1:AA:513:C:O2'	1:AA:514:C:H5'	2.16	0.46
1:AA:702:A:N7	26:BA:1847:A:OP1	2.48	0.46
1:AA:726:C:O2'	1:AA:727:G:H5'	2.16	0.46
1:AA:1098:C:C1'	1:AA:1169:A:N3	2.76	0.46
1:AA:1413:A:C4	1:AA:1414:U:C5	3.03	0.46
1:AA:1499:A:C2	1:AA:1500:A:C8	3.04	0.46
3:AC:35:ASP:O	3:AC:38:VAL:HG22	2.16	0.46
3:AC:41:TYR:CE1	3:AC:42:LEU:HD12	2.50	0.46
5:AE:66:ALA:O	5:AE:67:ARG:C	2.58	0.46
7:AG:101:ARG:O	7:AG:102:TRP:C	2.58	0.46
8:AH:82:LEU:HD22	8:AH:83:ARG:N	2.31	0.46
13:AM:40:GLU:CG	13:AM:41:ASP:H	2.28	0.46
13:AM:68:LEU:O	13:AM:72:ILE:HG13	2.14	0.46
14:AN:17:ASP:C	14:AN:19:TYR:N	2.71	0.46
16:AP:67:ILE:O	16:AP:67:ILE:CG2	2.63	0.46
17:AQ:13:SER:CB	17:AQ:21:VAL:HG11	2.45	0.46
17:AQ:17:GLU:O	17:AQ:18:LYS:HB2	2.15	0.46
17:AQ:47:ASP:O	17:AQ:48:GLU:C	2.56	0.46
19:AS:50:VAL:HG22	19:AS:70:LEU:HD13	1.92	0.46
20:AT:26:MET:HE3	20:AT:56:ILE:HD13	1.96	0.46
21:AU:38:GLU:HA	21:AU:40:PRO:HD2	1.96	0.46
22:AV:117:G:C2	22:AV:118:C:C5	3.03	0.46
22:AV:329:U:H2'	22:AV:330:U:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:34:LEU:O	23:AW:36:ALA:N	2.49	0.46
25:AY:71:THR:HA	25:AY:79:ILE:O	2.16	0.46
25:AY:139:MET:HG3	25:AY:260:LEU:HB2	1.97	0.46
25:AY:203:GLU:OE2	25:AY:203:GLU:HA	2.16	0.46
25:AY:219:VAL:C	25:AY:221:ALA:H	2.24	0.46
25:AY:237:PRO:HB2	25:AY:242:LEU:HG	1.97	0.46
25:AY:541:ALA:HB2	25:AY:579:GLU:HG3	1.96	0.46
26:BA:371:A:N6	26:BA:402:A:OP2	2.48	0.46
26:BA:536:G:H2'	26:BA:537:G:O5'	2.16	0.46
26:BA:547:A:H8	26:BA:548:G:N3	2.13	0.46
26:BA:586:A:C2	26:BA:1254:A:C2	3.04	0.46
26:BA:911:A:C2	26:BA:2277:G:N3	2.83	0.46
26:BA:1408:G:O2'	26:BA:1409:U:H5'	2.16	0.46
26:BA:1486:U:C2'	26:BA:1487:U:H5'	2.45	0.46
26:BA:1671:U:O5'	26:BA:1671:U:H6	1.98	0.46
26:BA:1776:G:H2'	26:BA:1776:G:N3	2.29	0.46
26:BA:1894:C:H2'	26:BA:1895:C:H6	1.79	0.46
26:BA:2111:U:O2	26:BA:2118:U:O2	2.33	0.46
26:BA:2124:G:H2'	26:BA:2125:G:C5'	2.46	0.46
26:BA:2534:A:C2'	26:BA:2535:G:O5'	2.63	0.46
28:BD:136:ASN:ND2	28:BD:140:HIS:CD2	2.83	0.46
31:BG:71:LEU:N	31:BG:71:LEU:CD1	2.78	0.46
33:BI:115:ASP:O	33:BI:116:MET:CG	2.63	0.46
36:BL:81:ASP:C	36:BL:83:ALA:N	2.72	0.46
36:BL:132:ARG:NH1	36:BL:142:ILE:HG21	2.31	0.46
36:BL:143:GLU:O	36:BL:143:GLU:HG3	2.15	0.46
37:BM:24:THR:HG22	37:BM:25:ASP:OD1	2.15	0.46
37:BM:105:MET:HE3	37:BM:117:PHE:CE1	2.50	0.46
40:BP:102:ARG:HD3	40:BP:106:ALA:O	2.15	0.46
41:BQ:26:ALA:O	41:BQ:28:SER:N	2.48	0.46
41:BQ:63:ARG:O	41:BQ:64:ILE:C	2.58	0.46
41:BQ:107:ALA:CB	42:BR:48:LYS:HZ2	2.29	0.46
45:BU:80:ASP:OD1	45:BU:80:ASP:C	2.59	0.46
49:BY:9:LYS:HB3	49:BY:12:GLU:CG	2.45	0.46
52:B1:9:LYS:C	52:B1:10:LEU:HD23	2.41	0.46
54:B3:1:PRO:O	54:B3:2:LYS:C	2.59	0.46
55:B4:3:VAL:O	55:B4:4:ARG:HB3	2.16	0.46
1:AA:198:G:H2'	1:AA:199:A:H8	1.79	0.46
1:AA:435:A:C6	1:AA:436:C:C5	3.04	0.46
1:AA:619:U:H3	4:AD:130:ASN:ND2	2.14	0.46
1:AA:748:G:H2'	1:AA:749:A:H8	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:841:C:C6	1:AA:843:U:OP2	2.69	0.46
1:AA:864:A:OP1	1:AA:864:A:H8	1.98	0.46
1:AA:1082:A:H2'	1:AA:1083:U:O4'	2.16	0.46
2:AB:27:LYS:N	2:AB:28:PRO:HD3	2.30	0.46
2:AB:84:LEU:HG	2:AB:85:SER:CA	2.44	0.46
3:AC:68:HIS:HA	3:AC:103:ALA:O	2.15	0.46
4:AD:197:HIS:O	4:AD:201:GLU:HG3	2.16	0.46
5:AE:55:VAL:HB	5:AE:56:PRO:HD3	1.98	0.46
7:AG:39:GLU:C	7:AG:41:ILE:N	2.72	0.46
9:AI:98:ARG:HD3	9:AI:103:VAL:HG21	1.97	0.46
10:AJ:92:LEU:O	10:AJ:93:ALA:HB3	2.15	0.46
12:AL:54:VAL:HG21	12:AL:79:ILE:HD11	1.98	0.46
13:AM:70:ARG:HD2	13:AM:70:ARG:O	2.15	0.46
21:AU:28:LEU:O	21:AU:28:LEU:CD2	2.63	0.46
22:AV:55:G:O6	22:AV:56:C:N4	2.48	0.46
22:AV:117:G:H2'	22:AV:118:C:C6	2.48	0.46
22:AV:184:A:O3'	22:AV:185:A:O4'	2.33	0.46
22:AV:205:G:O2'	22:AV:206:A:OP1	2.30	0.46
22:AV:263:G:H8	22:AV:308:U:C5	2.23	0.46
25:AY:70:THR:O	25:AY:80:ASN:HA	2.15	0.46
25:AY:154:GLN:CA	25:AY:158:GLY:HA2	2.43	0.46
25:AY:229:LEU:C	25:AY:231:TYR:N	2.73	0.46
25:AY:277:VAL:HG13	25:AY:278:ASP:H	1.79	0.46
25:AY:456:GLU:O	25:AY:457:LEU:C	2.58	0.46
25:AY:553:GLY:H	25:AY:557:GLY:C	2.23	0.46
25:AY:689:LYS:CG	25:AY:690:GLY:N	2.78	0.46
26:BA:205:G:O2'	26:BA:206:U:P	2.74	0.46
26:BA:551:G:H2'	26:BA:552:U:O4'	2.15	0.46
26:BA:682:G:H5'	53:B2:26:ASN:CG	2.40	0.46
26:BA:1096:A:C5	26:BA:1097:U:C5	3.04	0.46
26:BA:1291:C:H2'	26:BA:1292:G:H5'	1.98	0.46
26:BA:1748:C:H2'	26:BA:1749:A:O4'	2.16	0.46
26:BA:2092:U:C5'	26:BA:2093:G:OP1	2.62	0.46
26:BA:2127:G:C2	26:BA:2161:C:O2	2.68	0.46
26:BA:2332:C:H2'	26:BA:2335:A:N3	2.31	0.46
27:BC:161:VAL:HG11	27:BC:173:LEU:HB3	1.94	0.46
29:BE:84:THR:HG22	29:BE:85:PHE:CD2	2.50	0.46
30:BF:16:MET:HE3	30:BF:16:MET:O	2.16	0.46
30:BF:28:PRO:O	30:BF:29:ARG:HG2	2.16	0.46
31:BG:9:VAL:O	31:BG:9:VAL:CG1	2.63	0.46
33:BI:20:SER:N	33:BI:21:PRO:CD	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:24:GLY:O	33:BI:34:ILE:HG23	2.15	0.46
33:BI:101:SER:HB3	33:BI:104:GLN:HG3	1.96	0.46
34:BJ:61:LYS:O	34:BJ:62:VAL:C	2.58	0.46
34:BJ:96:ARG:NH2	34:BJ:99:ARG:HD3	2.30	0.46
35:BK:104:THR:HB	35:BK:106:GLU:OE1	2.15	0.46
38:BN:55:ALA:HB1	38:BN:80:PHE:H	1.81	0.46
42:BR:54:VAL:O	42:BR:55:ASP:O	2.33	0.46
43:BS:109:ASP:O	43:BS:110:ARG:O	2.34	0.46
47:BW:43:ALA:HB1	47:BW:47:VAL:O	2.15	0.46
49:BY:17:GLU:HG3	49:BY:18:LEU:N	2.30	0.46
55:B4:2:LYS:HB2	55:B4:2:LYS:NZ	2.31	0.46
55:B4:36:ARG:CG	55:B4:37:GLN:N	2.77	0.46
1:AA:15:G:H4'	5:AE:28:ARG:NH1	2.31	0.46
1:AA:75:G:H5'	1:AA:76:G:OP2	2.15	0.46
1:AA:97:G:C2'	1:AA:98:A:O5'	2.63	0.46
1:AA:142:G:N3	1:AA:143:A:C8	2.83	0.46
1:AA:142:G:C6	1:AA:143:A:C5	3.03	0.46
1:AA:189:A:O2'	1:AA:190:A:H5'	2.16	0.46
1:AA:191:G:C2'	1:AA:192:A:H5'	2.45	0.46
1:AA:345:C:OP1	40:BP:36:LYS:HG3	2.16	0.46
1:AA:457:G:C6	1:AA:458:U:C4	3.04	0.46
1:AA:625:U:O2'	1:AA:626:G:C5'	2.64	0.46
1:AA:1013:G:H3'	1:AA:1013:G:C8	2.51	0.46
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.15	0.46
1:AA:1534:A:C2	1:AA:1535:C:O2	2.67	0.46
2:AB:95:TRP:CZ3	2:AB:97:GLY:HA2	2.51	0.46
2:AB:196:ASP:OD1	2:AB:196:ASP:N	2.49	0.46
3:AC:54:ILE:O	3:AC:54:ILE:HG13	2.15	0.46
3:AC:84:GLU:O	3:AC:86:LEU:N	2.49	0.46
4:AD:34:GLU:C	4:AD:34:GLU:CD	2.84	0.46
5:AE:125:LYS:HG3	5:AE:126:ALA:N	2.29	0.46
6:AF:90:MET:O	6:AF:91:ARG:O	2.34	0.46
8:AH:23:ALA:HA	8:AH:60:LEU:O	2.16	0.46
8:AH:101:ALA:O	8:AH:102:VAL:C	2.59	0.46
9:AI:66:VAL:HG21	9:AI:74:GLN:HB3	1.98	0.46
10:AJ:19:ASP:O	10:AJ:23:ALA:HB2	2.14	0.46
11:AK:39:ASN:O	11:AK:40:ALA:CB	2.59	0.46
11:AK:106:ILE:HD13	11:AK:106:ILE:C	2.41	0.46
14:AN:7:ALA:HA	14:AN:10:VAL:CG2	2.46	0.46
14:AN:20:PHE:C	14:AN:22:LYS:N	2.66	0.46
14:AN:50:THR:H	14:AN:51:LEU:HD23	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:5:GLU:HG2	15:AO:6:ALA:N	2.29	0.46
16:AP:72:ALA:HA	16:AP:75:ILE:HD12	1.96	0.46
19:AS:13:HIS:O	19:AS:17:LYS:HG3	2.15	0.46
19:AS:43:MET:CE	19:AS:48:ILE:HG12	2.45	0.46
21:AU:33:ARG:HH22	21:AU:34:ARG:HD2	1.81	0.46
22:AV:11:C:O2	22:AV:11:C:O4'	2.32	0.46
22:AV:16:U:HO2'	22:AV:17:U:P	2.39	0.46
22:AV:17:U:O2	22:AV:334:A:N1	2.49	0.46
22:AV:23:G:H2'	22:AV:24:G:H8	1.81	0.46
22:AV:75:C:H2'	22:AV:76:C:C6	2.50	0.46
22:AV:207:A:C5	22:AV:208:G:N7	2.83	0.46
22:AV:231:A:O2'	22:AV:232:A:O4'	2.30	0.46
22:AV:266:C:C6	22:AV:267:G:C8	2.98	0.46
22:AV:313:C:O2'	22:AV:314:C:C5'	2.52	0.46
22:AV:320:U:C2'	22:AV:321:G:OP1	2.63	0.46
24:AX:29:C:H42	24:AX:43:G:H1	1.63	0.46
25:AY:76:ASP:O	25:AY:77:HIS:CG	2.68	0.46
25:AY:100:VAL:HG13	25:AY:101:LEU:H	1.81	0.46
25:AY:121:VAL:HA	25:AY:124:GLN:NE2	2.31	0.46
25:AY:170:ARG:NH2	25:AY:205:TYR:HE1	2.13	0.46
25:AY:223:PHE:CZ	25:AY:249:GLY:HA3	2.51	0.46
25:AY:432:ALA:HA	25:AY:438:PHE:CZ	2.50	0.46
25:AY:562:ASP:O	25:AY:563:ILE:HG23	2.15	0.46
26:BA:277:G:C2'	26:BA:361:G:O6	2.64	0.46
26:BA:547:A:C8	26:BA:548:G:C1'	2.99	0.46
26:BA:777:G:O2'	26:BA:778:G:H5'	2.15	0.46
26:BA:807:U:H1'	26:BA:2445:G:OP1	2.16	0.46
26:BA:846:U:O2'	26:BA:847:U:C6	2.66	0.46
26:BA:875:G:N1	26:BA:876:C:N4	2.64	0.46
26:BA:900:A:N3	26:BA:901:C:C5	2.83	0.46
26:BA:1287:A:H3'	26:BA:1288:G:N2	2.30	0.46
26:BA:1358:G:C2'	26:BA:1359:A:OP2	2.64	0.46
26:BA:1417:C:O2'	26:BA:1587:G:C2'	2.64	0.46
26:BA:1866:A:C2	26:BA:1876:A:C5	3.03	0.46
26:BA:2039:U:H2'	26:BA:2040:G:C8	2.51	0.46
26:BA:2162:G:O2'	26:BA:2163:A:N7	2.47	0.46
26:BA:2571:U:C2'	26:BA:2572:A:OP1	2.64	0.46
26:BA:2585:U:O2'	26:BA:2586:U:H5'	2.16	0.46
27:BC:17:LYS:HA	27:BC:17:LYS:CE	2.44	0.46
27:BC:83:ASP:OD1	27:BC:84:PRO:N	2.49	0.46
30:BF:108:PRO:C	30:BF:110:ILE:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:72:ILE:HD11	32:BH:132:PHE:CD2	2.51	0.46
33:BI:27:LEU:HD11	33:BI:34:ILE:HA	1.96	0.46
33:BI:33:ASN:HB3	33:BI:36:GLU:CB	2.45	0.46
33:BI:72:THR:HB	33:BI:73:PRO:HD2	1.98	0.46
34:BJ:77:HIS:HD2	34:BJ:79:GLY:HA2	1.80	0.46
41:BQ:23:TYR:HB3	41:BQ:27:ARG:HB3	1.96	0.46
52:B1:50:GLU:OE2	52:B1:52:LYS:HD3	2.15	0.46
1:AA:91:U:H2'	1:AA:92:U:C1'	2.46	0.46
1:AA:147:G:H2'	1:AA:148:G:H8	1.77	0.46
1:AA:201:G:O2'	1:AA:469:C:O2'	2.34	0.46
1:AA:374:A:C4	1:AA:375:U:C5	3.03	0.46
1:AA:501:C:O2'	1:AA:502:A:H5'	2.15	0.46
1:AA:503:C:O2'	1:AA:504:C:H5'	2.16	0.46
1:AA:511:C:C2	1:AA:512:U:C6	3.04	0.46
1:AA:525:C:C4	1:AA:526:C:N4	2.84	0.46
1:AA:599:C:O2	1:AA:640:A:C2	2.68	0.46
1:AA:610:U:H2'	1:AA:611:C:C6	2.51	0.46
1:AA:610:U:H2'	1:AA:611:C:H6	1.79	0.46
1:AA:767:A:H2'	1:AA:768:A:O4'	2.16	0.46
1:AA:794:A:C6	1:AA:795:C:N4	2.84	0.46
1:AA:939:G:C2	1:AA:940:C:N3	2.84	0.46
1:AA:945:G:N1	1:AA:1337:G:C2	2.84	0.46
1:AA:1061:G:C6	1:AA:1197:A:C2	3.03	0.46
1:AA:1149:C:O5'	1:AA:1149:C:H6	1.98	0.46
1:AA:1269:A:N1	1:AA:1312:G:O2'	2.41	0.46
1:AA:1285:A:C5'	1:AA:1286:U:C4	2.98	0.46
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.15	0.46
1:AA:1485:U:H2'	1:AA:1486:G:H8	1.80	0.46
1:AA:1538:C:O2'	1:AA:1539:C:C5'	2.55	0.46
2:AB:27:LYS:N	2:AB:28:PRO:CD	2.78	0.46
3:AC:28:PHE:C	3:AC:28:PHE:HD2	2.23	0.46
3:AC:134:LYS:O	3:AC:135:ARG:C	2.57	0.46
4:AD:77:GLU:O	4:AD:80:ARG:N	2.49	0.46
4:AD:130:ASN:O	4:AD:130:ASN:CG	2.59	0.46
4:AD:167:PRO:HB2	4:AD:170:LEU:CD1	2.46	0.46
5:AE:80:LEU:CA	5:AE:146:MET:HE1	2.44	0.46
6:AF:20:GLY:O	6:AF:21:MET:C	2.57	0.46
6:AF:67:PRO:O	6:AF:69:GLU:N	2.48	0.46
8:AH:5:PRO:O	8:AH:8:ASP:CB	2.64	0.46
10:AJ:40:ILE:CB	10:AJ:73:LEU:HB2	2.46	0.46
13:AM:75:SER:O	13:AM:79:LEU:HD12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:44:HIS:ND1	17:AQ:69:THR:HG21	2.30	0.46
22:AV:15:A:C2	22:AV:346:C:H5	2.33	0.46
22:AV:76:C:H2'	22:AV:77:G:H8	1.81	0.46
22:AV:163:G:N1	22:AV:164:G:C5	2.84	0.46
22:AV:208:G:C4	22:AV:209:C:C5	3.03	0.46
22:AV:327:A:H2'	22:AV:328:U:C6	2.50	0.46
25:AY:5:VAL:O	25:AY:7:TYR:N	2.49	0.46
25:AY:238:THR:C	25:AY:240:GLU:N	2.74	0.46
25:AY:251:ILE:HG22	25:AY:251:ILE:O	2.14	0.46
25:AY:555:LEU:CD1	25:AY:599:PRO:HB2	2.43	0.46
26:BA:138:U:OP2	26:BA:139:U:H5"	2.16	0.46
26:BA:158:U:C2'	26:BA:159:G:H5'	2.46	0.46
26:BA:188:G:H2'	26:BA:189:G:C5'	2.46	0.46
26:BA:225:C:H2'	26:BA:226:A:H5'	1.98	0.46
26:BA:785:G:H2'	26:BA:786:C:C6	2.51	0.46
26:BA:1088:A:N3	26:BA:1088:A:H5"	2.31	0.46
26:BA:1140:C:H5'	34:BJ:26:GLY:HA3	1.97	0.46
26:BA:1244:A:OP1	36:BL:7:SER:HB2	2.16	0.46
26:BA:1291:C:O2'	26:BA:1292:G:H5'	2.15	0.46
26:BA:1445:G:C2	26:BA:1446:C:C2	3.03	0.46
26:BA:1533:C:N4	26:BA:1534:U:C4	2.83	0.46
26:BA:1607:C:H4'	26:BA:1608:A:C8	2.50	0.46
26:BA:1735:A:C4	26:BA:1736:U:C5	3.04	0.46
26:BA:1897:G:C6	26:BA:1898:U:N3	2.83	0.46
26:BA:2102:G:H3'	26:BA:2103:C:H6	1.80	0.46
26:BA:2157:G:O2'	26:BA:2158:A:O5'	2.24	0.46
26:BA:2258:C:O2'	26:BA:2426:A:H5"	2.16	0.46
26:BA:2313:C:H2'	26:BA:2314:A:H5'	1.97	0.46
26:BA:2393:U:O3'	36:BL:62:PRO:HA	2.15	0.46
26:BA:2887:A:H5'	26:BA:2888:C:OP2	2.15	0.46
28:BD:62:LYS:N	28:BD:63:PRO:CD	2.79	0.46
32:BH:29:PHE:CD2	32:BH:30:LEU:HD23	2.50	0.46
32:BH:111:ALA:C	32:BH:113:SER:H	2.22	0.46
33:BI:50:LYS:N	33:BI:50:LYS:HD3	2.31	0.46
35:BK:104:THR:O	35:BK:107:LEU:HD12	2.15	0.46
38:BN:58:ASP:C	38:BN:58:ASP:OD2	2.58	0.46
39:BO:14:ALA:O	39:BO:18:LEU:CD2	2.64	0.46
39:BO:27:VAL:HG23	39:BO:38:GLN:HG3	1.97	0.46
42:BR:79:ARG:O	42:BR:80:ARG:HB3	2.16	0.46
46:BV:18:ARG:HG3	46:BV:18:ARG:HH11	1.80	0.46
47:BW:17:LEU:HD23	47:BW:35:ARG:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B3:16:THR:CG2	54:B3:20:GLY:C	2.89	0.46
55:B4:3:VAL:CG1	55:B4:36:ARG:HB3	2.45	0.46
56:BB:54:G:C5	56:BB:55:U:C5	3.03	0.46
1:AA:92:U:H2'	1:AA:93:U:C6	2.50	0.46
1:AA:276:G:C5	1:AA:277:C:H5	2.33	0.46
1:AA:322:C:O2	1:AA:332:G:N2	2.49	0.46
1:AA:632:U:C2'	1:AA:633:G:OP1	2.64	0.46
1:AA:739:C:C5	1:AA:740:U:C5	3.03	0.46
1:AA:833:G:H2'	1:AA:834:U:O4'	2.15	0.46
1:AA:957:U:H1'	1:AA:960:U:N3	2.31	0.46
1:AA:1021:A:H2'	1:AA:1022:A:O4'	2.15	0.46
1:AA:1057:G:H2'	1:AA:1058:G:C5'	2.46	0.46
1:AA:1129:C:C5'	9:AI:17:ARG:HH12	2.29	0.46
1:AA:1152:A:OP1	10:AJ:15:HIS:HB2	2.16	0.46
1:AA:1317:C:C4	14:AN:53:ARG:HD2	2.51	0.46
1:AA:1340:A:C1'	24:AX:33:C:OP1	2.63	0.46
4:AD:172:VAL:HG22	4:AD:173:ASP:N	2.31	0.46
5:AE:31:SER:C	5:AE:32:PHE:CD2	2.94	0.46
5:AE:79:THR:HG23	5:AE:80:LEU:O	2.16	0.46
7:AG:73:GLU:HA	7:AG:140:VAL:CG1	2.46	0.46
8:AH:77:VAL:HG11	8:AH:124:ILE:CG1	2.46	0.46
9:AI:100:ALA:O	9:AI:102:PHE:CD1	2.69	0.46
10:AJ:6:ILE:HD12	10:AJ:6:ILE:H	1.81	0.46
10:AJ:40:ILE:HG13	10:AJ:41:PRO:HD2	1.98	0.46
10:AJ:59:LYS:C	10:AJ:59:LYS:CD	2.82	0.46
13:AM:32:ILE:HD13	13:AM:58:GLU:HG3	1.97	0.46
15:AO:24:THR:O	15:AO:25:GLU:C	2.58	0.46
17:AQ:47:ASP:O	17:AQ:48:GLU:O	2.33	0.46
22:AV:19:G:H21	23:AW:81:LEU:CG	2.29	0.46
22:AV:29:G:H2'	22:AV:30:C:H5'	1.96	0.46
22:AV:108:G:H2'	22:AV:109:C:C6	2.50	0.46
22:AV:125:A:N7	22:AV:126:C:N3	2.63	0.46
22:AV:210:C:N1	22:AV:240:U:O4	2.45	0.46
22:AV:296:U:O2	22:AV:297:G:C5	2.68	0.46
22:AV:334:A:C5'	22:AV:335:C:N4	2.26	0.46
24:AX:49:C:OP1	24:AX:49:C:C6	2.62	0.46
26:BA:60:G:O2'	26:BA:61:C:P	2.73	0.46
26:BA:164:C:C2'	26:BA:165:A:H5'	2.46	0.46
26:BA:198:C:H6	26:BA:198:C:O5'	1.99	0.46
26:BA:392:U:H2'	26:BA:393:C:H6	1.81	0.46
26:BA:823:C:C4	26:BA:824:U:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1142:A:C4	26:BA:1144:A:C8	3.04	0.46
26:BA:1534:U:H5'	26:BA:1535:A:P	2.56	0.46
26:BA:1681:G:N3	26:BA:1762:A:H2'	2.31	0.46
26:BA:1714:U:C5'	26:BA:1715:G:H5'	2.46	0.46
26:BA:1724:G:H1	26:BA:1737:G:H1'	1.80	0.46
26:BA:1808:A:O2'	48:BX:2:ARG:NH1	2.49	0.46
26:BA:1908:C:C4	26:BA:1909:C:C5	3.04	0.46
26:BA:2278:A:OP1	37:BM:10:ARG:NH2	2.48	0.46
27:BC:10:PRO:O	27:BC:11:GLY:O	2.32	0.46
27:BC:35:LYS:O	27:BC:36:ASN:HB2	2.14	0.46
30:BF:68:LYS:O	30:BF:69:ALA:C	2.58	0.46
30:BF:157:THR:HG21	30:BF:159:ALA:HB3	1.98	0.46
31:BG:77:GLY:C	31:BG:79:THR:H	2.24	0.46
31:BG:82:PHE:CD2	31:BG:82:PHE:N	2.83	0.46
33:BI:100:ILE:HD11	33:BI:137:LEU:HD13	1.97	0.46
34:BJ:98:GLU:HB3	34:BJ:124:VAL:HG22	1.98	0.46
35:BK:77:ILE:N	35:BK:77:ILE:HD13	2.31	0.46
37:BM:14:LYS:HE3	37:BM:14:LYS:HB2	1.80	0.46
37:BM:42:THR:HG22	37:BM:93:VAL:HG12	1.97	0.46
44:BT:2:ILE:HG23	44:BT:7:LEU:CD1	2.46	0.46
45:BU:97:SER:O	45:BU:98:ASN:HB3	2.14	0.46
49:BY:22:LEU:CG	49:BY:23:ARG:H	2.28	0.46
1:AA:79:G:H2'	1:AA:80:A:C8	2.51	0.46
1:AA:202:G:N2	1:AA:216:U:O2	2.49	0.46
1:AA:205:A:N3	1:AA:205:A:C2'	2.78	0.46
1:AA:737:C:C2'	1:AA:738:C:O5'	2.64	0.46
1:AA:754:C:H3'	1:AA:754:C:O2	2.16	0.46
1:AA:790:A:C6	1:AA:791:G:C6	3.03	0.46
1:AA:981:U:C2	1:AA:982:U:C5	3.04	0.46
1:AA:1020:G:C2	1:AA:1021:A:C5	3.03	0.46
1:AA:1126:U:H4'	1:AA:1127:G:OP2	2.15	0.46
1:AA:1216:A:C5	1:AA:1217:C:C5	3.04	0.46
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.50	0.46
1:AA:1401:G:O6	1:AA:1504:G:N2	2.49	0.46
1:AA:1439:G:N7	1:AA:1440:U:C5	2.84	0.46
1:AA:1444:U:O2	1:AA:1444:U:C2'	2.59	0.46
1:AA:1451:U:C3'	1:AA:1452:C:H5'	2.46	0.46
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.47	0.46
2:AB:32:GLY:HA3	2:AB:38:HIS:CA	2.46	0.46
2:AB:52:ALA:CB	2:AB:212:TYR:OH	2.64	0.46
2:AB:139:GLU:O	2:AB:143:LEU:CD2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:175:ALA:C	2:AB:177:ASN:N	2.73	0.46
3:AC:84:GLU:HA	3:AC:87:ARG:NH2	2.31	0.46
3:AC:166:TRP:CE3	3:AC:166:TRP:CA	2.99	0.46
4:AD:97:LEU:HD23	4:AD:117:VAL:CG1	2.45	0.46
4:AD:186:GLU:HA	4:AD:186:GLU:OE1	2.15	0.46
7:AG:82:SER:CB	7:AG:84:TYR:CE2	2.99	0.46
7:AG:85:GLN:OE1	7:AG:85:GLN:HA	2.15	0.46
9:AI:25:GLY:N	9:AI:58:GLU:HG2	2.31	0.46
9:AI:96:GLU:CD	9:AI:96:GLU:H	2.23	0.46
9:AI:129:ARG:CZ	24:AX:36:A:OP1	2.59	0.46
10:AJ:56:HIS:C	10:AJ:57:VAL:HG12	2.40	0.46
11:AK:32:THR:OG1	11:AK:43:TRP:HB3	2.16	0.46
11:AK:94:SER:O	11:AK:97:ARG:HB2	2.16	0.46
11:AK:121:ARG:NE	21:AU:35:GLU:HG3	2.31	0.46
14:AN:1:ALA:O	14:AN:2:LYS:HB3	2.16	0.46
14:AN:42:TRP:CE3	14:AN:42:TRP:N	2.84	0.46
14:AN:43:ASN:C	14:AN:45:VAL:HG22	2.41	0.46
16:AP:18:GLN:HE21	16:AP:35:ARG:HE	1.63	0.46
16:AP:72:ALA:O	16:AP:75:ILE:HD12	2.15	0.46
20:AT:76:ALA:O	20:AT:79:THR:HB	2.16	0.46
22:AV:60:U:C3'	22:AV:62:G:H4'	2.44	0.46
22:AV:144:U:OP1	22:AV:145:C:OP2	2.34	0.46
22:AV:156:G:C2	22:AV:157:C:C4	3.04	0.46
22:AV:301:A:OP1	22:AV:302:A:OP2	2.34	0.46
22:AV:308:U:H4'	22:AV:309:A:C5'	2.46	0.46
25:AY:119:GLU:OE1	25:AY:666:ARG:HG2	2.15	0.46
25:AY:304:ASP:C	25:AY:306:ASN:H	2.24	0.46
25:AY:545:GLY:CA	25:AY:583:LYS:HG2	2.46	0.46
25:AY:617:MET:O	25:AY:618:GLY:C	2.57	0.46
26:BA:208:C:O2	26:BA:208:C:H2'	2.14	0.46
26:BA:368:A:H3'	26:BA:368:A:C8	2.50	0.46
26:BA:545:U:H2'	26:BA:546:U:O3'	2.16	0.46
26:BA:594:U:H2'	26:BA:595:C:H6	1.80	0.46
26:BA:622:G:H2'	26:BA:623:C:C6	2.50	0.46
26:BA:708:G:O6	26:BA:723:C:N3	2.49	0.46
26:BA:813:U:H2'	26:BA:814:C:C6	2.51	0.46
26:BA:1121:C:C2'	26:BA:1122:G:O5'	2.63	0.46
26:BA:1293:C:H2'	26:BA:1294:U:O5'	2.16	0.46
26:BA:1339:G:N2	26:BA:1603:A:N3	2.64	0.46
26:BA:1601:G:C2'	26:BA:1602:U:H5'	2.46	0.46
26:BA:2174:C:H2'	26:BA:2175:C:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2291:U:H5”	26:BA:2380:C:O2’	2.16	0.46
26:BA:2355:G:O2’	47:BW:35:ARG:HD2	2.16	0.46
26:BA:2567:G:H2’	26:BA:2568:U:C6	2.51	0.46
26:BA:2658:C:C2’	26:BA:2658:C:O2	2.59	0.46
28:BD:49:GLN:OE1	28:BD:67:HIS:HE1	1.99	0.46
30:BF:32:LYS:HD3	30:BF:91:ARG:NH1	2.30	0.46
30:BF:37:MET:HE1	30:BF:55:ASP:HB2	1.96	0.46
30:BF:129:MET:HG3	30:BF:153:ILE:HB	1.98	0.46
31:BG:16:VAL:HG22	31:BG:25:ILE:HD13	1.97	0.46
31:BG:64:ALA:O	31:BG:67:ALA:N	2.49	0.46
33:BI:18:ASN:ND2	33:BI:27:LEU:HD11	2.30	0.46
36:BL:19:LEU:CD2	36:BL:31:GLY:O	2.64	0.46
37:BM:42:THR:O	37:BM:46:ILE:HG13	2.16	0.46
44:BT:30:ILE:HG23	44:BT:85:VAL:HB	1.98	0.46
49:BY:18:LEU:HD21	49:BY:22:LEU:CD2	2.45	0.46
56:BB:34:A:O2’	56:BB:35:C:C5’	2.63	0.46
56:BB:61:G:H2’	56:BB:62:C:C6	2.50	0.46
1:AA:101:A:C5	1:AA:102:G:N7	2.83	0.45
1:AA:144:G:N2	1:AA:145:G:H1’	2.31	0.45
1:AA:299:G:C6	1:AA:300:A:C6	3.04	0.45
1:AA:414:A:C4	1:AA:415:A:C8	3.04	0.45
1:AA:451:A:C8	1:AA:481:G:N1	2.84	0.45
1:AA:539:A:H2’	1:AA:540:G:C8	2.50	0.45
1:AA:588:G:C6	1:AA:589:U:N3	2.85	0.45
1:AA:654:G:C2’	1:AA:655:A:H5’	2.46	0.45
1:AA:773:G:C2	1:AA:807:A:C2	3.03	0.45
1:AA:987:G:C2	1:AA:988:G:C4	3.04	0.45
1:AA:1000:A:C2	1:AA:1041:G:C2	3.04	0.45
1:AA:1020:G:C2	1:AA:1021:A:N7	2.84	0.45
1:AA:1032:G:C5’	1:AA:1032:G:N3	2.79	0.45
1:AA:1141:C:HO2’	1:AA:1142:G:P	2.39	0.45
1:AA:1190:G:OP1	3:AC:4:VAL:HG12	2.16	0.45
1:AA:1271:A:H5”	1:AA:1314:C:H5”	1.98	0.45
1:AA:1304:G:C6	1:AA:1305:G:N1	2.84	0.45
1:AA:1435:G:O6	1:AA:1465:A:N6	2.49	0.45
2:AB:80:LYS:HB2	2:AB:90:PHE:HE1	1.81	0.45
2:AB:106:VAL:O	2:AB:107:ARG:C	2.58	0.45
2:AB:112:ARG:O	2:AB:116:LEU:HD23	2.15	0.45
2:AB:134:LEU:HG	2:AB:137:THR:OG1	2.16	0.45
2:AB:163:ILE:HG23	2:AB:164:ASP:N	2.28	0.45
3:AC:6:PRO:HG2	3:AC:183:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:150:GLU:CG	5:AE:151:MET:N	2.79	0.45
5:AE:152:VAL:HG22	5:AE:153:ALA:H	1.80	0.45
7:AG:11:ILE:HD11	7:AG:23:ALA:HB3	1.98	0.45
7:AG:119:LEU:CD2	7:AG:123:LEU:HD21	2.45	0.45
9:AI:93:LEU:HA	9:AI:96:GLU:OE1	2.16	0.45
14:AN:31:SER:O	14:AN:32:ASP:CB	2.62	0.45
14:AN:44:ALA:HA	14:AN:47:LYS:HG3	1.97	0.45
16:AP:70:ARG:HB2	16:AP:70:ARG:HH11	1.81	0.45
17:AQ:21:VAL:C	17:AQ:22:VAL:CG2	2.89	0.45
20:AT:47:GLN:C	20:AT:47:GLN:NE2	2.74	0.45
22:AV:168:G:N3	22:AV:169:G:C8	2.84	0.45
23:AW:93:VAL:CA	23:AW:98:LEU:HB3	2.35	0.45
25:AY:498:ILE:HG22	25:AY:507:TYR:CG	2.51	0.45
26:BA:116:C:C2'	26:BA:116:C:O2	2.57	0.45
26:BA:245:G:O6	54:B3:7:ARG:CD	2.64	0.45
26:BA:887:U:C2'	26:BA:888:C:H2'	2.40	0.45
26:BA:901:C:H2'	26:BA:902:C:OP1	2.15	0.45
26:BA:1168:G:H8	26:BA:1168:G:C5'	2.29	0.45
26:BA:1217:U:O2	26:BA:1217:U:C2'	2.62	0.45
26:BA:1268:A:C2	26:BA:2013:A:C4	3.04	0.45
26:BA:1378:A:H4'	26:BA:1379:U:OP1	2.16	0.45
26:BA:1420:A:O2'	26:BA:1421:G:C5'	2.64	0.45
26:BA:1766:G:O2'	26:BA:1767:G:H5'	2.16	0.45
26:BA:1782:U:H2'	26:BA:2608:G:O2'	2.16	0.45
26:BA:1907:G:C5	26:BA:1908:C:C5	3.03	0.45
26:BA:2157:G:H8	26:BA:2157:G:OP2	2.00	0.45
26:BA:2189:U:H2'	26:BA:2190:G:H8	1.80	0.45
26:BA:2255:G:H2'	26:BA:2256:G:C5'	2.45	0.45
26:BA:2298:A:H2'	26:BA:2298:A:N3	2.31	0.45
26:BA:2328:A:H2'	26:BA:2329:U:H6	1.80	0.45
28:BD:8:LYS:HE3	28:BD:193:VAL:O	2.15	0.45
29:BE:138:LEU:O	29:BE:139:LYS:C	2.59	0.45
30:BF:56:LEU:HD12	30:BF:64:PRO:HB2	1.97	0.45
31:BG:34:ARG:HG2	31:BG:35:THR:H	1.81	0.45
31:BG:51:PHE:N	31:BG:51:PHE:CD2	2.84	0.45
33:BI:85:ILE:HG12	33:BI:88:GLY:HA2	1.97	0.45
33:BI:96:LYS:HG3	33:BI:138:VAL:CG2	2.42	0.45
38:BN:75:ILE:O	38:BN:79:LEU:CD1	2.61	0.45
39:BO:87:ILE:HG22	39:BO:88:LYS:N	2.30	0.45
39:BO:87:ILE:C	39:BO:88:LYS:O	2.59	0.45
40:BP:19:PHE:CD1	40:BP:19:PHE:C	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BP:80:VAL:CG1	40:BP:83:ILE:CD1	2.94	0.45
42:BR:14:VAL:HG11	42:BR:98:ILE:HD12	1.98	0.45
42:BR:102:SER:C	42:BR:103:ALA:O	2.59	0.45
48:BX:26:ARG:HG3	48:BX:27:ARG:N	2.30	0.45
49:BY:17:GLU:OE2	49:BY:17:GLU:CA	2.63	0.45
51:B0:52:LYS:HE2	51:B0:55:ALA:HB2	1.97	0.45
56:BB:38:C:H3'	56:BB:38:C:C6	2.51	0.45
1:AA:71:A:H61	1:AA:99:C:C2'	2.30	0.45
1:AA:259:G:C4	1:AA:260:G:C8	3.04	0.45
1:AA:379:C:H2'	1:AA:380:G:H5'	1.97	0.45
1:AA:549:C:C2'	1:AA:550:G:O5'	2.64	0.45
1:AA:928:G:H5"	1:AA:1503:A:H61	1.77	0.45
1:AA:1293:C:O2	1:AA:1293:C:H2'	2.16	0.45
1:AA:1299:A:C2	1:AA:1301:U:C2	3.05	0.45
2:AB:53:LEU:HD13	2:AB:56:LEU:HD12	1.98	0.45
3:AC:89:VAL:O	3:AC:93:ILE:HB	2.16	0.45
4:AD:112:GLU:O	4:AD:115:GLN:N	2.49	0.45
4:AD:146:GLU:HA	4:AD:149:LYS:CD	2.45	0.45
4:AD:164:ARG:C	4:AD:166:LYS:H	2.24	0.45
7:AG:73:GLU:HA	7:AG:140:VAL:HG12	1.98	0.45
8:AH:110:MET:CE	8:AH:115:ALA:HA	2.45	0.45
10:AJ:32:THR:HG23	10:AJ:83:THR:HA	1.97	0.45
10:AJ:35:GLN:HG2	10:AJ:78:GLU:N	2.31	0.45
10:AJ:58:ASN:C	10:AJ:60:ASP:H	2.24	0.45
13:AM:66:GLY:O	13:AM:70:ARG:HB3	2.15	0.45
18:AR:33:THR:HG23	18:AR:36:GLY:H	1.81	0.45
18:AR:72:ARG:HH11	18:AR:72:ARG:HG3	1.80	0.45
22:AV:20:A:H2'	22:AV:21:C:C2	2.51	0.45
22:AV:21:C:H2'	22:AV:22:G:O5'	2.16	0.45
22:AV:33:A:O4'	22:AV:34:A:OP1	2.34	0.45
22:AV:157:C:N3	22:AV:158:U:C5	2.84	0.45
22:AV:325:G:H2'	22:AV:325:G:N3	2.31	0.45
23:AW:81:LEU:CD2	23:AW:85:GLU:O	2.64	0.45
24:AX:4:G:H2'	24:AX:5:G:C8	2.52	0.45
25:AY:111:SER:O	25:AY:112:GLN:C	2.58	0.45
25:AY:166:LEU:HD12	25:AY:166:LEU:N	2.31	0.45
25:AY:406:GLU:CB	25:AY:407:PRO:HD2	2.42	0.45
25:AY:658:ASP:CG	31:BG:176:LYS:NZ	2.75	0.45
26:BA:184:C:H2'	26:BA:185:G:H8	1.81	0.45
26:BA:185:G:C5	26:BA:186:G:N7	2.84	0.45
26:BA:242:G:H5"	54:B3:63:TYR:CZ	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:415:A:H8	26:BA:415:A:O5'	1.98	0.45
26:BA:717:C:C2'	26:BA:718:A:H5'	2.46	0.45
26:BA:1094:U:O4	26:BA:1097:U:OP2	2.34	0.45
26:BA:1449:G:C2'	26:BA:1450:G:O5'	2.64	0.45
26:BA:1520:U:O2	26:BA:1520:U:C2'	2.62	0.45
26:BA:1641:A:H2'	26:BA:1642:G:O4'	2.16	0.45
26:BA:1983:G:C2'	26:BA:1984:G:H5'	2.46	0.45
26:BA:2023:C:O2'	26:BA:2024:G:H5'	2.16	0.45
26:BA:2172:U:OP2	26:BA:2173:A:H5"	2.16	0.45
26:BA:2313:C:C6	26:BA:2313:C:C3'	2.98	0.45
26:BA:2415:G:C4'	36:BL:66:PHE:HB3	2.46	0.45
27:BC:51:ARG:O	27:BC:52:HIS:HB2	2.14	0.45
29:BE:138:LEU:CD1	29:BE:167:VAL:HG21	2.46	0.45
30:BF:107:VAL:N	30:BF:108:PRO:HD2	2.31	0.45
30:BF:110:ILE:HB	30:BF:113:PHE:HB2	1.98	0.45
31:BG:122:ALA:HB2	31:BG:132:LEU:HA	1.99	0.45
31:BG:130:ILE:C	31:BG:131:VAL:HG23	2.40	0.45
32:BH:10:ALA:O	32:BH:11:ASN:C	2.59	0.45
33:BI:37:PHE:CE1	33:BI:41:PHE:HD1	2.35	0.45
34:BJ:4:PHE:CG	34:BJ:5:THR:N	2.83	0.45
35:BK:19:VAL:CG1	35:BK:41:ILE:HD13	2.45	0.45
35:BK:21:CYS:HA	35:BK:41:ILE:HG22	1.97	0.45
35:BK:66:LYS:HD2	35:BK:66:LYS:HA	1.78	0.45
35:BK:114:LYS:HD2	35:BK:114:LYS:HA	1.82	0.45
36:BL:47:ARG:HG2	36:BL:47:ARG:HH21	1.81	0.45
36:BL:76:GLU:O	36:BL:77:ILE:HD13	2.15	0.45
37:BM:57:VAL:O	37:BM:57:VAL:HG23	2.15	0.45
38:BN:63:ARG:HG3	38:BN:80:PHE:CE1	2.51	0.45
43:BS:11:ARG:O	43:BS:12:SER:HB3	2.14	0.45
45:BU:82:VAL:HG13	45:BU:93:ARG:HB3	1.99	0.45
46:BV:1:MET:SD	46:BV:1:MET:C	2.99	0.45
49:BY:24:GLU:HA	49:BY:24:GLU:OE1	2.17	0.45
49:BY:55:THR:C	49:BY:56:LEU:O	2.55	0.45
50:BZ:53:MET:O	50:BZ:54:VAL:CG1	2.65	0.45
51:B0:24:VAL:HG13	51:B0:25:THR:N	2.31	0.45
1:AA:54:C:O2	1:AA:54:C:H2'	2.16	0.45
1:AA:67:C:H4'	1:AA:172:A:O4'	2.17	0.45
1:AA:204:G:N3	1:AA:465:A:C2	2.84	0.45
1:AA:211:G:H3'	1:AA:211:G:N3	2.32	0.45
1:AA:452:A:N7	1:AA:453:G:C8	2.83	0.45
1:AA:549:C:H2'	1:AA:550:G:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:553:A:O2'	12:AL:25:ALA:HB1	2.17	0.45
1:AA:632:U:C6	1:AA:632:U:C3'	2.99	0.45
1:AA:646:G:C4	1:AA:647:C:C5	3.04	0.45
1:AA:794:A:C6	1:AA:795:C:C4	3.04	0.45
1:AA:978:A:C6	1:AA:1319:A:C2	3.03	0.45
1:AA:1309:G:OP1	13:AM:90:HIS:HE1	1.99	0.45
1:AA:1366:C:C2'	1:AA:1367:C:H5'	2.46	0.45
1:AA:1422:G:N2	1:AA:1423:G:C4	2.85	0.45
1:AA:1537:U:C4	1:AA:1538:C:N4	2.85	0.45
2:AB:46:VAL:HB	2:AB:47:PRO:CD	2.42	0.45
4:AD:42:ALA:O	4:AD:43:ARG:C	2.59	0.45
5:AE:68:ARG:O	5:AE:69:ASN:C	2.60	0.45
5:AE:94:PHE:HZ	5:AE:96:GLN:HG3	1.79	0.45
8:AH:40:LYS:NZ	8:AH:47:ASP:OD2	2.49	0.45
8:AH:95:MET:HE3	8:AH:129:ALA:HB1	1.98	0.45
8:AH:100:ILE:C	8:AH:100:ILE:HD12	2.40	0.45
13:AM:39:ALA:O	13:AM:41:ASP:N	2.50	0.45
13:AM:106:ARG:O	13:AM:107:THR:C	2.60	0.45
16:AP:20:VAL:HG11	16:AP:32:PHE:CB	2.46	0.45
19:AS:34:SER:O	19:AS:35:ARG:C	2.59	0.45
22:AV:57:G:H2'	22:AV:58:G:H8	1.81	0.45
22:AV:67:G:C2	22:AV:303:G:O6	2.70	0.45
22:AV:161:U:O2'	22:AV:162:A:H5'	2.17	0.45
22:AV:234:A:OP1	22:AV:234:A:H8	1.99	0.45
22:AV:264:U:O2'	22:AV:265:C:C5'	2.65	0.45
25:AY:181:LEU:CD1	25:AY:242:LEU:HD22	2.46	0.45
25:AY:216:LEU:C	25:AY:216:LEU:CD2	2.89	0.45
25:AY:277:VAL:HG13	25:AY:278:ASP:N	2.31	0.45
25:AY:334:THR:HG23	25:AY:370:LYS:HA	1.99	0.45
26:BA:220:G:O2'	26:BA:233:A:N3	2.49	0.45
26:BA:703:U:C2'	26:BA:704:G:H5'	2.46	0.45
26:BA:734:A:C4	26:BA:735:A:C8	3.04	0.45
26:BA:870:U:H2'	26:BA:871:U:C6	2.50	0.45
26:BA:895:U:O2'	26:BA:896:A:C8	2.68	0.45
26:BA:1076:C:H2'	26:BA:1077:A:C1'	2.46	0.45
26:BA:1217:U:O2	26:BA:1217:U:H2'	2.15	0.45
26:BA:1315:C:C2'	26:BA:1316:U:O5'	2.65	0.45
26:BA:1392:A:N6	26:BA:1393:A:N6	2.64	0.45
26:BA:1830:C:H2'	26:BA:1831:G:H8	1.80	0.45
26:BA:1833:C:C4	26:BA:1834:U:C4	3.05	0.45
26:BA:1875:G:HO2'	26:BA:1876:A:P	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2097:A:C6	26:BA:2193:G:C6	3.05	0.45
26:BA:2146:C:H4'	26:BA:2147:A:C8	2.51	0.45
26:BA:2414:G:C2'	26:BA:2415:G:H5'	2.46	0.45
26:BA:2723:C:C2'	26:BA:2724:U:O5'	2.65	0.45
26:BA:2870:C:H2'	26:BA:2871:U:H5'	1.98	0.45
28:BD:55:LYS:HG2	28:BD:56:LYS:H	1.80	0.45
28:BD:99:GLU:O	28:BD:102:ALA:N	2.49	0.45
29:BE:48:THR:CG2	29:BE:86:ALA:HB3	2.46	0.45
32:BH:45:GLU:O	32:BH:46:PHE:C	2.59	0.45
33:BI:33:ASN:CB	33:BI:36:GLU:HG2	2.45	0.45
33:BI:83:ALA:HB1	33:BI:100:ILE:CD1	2.46	0.45
36:BL:2:ARG:O	36:BL:2:ARG:CG	2.62	0.45
37:BM:2:LEU:HB2	37:BM:69:PRO:HG2	1.98	0.45
38:BN:103:ARG:HD3	38:BN:110:MET:HE3	1.98	0.45
40:BP:9:GLN:HA	40:BP:12:MET:HG3	1.99	0.45
42:BR:51:VAL:CG2	42:BR:52:PRO:HD2	2.46	0.45
45:BU:4:ILE:CG2	45:BU:5:ARG:N	2.79	0.45
46:BV:21:ARG:HA	46:BV:25:LYS:O	2.17	0.45
47:BW:27:VAL:HG21	47:BW:78:ILE:HD11	1.98	0.45
48:BX:16:ASN:OD1	48:BX:26:ARG:HD2	2.16	0.45
49:BY:18:LEU:HD23	49:BY:22:LEU:HD23	1.98	0.45
1:AA:71:A:N1	1:AA:99:C:O2'	2.48	0.45
1:AA:462:G:N7	1:AA:463:U:C5	2.84	0.45
1:AA:552:U:H4'	12:AL:83:GLY:O	2.17	0.45
1:AA:1078:U:C4	1:AA:1079:G:C6	3.03	0.45
1:AA:1241:G:N3	1:AA:1242:G:C8	2.84	0.45
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.52	0.45
1:AA:1475:G:C2'	1:AA:1476:A:H5'	2.46	0.45
1:AA:1530:G:N2	1:AA:1531:A:N7	2.64	0.45
2:AB:104:LYS:HZ2	2:AB:107:ARG:NH2	2.14	0.45
3:AC:110:LEU:HD13	3:AC:203:LYS:HE3	1.98	0.45
4:AD:12:ARG:HH11	4:AD:12:ARG:HB3	1.81	0.45
5:AE:113:VAL:O	5:AE:114:LEU:C	2.58	0.45
7:AG:61:PHE:CD1	7:AG:62:GLU:N	2.85	0.45
8:AH:17:GLN:CD	8:AH:69:ALA:HB1	2.41	0.45
9:AI:9:GLY:HA3	9:AI:80:HIS:HB3	1.98	0.45
9:AI:88:GLU:C	9:AI:90:ASP:H	2.25	0.45
9:AI:123:ARG:CG	9:AI:124:PRO:HD2	2.46	0.45
10:AJ:59:LYS:CE	10:AJ:59:LYS:H	2.29	0.45
10:AJ:67:ILE:HD11	14:AN:96:LEU:HB2	1.97	0.45
12:AL:100:ALA:O	12:AL:101:LEU:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:94:LEU:HB3	13:AM:95:PRO:HD2	1.97	0.45
14:AN:90:ARG:HB3	14:AN:92:GLU:CG	2.47	0.45
16:AP:12:LYS:C	16:AP:14:ARG:H	2.24	0.45
20:AT:27:MET:CG	20:AT:31:ILE:HD11	2.45	0.45
20:AT:68:LYS:HB2	20:AT:69:ASN:H	1.60	0.45
22:AV:163:G:C5	22:AV:164:G:N7	2.84	0.45
22:AV:166:C:N4	22:AV:167:G:O6	2.50	0.45
22:AV:200:G:C2'	22:AV:201:C:H5'	2.47	0.45
22:AV:330:U:H2'	22:AV:331:C:C6	2.50	0.45
24:AX:62:C:H5'	24:AX:63:C:OP2	2.16	0.45
24:AX:70:C:HO2'	24:AX:71:G:H5"	1.79	0.45
25:AY:21:ILE:HG21	25:AY:88:VAL:CG1	2.44	0.45
25:AY:152:THR:HA	25:AY:155:GLU:HB3	1.99	0.45
25:AY:334:THR:HG23	25:AY:369:LEU:O	2.16	0.45
25:AY:337:SER:HB2	25:AY:355:LEU:HD23	1.98	0.45
26:BA:31:C:O3'	26:BA:1238:G:C5'	2.64	0.45
26:BA:545:U:H6	26:BA:548:G:P	2.39	0.45
26:BA:570:G:H2'	26:BA:2030:A:N7	2.32	0.45
26:BA:653:U:H2'	26:BA:654:A:OP1	2.16	0.45
26:BA:907:G:H5"	37:BM:22:GLN:HB3	1.98	0.45
26:BA:1172:C:C5	26:BA:1173:U:C6	3.04	0.45
26:BA:1173:U:O2	26:BA:1173:U:H2'	2.17	0.45
26:BA:1501:G:C2'	26:BA:1502:A:O5'	2.64	0.45
26:BA:1726:C:O2'	26:BA:1727:C:H5'	2.17	0.45
26:BA:1869:G:C5	26:BA:1871:A:OP2	2.70	0.45
26:BA:1901:A:OP2	27:BC:252:LYS:HD2	2.17	0.45
26:BA:1936:A:H2	26:BA:1943:U:H3	1.56	0.45
26:BA:2800:A:H3'	26:BA:2801:G:H5"	1.95	0.45
26:BA:2852:G:C5	26:BA:2853:C:C5	3.04	0.45
27:BC:221:GLY:C	27:BC:223:ALA:N	2.72	0.45
29:BE:136:GLN:HE22	29:BE:139:LYS:NZ	2.15	0.45
30:BF:41:GLU:O	30:BF:43:ILE:HG12	2.17	0.45
33:BI:18:ASN:H	33:BI:19:PRO:HD3	1.79	0.45
33:BI:57:VAL:O	33:BI:68:PHE:CB	2.64	0.45
33:BI:126:ARG:HA	33:BI:129:GLU:CG	2.46	0.45
34:BJ:58:ASN:HD21	34:BJ:128:ASN:HB2	1.82	0.45
36:BL:37:GLY:O	36:BL:41:ARG:HG3	2.16	0.45
38:BN:77:ALA:O	38:BN:79:LEU:O	2.33	0.45
42:BR:1:MET:HE3	42:BR:1:MET:HB3	1.77	0.45
49:BY:28:LEU:HD23	49:BY:37:LEU:HD21	1.98	0.45
1:AA:10:A:OP2	5:AE:130:THR:OG1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:69:G:O6	1:AA:98:A:N6	2.50	0.45
1:AA:100:G:C6	1:AA:101:A:C5	3.04	0.45
1:AA:490:C:H2'	1:AA:491:G:C8	2.50	0.45
1:AA:623:C:C2'	1:AA:624:C:H5'	2.46	0.45
1:AA:757:U:C5'	1:AA:822:U:O2	2.64	0.45
1:AA:781:A:C5	1:AA:802:A:C2	3.04	0.45
1:AA:858:G:O2'	1:AA:859:G:C5'	2.65	0.45
1:AA:979:C:P	1:AA:981:U:O4	2.75	0.45
1:AA:1039:G:C2'	1:AA:1040:U:O5'	2.65	0.45
2:AB:89:PHE:HD1	2:AB:153:MET:HE3	1.81	0.45
2:AB:135:MET:C	2:AB:138:ARG:HG2	2.41	0.45
2:AB:184:ALA:HB3	2:AB:195:VAL:HG22	1.98	0.45
3:AC:13:ILE:C	3:AC:15:LYS:H	2.24	0.45
3:AC:143:LEU:N	3:AC:143:LEU:HD13	2.31	0.45
4:AD:54:LEU:C	4:AD:54:LEU:CD2	2.90	0.45
4:AD:103:ARG:NH1	4:AD:110:ARG:HH22	2.14	0.45
4:AD:122:ILE:HD13	4:AD:122:ILE:H	1.78	0.45
4:AD:168:THR:CB	4:AD:183:ARG:HH22	2.27	0.45
5:AE:76:ASN:O	5:AE:77:ASN:HB2	2.16	0.45
8:AH:48:PHE:O	8:AH:49:LYS:CG	2.65	0.45
13:AM:79:LEU:HD23	13:AM:86:ARG:HD3	1.97	0.45
14:AN:86:GLU:HB3	14:AN:90:ARG:NH2	2.32	0.45
19:AS:74:ALA:N	19:AS:75:PRO:HD2	2.32	0.45
20:AT:71:ALA:O	20:AT:72:ALA:C	2.59	0.45
22:AV:9:U:OP2	22:AV:10:U:OP1	2.33	0.45
22:AV:113:A:N3	22:AV:114:G:C4	2.84	0.45
22:AV:121:A:N3	22:AV:122:A:H2'	2.31	0.45
22:AV:206:A:N3	22:AV:206:A:C2'	2.75	0.45
22:AV:271:G:N3	22:AV:272:C:C6	2.85	0.45
23:AW:22:ALA:HB2	23:AW:81:LEU:HD13	1.99	0.45
23:AW:40:ASP:OD1	23:AW:40:ASP:N	2.50	0.45
24:AX:52:C:O2	24:AX:64:G:N1	2.44	0.45
24:AX:62:C:O2	24:AX:62:C:C2'	2.64	0.45
25:AY:9:LEU:C	25:AY:9:LEU:CD2	2.86	0.45
26:BA:829:A:H5"	26:BA:831:G:N7	2.32	0.45
26:BA:838:C:C2	26:BA:941:A:C2	3.05	0.45
26:BA:908:C:H2'	26:BA:909:A:H8	1.82	0.45
26:BA:1098:A:H5'	26:BA:1099:G:OP2	2.17	0.45
26:BA:1174:U:O2	26:BA:1174:U:O4'	2.35	0.45
26:BA:1373:A:H2'	26:BA:1374:G:O4'	2.16	0.45
26:BA:1421:G:H2'	26:BA:1422:G:O5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1425:G:O2'	26:BA:1426:G:H5'	2.17	0.45
26:BA:1525:A:C2'	26:BA:1526:C:H5'	2.46	0.45
26:BA:1870:C:H5"	26:BA:1871:A:C8	2.51	0.45
26:BA:2110:G:O2'	26:BA:2120:G:H5"	2.16	0.45
26:BA:2461:A:H1'	26:BA:2492:U:C2	2.52	0.45
26:BA:2631:G:C2'	26:BA:2632:A:O5'	2.65	0.45
27:BC:7:PRO:HA	27:BC:13:ARG:HA	1.98	0.45
28:BD:103:ASP:C	28:BD:104:VAL:CG2	2.89	0.45
30:BF:174:PHE:HA	30:BF:175:PRO:HD2	1.75	0.45
32:BH:24:GLY:O	32:BH:28:ASN:HB2	2.16	0.45
39:BO:66:GLY:HA2	39:BO:102:ARG:NH2	2.30	0.45
39:BO:94:ARG:O	39:BO:95:SER:C	2.59	0.45
40:BP:32:VAL:HG13	40:BP:36:LYS:O	2.16	0.45
45:BU:71:ILE:CD1	45:BU:82:VAL:CG2	2.95	0.45
1:AA:103:U:H2'	1:AA:104:G:H8	1.82	0.45
1:AA:375:U:C2	1:AA:376:G:C8	3.05	0.45
1:AA:375:U:N3	1:AA:376:G:C8	2.85	0.45
1:AA:438:U:O2'	1:AA:439:U:P	2.75	0.45
1:AA:489:C:C2'	1:AA:490:C:O5'	2.65	0.45
1:AA:550:G:C6	1:AA:551:U:C4	3.04	0.45
1:AA:564:C:C4	1:AA:565:U:C4	3.04	0.45
1:AA:600:A:C4	1:AA:639:G:C2	3.04	0.45
1:AA:839:C:O5'	1:AA:839:C:H6	2.00	0.45
1:AA:944:G:O6	1:AA:1337:G:H3'	2.16	0.45
1:AA:954:G:N1	1:AA:955:U:O2	2.49	0.45
1:AA:1188:A:H2'	1:AA:1189:U:O4'	2.17	0.45
1:AA:1191:A:C2'	1:AA:1192:C:H5'	2.47	0.45
1:AA:1218:C:O2'	1:AA:1219:A:H5'	2.17	0.45
1:AA:1271:A:C5'	1:AA:1314:C:C5'	2.93	0.45
1:AA:1342:C:H2'	1:AA:1343:G:H5'	1.94	0.45
1:AA:1348:U:O4	1:AA:1374:A:C8	2.70	0.45
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.76	0.45
1:AA:1394:A:C5	1:AA:1501:C:H4'	2.52	0.45
2:AB:57:ASN:HA	2:AB:60:ALA:HB3	1.98	0.45
2:AB:162:VAL:O	2:AB:184:ALA:HA	2.17	0.45
2:AB:163:ILE:HG12	2:AB:164:ASP:N	2.30	0.45
3:AC:61:LYS:HA	3:AC:61:LYS:HE3	1.97	0.45
4:AD:96:ARG:HB3	4:AD:98:ASP:OD1	2.16	0.45
4:AD:196:GLU:C	4:AD:198:LEU:N	2.74	0.45
5:AE:141:ASP:O	5:AE:143:LEU:N	2.50	0.45
6:AF:99:ALA:O	6:AF:100:SER:CB	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:22:LEU:O	7:AG:25:PHE:HB3	2.17	0.45
8:AH:38:VAL:CG1	8:AH:111:THR:HG22	2.46	0.45
8:AH:39:LEU:HD23	8:AH:39:LEU:HA	1.79	0.45
10:AJ:49:PHE:CE2	14:AN:77:PHE:CZ	3.05	0.45
10:AJ:58:ASN:O	10:AJ:60:ASP:N	2.49	0.45
10:AJ:67:ILE:HG22	10:AJ:67:ILE:O	2.17	0.45
11:AK:18:GLY:O	11:AK:81:LEU:HA	2.17	0.45
11:AK:75:GLU:OE1	11:AK:75:GLU:CA	2.65	0.45
13:AM:65:GLU:O	13:AM:67:ASP:N	2.50	0.45
13:AM:76:ILE:HG22	13:AM:77:LYS:N	2.32	0.45
19:AS:79:TYR:CD2	19:AS:79:TYR:C	2.93	0.45
20:AT:22:SER:O	20:AT:25:SER:HB3	2.15	0.45
21:AU:44:ARG:O	21:AU:45:LYS:C	2.58	0.45
22:AV:6:U:C2	22:AV:355:G:C2	3.05	0.45
22:AV:156:G:C6	22:AV:157:C:C4	3.01	0.45
22:AV:210:C:O5’	22:AV:210:C:C6	2.58	0.45
22:AV:211:C:H2’	22:AV:212:U:H6	1.80	0.45
22:AV:267:G:H2’	22:AV:268:U:H6	1.80	0.45
22:AV:297:G:O2’	22:AV:298:A:H5’	2.17	0.45
23:AW:20:TYR:O	23:AW:116:LEU:HD12	2.16	0.45
23:AW:104:LYS:HD3	23:AW:116:LEU:CD2	2.45	0.45
25:AY:14:ASN:ND2	25:AY:80:ASN:HD22	2.14	0.45
25:AY:408:VAL:HG22	25:AY:454:MET:HA	1.98	0.45
25:AY:673:PHE:CG	25:AY:674:ASP:N	2.84	0.45
26:BA:401:A:H2’	26:BA:402:A:O4’	2.16	0.45
26:BA:707:G:O6	26:BA:724:U:C2	2.70	0.45
26:BA:1091:G:HO2’	26:BA:1092:C:H5	1.63	0.45
26:BA:1413:A:N1	26:BA:1590:A:C2	2.84	0.45
26:BA:1536:C:H4’	26:BA:1537:G:C5’	2.45	0.45
26:BA:1724:G:C5	26:BA:1725:U:C5	3.04	0.45
26:BA:1735:A:H2’	26:BA:1736:U:H6	1.81	0.45
26:BA:2114:A:N3	26:BA:2114:A:C2’	2.79	0.45
26:BA:2204:G:O5’	27:BC:149:LYS:CE	2.65	0.45
27:BC:123:ILE:CD1	27:BC:129:LEU:HD11	2.47	0.45
33:BI:37:PHE:CZ	33:BI:41:PHE:HD1	2.35	0.45
33:BI:57:VAL:HB	33:BI:68:PHE:HB2	1.97	0.45
33:BI:58:ILE:HA	33:BI:68:PHE:HB3	1.99	0.45
36:BL:110:VAL:O	36:BL:110:VAL:CG1	2.64	0.45
37:BM:50:ARG:HG2	37:BM:51:ARG:N	2.31	0.45
37:BM:57:VAL:C	37:BM:60:GLN:HE21	2.24	0.45
38:BN:52:ILE:O	38:BN:53:THR:C	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BN:103:ARG:CZ	38:BN:110:MET:HE1	2.46	0.45
44:BT:33:LYS:HG3	44:BT:80:TRP:CE3	2.52	0.45
46:BV:25:LYS:HE2	46:BV:43:ASP:HB2	1.98	0.45
48:BX:40:GLU:O	48:BX:41:SER:C	2.58	0.45
49:BY:9:LYS:N	49:BY:12:GLU:HB2	2.31	0.45
1:AA:293:G:C6	1:AA:294:U:C4	3.04	0.45
1:AA:403:C:O2'	1:AA:404:G:H5'	2.16	0.45
1:AA:418:C:H2'	1:AA:419:C:C6	2.52	0.45
1:AA:650:G:C5	1:AA:651:C:C5	3.05	0.45
1:AA:946:A:H2'	1:AA:947:G:C8	2.52	0.45
1:AA:1047:G:H2'	1:AA:1048:G:H5'	1.98	0.45
1:AA:1061:G:H5'	1:AA:1062:U:OP2	2.17	0.45
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.52	0.45
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.47	0.45
1:AA:1530:G:N2	1:AA:1531:A:N6	2.65	0.45
2:AB:62:ARG:O	2:AB:63:LYS:HB2	2.15	0.45
3:AC:27:GLU:O	3:AC:28:PHE:C	2.59	0.45
4:AD:16:THR:CG2	4:AD:17:ASP:H	2.30	0.45
5:AE:98:ALA:O	5:AE:100:GLU:N	2.50	0.45
5:AE:108:GLY:O	5:AE:109:ALA:CB	2.62	0.45
5:AE:143:LEU:O	5:AE:144:GLU:C	2.59	0.45
5:AE:158:LYS:O	8:AH:63:LYS:CE	2.65	0.45
8:AH:85:TYR:CD2	8:AH:123:GLU:HA	2.48	0.45
9:AI:105:ARG:CD	9:AI:105:ARG:C	2.90	0.45
11:AK:124:LYS:HA	21:AU:34:ARG:HG3	1.97	0.45
14:AN:2:LYS:C	14:AN:6:LYS:HE2	2.42	0.45
22:AV:194:G:N3	22:AV:195:A:C8	2.84	0.45
22:AV:198:U:H6	22:AV:198:U:P	2.40	0.45
22:AV:258:G:OP1	22:AV:258:G:C8	2.69	0.45
22:AV:315:G:C8	22:AV:316:A:C6	3.05	0.45
22:AV:326:A:H2'	22:AV:327:A:H8	1.82	0.45
22:AV:360:A:H8	22:AV:360:A:O5'	2.00	0.45
23:AW:17:LEU:HD22	23:AW:119:LEU:HD12	1.99	0.45
23:AW:63:TYR:HE2	23:AW:65:LYS:CG	2.29	0.45
23:AW:85:GLU:O	23:AW:85:GLU:HG2	2.16	0.45
24:AX:50:G:C2	24:AX:51:U:N1	2.85	0.45
25:AY:67:ALA:O	25:AY:68:ALA:C	2.60	0.45
25:AY:486:THR:O	25:AY:599:PRO:HA	2.17	0.45
25:AY:526:VAL:N	25:AY:565:VAL:O	2.49	0.45
26:BA:27:G:C4	26:BA:512:G:N2	2.85	0.45
26:BA:100:U:N3	26:BA:101:A:N6	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:361:G:O2'	26:BA:362:A:P	2.75	0.45
26:BA:823:C:C2'	26:BA:824:U:H5'	2.47	0.45
26:BA:887:U:C2'	26:BA:888:C:H6	2.29	0.45
26:BA:1098:A:C6	26:BA:1099:G:C6	3.04	0.45
26:BA:1292:G:C2'	26:BA:1293:C:O5'	2.65	0.45
26:BA:1606:C:H6	26:BA:1606:C:H3'	1.82	0.45
26:BA:1928:A:C3'	26:BA:1929:G:H5"	2.46	0.45
26:BA:2154:A:C2	26:BA:2155:U:C4	3.05	0.45
26:BA:2218:G:O2'	26:BA:2219:U:H5'	2.17	0.45
26:BA:2331:G:N2	26:BA:2385:C:C5	2.85	0.45
26:BA:2337:G:H2'	26:BA:2337:G:N3	2.32	0.45
26:BA:2727:A:C2'	26:BA:2728:U:H5'	2.47	0.45
26:BA:2782:G:H2'	26:BA:2783:U:H5'	1.97	0.45
28:BD:172:VAL:CG2	28:BD:194:PRO:HD3	2.47	0.45
29:BE:97:ASN:HB3	29:BE:100:MET:HG3	1.98	0.45
30:BF:56:LEU:CD1	30:BF:86:CYS:O	2.65	0.45
30:BF:105:ILE:HD12	30:BF:138:PRO:HG3	1.99	0.45
32:BH:41:LYS:H	32:BH:44:ILE:HG23	1.80	0.45
33:BI:57:VAL:C	33:BI:68:PHE:CB	2.90	0.45
33:BI:100:ILE:HG12	33:BI:137:LEU:HD13	1.97	0.45
36:BL:30:THR:O	36:BL:31:GLY:C	2.60	0.45
39:BO:94:ARG:O	39:BO:97:PHE:N	2.48	0.45
52:B1:16:THR:CG2	52:B1:41:VAL:CG1	2.95	0.45
52:B1:44:GLN:HA	52:B1:44:GLN:OE1	2.15	0.45
56:BB:17:C:H2'	56:BB:18:G:O5'	2.17	0.45
1:AA:213:G:H2'	1:AA:214:C:H5'	1.99	0.45
1:AA:426:U:H5"	4:AD:36:ALA:CB	2.46	0.45
1:AA:469:C:O5'	1:AA:469:C:H6	2.00	0.45
1:AA:569:C:H5"	1:AA:570:G:OP1	2.17	0.45
1:AA:622:A:N7	1:AA:623:C:C6	2.84	0.45
1:AA:626:G:H2'	1:AA:627:G:C5'	2.46	0.45
1:AA:662:U:O2'	1:AA:836:G:O5'	2.35	0.45
1:AA:1038:C:O2'	1:AA:1039:G:H5'	2.17	0.45
1:AA:1098:C:C4	1:AA:1099:G:N7	2.85	0.45
1:AA:1167:A:H5"	1:AA:1168:U:P	2.57	0.45
1:AA:1203:C:N4	1:AA:1204:A:N6	2.64	0.45
1:AA:1206:G:H2'	1:AA:1207:G:O4'	2.17	0.45
1:AA:1307:U:H5"	13:AM:99:GLN:NE2	2.32	0.45
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.98	0.45
1:AA:1380:U:N3	7:AG:2:ARG:CZ	2.80	0.45
1:AA:1536:C:H3'	1:AA:1537:U:C5	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:101:THR:N	2:AB:174:GLU:OE1	2.49	0.45
2:AB:216:VAL:HA	2:AB:219:THR:CG2	2.46	0.45
4:AD:8:LEU:C	4:AD:10:LEU:N	2.74	0.45
4:AD:53:GLN:NE2	4:AD:202:LEU:HA	2.32	0.45
4:AD:56:GLU:OE2	4:AD:59:LYS:HE3	2.16	0.45
4:AD:143:SER:HB2	4:AD:178:GLU:HA	1.99	0.45
4:AD:157:ALA:O	4:AD:160:LEU:HD22	2.17	0.45
4:AD:193:ASP:C	4:AD:194:ILE:CG2	2.90	0.45
5:AE:40:ASP:O	5:AE:42:ASN:HB2	2.16	0.45
5:AE:140:ILE:O	5:AE:143:LEU:HB2	2.17	0.45
6:AF:64:VAL:HG13	6:AF:65:GLU:N	2.31	0.45
7:AG:65:LEU:O	7:AG:67:ASN:N	2.49	0.45
9:AI:95:SER:C	9:AI:98:ARG:HB2	2.41	0.45
10:AJ:17:LEU:HA	10:AJ:20:GLN:HB2	1.99	0.45
17:AQ:15:LYS:N	17:AQ:16:MET:CE	2.80	0.45
21:AU:32:ARG:HG2	21:AU:32:ARG:NH1	2.32	0.45
22:AV:5:C:O5’	22:AV:5:C:H6	1.99	0.45
22:AV:16:U:C6	23:AW:110:ARG:NH1	2.84	0.45
22:AV:29:G:O2’	22:AV:30:C:H5”	2.15	0.45
22:AV:238:A:H2’	22:AV:239:A:C8	2.51	0.45
22:AV:270:C:C2	22:AV:293:G:O6	2.70	0.45
22:AV:272:C:H4’	22:AV:291:A:C2	2.51	0.45
22:AV:334:A:OP2	22:AV:335:C:C4	2.70	0.45
24:AX:53:G:C6	24:AX:64:G:C6	3.04	0.45
25:AY:100:VAL:HG22	25:AY:101:LEU:N	2.32	0.45
25:AY:259:PHE:CE2	25:AY:275:ALA:HB2	2.51	0.45
25:AY:285:ASP:N	25:AY:285:ASP:OD2	2.48	0.45
25:AY:622:GLY:O	25:AY:623:ASP:C	2.58	0.45
26:BA:263:G:H2’	26:BA:264:C:O4’	2.16	0.45
26:BA:503:A:H5’	26:BA:504:A:H3’	1.99	0.45
26:BA:588:U:H2’	26:BA:589:U:C6	2.52	0.45
26:BA:704:G:H1’	26:BA:726:G:N2	2.32	0.45
26:BA:812:C:H5”	26:BA:1250:G:O2’	2.17	0.45
26:BA:928:A:C2	50:BZ:46:MET:HE1	2.52	0.45
26:BA:1059:G:O2’	33:BI:128:ILE:HA	2.16	0.45
26:BA:1075:C:C6	26:BA:1075:C:C3’	2.99	0.45
26:BA:1482:G:C6	26:BA:1508:A:N1	2.84	0.45
26:BA:1875:G:H2’	26:BA:1876:A:OP2	2.17	0.45
26:BA:1909:C:H5’	26:BA:1910:G:OP2	2.16	0.45
26:BA:1931:U:H5’	26:BA:1931:U:H6	1.81	0.45
26:BA:2526:G:H2’	26:BA:2527:C:O5’	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2800:A:C3'	26:BA:2801:G:C5'	2.91	0.45
26:BA:2820:A:C2'	26:BA:2821:A:OP1	2.64	0.45
30:BF:46:LYS:NZ	30:BF:83:PRO:HG2	2.32	0.45
30:BF:91:ARG:HG3	56:BB:43:C:O2'	2.16	0.45
30:BF:92:GLY:H	30:BF:95:MET:HE2	1.80	0.45
31:BG:72:ASN:ND2	31:BG:76:ILE:HD11	2.31	0.45
31:BG:120:ILE:O	31:BG:121:THR:HG23	2.16	0.45
32:BH:4:ILE:CG2	32:BH:5:LEU:N	2.80	0.45
33:BI:110:GLN:HG2	33:BI:110:GLN:O	2.16	0.45
35:BK:108:ARG:NH1	40:BP:34:GLY:CA	2.80	0.45
36:BL:127:VAL:CG1	36:BL:128:THR:N	2.80	0.45
39:BO:102:ARG:O	39:BO:105:ALA:HB3	2.17	0.45
40:BP:32:VAL:HG12	40:BP:34:GLY:O	2.17	0.45
40:BP:64:SER:O	40:BP:65:ASN:C	2.60	0.45
45:BU:82:VAL:CG1	45:BU:83:GLY:N	2.79	0.45
56:BB:43:C:C4	56:BB:45:A:C6	3.05	0.45
1:AA:64:G:C2	1:AA:67:C:C4	3.05	0.45
1:AA:102:G:C2	1:AA:103:U:C5	3.04	0.45
1:AA:355:C:C4	1:AA:356:A:N7	2.84	0.45
1:AA:456:A:C6	1:AA:457:G:C5	3.04	0.45
1:AA:642:A:C6	1:AA:643:C:N3	2.85	0.45
1:AA:646:G:C2	1:AA:647:C:C5	3.05	0.45
1:AA:675:A:C2'	1:AA:676:A:O5'	2.65	0.45
1:AA:1240:U:OP1	7:AG:115:MET:HB3	2.17	0.45
3:AC:6:PRO:HA	3:AC:174:LEU:HD11	1.97	0.45
3:AC:59:PRO:O	3:AC:60:ALA:CB	2.65	0.45
4:AD:156:ALA:C	4:AD:159:GLU:HB3	2.41	0.45
7:AG:21:LEU:CD1	7:AG:22:LEU:HD23	2.47	0.45
7:AG:61:PHE:CD1	7:AG:61:PHE:C	2.95	0.45
7:AG:100:MET:O	7:AG:101:ARG:C	2.60	0.45
9:AI:23:GLY:H	9:AI:60:LEU:HA	1.81	0.45
9:AI:30:ASN:C	9:AI:32:ARG:N	2.73	0.45
10:AJ:53:ILE:HG22	10:AJ:54:SER:N	2.31	0.45
10:AJ:53:ILE:HB	10:AJ:61:ALA:HB1	1.97	0.45
12:AL:87:LYS:HB2	12:AL:87:LYS:HE3	1.78	0.45
14:AN:48:LEU:HD23	14:AN:51:LEU:HD21	1.99	0.45
14:AN:85:ARG:O	14:AN:86:GLU:C	2.60	0.45
15:AO:59:VAL:HG13	26:BA:715:A:H1'	1.98	0.45
17:AQ:13:SER:CB	17:AQ:21:VAL:HG12	2.45	0.45
18:AR:24:ASP:C	18:AR:26:ALA:N	2.72	0.45
22:AV:22:G:H2'	22:AV:23:G:C8	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:42:U:C2	22:AV:43:G:N7	2.85	0.45
22:AV:150:G:C2	22:AV:151:C:C2	3.05	0.45
22:AV:164:G:H2'	22:AV:166:C:O2	2.17	0.45
22:AV:177:A:H2'	22:AV:178:G:H8	1.81	0.45
22:AV:178:G:H2'	22:AV:179:A:H8	1.82	0.45
22:AV:227:C:H2'	22:AV:228:G:C8	2.52	0.45
23:AW:63:TYR:C	23:AW:64:GLU:HG2	2.42	0.45
25:AY:25:LYS:HZ2	25:AY:86:GLY:CA	2.29	0.45
25:AY:443:HIS:C	25:AY:445:GLU:H	2.25	0.45
25:AY:510:VAL:HA	25:AY:570:GLY:HA3	1.98	0.45
26:BA:866:A:C4	26:BA:867:C:C6	3.04	0.45
26:BA:866:A:C4	26:BA:914:G:C5	3.05	0.45
26:BA:1439:A:N7	26:BA:1552:A:H2	2.15	0.45
26:BA:1979:U:H2'	26:BA:1980:G:O5'	2.16	0.45
26:BA:2070:A:C2	26:BA:2442:C:C2	3.05	0.45
26:BA:2703:C:C2	26:BA:2704:C:C5	3.05	0.45
26:BA:2768:U:H2'	26:BA:2769:U:O5'	2.17	0.45
27:BC:20:ASN:HA	27:BC:21:PRO:HD2	1.76	0.45
29:BE:138:LEU:HD22	29:BE:143:LEU:HB2	1.98	0.45
30:BF:34:THR:HA	30:BF:88:VAL:O	2.17	0.45
30:BF:147:ARG:HG2	30:BF:148:VAL:N	2.32	0.45
32:BH:25:TYR:HE1	32:BH:29:PHE:CD2	2.35	0.45
32:BH:46:PHE:O	32:BH:49:ALA:HB3	2.16	0.45
35:BK:113:MET:O	35:BK:116:ILE:N	2.50	0.45
37:BM:16:ARG:HD3	37:BM:16:ARG:N	2.31	0.45
37:BM:54:THR:C	37:BM:56:ALA:N	2.75	0.45
38:BN:20:MET:HG2	38:BN:21:PHE:N	2.31	0.45
38:BN:87:PHE:O	38:BN:88:ALA:C	2.60	0.45
41:BQ:40:LYS:O	41:BQ:41:ALA:C	2.55	0.45
45:BU:96:LYS:O	45:BU:97:SER:OG	2.34	0.45
1:AA:27:G:H2'	1:AA:28:A:O5'	2.17	0.45
1:AA:61:G:C5	1:AA:107:G:C2	3.04	0.45
1:AA:93:U:C2'	1:AA:94:G:H5"	2.47	0.45
1:AA:261:U:C5	20:AT:73:ARG:NH1	2.85	0.45
1:AA:309:A:C2	1:AA:310:G:C8	3.05	0.45
1:AA:696:A:H2'	1:AA:697:U:H6	1.82	0.45
1:AA:721:G:H4'	1:AA:722:G:O4'	2.17	0.45
1:AA:929:G:H4'	1:AA:1534:A:OP1	2.16	0.45
1:AA:950:U:H3'	13:AM:100:ARG:HH22	1.82	0.45
1:AA:1144:G:C5'	1:AA:1145:A:OP2	2.65	0.45
1:AA:1154:G:H2'	1:AA:1154:G:N3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1319:A:C8	1:AA:1323:G:C5	3.04	0.45
1:AA:1519:A:N7	1:AA:1520:C:H1'	2.31	0.45
2:AB:40:ILE:HG12	2:AB:41:ASN:N	2.33	0.45
2:AB:199:ILE:O	2:AB:200:PRO:O	2.35	0.45
3:AC:72:PRO:HG2	3:AC:104:GLU:HG3	1.98	0.45
4:AD:25:ARG:HD2	4:AD:30:LYS:CE	2.45	0.45
9:AI:7:GLY:HA3	9:AI:84:ARG:O	2.16	0.45
11:AK:127:ARG:HH11	11:AK:127:ARG:CG	2.30	0.45
15:AO:3:SER:HB3	15:AO:6:ALA:H	1.81	0.45
17:AQ:4:ILE:HG22	17:AQ:5:ARG:HG3	1.99	0.45
18:AR:54:LEU:HD13	18:AR:54:LEU:C	2.42	0.45
19:AS:58:PRO:C	19:AS:59:VAL:HG23	2.42	0.45
20:AT:69:ASN:N	20:AT:69:ASN:OD1	2.49	0.45
22:AV:5:C:H2'	22:AV:6:U:C6	2.51	0.45
22:AV:54:G:O4'	22:AV:54:G:P	2.75	0.45
22:AV:117:G:C6	22:AV:118:C:N4	2.85	0.45
22:AV:265:C:HO2'	22:AV:266:C:H5'	1.73	0.45
22:AV:360:A:O3'	22:AV:361:C:C6	2.70	0.45
24:AX:23:G:N3	24:AX:23:G:H2'	2.32	0.45
24:AX:37:U:C2'	24:AX:38:A:C5'	2.95	0.45
24:AX:60:A:H2'	24:AX:61:U:O4'	2.17	0.45
24:AX:62:C:C3'	24:AX:63:C:C5'	2.80	0.45
25:AY:83:ASP:O	25:AY:84:THR:OG1	2.32	0.45
25:AY:191:ASP:OD1	25:AY:191:ASP:N	2.50	0.45
25:AY:297:GLU:O	25:AY:297:GLU:HG3	2.16	0.45
26:BA:72:U:O2	49:BY:51:ALA:HB1	2.17	0.45
26:BA:277:G:H8	26:BA:361:G:O6	2.00	0.45
26:BA:825:A:H2'	26:BA:826:U:O4'	2.17	0.45
26:BA:1456:G:H2'	26:BA:1456:G:N3	2.31	0.45
26:BA:1519:G:H2'	26:BA:1520:U:O4'	2.17	0.45
26:BA:1838:C:C5	26:BA:1899:A:C6	3.04	0.45
26:BA:1875:G:O2'	26:BA:1876:A:P	2.75	0.45
26:BA:2016:U:H1'	51:B0:2:VAL:CG2	2.46	0.45
26:BA:2124:G:H2'	26:BA:2125:G:O4'	2.16	0.45
26:BA:2181:U:C2	26:BA:2182:U:C6	3.04	0.45
26:BA:2238:G:N3	26:BA:2238:G:H2'	2.32	0.45
29:BE:52:VAL:HG12	29:BE:53:THR:N	2.32	0.45
29:BE:189:THR:CG2	29:BE:191:ASP:N	2.80	0.45
30:BF:157:THR:CG2	30:BF:159:ALA:H	2.29	0.45
41:BQ:29:ARG:HE	51:B0:9:ARG:HH11	1.64	0.45
41:BQ:86:SER:HB2	42:BR:51:VAL:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BQ:90:ASP:OD1	42:BR:11:GLN:HG3	2.16	0.45
42:BR:40:MET:HA	42:BR:54:VAL:HG21	1.99	0.45
43:BS:7:HIS:CD2	43:BS:7:HIS:C	2.94	0.45
45:BU:84:PHE:O	45:BU:85:ARG:HB3	2.17	0.45
49:BY:9:LYS:HG2	49:BY:11:VAL:H	1.82	0.45
56:BB:53:A:H2'	56:BB:54:G:C5'	2.43	0.45
56:BB:61:G:H2'	56:BB:62:C:H6	1.82	0.45
1:AA:9:G:H5'	5:AE:107:GLY:HA3	1.99	0.44
1:AA:255:G:H5'	17:AQ:17:GLU:O	2.17	0.44
1:AA:264:C:N4	1:AA:265:G:C6	2.85	0.44
1:AA:452:A:H1'	16:AP:70:ARG:NH1	2.32	0.44
1:AA:654:G:C6	1:AA:753:A:N7	2.85	0.44
1:AA:757:U:H5"	1:AA:822:U:O2	2.17	0.44
1:AA:874:G:C6	1:AA:875:U:C4	3.05	0.44
1:AA:992:U:H4'	1:AA:993:G:O5'	2.17	0.44
1:AA:1032:G:H3'	1:AA:1032:G:N3	2.32	0.44
1:AA:1277:C:H1'	1:AA:1282:C:H1'	1.99	0.44
1:AA:1291:U:P	7:AG:36:SER:OG	2.75	0.44
2:AB:82:ALA:HA	2:AB:85:SER:HG	1.74	0.44
2:AB:132:GLU:O	2:AB:136:ARG:N	2.51	0.44
2:AB:142:LYS:C	2:AB:144:GLU:N	2.74	0.44
3:AC:71:ARG:HB3	3:AC:74:ILE:CG2	2.47	0.44
3:AC:135:ARG:O	3:AC:138:GLN:HB2	2.16	0.44
6:AF:4:TYR:OH	6:AF:68:GLN:HB3	2.17	0.44
6:AF:51:ILE:CG1	6:AF:52:ASN:HB2	2.47	0.44
7:AG:4:ARG:O	7:AG:5:VAL:C	2.59	0.44
7:AG:91:ARG:NE	7:AG:93:VAL:HG21	2.32	0.44
8:AH:39:LEU:C	8:AH:45:ILE:HG12	2.42	0.44
10:AJ:10:LEU:HB2	10:AJ:72:ARG:CB	2.41	0.44
12:AL:41:PRO:HD3	12:AL:47:ALA:O	2.17	0.44
14:AN:13:VAL:HA	14:AN:16:ALA:HB2	1.98	0.44
14:AN:43:ASN:C	14:AN:45:VAL:N	2.73	0.44
18:AR:44:THR:OG1	18:AR:46:THR:HB	2.17	0.44
19:AS:35:ARG:NH2	19:AS:76:THR:HG23	2.32	0.44
20:AT:78:LEU:O	20:AT:81:GLN:HB2	2.17	0.44
21:AU:13:VAL:O	21:AU:15:LEU:HD11	2.17	0.44
22:AV:20:A:O3'	22:AV:21:C:C5	2.67	0.44
22:AV:44:C:C5	22:AV:300:U:C5	3.05	0.44
22:AV:134:G:H2'	22:AV:135:A:H8	1.82	0.44
22:AV:212:U:O2'	22:AV:213:G:O5'	2.30	0.44
22:AV:304:C:C2'	22:AV:305:A:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:70:ASN:C	23:AW:71:VAL:HG23	2.41	0.44
23:AW:88:ARG:HB3	23:AW:89:LEU:HD23	1.99	0.44
24:AX:69:C:N4	24:AX:70:C:N4	2.65	0.44
26:BA:880:G:C4	26:BA:881:G:N7	2.85	0.44
26:BA:884:U:OP2	26:BA:886:A:C2	2.71	0.44
26:BA:891:G:HO2'	26:BA:892:A:C5'	2.30	0.44
26:BA:974:G:C2'	26:BA:974:G:N3	2.81	0.44
26:BA:1104:C:H2'	26:BA:1105:U:C6	2.52	0.44
26:BA:1107:G:C5	26:BA:1108:U:C5	3.05	0.44
26:BA:1461:C:C2'	26:BA:1462:C:O5'	2.65	0.44
26:BA:1461:C:H2'	26:BA:1462:C:O5'	2.16	0.44
26:BA:2120:G:C8	26:BA:2120:G:H3'	2.52	0.44
26:BA:2124:G:C2'	26:BA:2125:G:H5'	2.47	0.44
26:BA:2139:U:C2'	26:BA:2140:G:H5'	2.47	0.44
26:BA:2250:G:H8	26:BA:2250:G:O5'	1.99	0.44
26:BA:2343:U:H2'	26:BA:2344:U:C5	2.51	0.44
26:BA:2651:C:O2'	26:BA:2652:C:H5'	2.17	0.44
27:BC:26:GLY:O	27:BC:27:LYS:C	2.60	0.44
27:BC:221:GLY:C	27:BC:223:ALA:H	2.25	0.44
28:BD:107:VAL:HA	28:BD:206:ALA:H	1.82	0.44
32:BH:104:THR:HG22	32:BH:109:GLU:HA	1.98	0.44
33:BI:104:GLN:O	33:BI:105:LEU:HB2	2.17	0.44
37:BM:50:ARG:CG	37:BM:51:ARG:N	2.78	0.44
40:BP:30:TRP:CE2	40:BP:39:LEU:CD1	2.99	0.44
40:BP:30:TRP:CZ2	40:BP:39:LEU:HD11	2.53	0.44
45:BU:80:ASP:OD1	45:BU:95:PHE:HD2	2.00	0.44
46:BV:78:GLN:O	46:BV:87:GLN:HB2	2.17	0.44
56:BB:30:C:C3'	56:BB:31:C:H5'	2.46	0.44
56:BB:33:G:H2'	56:BB:34:A:C5'	2.46	0.44
1:AA:451:A:H5'	16:AP:70:ARG:HH22	1.82	0.44
1:AA:496:A:C2	1:AA:497:G:N7	2.85	0.44
1:AA:953:G:C2	1:AA:1229:A:C2	3.04	0.44
1:AA:1048:G:OP1	14:AN:2:LYS:HA	2.17	0.44
1:AA:1102:A:H2'	1:AA:1103:C:H5'	1.99	0.44
1:AA:1271:A:H2'	1:AA:1272:G:C8	2.52	0.44
1:AA:1388:C:H2'	1:AA:1389:C:C1'	2.48	0.44
1:AA:1416:G:C2	1:AA:1485:U:O2	2.70	0.44
1:AA:1441:A:H62	1:AA:1461:G:H21	1.65	0.44
2:AB:73:ARG:O	2:AB:74:ALA:CB	2.65	0.44
2:AB:211:LEU:C	2:AB:213:LEU:H	2.25	0.44
2:AB:216:VAL:C	2:AB:219:THR:HG23	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:71:ARG:HB3	3:AC:74:ILE:HG22	1.98	0.44
3:AC:100:ILE:O	3:AC:100:ILE:HG23	2.16	0.44
4:AD:101:VAL:CG1	4:AD:113:ALA:HB1	2.46	0.44
5:AE:100:GLU:CB	5:AE:121:ASN:CB	2.96	0.44
6:AF:5:GLU:HG2	6:AF:90:MET:HE3	2.00	0.44
6:AF:39:LEU:CD1	6:AF:40:GLU:N	2.81	0.44
7:AG:119:LEU:HD23	7:AG:123:LEU:CD2	2.46	0.44
8:AH:88:LYS:HG3	8:AH:89:ASP:H	1.82	0.44
9:AI:12:LYS:HG2	9:AI:12:LYS:O	2.17	0.44
9:AI:35:GLU:HA	9:AI:39:GLY:CA	2.47	0.44
11:AK:69:CYS:O	11:AK:70:ALA:C	2.59	0.44
13:AM:35:ALA:HB3	13:AM:58:GLU:OE1	2.17	0.44
14:AN:14:ALA:O	14:AN:18:LYS:HG3	2.18	0.44
16:AP:3:THR:HG22	16:AP:4:ILE:H	1.82	0.44
17:AQ:10:ARG:HH12	17:AQ:11:VAL:C	2.26	0.44
19:AS:43:MET:O	19:AS:46:LEU:HG	2.18	0.44
21:AU:9:GLU:OE2	21:AU:10:PRO:HD3	2.17	0.44
22:AV:46:U:O2	22:AV:305:A:C2	2.70	0.44
22:AV:55:G:C2	22:AV:56:C:C5	3.05	0.44
22:AV:144:U:C4’	22:AV:145:C:OP2	2.65	0.44
22:AV:223:G:HO2’	22:AV:224:A:P	2.40	0.44
22:AV:238:A:C2’	22:AV:239:A:O4’	2.65	0.44
22:AV:276:U:O5’	22:AV:276:U:H6	2.00	0.44
22:AV:295:C:H2’	22:AV:296:U:H6	1.83	0.44
25:AY:35:TYR:HH	25:AY:266:ASN:HB3	1.76	0.44
25:AY:138:LYS:C	25:AY:140:ASP:H	2.25	0.44
25:AY:227:ILE:O	25:AY:227:ILE:CG2	2.65	0.44
25:AY:227:ILE:CD1	25:AY:242:LEU:HA	2.45	0.44
25:AY:468:ARG:HH11	25:AY:468:ARG:CG	2.30	0.44
25:AY:539:ILE:CD1	25:AY:567:LEU:HD21	2.47	0.44
26:BA:771:G:C6	26:BA:772:C:C4	3.04	0.44
26:BA:877:A:C8	26:BA:878:A:N7	2.86	0.44
26:BA:889:C:OP1	26:BA:889:C:O4’	2.34	0.44
26:BA:910:A:C5	37:BM:12:MET:HA	2.50	0.44
26:BA:974:G:N3	26:BA:974:G:H2’	2.32	0.44
26:BA:1062:G:H21	33:BI:134:SER:HB3	1.83	0.44
26:BA:1072:C:P	26:BA:1075:C:N4	2.90	0.44
26:BA:1142:A:C2	26:BA:1144:A:N9	2.86	0.44
26:BA:1278:C:O2’	26:BA:1279:G:H5’	2.17	0.44
26:BA:1310:G:H1’	26:BA:1611:C:H5’	1.99	0.44
26:BA:1807:G:H2’	26:BA:1809:A:N7	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2144:G:O2'	26:BA:2145:C:H5	2.00	0.44
26:BA:2145:C:C5	26:BA:2147:A:C2	3.05	0.44
26:BA:2311:A:C8	30:BF:76:PHE:CD2	3.06	0.44
26:BA:2408:U:H2'	26:BA:2409:G:C8	2.52	0.44
26:BA:2571:U:H2'	26:BA:2572:A:OP1	2.17	0.44
26:BA:2585:U:O2'	26:BA:2586:U:C5'	2.66	0.44
26:BA:2874:C:C2'	26:BA:2875:C:H5'	2.47	0.44
27:BC:97:ASP:OD1	27:BC:97:ASP:C	2.59	0.44
28:BD:4:LEU:CD2	28:BD:101:PHE:HE1	2.31	0.44
28:BD:101:PHE:HE2	28:BD:203:VAL:HG12	1.81	0.44
30:BF:51:ASN:HD22	30:BF:146:ASP:HB3	1.83	0.44
30:BF:67:THR:N	30:BF:85:GLY:O	2.50	0.44
32:BH:6:LEU:CD1	32:BH:37:VAL:HG12	2.46	0.44
35:BK:77:ILE:HD12	40:BP:71:ARG:HG3	2.00	0.44
36:BL:81:ASP:OD2	36:BL:100:ILE:HD13	2.17	0.44
37:BM:111:GLU:OE1	37:BM:112:LEU:HA	2.17	0.44
38:BN:8:ARG:HD2	38:BN:43:GLU:CG	2.47	0.44
39:BO:74:VAL:O	39:BO:78:VAL:CG2	2.65	0.44
40:BP:80:VAL:CG1	40:BP:83:ILE:HD11	2.47	0.44
46:BV:24:ASN:OD1	46:BV:44:HIS:HB3	2.18	0.44
48:BX:30:PRO:HB2	48:BX:32:LEU:HG	1.98	0.44
50:BZ:41:PRO:O	50:BZ:45:GLY:N	2.49	0.44
56:BB:78:A:H61	56:BB:98:G:C2'	2.30	0.44
56:BB:99:A:C6	56:BB:100:G:C4	3.05	0.44
1:AA:57:G:H2'	1:AA:58:C:O4'	2.18	0.44
1:AA:340:U:H2'	1:AA:341:C:C6	2.47	0.44
1:AA:496:A:N3	1:AA:497:G:N7	2.65	0.44
1:AA:550:G:C5	1:AA:551:U:C5	3.05	0.44
1:AA:849:G:H2'	1:AA:850:U:O5'	2.17	0.44
1:AA:1055:A:C6	1:AA:1056:U:C6	3.05	0.44
1:AA:1107:C:C5	1:AA:1108:G:N7	2.86	0.44
1:AA:1387:G:H2'	1:AA:1388:C:C5'	2.28	0.44
1:AA:1539:C:C4'	21:AU:17:ARG:HG3	2.39	0.44
2:AB:15:PHE:HD1	2:AB:16:GLY:H	1.64	0.44
2:AB:172:ILE:O	2:AB:175:ALA:HB3	2.17	0.44
2:AB:211:LEU:C	2:AB:213:LEU:N	2.75	0.44
3:AC:35:ASP:C	3:AC:37:LYS:H	2.25	0.44
3:AC:79:LYS:C	3:AC:81:GLU:N	2.76	0.44
3:AC:171:ARG:O	3:AC:172:VAL:CG2	2.66	0.44
3:AC:199:VAL:O	3:AC:199:VAL:CG2	2.65	0.44
6:AF:10:VAL:HG13	6:AF:11:HIS:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:40:ARG:H	9:AI:44:ARG:HB3	1.82	0.44
12:AL:115:LYS:O	12:AL:116:TYR:CB	2.63	0.44
13:AM:8:ILE:HG22	13:AM:8:ILE:O	2.18	0.44
15:AO:18:ALA:O	15:AO:19:ASN:CG	2.61	0.44
16:AP:51:ARG:HH11	16:AP:51:ARG:HB3	1.82	0.44
22:AV:46:U:C2	22:AV:305:A:N1	2.85	0.44
22:AV:136:G:C2	22:AV:137:C:C5	3.05	0.44
22:AV:172:U:N1	22:AV:173:C:C6	2.85	0.44
22:AV:196:G:O2'	22:AV:197:A:OP2	2.36	0.44
23:AW:22:ALA:HB2	23:AW:81:LEU:HD12	1.99	0.44
25:AY:262:SER:OG	25:AY:265:LYS:HG3	2.17	0.44
25:AY:415:PRO:HB2	25:AY:421:GLN:HA	1.99	0.44
26:BA:72:U:H1'	49:BY:51:ALA:CB	2.48	0.44
26:BA:100:U:H4'	26:BA:101:A:O5'	2.17	0.44
26:BA:137:U:H2'	26:BA:140:C:N1	2.32	0.44
26:BA:637:A:H4'	26:BA:638:G:O5'	2.17	0.44
26:BA:889:C:N3	26:BA:891:G:N7	2.65	0.44
26:BA:1169:A:H8	26:BA:1169:A:O5'	2.00	0.44
26:BA:1351:C:H2'	26:BA:1352:U:O4'	2.18	0.44
26:BA:1509:A:H1'	26:BA:1510:G:H5'	1.99	0.44
26:BA:1712:U:C4	26:BA:1713:A:C6	3.05	0.44
26:BA:2107:G:C2	26:BA:2108:A:C8	3.05	0.44
26:BA:2193:G:H2'	26:BA:2194:U:C5	2.51	0.44
26:BA:2349:G:O6	26:BA:2350:C:C4	2.70	0.44
26:BA:2544:G:C2'	26:BA:2545:G:O5'	2.65	0.44
26:BA:2644:G:C2'	26:BA:2645:G:H5'	2.47	0.44
26:BA:2658:C:O2	26:BA:2658:C:H2'	2.16	0.44
28:BD:187:LEU:O	28:BD:188:LEU:HD23	2.17	0.44
29:BE:54:GLY:N	29:BE:74:LYS:HE2	2.32	0.44
29:BE:164:LEU:HD12	29:BE:164:LEU:HA	1.79	0.44
30:BF:69:ALA:CB	30:BF:82:TYR:O	2.65	0.44
31:BG:145:ALA:O	31:BG:148:ARG:HB3	2.16	0.44
32:BH:14:SER:OG	32:BH:16:GLY:C	2.60	0.44
35:BK:103:VAL:O	35:BK:122:VAL:HB	2.17	0.44
39:BO:29:HIS:CD2	39:BO:30:ARG:H	2.36	0.44
42:BR:21:ARG:NH1	42:BR:93:PHE:CZ	2.86	0.44
42:BR:83:TYR:CD1	42:BR:83:TYR:C	2.95	0.44
44:BT:3:ARG:O	44:BT:6:ARG:HB3	2.18	0.44
50:BZ:2:LYS:H	50:BZ:2:LYS:HD3	1.82	0.44
56:BB:102:G:H2'	56:BB:103:U:C5'	2.48	0.44
1:AA:952:U:H4'	1:AA:964:A:H61	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1025:U:OP2	1:AA:1025:U:C6	2.70	0.44
1:AA:1077:G:N1	1:AA:1080:A:OP2	2.51	0.44
1:AA:1104:G:OP1	2:AB:96:LEU:HD11	2.14	0.44
1:AA:1205:U:O2	1:AA:1205:U:C2'	2.66	0.44
1:AA:1286:U:O2	1:AA:1286:U:C2'	2.65	0.44
2:AB:19:THR:O	2:AB:20:ARG:CZ	2.65	0.44
2:AB:53:LEU:HD12	2:AB:56:LEU:HD12	1.98	0.44
2:AB:65:LYS:HE3	2:AB:158:ASP:OD2	2.17	0.44
3:AC:119:ILE:O	3:AC:121:SER:N	2.50	0.44
4:AD:106:PHE:CG	4:AD:144:ILE:HD11	2.53	0.44
7:AG:25:PHE:O	7:AG:27:ASN:N	2.51	0.44
11:AK:22:ILE:CG1	11:AK:22:ILE:O	2.65	0.44
12:AL:63:THR:CG2	12:AL:91:GLY:O	2.65	0.44
13:AM:55:LEU:O	13:AM:58:GLU:N	2.50	0.44
13:AM:94:LEU:C	13:AM:108:ARG:HG2	2.43	0.44
16:AP:12:LYS:O	16:AP:13:LYS:HB2	2.17	0.44
21:AU:16:ARG:HH11	21:AU:19:LYS:HG2	1.83	0.44
22:AV:34:A:C3'	22:AV:35:C:H5'	2.43	0.44
22:AV:40:G:N1	22:AV:316:A:N3	2.64	0.44
22:AV:66:C:C2'	22:AV:67:G:O5'	2.66	0.44
22:AV:72:A:N3	22:AV:72:A:C2'	2.77	0.44
25:AY:139:MET:CE	25:AY:146:LEU:HB2	2.45	0.44
25:AY:199:ILE:HD12	25:AY:199:ILE:C	2.42	0.44
25:AY:497:PHE:O	25:AY:498:ILE:O	2.36	0.44
25:AY:616:TYR:O	25:AY:617:MET:C	2.60	0.44
26:BA:21:A:O2'	26:BA:22:C:H5'	2.17	0.44
26:BA:1079:C:C5	26:BA:1088:A:C2	3.05	0.44
26:BA:1085:A:C2'	26:BA:1086:A:C2	2.91	0.44
26:BA:1280:G:H2'	26:BA:1281:G:O5'	2.18	0.44
26:BA:1840:G:C6	26:BA:1841:U:C4	3.05	0.44
26:BA:1925:C:C4'	26:BA:1926:U:C5	3.00	0.44
26:BA:2058:A:O5'	26:BA:2058:A:H8	2.00	0.44
26:BA:2103:C:O2'	26:BA:2104:C:H5'	2.17	0.44
26:BA:2172:U:OP1	26:BA:2174:C:H5	1.98	0.44
26:BA:2318:G:HO2'	26:BA:2319:G:H5'	1.80	0.44
26:BA:2585:U:O2'	26:BA:2586:U:O5'	2.33	0.44
26:BA:2591:C:OP2	27:BC:236:GLY:O	2.35	0.44
27:BC:234:GLY:HA2	27:BC:238:ASN:HB2	1.98	0.44
28:BD:105:LYS:NZ	28:BD:105:LYS:HB3	2.33	0.44
29:BE:171:ASP:OD1	29:BE:171:ASP:C	2.60	0.44
31:BG:1:SER:C	31:BG:3:VAL:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BL:99:ASN:O	36:BL:99:ASN:ND2	2.50	0.44
37:BM:111:GLU:CD	37:BM:111:GLU:O	2.59	0.44
43:BS:4:ILE:N	43:BS:4:ILE:CD1	2.80	0.44
44:BT:18:GLU:O	44:BT:22:THR:HG23	2.17	0.44
44:BT:67:VAL:HG12	44:BT:68:LYS:N	2.32	0.44
52:B1:21:THR:HG23	54:B3:33:THR:HG23	2.00	0.44
56:BB:85:G:H2'	56:BB:86:G:O5'	2.18	0.44
56:BB:94:A:C5	56:BB:95:U:C5	3.06	0.44
1:AA:240:G:C2	1:AA:287:U:O2	2.71	0.44
1:AA:404:G:H2'	1:AA:405:U:O4'	2.18	0.44
1:AA:451:A:C8	1:AA:452:A:C2	3.06	0.44
1:AA:459:A:C2	1:AA:460:A:C5	3.05	0.44
1:AA:836:G:C5	1:AA:851:G:C6	3.06	0.44
1:AA:848:C:H2'	1:AA:849:G:O5'	2.17	0.44
1:AA:923:A:H8	1:AA:923:A:O5'	2.00	0.44
1:AA:1202:U:O2	14:AN:82:ILE:HG21	2.17	0.44
2:AB:80:LYS:CG	2:AB:84:LEU:HD22	2.47	0.44
4:AD:57:LYS:N	4:AD:199:ILE:CG2	2.80	0.44
4:AD:119:HIS:C	4:AD:120:LYS:CG	2.91	0.44
5:AE:135:VAL:HG22	5:AE:136:VAL:N	2.32	0.44
5:AE:150:GLU:C	5:AE:152:VAL:N	2.75	0.44
9:AI:56:MET:HE2	9:AI:57:VAL:H	1.83	0.44
11:AK:37:GLN:OE1	11:AK:37:GLN:N	2.50	0.44
11:AK:110:THR:HG23	21:AU:4:LYS:HA	2.00	0.44
12:AL:34:THR:O	12:AL:35:ARG:HG3	2.17	0.44
15:AO:61:GLN:O	15:AO:62:ARG:C	2.61	0.44
16:AP:78:VAL:O	16:AP:79:ASN:C	2.60	0.44
22:AV:24:G:H2'	22:AV:25:A:H8	1.82	0.44
22:AV:361:C:O5'	22:AV:361:C:H6	2.00	0.44
23:AW:32:LYS:HD3	23:AW:63:TYR:CE1	2.53	0.44
23:AW:81:LEU:CD2	23:AW:85:GLU:CG	2.92	0.44
25:AY:20:HIS:CD2	25:AY:117:GLN:HB3	2.53	0.44
25:AY:181:LEU:HD23	25:AY:182:ARG:NH1	2.33	0.44
25:AY:590:ILE:C	25:AY:592:GLU:N	2.73	0.44
26:BA:186:G:C2	26:BA:187:G:C5	3.06	0.44
26:BA:272:A:C2	26:BA:366:C:O2	2.70	0.44
26:BA:272:A:H2'	26:BA:273:G:O4'	2.17	0.44
26:BA:825:A:C2	26:BA:833:A:C2	3.05	0.44
26:BA:897:C:C2'	26:BA:898:C:H6	2.21	0.44
26:BA:919:U:C2	26:BA:920:A:C8	3.06	0.44
26:BA:924:G:O2'	26:BA:925:A:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1021:A:H3'	26:BA:1021:A:N3	2.33	0.44
26:BA:1084:A:C2'	26:BA:1085:A:C8	3.00	0.44
26:BA:1386:C:H2'	26:BA:1387:A:C8	2.52	0.44
26:BA:1414:C:H6	26:BA:1414:C:H3'	1.83	0.44
26:BA:1494:A:N1	26:BA:1495:A:C4	2.85	0.44
26:BA:1724:G:C6	26:BA:1725:U:C4	3.05	0.44
26:BA:2091:C:O3'	48:BX:55:MET:HE1	2.16	0.44
26:BA:2147:A:C8	26:BA:2147:A:H3'	2.52	0.44
26:BA:2186:G:C4	26:BA:2187:U:C5	3.05	0.44
26:BA:2531:A:C2	26:BA:2532:G:N9	2.86	0.44
26:BA:2853:C:C2	26:BA:2854:G:C8	3.06	0.44
27:BC:24:HIS:CD2	27:BC:79:ARG:NH2	2.85	0.44
27:BC:74:PRO:O	27:BC:75:ALA:HB2	2.18	0.44
28:BD:2:ILE:HG23	28:BD:88:GLU:OE2	2.18	0.44
31:BG:71:LEU:HD12	31:BG:71:LEU:H	1.79	0.44
31:BG:124:CYS:C	31:BG:126:THR:N	2.74	0.44
32:BH:72:ILE:CD1	32:BH:140:ALA:O	2.65	0.44
35:BK:13:ASN:HD22	35:BK:98:ARG:CB	2.30	0.44
41:BQ:40:LYS:C	41:BQ:42:GLY:H	2.26	0.44
45:BU:5:ARG:O	45:BU:6:ARG:O	2.36	0.44
46:BV:48:MET:HA	46:BV:51:GLN:HG2	1.99	0.44
1:AA:66:A:O4'	1:AA:173:U:C4	2.71	0.44
1:AA:788:U:C2'	1:AA:789:U:H5'	2.47	0.44
1:AA:900:A:H2'	1:AA:901:A:C8	2.52	0.44
1:AA:1036:A:H2'	1:AA:1036:A:N3	2.32	0.44
1:AA:1124:G:C3'	1:AA:1145:A:N6	2.69	0.44
1:AA:1135:U:O4'	1:AA:1135:U:OP2	2.35	0.44
1:AA:1279:G:H22	10:AJ:45:ARG:HE	1.60	0.44
2:AB:63:LYS:CB	2:AB:65:LYS:HE2	2.48	0.44
2:AB:134:LEU:HA	2:AB:137:THR:HG23	2.00	0.44
4:AD:115:GLN:HE21	4:AD:115:GLN:HA	1.82	0.44
6:AF:62:MET:O	6:AF:63:ASN:CB	2.66	0.44
6:AF:70:VAL:HA	6:AF:73:GLU:HG2	1.98	0.44
9:AI:6:TYR:CE2	9:AI:17:ARG:CB	3.01	0.44
9:AI:11:ARG:CG	9:AI:11:ARG:NH1	2.80	0.44
9:AI:30:ASN:O	9:AI:32:ARG:HB2	2.18	0.44
9:AI:83:THR:HG21	9:AI:102:PHE:CB	2.48	0.44
9:AI:122:ARG:NH1	9:AI:123:ARG:O	2.51	0.44
11:AK:41:LEU:CB	11:AK:76:TYR:HE2	2.29	0.44
11:AK:111:ASP:CG	11:AK:113:THR:HG23	2.42	0.44
14:AN:64:CYS:HB2	14:AN:80:SER:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:82:ILE:HG22	14:AN:83:LYS:N	2.33	0.44
15:AO:34:GLN:CB	15:AO:58:MET:HE2	2.48	0.44
15:AO:52:ARG:O	15:AO:55:LEU:HB3	2.18	0.44
18:AR:71:ASP:OD1	18:AR:72:ARG:HG2	2.17	0.44
20:AT:67:HIS:C	20:AT:68:LYS:HG3	2.42	0.44
20:AT:73:ARG:O	20:AT:76:ALA:HB3	2.17	0.44
20:AT:79:THR:O	20:AT:80:ALA:C	2.60	0.44
22:AV:12:U:H3'	22:AV:12:U:OP1	2.16	0.44
22:AV:26:U:H2'	22:AV:27:U:C6	2.50	0.44
22:AV:130:C:N3	22:AV:132:U:C4	2.86	0.44
22:AV:308:U:C1'	22:AV:309:A:O5'	2.66	0.44
22:AV:317:G:C2'	22:AV:318:G:O4'	2.63	0.44
22:AV:322:U:N3	22:AV:323:A:C6	2.84	0.44
22:AV:325:G:N2	22:AV:326:A:N9	2.66	0.44
22:AV:334:A:O3'	22:AV:335:C:C2	2.71	0.44
23:AW:62:PRO:O	23:AW:70:ASN:CG	2.60	0.44
24:AX:59:A:C2	24:AX:62:C:C5	3.05	0.44
25:AY:87:HIS:NE2	25:AY:120:THR:HG21	2.32	0.44
25:AY:238:THR:HG23	25:AY:240:GLU:HG2	2.00	0.44
25:AY:260:LEU:HD13	25:AY:260:LEU:N	2.33	0.44
25:AY:309:LEU:HD12	25:AY:309:LEU:C	2.43	0.44
25:AY:539:ILE:O	25:AY:540:PRO:C	2.58	0.44
26:BA:86:G:C2	26:BA:87:U:C4	3.06	0.44
26:BA:120:U:H4'	26:BA:121:G:H5"	1.99	0.44
26:BA:306:U:O4	26:BA:307:G:C6	2.70	0.44
26:BA:417:C:H2'	26:BA:418:C:C6	2.49	0.44
26:BA:707:G:N2	26:BA:708:G:H1'	2.32	0.44
26:BA:760:G:H2'	26:BA:761:A:H5'	1.97	0.44
26:BA:881:G:C2	26:BA:882:G:C5	3.06	0.44
26:BA:1249:U:H4'	41:BQ:3:VAL:CG1	2.48	0.44
26:BA:1535:A:C5'	26:BA:1536:C:C5	3.00	0.44
26:BA:2508:G:HO2'	26:BA:2554:U:HO2'	1.65	0.44
27:BC:83:ASP:OD1	27:BC:84:PRO:CD	2.66	0.44
28:BD:131:ASP:C	28:BD:133:THR:H	2.25	0.44
29:BE:183:PHE:CD1	29:BE:183:PHE:N	2.85	0.44
32:BH:54:LEU:HD22	32:BH:54:LEU:HA	1.80	0.44
32:BH:132:PHE:CE2	32:BH:142:VAL:HG23	2.52	0.44
33:BI:29:GLN:HG2	33:BI:29:GLN:O	2.17	0.44
33:BI:103:ALA:O	33:BI:105:LEU:N	2.50	0.44
33:BI:126:ARG:CB	33:BI:129:GLU:CD	2.91	0.44
1:AA:73:C:HO2'	1:AA:74:A:H5"	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:100:G:C5	1:AA:101:A:C5	3.06	0.44
1:AA:243:A:H4’	1:AA:244:U:H5”	1.99	0.44
1:AA:436:C:H4’	4:AD:152:SER:HB2	2.00	0.44
1:AA:489:C:H2’	1:AA:490:C:O5’	2.18	0.44
1:AA:508:U:H4’	1:AA:509:A:OP1	2.17	0.44
1:AA:583:A:H2’	1:AA:584:G:H5’	1.99	0.44
1:AA:854:U:H2’	1:AA:855:U:H6	1.82	0.44
1:AA:1004:A:C2	1:AA:1026:G:N3	2.85	0.44
1:AA:1133:G:C4	1:AA:1134:G:C8	3.06	0.44
1:AA:1163:A:H2’	1:AA:1164:G:C8	2.52	0.44
1:AA:1212:U:O2	1:AA:1212:U:H2’	2.18	0.44
1:AA:1335:U:H5”	1:AA:1336:C:H5’	1.99	0.44
5:AE:33:THR:HG21	5:AE:49:TYR:OH	2.18	0.44
6:AF:24:ARG:O	6:AF:27:ALA:HB3	2.17	0.44
8:AH:79:ARG:HB2	8:AH:80:PRO:HD2	2.00	0.44
8:AH:111:THR:O	8:AH:112:ASP:C	2.61	0.44
9:AI:24:ASN:O	9:AI:60:LEU:N	2.51	0.44
9:AI:29:ILE:CD1	9:AI:38:PHE:HE2	2.30	0.44
9:AI:117:LEU:HD12	9:AI:117:LEU:N	2.33	0.44
10:AJ:58:ASN:C	10:AJ:59:LYS:HZ2	2.25	0.44
13:AM:21:ILE:CG2	13:AM:22:TYR:O	2.65	0.44
14:AN:26:LEU:O	14:AN:27:LYS:CB	2.65	0.44
14:AN:87:ALA:HA	14:AN:90:ARG:NH1	2.33	0.44
16:AP:60:TRP:HB3	16:AP:65:ALA:HB2	2.00	0.44
17:AQ:10:ARG:HH11	17:AQ:10:ARG:HG3	1.83	0.44
17:AQ:54:ILE:O	17:AQ:54:ILE:HG23	2.17	0.44
17:AQ:57:VAL:C	17:AQ:58:VAL:CG1	2.89	0.44
17:AQ:74:LEU:HD12	17:AQ:74:LEU:C	2.43	0.44
20:AT:71:ALA:O	20:AT:74:HIS:HB2	2.18	0.44
22:AV:19:G:O6	23:AW:23:GLY:N	2.51	0.44
22:AV:38:A:O2’	22:AV:39:A:O4’	2.36	0.44
22:AV:68:U:C4’	22:AV:69:A:OP1	2.61	0.44
22:AV:208:G:N2	22:AV:209:C:C2	2.86	0.44
22:AV:269:C:O2’	22:AV:270:C:H5”	2.18	0.44
22:AV:312:A:H2’	22:AV:313:C:H6	1.75	0.44
23:AW:31:VAL:HA	23:AW:34:LEU:CD1	2.48	0.44
24:AX:31:G:O2’	24:AX:32:G:O5’	2.33	0.44
25:AY:162:VAL:HG23	25:AY:255:ILE:HG13	1.99	0.44
25:AY:519:ARG:CZ	25:AY:678:GLU:H	2.30	0.44
25:AY:529:ILE:HD11	25:AY:567:LEU:CD1	2.48	0.44
26:BA:67:U:O2	26:BA:88:G:C2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:71:A:C5’	26:BA:72:U:H3’	2.47	0.44
26:BA:896:A:C1’	26:BA:897:C:OP1	2.65	0.44
26:BA:1039:A:C2’	26:BA:1040:A:O5’	2.66	0.44
26:BA:1078:U:O2	26:BA:1088:A:C2	2.71	0.44
26:BA:1082:U:H6	26:BA:1082:U:H3’	1.83	0.44
26:BA:1464:G:O2’	26:BA:1465:G:H5’	2.18	0.44
26:BA:1494:A:N1	26:BA:1495:A:N3	2.65	0.44
26:BA:1586:A:H3’	26:BA:1586:A:C8	2.52	0.44
26:BA:1693:U:O4	26:BA:1977:A:C5	2.71	0.44
26:BA:1737:G:C6	26:BA:1738:G:N2	2.86	0.44
26:BA:1744:A:H5”	26:BA:1745:A:OP2	2.18	0.44
26:BA:1826:G:O2’	26:BA:1971:U:OP2	2.36	0.44
26:BA:1915:U:H3’	26:BA:1916:A:H8	1.83	0.44
26:BA:2097:A:N1	26:BA:2193:G:C6	2.86	0.44
26:BA:2403:C:C2’	26:BA:2404:U:H5’	2.48	0.44
26:BA:2516:A:C6	26:BA:2517:C:C4	3.06	0.44
26:BA:2550:G:O2’	26:BA:2551:C:H5’	2.16	0.44
31:BG:59:ASP:HB2	31:BG:62:ALA:HB3	1.98	0.44
31:BG:68:ARG:HD3	31:BG:68:ARG:C	2.43	0.44
33:BI:10:LEU:O	33:BI:23:VAL:HG11	2.18	0.44
36:BL:30:THR:O	36:BL:32:GLY:N	2.50	0.44
36:BL:110:VAL:O	36:BL:110:VAL:HG12	2.17	0.44
38:BN:70:THR:O	38:BN:71:ARG:C	2.58	0.44
39:BO:2:ASP:O	39:BO:4:LYS:N	2.51	0.44
40:BP:8:GLU:HB3	40:BP:54:LEU:HB2	1.98	0.44
43:BS:65:ASP:C	43:BS:67:ASP:H	2.25	0.44
43:BS:85:ILE:CG2	43:BS:86:MET:N	2.81	0.44
44:BT:12:ARG:N	44:BT:12:ARG:HD2	2.32	0.44
45:BU:73:ASN:O	45:BU:74:ALA:C	2.59	0.44
48:BX:57:VAL:HG12	48:BX:58:ILE:N	2.32	0.44
49:BY:15:ASN:O	49:BY:19:LEU:HG	2.18	0.44
53:B2:28:ARG:C	53:B2:30:VAL:N	2.75	0.44
54:B3:3:ILE:HG21	54:B3:62:PRO:HG3	2.00	0.44
56:BB:51:G:O2’	56:BB:52:A:H5’	2.18	0.44
56:BB:78:A:C2	56:BB:99:A:C4	3.05	0.44
1:AA:27:G:O2’	1:AA:28:A:O5’	2.34	0.44
1:AA:199:A:C2	1:AA:200:G:C5	3.06	0.44
1:AA:250:A:N3	1:AA:250:A:H5’	2.33	0.44
1:AA:287:U:H2’	1:AA:288:A:C8	2.53	0.44
1:AA:320:A:C2	1:AA:334:C:N3	2.86	0.44
1:AA:445:G:H2’	1:AA:446:G:O4’	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:654:G:C6	1:AA:753:A:C8	3.06	0.44
1:AA:674:G:C2'	1:AA:675:A:O5'	2.66	0.44
1:AA:749:A:N1	1:AA:750:C:N3	2.66	0.44
1:AA:1022:A:C6	1:AA:1023:U:C4	3.06	0.44
1:AA:1368:A:OP2	9:AI:115:VAL:N	2.51	0.44
2:AB:47:PRO:HA	2:AB:50:ASN:ND2	2.33	0.44
2:AB:131:LYS:O	2:AB:132:GLU:C	2.60	0.44
2:AB:135:MET:CA	2:AB:138:ARG:HG2	2.48	0.44
2:AB:168:GLU:O	2:AB:169:HIS:C	2.61	0.44
3:AC:140:ALA:HB1	3:AC:148:ILE:HD12	2.00	0.44
5:AE:55:VAL:CB	5:AE:56:PRO:CD	2.94	0.44
6:AF:41:ASP:C	6:AF:41:ASP:OD2	2.60	0.44
6:AF:69:GLU:O	6:AF:72:ASP:HB3	2.18	0.44
7:AG:91:ARG:O	7:AG:95:ARG:HB2	2.17	0.44
11:AK:52:ARG:O	11:AK:55:ARG:HG3	2.18	0.44
13:AM:65:GLU:O	13:AM:68:LEU:HB3	2.18	0.44
13:AM:113:LYS:HB3	13:AM:114:PRO:CD	2.46	0.44
14:AN:7:ALA:HA	14:AN:10:VAL:HG23	1.99	0.44
15:AO:56:LEU:O	15:AO:57:ARG:C	2.60	0.44
16:AP:16:PHE:C	16:AP:16:PHE:HD1	2.23	0.44
21:AU:18:PHE:O	21:AU:21:SER:HB2	2.18	0.44
22:AV:39:A:C2'	22:AV:39:A:N3	2.80	0.44
22:AV:47:G:O2'	22:AV:48:C:C5'	2.65	0.44
22:AV:109:C:H2'	22:AV:110:U:C6	2.50	0.44
22:AV:145:C:H2'	22:AV:146:C:C5	2.53	0.44
22:AV:204:G:O2'	22:AV:205:G:OP2	2.30	0.44
22:AV:259:G:C5	22:AV:260:C:C5	3.05	0.44
22:AV:346:C:H2'	22:AV:347:PSU:C1'	2.48	0.44
23:AW:24:ILE:CG1	23:AW:26:LEU:HD21	2.44	0.44
25:AY:388:THR:HG21	25:AY:399:LEU:HD13	2.00	0.44
25:AY:468:ARG:C	25:AY:470:PHE:N	2.73	0.44
25:AY:539:ILE:N	25:AY:540:PRO:CD	2.81	0.44
25:AY:539:ILE:CA	25:AY:542:VAL:HG12	2.44	0.44
26:BA:108:G:H2'	26:BA:109:C:C5'	2.48	0.44
26:BA:327:G:H2'	26:BA:328:U:O4'	2.18	0.44
26:BA:382:A:C2'	26:BA:383:C:O5'	2.65	0.44
26:BA:527:C:H4'	26:BA:528:A:O5'	2.18	0.44
26:BA:634:C:H2'	26:BA:635:C:O4'	2.17	0.44
26:BA:771:G:H2'	26:BA:772:C:H5'	1.99	0.44
26:BA:852:U:H2'	26:BA:853:C:C6	2.53	0.44
26:BA:878:A:H2'	26:BA:879:G:H8	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1069:A:H4'	26:BA:1070:A:C8	2.50	0.44
26:BA:1414:C:C6	26:BA:1415:U:C5	3.06	0.44
26:BA:1956:U:O2	26:BA:1956:U:H2'	2.17	0.44
26:BA:2247:A:H2'	26:BA:2248:C:C6	2.52	0.44
26:BA:2297:A:C6	26:BA:2298:A:N7	2.85	0.44
26:BA:2415:G:C2'	26:BA:2416:C:O5'	2.65	0.44
27:BC:7:PRO:CB	27:BC:13:ARG:HB2	2.47	0.44
27:BC:30:ALA:HB3	27:BC:31:PRO:HD3	1.98	0.44
27:BC:176:ARG:HH21	27:BC:176:ARG:HG2	1.82	0.44
28:BD:63:PRO:O	28:BD:64:GLU:C	2.60	0.44
30:BF:79:ARG:HG2	30:BF:80:GLN:H	1.83	0.44
33:BI:16:MET:HA	33:BI:16:MET:CE	2.48	0.44
44:BT:51:PHE:N	44:BT:51:PHE:CD1	2.86	0.44
45:BU:60:LYS:HG3	45:BU:61:GLU:H	1.82	0.44
46:BV:80:HIS:CE1	46:BV:83:LYS:CE	3.01	0.44
50:BZ:34:THR:HG22	50:BZ:35:VAL:H	1.82	0.44
53:B2:1:MET:H1	53:B2:1:MET:HG3	1.67	0.44
56:BB:20:G:C2	56:BB:64:G:N3	2.86	0.44
56:BB:33:G:C2'	56:BB:34:A:C5'	2.94	0.44
1:AA:33:A:O2'	1:AA:363:A:H1'	2.18	0.44
1:AA:140:U:C2'	1:AA:141:G:O5'	2.66	0.44
1:AA:190:A:C8	1:AA:190:A:H3'	2.53	0.44
1:AA:367:U:O2'	1:AA:368:U:H4'	2.18	0.44
1:AA:412:A:H4'	1:AA:412:A:OP1	2.18	0.44
1:AA:438:U:N3	1:AA:494:G:C6	2.86	0.44
1:AA:588:G:C6	1:AA:589:U:C2	3.05	0.44
1:AA:636:U:H5"	17:AQ:5:ARG:HG2	1.99	0.44
1:AA:1226:C:C5	13:AM:102:LYS:CA	3.01	0.44
1:AA:1375:A:C6	1:AA:1376:U:C4	3.06	0.44
1:AA:1426:G:C2'	1:AA:1427:C:O5'	2.66	0.44
1:AA:1481:U:O2	1:AA:1481:U:C2'	2.63	0.44
1:AA:1504:G:OP2	1:AA:1507:A:O2'	2.28	0.44
1:AA:1533:C:C6	1:AA:1533:C:OP2	2.71	0.44
1:AA:1535:C:H2'	1:AA:1536:C:C6	2.53	0.44
2:AB:53:LEU:HD12	2:AB:216:VAL:HA	2.00	0.44
4:AD:3:TYR:O	4:AD:3:TYR:HD1	2.00	0.44
4:AD:55:ARG:NH2	4:AD:58:GLN:HG2	2.32	0.44
6:AF:14:GLN:OE1	6:AF:17:GLN:HB2	2.18	0.44
7:AG:94:ARG:C	7:AG:96:ASN:N	2.74	0.44
8:AH:46:GLU:HA	8:AH:63:LYS:HG2	1.98	0.44
10:AJ:40:ILE:HB	10:AJ:73:LEU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:42:LEU:O	10:AJ:43:PRO:O	2.36	0.44
12:AL:93:ARG:C	12:AL:94:TYR:CG	2.95	0.44
19:AS:10:ILE:HG21	19:AS:40:PHE:HE2	1.81	0.44
20:AT:34:VAL:HG12	20:AT:38:ILE:HD11	1.99	0.44
22:AV:20:A:C8	22:AV:21:C:C4	3.06	0.44
22:AV:34:A:C2	22:AV:321:G:C2	3.06	0.44
22:AV:66:C:O2'	22:AV:67:G:C5'	2.64	0.44
22:AV:119:U:H2'	22:AV:120:U:O5'	2.17	0.44
22:AV:200:G:H2'	22:AV:201:C:H5'	1.98	0.44
23:AW:86:LEU:HD23	23:AW:86:LEU:C	2.43	0.44
25:AY:369:LEU:HD12	25:AY:369:LEU:N	2.33	0.44
25:AY:414:GLU:C	25:AY:474:ALA:HB1	2.43	0.44
26:BA:96:C:O2'	26:BA:97:C:H5'	2.17	0.44
26:BA:528:A:C2	26:BA:2043:C:C4'	3.00	0.44
26:BA:867:C:C3'	26:BA:868:U:C5'	2.89	0.44
26:BA:1045:C:C3'	26:BA:1046:A:C5'	2.96	0.44
26:BA:1070:A:C6	33:BI:9:LYS:O	2.71	0.44
26:BA:1301:A:C4	26:BA:1303:G:N7	2.86	0.44
26:BA:1583:A:N3	26:BA:1583:A:O4'	2.49	0.44
26:BA:2107:G:N2	26:BA:2108:A:H1'	2.32	0.44
26:BA:2152:G:N7	26:BA:2153:C:C5	2.85	0.44
26:BA:2419:U:H2'	26:BA:2420:C:C6	2.53	0.44
26:BA:2568:U:H2'	26:BA:2569:G:O4'	2.18	0.44
26:BA:2650:U:H2'	26:BA:2651:C:C6	2.53	0.44
26:BA:2667:C:N3	31:BG:109:SER:OG	2.49	0.44
27:BC:32:LEU:HD23	27:BC:32:LEU:HA	1.79	0.44
27:BC:86:ARG:HG3	27:BC:88:ALA:H	1.82	0.44
28:BD:56:LYS:O	28:BD:57:ALA:O	2.35	0.44
29:BE:60:TRP:O	29:BE:61:ARG:O	2.35	0.44
29:BE:109:LEU:C	29:BE:111:GLU:N	2.75	0.44
30:BF:7:TYR:CD2	30:BF:11:VAL:HB	2.53	0.44
30:BF:63:LYS:HE3	56:BB:42:C:P	2.58	0.44
32:BH:135:HIS:CG	32:BH:136:SER:N	2.86	0.44
35:BK:99:ILE:HG21	35:BK:119:ALA:HB2	1.99	0.44
36:BL:91:ASP:OD1	36:BL:92:LEU:HD12	2.18	0.44
40:BP:30:TRP:CZ3	40:BP:39:LEU:CD1	3.00	0.44
40:BP:112:ARG:O	40:BP:113:LEU:CG	2.65	0.44
42:BR:76:LYS:O	42:BR:84:ARG:HA	2.17	0.44
45:BU:97:SER:O	45:BU:98:ASN:CG	2.61	0.44
48:BX:39:VAL:O	48:BX:40:GLU:C	2.59	0.44
50:BZ:9:THR:HG22	50:BZ:10:ARG:CG	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:229:U:O2'	1:AA:230:G:H5'	2.17	0.43
1:AA:368:U:H6	25:AY:354:ARG:HH12	1.66	0.43
1:AA:376:G:O3'	16:AP:5:ARG:HD2	2.17	0.43
1:AA:377:G:C2	1:AA:387:U:O2	2.71	0.43
1:AA:481:G:C8	1:AA:481:G:C5'	2.97	0.43
1:AA:1012:A:N6	1:AA:1013:G:C6	2.85	0.43
1:AA:1178:G:H2'	1:AA:1180:A:OP2	2.18	0.43
1:AA:1201:A:H4'	1:AA:1202:U:O5'	2.18	0.43
1:AA:1216:A:N1	1:AA:1217:C:N4	2.65	0.43
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.80	0.43
1:AA:1454:G:C2	1:AA:1455:G:C8	3.06	0.43
2:AB:164:ASP:O	2:AB:168:GLU:HG2	2.18	0.43
2:AB:195:VAL:CG1	2:AB:197:PHE:O	2.66	0.43
3:AC:141:MET:CE	3:AC:147:GLY:HA2	2.44	0.43
4:AD:57:LYS:CB	4:AD:199:ILE:CG2	2.95	0.43
4:AD:123:MET:O	4:AD:142:VAL:HA	2.18	0.43
5:AE:12:GLU:CB	5:AE:38:VAL:HG12	2.48	0.43
5:AE:150:GLU:C	5:AE:152:VAL:H	2.25	0.43
6:AF:18:VAL:O	6:AF:21:MET:N	2.51	0.43
8:AH:31:LEU:O	8:AH:31:LEU:HD13	2.18	0.43
9:AI:6:TYR:HE2	9:AI:17:ARG:CA	2.30	0.43
9:AI:38:PHE:HA	9:AI:41:GLU:OE1	2.17	0.43
9:AI:123:ARG:HG3	9:AI:124:PRO:HD2	1.99	0.43
10:AJ:35:GLN:OE1	10:AJ:78:GLU:CB	2.66	0.43
10:AJ:53:ILE:HB	10:AJ:62:ARG:N	2.33	0.43
12:AL:42:LYS:O	12:AL:44:PRO:N	2.50	0.43
17:AQ:69:THR:O	17:AQ:69:THR:CG2	2.66	0.43
19:AS:44:ILE:CD1	19:AS:63:ASP:HA	2.47	0.43
21:AU:3:ILE:N	21:AU:3:ILE:HD13	2.33	0.43
21:AU:18:PHE:O	21:AU:18:PHE:HD2	2.01	0.43
21:AU:18:PHE:O	21:AU:21:SER:N	2.51	0.43
22:AV:4:G:H2'	22:AV:5:C:C6	2.52	0.43
22:AV:204:G:O3'	22:AV:225:A:N1	2.51	0.43
22:AV:215:C:C2'	22:AV:216:U:H5'	2.48	0.43
25:AY:681:LYS:HA	25:AY:684:GLN:HB2	2.00	0.43
26:BA:141:G:H5"	26:BA:142:A:C5	2.52	0.43
26:BA:416:U:C5	26:BA:417:C:N4	2.85	0.43
26:BA:586:A:H8	26:BA:586:A:H5"	1.83	0.43
26:BA:1059:G:N2	26:BA:1080:A:H1'	2.33	0.43
26:BA:1063:G:H4'	33:BI:76:ALA:HB1	2.00	0.43
26:BA:1407:G:C2	26:BA:1596:A:C2	3.05	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1683:U:O5'	26:BA:1683:U:H6	2.01	0.43
26:BA:2008:C:C2'	26:BA:2009:A:O5'	2.66	0.43
26:BA:2849:U:N3	26:BA:2867:G:O4'	2.51	0.43
26:BA:2884:U:O2	26:BA:2884:U:O4'	2.30	0.43
27:BC:16:VAL:HB	27:BC:203:VAL:HG13	1.98	0.43
29:BE:52:VAL:CG1	29:BE:53:THR:N	2.81	0.43
30:BF:127:TYR:CE2	30:BF:129:MET:HG2	2.53	0.43
35:BK:122:VAL:OXT	35:BK:122:VAL:CG1	2.64	0.43
36:BL:85:VAL:CG1	36:BL:94:THR:CG2	2.95	0.43
39:BO:24:THR:HG22	39:BO:42:PRO:CG	2.47	0.43
39:BO:66:GLY:HA2	39:BO:102:ARG:HH22	1.83	0.43
39:BO:72:ALA:HA	39:BO:109:ALA:HB2	2.00	0.43
40:BP:64:SER:O	40:BP:66:GLY:N	2.50	0.43
42:BR:49:ILE:O	42:BR:50:GLY:O	2.35	0.43
43:BS:43:ALA:O	43:BS:47:VAL:CG1	2.57	0.43
45:BU:24:VAL:O	45:BU:25:LYS:C	2.61	0.43
46:BV:20:LEU:O	46:BV:23:ALA:N	2.51	0.43
47:BW:53:HIS:O	47:BW:54:THR:C	2.59	0.43
48:BX:34:SER:HA	48:BX:48:LEU:O	2.19	0.43
48:BX:44:ARG:HG2	48:BX:45:PHE:C	2.43	0.43
56:BB:20:G:C2'	56:BB:21:G:C5'	2.96	0.43
1:AA:155:A:H2'	1:AA:156:C:C6	2.53	0.43
1:AA:197:A:O2'	1:AA:221:C:H1'	2.18	0.43
1:AA:203:G:C2	1:AA:215:C:C2	3.06	0.43
1:AA:222:C:O2	1:AA:222:C:C2'	2.65	0.43
1:AA:380:G:C4	1:AA:382:A:OP2	2.71	0.43
1:AA:380:G:H3'	1:AA:380:G:C8	2.53	0.43
1:AA:408:A:H2'	1:AA:409:U:H5'	1.99	0.43
1:AA:568:G:O6	12:AL:1:ALA:HB2	2.18	0.43
1:AA:763:G:C4	1:AA:764:C:C5	3.06	0.43
1:AA:859:G:H2'	1:AA:860:A:H8	1.83	0.43
1:AA:917:G:C5	1:AA:918:A:C5	3.06	0.43
1:AA:923:A:C5'	5:AE:25:LYS:CE	2.89	0.43
1:AA:1188:A:C2'	1:AA:1189:U:H5'	2.48	0.43
1:AA:1190:G:H5'	3:AC:175:HIS:NE2	2.32	0.43
1:AA:1193:G:C2'	1:AA:1194:U:H5'	2.48	0.43
1:AA:1253:G:C2	1:AA:1254:A:C5	3.06	0.43
1:AA:1306:A:C5	1:AA:1307:U:C6	3.06	0.43
1:AA:1324:A:C2	1:AA:1325:C:C2	3.06	0.43
1:AA:1357:A:C5	1:AA:1358:U:C5	3.06	0.43
1:AA:1368:A:C2	1:AA:1369:C:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1422:G:OP1	35:BK:48:PRO:HB3	2.17	0.43
1:AA:1494:G:C2	1:AA:1495:U:C5	3.06	0.43
3:AC:21:TRP:CD1	3:AC:58:ARG:CD	3.01	0.43
4:AD:54:LEU:HD23	4:AD:58:GLN:HB2	1.99	0.43
4:AD:57:LYS:HG3	4:AD:58:GLN:N	2.33	0.43
4:AD:193:ASP:N	4:AD:193:ASP:OD2	2.50	0.43
7:AG:111:GLY:O	7:AG:112:ASP:O	2.35	0.43
9:AI:46:VAL:HG23	9:AI:47:VAL:N	2.34	0.43
9:AI:49:GLN:O	9:AI:51:LEU:N	2.51	0.43
10:AJ:52:LEU:CD1	10:AJ:61:ALA:HB3	2.46	0.43
10:AJ:81:GLU:C	10:AJ:84:VAL:HG12	2.42	0.43
10:AJ:84:VAL:O	10:AJ:88:MET:HG2	2.18	0.43
13:AM:52:ILE:HG22	13:AM:56:ARG:NH2	2.33	0.43
14:AN:53:ARG:C	14:AN:55:SER:H	2.26	0.43
16:AP:42:ILE:O	16:AP:43:ALA:C	2.62	0.43
17:AQ:11:VAL:HG12	17:AQ:12:VAL:H	1.80	0.43
22:AV:20:A:H8	22:AV:20:A:P	2.41	0.43
22:AV:44:C:C4	22:AV:300:U:C5	2.97	0.43
22:AV:153:U:H1'	22:AV:190:A:H61	1.78	0.43
22:AV:211:C:O2'	22:AV:212:U:H5'	2.18	0.43
22:AV:265:C:C2	22:AV:266:C:C5	3.06	0.43
23:AW:64:GLU:O	23:AW:66:GLY:N	2.51	0.43
24:AX:64:G:H2'	24:AX:65:G:O4'	2.18	0.43
24:AX:67:C:C5	24:AX:68:C:C5	3.06	0.43
25:AY:122:TRP:O	25:AY:125:ALA:N	2.30	0.43
25:AY:417:THR:C	25:AY:419:ALA:H	2.24	0.43
25:AY:456:GLU:HB2	25:AY:657:THR:HG21	2.01	0.43
26:BA:811:U:C2	26:BA:1251:C:C5	3.06	0.43
26:BA:833:A:OP1	36:BL:39:LYS:HD3	2.18	0.43
26:BA:881:G:C6	26:BA:897:C:N4	2.86	0.43
26:BA:894:U:C2	26:BA:895:U:O4'	2.70	0.43
26:BA:1060:U:OP2	33:BI:75:ALA:N	2.50	0.43
26:BA:1098:A:N6	26:BA:1099:G:H1	2.16	0.43
26:BA:1269:A:H8	26:BA:1269:A:O5'	2.01	0.43
26:BA:1275:A:N1	26:BA:1295:C:O2'	2.45	0.43
26:BA:1684:G:H2'	26:BA:1685:C:C6	2.53	0.43
26:BA:1726:C:C2'	26:BA:1727:C:H5'	2.48	0.43
26:BA:2146:C:H4'	26:BA:2147:A:N7	2.33	0.43
26:BA:2723:C:N4	26:BA:2724:U:C4	2.85	0.43
27:BC:156:SER:O	27:BC:159:THR:HG23	2.18	0.43
28:BD:61:THR:OG1	28:BD:64:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:185:ASN:C	28:BD:186:LEU:HD23	2.43	0.43
29:BE:125:SER:OG	29:BE:126:VAL:N	2.52	0.43
31:BG:27:GLY:O	31:BG:28:LYS:C	2.60	0.43
35:BK:10:VAL:HB	35:BK:16:ALA:O	2.18	0.43
36:BL:29:LYS:O	36:BL:31:GLY:N	2.51	0.43
37:BM:136:MET:SD	46:BV:75:GLN:O	2.76	0.43
38:BN:16:HIS:CD2	38:BN:16:HIS:C	2.96	0.43
39:BO:93:ASP:C	39:BO:95:SER:N	2.76	0.43
39:BO:110:ALA:O	39:BO:115:LEU:HB2	2.18	0.43
49:BY:18:LEU:O	49:BY:22:LEU:HB2	2.18	0.43
51:B0:8:THR:C	51:B0:10:SER:N	2.74	0.43
56:BB:78:A:H61	56:BB:98:G:H2'	1.83	0.43
56:BB:111:U:H2'	56:BB:112:G:H8	1.83	0.43
1:AA:108:G:N2	1:AA:109:A:N1	2.66	0.43
1:AA:194:C:O2'	1:AA:195:A:H5'	2.18	0.43
1:AA:200:G:C2	1:AA:218:U:O2	2.71	0.43
1:AA:346:G:N2	1:AA:347:G:C8	2.86	0.43
1:AA:426:U:H5"	4:AD:36:ALA:HB1	2.00	0.43
1:AA:542:G:H2'	1:AA:543:U:C6	2.53	0.43
1:AA:915:A:C2'	1:AA:916:U:H5'	2.48	0.43
1:AA:1029:U:O2	1:AA:1033:G:C4	2.71	0.43
1:AA:1079:G:H5'	5:AE:49:TYR:HE1	1.83	0.43
1:AA:1129:C:H5'	9:AI:17:ARG:HH22	1.84	0.43
1:AA:1258:G:C2	1:AA:1259:C:C2	3.06	0.43
1:AA:1310:G:N2	1:AA:1328:C:C2	2.86	0.43
1:AA:1426:G:H2'	1:AA:1427:C:O5'	2.18	0.43
1:AA:1536:C:C1'	7:AG:79:VAL:HG11	2.48	0.43
2:AB:57:ASN:HB2	2:AB:219:THR:O	2.18	0.43
3:AC:16:PRO:O	3:AC:17:TRP:CE3	2.71	0.43
4:AD:8:LEU:O	4:AD:10:LEU:N	2.52	0.43
4:AD:8:LEU:HD13	4:AD:8:LEU:HA	1.86	0.43
5:AE:121:ASN:C	5:AE:121:ASN:HD22	2.26	0.43
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.33	0.43
9:AI:56:MET:HA	9:AI:59:LYS:HB3	2.01	0.43
9:AI:113:LYS:HD3	9:AI:114:LYS:N	2.33	0.43
11:AK:88:PRO:HB3	21:AU:28:LEU:HD13	2.00	0.43
13:AM:17:ALA:O	13:AM:20:SER:HB2	2.19	0.43
13:AM:76:ILE:O	13:AM:77:LYS:C	2.60	0.43
13:AM:106:ARG:HH21	13:AM:112:ARG:HB3	1.82	0.43
14:AN:64:CYS:HB2	14:AN:80:SER:CB	2.48	0.43
17:AQ:69:THR:O	17:AQ:69:THR:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:41:SER:N	18:AR:51:GLN:NE2	2.66	0.43
22:AV:187:C:O2	22:AV:188:C:H6	1.95	0.43
22:AV:208:G:C2	22:AV:209:C:C5	3.06	0.43
22:AV:216:U:C2'	22:AV:217:G:C5'	2.96	0.43
22:AV:245:C:H2'	22:AV:248:G:H1'	1.99	0.43
22:AV:269:C:O2	22:AV:270:C:O4'	2.36	0.43
23:AW:10:ALA:O	23:AW:11:ARG:C	2.61	0.43
23:AW:54:TYR:CE2	23:AW:78:LYS:HB2	2.53	0.43
24:AX:27:G:C5	24:AX:28:U:C5	3.06	0.43
25:AY:486:THR:HG22	25:AY:602:LEU:HG	1.99	0.43
25:AY:519:ARG:HH12	25:AY:678:GLU:HB3	1.82	0.43
25:AY:526:VAL:HG23	25:AY:565:VAL:O	2.19	0.43
25:AY:609:GLU:HB2	25:AY:670:VAL:CG2	2.49	0.43
26:BA:4:U:C2'	26:BA:5:A:H5'	2.49	0.43
26:BA:634:C:H2'	26:BA:635:C:C6	2.52	0.43
26:BA:881:G:N2	26:BA:896:A:N1	2.65	0.43
26:BA:887:U:C4'	26:BA:888:C:C5'	2.95	0.43
26:BA:928:A:C2'	26:BA:929:U:H5'	2.48	0.43
26:BA:1355:G:C2'	26:BA:1356:G:O5'	2.66	0.43
26:BA:1410:G:C2	26:BA:1593:A:C2	3.06	0.43
26:BA:1418:G:O6	26:BA:1578:U:H3'	2.18	0.43
26:BA:1443:U:H2'	26:BA:1444:G:O4'	2.19	0.43
26:BA:1483:G:C6	26:BA:1484:U:C4	3.05	0.43
26:BA:1502:A:C4	26:BA:1503:A:C8	3.06	0.43
26:BA:1818:U:H2'	27:BC:155:ARG:HD2	1.99	0.43
26:BA:2078:C:C2'	26:BA:2079:U:H5'	2.48	0.43
26:BA:2108:A:C6	26:BA:2109:U:O2	2.70	0.43
26:BA:2152:G:C6	26:BA:2153:C:N3	2.85	0.43
26:BA:2190:G:H2'	26:BA:2190:G:N3	2.33	0.43
26:BA:2190:G:H3'	26:BA:2191:A:H8	1.82	0.43
26:BA:2703:C:N4	26:BA:2704:C:H41	2.16	0.43
26:BA:2822:G:H8	26:BA:2822:G:O5'	2.01	0.43
27:BC:134:ILE:HG23	27:BC:135:PRO:CD	2.48	0.43
27:BC:211:ARG:HA	27:BC:211:ARG:HD2	1.55	0.43
28:BD:97:SER:C	28:BD:99:GLU:N	2.77	0.43
29:BE:27:LEU:CD1	29:BE:100:MET:CE	2.96	0.43
29:BE:145:ASP:HB3	29:BE:184:ASP:HB2	2.00	0.43
30:BF:109:ARG:HH12	30:BF:138:PRO:HA	1.83	0.43
32:BH:69:ALA:HB2	32:BH:134:VAL:HG11	1.99	0.43
33:BI:57:VAL:CG1	33:BI:59:THR:OG1	2.66	0.43
33:BI:105:LEU:HA	33:BI:108:ILE:CB	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:107:GLU:HA	33:BI:110:GLN:OE1	2.18	0.43
37:BM:123:LYS:N	37:BM:123:LYS:HD3	2.34	0.43
38:BN:32:GLU:OE1	38:BN:118:ARG:HA	2.18	0.43
39:BO:74:VAL:O	39:BO:78:VAL:HG22	2.19	0.43
41:BQ:75:TYR:O	41:BQ:76:SER:C	2.59	0.43
42:BR:64:VAL:O	42:BR:65:ALA:CB	2.66	0.43
45:BU:53:GLN:H	45:BU:54:PRO:HD3	1.83	0.43
46:BV:50:MET:O	46:BV:51:GLN:C	2.61	0.43
49:BY:61:ALA:O	49:BY:63:ALA:N	2.51	0.43
53:B2:33:ARG:O	53:B2:36:ALA:HB3	2.18	0.43
1:AA:45:G:C2	1:AA:398:U:N3	2.87	0.43
1:AA:164:G:H2'	1:AA:165:G:C5'	2.49	0.43
1:AA:427:U:C4	1:AA:428:G:C6	3.07	0.43
1:AA:645:G:C5	1:AA:646:G:N7	2.87	0.43
1:AA:1118:U:H1'	1:AA:1179:A:C4	2.52	0.43
1:AA:1216:A:H2'	1:AA:1217:C:C6	2.50	0.43
1:AA:1268:G:N1	1:AA:1269:A:C6	2.87	0.43
2:AB:23:ASN:O	2:AB:26:MET:HB2	2.18	0.43
2:AB:29:PHE:O	2:AB:41:ASN:N	2.51	0.43
2:AB:175:ALA:CB	2:AB:182:VAL:CG2	2.96	0.43
3:AC:152:VAL:CG2	3:AC:156:LEU:CD2	2.96	0.43
4:AD:14:GLU:HA	4:AD:14:GLU:OE1	2.17	0.43
4:AD:73:ASN:O	4:AD:77:GLU:HB2	2.18	0.43
6:AF:25:TYR:CD2	6:AF:25:TYR:N	2.84	0.43
8:AH:105:THR:C	8:AH:107:LYS:H	2.27	0.43
9:AI:20:ILE:CD1	9:AI:86:LEU:HD12	2.47	0.43
9:AI:56:MET:SD	9:AI:56:MET:N	2.91	0.43
11:AK:84:MET:HE2	11:AK:112:VAL:HG11	1.99	0.43
14:AN:74:LEU:O	14:AN:75:ARG:C	2.61	0.43
19:AS:15:LEU:C	19:AS:17:LYS:H	2.25	0.43
20:AT:5:SER:OG	20:AT:6:ALA:N	2.51	0.43
20:AT:20:ASN:HB3	20:AT:65:LEU:HD22	1.99	0.43
21:AU:14:ALA:O	21:AU:15:LEU:HB2	2.18	0.43
22:AV:15:A:H2	22:AV:346:C:H41	1.66	0.43
22:AV:65:U:H1'	22:AV:71:A:H2	1.82	0.43
22:AV:65:U:HO2'	22:AV:71:A:H2	1.60	0.43
22:AV:171:A:C6	22:AV:172:U:C4	3.04	0.43
22:AV:194:G:C4	22:AV:195:A:N7	2.86	0.43
22:AV:225:A:C6	22:AV:226:G:O6	2.72	0.43
22:AV:248:G:N1	22:AV:249:U:N3	2.67	0.43
22:AV:335:C:O2	22:AV:335:C:H2'	2.14	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:345:A:N1	22:AV:348:C:C2	2.87	0.43
24:AX:54:G:H5"	24:AX:55:U:OP2	2.18	0.43
25:AY:196:ILE:CG1	25:AY:197:ARG:H	2.29	0.43
25:AY:316:ILE:HD13	25:AY:316:ILE:N	2.34	0.43
25:AY:414:GLU:HA	25:AY:415:PRO:HD2	1.75	0.43
25:AY:623:ASP:H	31:BG:175:LYS:NZ	2.15	0.43
25:AY:659:LEU:C	25:AY:659:LEU:HD13	2.42	0.43
26:BA:404:A:C8	26:BA:406:G:C6	3.07	0.43
26:BA:528:A:C2	26:BA:2043:C:O5'	2.71	0.43
26:BA:566:U:H2'	26:BA:567:U:O4'	2.19	0.43
26:BA:969:G:H2'	26:BA:970:U:C6	2.53	0.43
26:BA:978:G:H2'	26:BA:979:A:C5'	2.46	0.43
26:BA:1085:A:N6	26:BA:1086:A:H61	2.17	0.43
26:BA:1143:A:OP1	34:BJ:27:ARG:NH2	2.46	0.43
26:BA:1406:U:H2'	26:BA:1407:G:C8	2.53	0.43
26:BA:1452:G:C8	26:BA:1457:U:N3	2.86	0.43
26:BA:1483:G:N2	26:BA:1507:C:C2	2.87	0.43
26:BA:1484:U:C2	26:BA:1485:U:C5	3.06	0.43
26:BA:1806:C:H2'	26:BA:1807:G:O5'	2.18	0.43
26:BA:1818:U:OP2	27:BC:155:ARG:NH1	2.51	0.43
26:BA:1870:C:H2'	26:BA:1871:A:N3	2.34	0.43
26:BA:1872:A:H8	26:BA:1873:G:C1'	2.32	0.43
26:BA:2194:U:C2'	26:BA:2195:U:H5'	2.39	0.43
26:BA:2218:G:C2'	26:BA:2219:U:H5'	2.48	0.43
26:BA:2281:A:O2'	26:BA:2282:G:H5'	2.18	0.43
26:BA:2298:A:C6	26:BA:2321:U:C4	3.06	0.43
26:BA:2732:G:H3'	26:BA:2733:A:C5'	2.47	0.43
26:BA:2831:G:H1'	26:BA:2883:A:H2'	2.01	0.43
26:BA:2884:U:C5	51:B0:39:ARG:NH2	2.86	0.43
27:BC:1:ALA:HB3	27:BC:19:VAL:O	2.18	0.43
27:BC:56:GLY:HA2	27:BC:212:TRP:HA	2.00	0.43
27:BC:92:LEU:HD11	27:BC:100:ARG:HD3	2.00	0.43
28:BD:38:LYS:HB3	28:BD:43:ASP:CG	2.43	0.43
29:BE:12:LEU:C	29:BE:12:LEU:CD2	2.91	0.43
29:BE:118:LEU:HD12	29:BE:118:LEU:C	2.43	0.43
30:BF:27:VAL:O	30:BF:27:VAL:HG13	2.18	0.43
31:BG:42:VAL:HB	31:BG:51:PHE:CD1	2.53	0.43
32:BH:2:GLN:C	32:BH:3:VAL:CG1	2.86	0.43
32:BH:97:ARG:HE	32:BH:112:LYS:NZ	2.16	0.43
33:BI:5:GLN:HG2	33:BI:60:VAL:O	2.19	0.43
33:BI:32:VAL:CG1	33:BI:33:ASN:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:95:ASP:CG	33:BI:96:LYS:N	2.77	0.43
35:BK:75:SER:O	35:BK:76:VAL:HG23	2.18	0.43
38:BN:23:ASN:O	38:BN:26:GLY:N	2.52	0.43
39:BO:55:GLU:HG3	39:BO:58:ILE:HG13	1.99	0.43
40:BP:22:GLY:O	40:BP:109:ILE:HD11	2.18	0.43
40:BP:60:VAL:HG12	40:BP:61:ARG:N	2.33	0.43
44:BT:30:ILE:CD1	44:BT:32:LEU:HD21	2.48	0.43
49:BY:39:GLN:HB2	49:BY:41:HIS:ND1	2.33	0.43
56:BB:28:C:H2'	56:BB:29:A:O4'	2.18	0.43
56:BB:51:G:C6	56:BB:52:A:N6	2.86	0.43
1:AA:50:A:N6	1:AA:361:G:H4'	2.34	0.43
1:AA:212:G:C2	1:AA:213:G:C5	3.06	0.43
1:AA:456:A:C5	1:AA:457:G:N7	2.87	0.43
1:AA:779:C:O2'	1:AA:780:A:H5'	2.17	0.43
1:AA:929:G:H5'	1:AA:1533:C:O5'	2.19	0.43
1:AA:943:U:O2'	1:AA:944:G:H5'	2.18	0.43
1:AA:1004:A:H2'	1:AA:1005:A:C5'	2.49	0.43
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.54	0.43
1:AA:1055:A:N3	3:AC:155:ARG:HD2	2.34	0.43
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.18	0.43
1:AA:1202:U:N3	14:AN:82:ILE:HG21	2.33	0.43
1:AA:1235:U:C2'	1:AA:1236:A:O5'	2.66	0.43
1:AA:1342:C:C2'	1:AA:1343:G:C5'	2.85	0.43
2:AB:34:ARG:HE	2:AB:35:ASN:N	2.16	0.43
2:AB:69:VAL:O	2:AB:162:VAL:HA	2.18	0.43
2:AB:71:THR:HG22	2:AB:92:ASN:O	2.18	0.43
2:AB:87:ASP:C	2:AB:88:GLN:HG3	2.42	0.43
2:AB:98:GLY:N	2:AB:174:GLU:OE2	2.46	0.43
2:AB:187:ASP:OD2	2:AB:202:ASN:HA	2.19	0.43
3:AC:52:SER:O	3:AC:52:SER:OG	2.32	0.43
4:AD:94:GLU:CG	4:AD:185:PRO:HG2	2.47	0.43
4:AD:117:VAL:O	4:AD:130:ASN:HA	2.19	0.43
4:AD:147:LYS:HD3	4:AD:147:LYS:N	2.33	0.43
4:AD:156:ALA:O	4:AD:160:LEU:HD22	2.19	0.43
4:AD:194:ILE:HG13	4:AD:196:GLU:OE2	2.18	0.43
5:AE:35:LEU:HD22	5:AE:133:ILE:HA	2.00	0.43
8:AH:1:SER:HB3	8:AH:2:MET:HG3	2.00	0.43
9:AI:18:VAL:HG11	9:AI:82:ILE:CA	2.46	0.43
10:AJ:26:VAL:C	10:AJ:30:LYS:HD3	2.44	0.43
11:AK:107:THR:HG22	11:AK:108:ASN:ND2	2.33	0.43
13:AM:77:LYS:O	13:AM:78:ARG:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:17:ASP:O	14:AN:18:LYS:C	2.61	0.43
14:AN:68:GLY:O	14:AN:69:ARG:O	2.37	0.43
22:AV:20:A:O2'	22:AV:21:C:C5'	2.38	0.43
22:AV:25:A:H2'	22:AV:26:U:C6	2.50	0.43
22:AV:36:C:H6	22:AV:36:C:O5'	2.01	0.43
22:AV:40:G:O2'	22:AV:41:G:C5'	2.63	0.43
22:AV:158:U:H1'	22:AV:197:A:C4	2.54	0.43
22:AV:219:G:C2	22:AV:220:G:C5	3.06	0.43
23:AW:39:VAL:CG1	23:AW:60:ILE:HA	2.48	0.43
24:AX:75:C:C2'	24:AX:76:C:H5'	2.47	0.43
25:AY:120:THR:O	25:AY:121:VAL:C	2.60	0.43
25:AY:122:TRP:O	25:AY:124:GLN:N	2.51	0.43
25:AY:140:ASP:OD2	25:AY:265:LYS:HE2	2.19	0.43
25:AY:210:ARG:C	25:AY:214:GLU:HG2	2.44	0.43
25:AY:225:GLU:CD	25:AY:225:GLU:H	2.27	0.43
25:AY:228:MET:CE	25:AY:229:LEU:HG	2.48	0.43
25:AY:230:LYS:NZ	25:AY:237:PRO:HA	2.33	0.43
25:AY:289:ILE:HD12	25:AY:331:TYR:CZ	2.54	0.43
25:AY:409:ILE:HG12	25:AY:656:ALA:CB	2.49	0.43
25:AY:590:ILE:HD13	25:AY:590:ILE:HA	1.91	0.43
25:AY:652:MET:HA	25:AY:652:MET:HE3	1.99	0.43
25:AY:679:VAL:O	25:AY:681:LYS:N	2.46	0.43
26:BA:118:A:N3	26:BA:178:G:H1'	2.33	0.43
26:BA:196:A:C4	26:BA:805:G:C6	3.07	0.43
26:BA:324:A:C2'	26:BA:325:G:O5'	2.67	0.43
26:BA:811:U:O4	36:BL:21:ARG:NH2	2.51	0.43
26:BA:1095:A:C6	26:BA:1096:A:N6	2.86	0.43
26:BA:1102:C:H2'	26:BA:1103:A:C8	2.53	0.43
26:BA:1306:C:O2	26:BA:1306:C:C2'	2.62	0.43
26:BA:1483:G:C2	26:BA:1507:C:O2	2.71	0.43
26:BA:2016:U:H1'	51:B0:2:VAL:HG21	1.99	0.43
26:BA:2078:C:H2'	26:BA:2079:U:O4'	2.19	0.43
26:BA:2093:G:O2'	26:BA:2094:A:H5'	2.18	0.43
26:BA:2145:C:C6	26:BA:2145:C:C3'	3.02	0.43
26:BA:2146:C:H5'	26:BA:2147:A:N7	2.32	0.43
26:BA:2216:G:H2'	26:BA:2217:G:H8	1.82	0.43
26:BA:2304:G:C2'	26:BA:2305:U:H5"	2.47	0.43
26:BA:2486:C:H2'	26:BA:2487:G:O4'	2.18	0.43
29:BE:65:THR:O	29:BE:65:THR:HG23	2.19	0.43
30:BF:51:ASN:N	30:BF:51:ASN:OD1	2.51	0.43
32:BH:5:LEU:C	32:BH:6:LEU:HD12	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:50:ARG:NH1	32:BH:50:ARG:HA	2.33	0.43
32:BH:76:GLU:O	32:BH:76:GLU:CG	2.62	0.43
33:BI:17:ALA:O	33:BI:18:ASN:HB3	2.17	0.43
33:BI:126:ARG:HA	33:BI:129:GLU:CD	2.44	0.43
38:BN:33:ILE:O	38:BN:33:ILE:HG23	2.19	0.43
40:BP:30:TRP:CD2	40:BP:39:LEU:HD11	2.52	0.43
43:BS:3:THR:HG21	43:BS:58:ALA:N	2.33	0.43
44:BT:48:GLN:C	44:BT:49:LYS:HE3	2.42	0.43
45:BU:68:ASN:C	45:BU:69:VAL:CG1	2.90	0.43
46:BV:24:ASN:O	46:BV:25:LYS:HG2	2.18	0.43
52:B1:9:LYS:O	52:B1:50:GLU:HG3	2.18	0.43
53:B2:1:MET:HE2	53:B2:1:MET:HB2	1.72	0.43
1:AA:259:G:N1	1:AA:260:G:C4	2.87	0.43
1:AA:290:C:H3’	1:AA:290:C:C6	2.53	0.43
1:AA:525:C:N4	1:AA:526:C:N4	2.66	0.43
1:AA:541:G:H2’	1:AA:542:G:H8	1.83	0.43
1:AA:689:C:H2’	1:AA:690:G:O4’	2.18	0.43
1:AA:879:C:C6	1:AA:879:C:H3’	2.53	0.43
1:AA:903:G:H2’	1:AA:904:U:C6	2.53	0.43
1:AA:1135:U:C2	1:AA:1137:C:N3	2.87	0.43
1:AA:1205:U:O2’	3:AC:194:VAL:HG23	2.19	0.43
1:AA:1226:C:O2’	13:AM:101:THR:O	2.36	0.43
1:AA:1374:A:O2’	1:AA:1375:A:H5’	2.19	0.43
1:AA:1446:A:H2’	1:AA:1447:A:C5’	2.49	0.43
1:AA:1536:C:H6	1:AA:1536:C:O5’	2.01	0.43
2:AB:20:ARG:HD3	2:AB:20:ARG:HA	1.80	0.43
3:AC:133:MET:O	3:AC:137:VAL:HG23	2.19	0.43
4:AD:24:VAL:HG12	4:AD:25:ARG:H	1.83	0.43
4:AD:150:LYS:HA	4:AD:177:MET:CE	2.36	0.43
4:AD:159:GLU:O	4:AD:162:GLU:OE1	2.37	0.43
5:AE:104:ILE:HD12	5:AE:122:VAL:HG23	2.01	0.43
5:AE:108:GLY:HA2	5:AE:111:ARG:HB2	2.01	0.43
8:AH:58:LEU:C	8:AH:58:LEU:CD1	2.89	0.43
13:AM:18:LEU:O	13:AM:24:VAL:HG21	2.18	0.43
17:AQ:56:ASP:N	17:AQ:56:ASP:OD2	2.51	0.43
19:AS:4:LEU:O	19:AS:5:LYS:CD	2.66	0.43
20:AT:14:GLU:C	20:AT:16:ALA:N	2.75	0.43
22:AV:16:U:HO2’	22:AV:18:C:H5”	1.73	0.43
22:AV:137:C:C5’	22:AV:138:C:O5’	2.66	0.43
22:AV:153:U:HO2’	22:AV:154:C:P	2.40	0.43
22:AV:182:U:O2	22:AV:182:U:C4’	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:257:U:N3	22:AV:258:G:N2	2.66	0.43
23:AW:87:ARG:O	23:AW:90:LEU:HG	2.19	0.43
25:AY:120:THR:C	25:AY:124:GLN:NE2	2.76	0.43
26:BA:185:G:H4'	26:BA:218:A:H4'	1.99	0.43
26:BA:275:C:C4	26:BA:276:U:C6	3.07	0.43
26:BA:408:G:O6	26:BA:409:G:C6	2.72	0.43
26:BA:671:C:H2'	26:BA:672:C:C6	2.54	0.43
26:BA:740:C:O2	26:BA:740:C:H2'	2.18	0.43
26:BA:818:G:H2'	26:BA:819:A:OP2	2.18	0.43
26:BA:834:G:H5'	54:B3:56:LEU:HD11	2.00	0.43
26:BA:1179:G:C6	26:BA:1180:U:H1'	2.52	0.43
26:BA:1180:U:C2'	26:BA:1181:U:C5'	2.95	0.43
26:BA:1535:A:H5"	26:BA:1536:C:C5	2.54	0.43
26:BA:1676:A:H2'	26:BA:1677:A:O5'	2.18	0.43
26:BA:2181:U:H2'	26:BA:2182:U:H6	1.83	0.43
26:BA:2547:A:C5'	35:BK:29:HIS:NE2	2.81	0.43
27:BC:17:LYS:CE	27:BC:17:LYS:CA	2.95	0.43
28:BD:132:ALA:HA	28:BD:140:HIS:ND1	2.33	0.43
30:BF:7:TYR:CA	30:BF:11:VAL:HG23	2.48	0.43
30:BF:116:LEU:HD22	30:BF:116:LEU:N	2.33	0.43
31:BG:25:ILE:HG21	31:BG:74:MET:O	2.19	0.43
32:BH:18:GLN:O	32:BH:19:VAL:HG13	2.18	0.43
32:BH:21:VAL:HG22	32:BH:25:TYR:HB3	2.00	0.43
33:BI:34:ILE:HD13	33:BI:34:ILE:N	2.32	0.43
35:BK:98:ARG:O	35:BK:99:ILE:HD13	2.18	0.43
36:BL:109:LYS:HE2	36:BL:128:THR:CG2	2.45	0.43
40:BP:51:ASN:C	40:BP:52:ARG:HG2	2.43	0.43
44:BT:61:LEU:C	44:BT:61:LEU:HD12	2.44	0.43
1:AA:71:A:OP2	1:AA:71:A:C3'	2.62	0.43
1:AA:100:G:C5	1:AA:101:A:C8	3.07	0.43
1:AA:171:A:C6	1:AA:172:A:C6	3.07	0.43
1:AA:285:C:C2	1:AA:286:C:C5	3.06	0.43
1:AA:429:U:C4'	1:AA:430:A:O5'	2.67	0.43
1:AA:459:A:C8	1:AA:459:A:OP2	2.72	0.43
1:AA:676:A:H5"	11:AK:114:PRO:HB3	1.99	0.43
1:AA:922:G:N3	1:AA:1398:A:C4	2.68	0.43
1:AA:980:C:C5	1:AA:981:U:N3	2.86	0.43
1:AA:1031:C:O2'	1:AA:1032:G:P	2.76	0.43
1:AA:1135:U:OP2	1:AA:1135:U:H6	2.01	0.43
1:AA:1211:U:H2'	1:AA:1212:U:OP2	2.17	0.43
1:AA:1299:A:C5	1:AA:1301:U:O2	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1371:G:O3'	9:AI:70:GLY:HA3	2.18	0.43
1:AA:1446:A:C2'	1:AA:1447:A:C5'	2.97	0.43
3:AC:119:ILE:HG22	3:AC:123:LEU:HD12	2.01	0.43
3:AC:159:ALA:C	3:AC:161:ILE:H	2.25	0.43
3:AC:159:ALA:C	3:AC:161:ILE:N	2.77	0.43
4:AD:14:GLU:HB3	4:AD:59:LYS:HG3	2.01	0.43
4:AD:152:SER:OG	4:AD:153:ARG:N	2.50	0.43
5:AE:72:ASN:H	5:AE:72:ASN:ND2	2.14	0.43
5:AE:105:ILE:CD1	5:AE:123:LEU:HB3	2.49	0.43
6:AF:4:TYR:CE2	6:AF:71:ILE:HG21	2.53	0.43
7:AG:108:ARG:HA	7:AG:108:ARG:HE	1.84	0.43
9:AI:49:GLN:N	9:AI:50:PRO:HD2	2.34	0.43
9:AI:129:ARG:OXT	9:AI:129:ARG:CG	2.66	0.43
10:AJ:49:PHE:CD2	14:AN:77:PHE:CE1	3.06	0.43
10:AJ:63:ASP:OD2	14:AN:98:LYS:CD	2.67	0.43
11:AK:41:LEU:HB2	11:AK:73:VAL:CG1	2.48	0.43
12:AL:93:ARG:O	12:AL:94:TYR:CG	2.72	0.43
13:AM:38:ILE:N	13:AM:38:ILE:HD13	2.32	0.43
14:AN:1:ALA:HB3	14:AN:68:GLY:HA3	1.99	0.43
14:AN:20:PHE:O	14:AN:21:ALA:HB3	2.18	0.43
15:AO:27:GLN:C	15:AO:29:ALA:N	2.76	0.43
16:AP:45:GLU:HG2	16:AP:45:GLU:O	2.19	0.43
22:AV:5:C:H2'	22:AV:6:U:H6	1.83	0.43
22:AV:48:C:C2	22:AV:49:C:C6	3.06	0.43
22:AV:229:U:O2'	22:AV:230:U:O5'	2.30	0.43
25:AY:442:THR:HG23	25:AY:447:GLY:O	2.19	0.43
25:AY:447:GLY:O	25:AY:448:GLN:O	2.36	0.43
25:AY:487:ILE:CD1	25:AY:487:ILE:N	2.81	0.43
25:AY:519:ARG:HD3	25:AY:677:GLN:HA	2.01	0.43
25:AY:598:ASP:HA	25:AY:599:PRO:HD2	1.92	0.43
26:BA:11:C:H2'	26:BA:12:U:C5'	2.49	0.43
26:BA:102:U:C6	49:BY:2:LYS:HD2	2.54	0.43
26:BA:137:U:HO2'	26:BA:138:U:P	2.40	0.43
26:BA:328:U:H2'	26:BA:329:G:OP1	2.18	0.43
26:BA:779:U:H2'	26:BA:780:G:O5'	2.19	0.43
26:BA:896:A:C2'	26:BA:897:C:H5"	2.48	0.43
26:BA:919:U:C2'	26:BA:920:A:H5'	2.48	0.43
26:BA:1726:C:C4	26:BA:1727:C:C5	3.07	0.43
26:BA:2096:C:H42	26:BA:2193:G:H1	1.66	0.43
26:BA:2156:G:N7	26:BA:2157:G:C6	2.87	0.43
26:BA:2300:C:N3	26:BA:2317:A:C2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2305:U:O2'	30:BF:132:ARG:CZ	2.66	0.43
27:BC:115:ILE:H	27:BC:115:ILE:HG13	1.74	0.43
28:BD:4:LEU:HD11	28:BD:96:ILE:CG2	2.48	0.43
28:BD:39:ASP:OD2	28:BD:40:LEU:CB	2.67	0.43
29:BE:155:GLU:HG3	29:BE:159:LEU:HD22	2.00	0.43
30:BF:63:LYS:HA	30:BF:64:PRO:HD3	1.87	0.43
33:BI:68:PHE:O	33:BI:68:PHE:CG	2.72	0.43
33:BI:92:PRO:HB3	33:BI:135:MET:O	2.18	0.43
33:BI:106:GLN:O	33:BI:110:GLN:N	2.52	0.43
33:BI:121:ILE:HG22	33:BI:121:ILE:O	2.19	0.43
33:BI:130:GLY:C	33:BI:132:ALA:N	2.75	0.43
38:BN:45:ARG:HE	38:BN:45:ARG:HB2	1.61	0.43
50:BZ:46:MET:O	50:BZ:47:ILE:C	2.60	0.43
55:B4:30:GLU:O	55:B4:33:HIS:N	2.51	0.43
1:AA:61:G:C5	1:AA:107:G:N2	2.87	0.43
1:AA:89:U:O2'	1:AA:90:C:H5'	2.18	0.43
1:AA:233:C:H2'	1:AA:234:C:C6	2.52	0.43
1:AA:283:U:H2'	1:AA:284:C:C6	2.53	0.43
1:AA:441:A:C2'	1:AA:442:G:H5'	2.49	0.43
1:AA:511:C:N1	1:AA:512:U:C5	2.87	0.43
1:AA:527:G:O2'	1:AA:535:A:N1	2.52	0.43
1:AA:603:U:O2'	1:AA:604:G:H5'	2.19	0.43
1:AA:650:G:C2'	1:AA:651:C:H5'	2.49	0.43
1:AA:844:G:C4	1:AA:846:G:O2'	2.72	0.43
1:AA:1004:A:O2'	1:AA:1005:A:H5'	2.18	0.43
1:AA:1097:C:O4'	1:AA:1170:A:O2'	2.36	0.43
1:AA:1130:A:O2'	9:AI:4:GLN:HG3	2.18	0.43
1:AA:1254:A:H62	10:AJ:45:ARG:HH22	1.67	0.43
1:AA:1325:C:O2'	1:AA:1326:U:H5'	2.18	0.43
1:AA:1379:G:C4	1:AA:1380:U:C5	3.07	0.43
1:AA:1520:C:H2'	1:AA:1521:C:H6	1.83	0.43
2:AB:53:LEU:HA	2:AB:56:LEU:HB3	2.01	0.43
3:AC:72:PRO:CG	3:AC:104:GLU:HG3	2.48	0.43
3:AC:147:GLY:HA3	3:AC:171:ARG:H	1.82	0.43
4:AD:124:VAL:CG2	4:AD:125:ASN:N	2.78	0.43
4:AD:200:VAL:O	4:AD:201:GLU:C	2.62	0.43
5:AE:67:ARG:C	5:AE:68:ARG:O	2.60	0.43
8:AH:87:ARG:H	8:AH:90:GLU:HB2	1.83	0.43
8:AH:100:ILE:CD1	8:AH:128:VAL:CG2	2.92	0.43
9:AI:53:LEU:HD12	9:AI:53:LEU:N	2.34	0.43
16:AP:36:VAL:O	16:AP:36:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:26:MET:HG3	20:AT:27:MET:N	2.33	0.43
22:AV:46:U:HO2'	22:AV:47:G:H5'	1.84	0.43
22:AV:55:G:N1	22:AV:56:C:N4	2.66	0.43
22:AV:164:G:C2'	22:AV:166:C:O2	2.67	0.43
22:AV:343:C:O2	30:BF:78:ILE:CG2	2.67	0.43
22:AV:345:A:H2'	22:AV:347:PSU:P	2.58	0.43
23:AW:18:GLU:HB2	23:AW:88:ARG:HH22	1.84	0.43
23:AW:53:LEU:HD23	23:AW:79:LEU:CD1	2.49	0.43
24:AX:72:C:O2'	26:BA:1851:U:C2'	2.65	0.43
25:AY:21:ILE:H	25:AY:21:ILE:CD1	2.20	0.43
25:AY:65:ILE:O	25:AY:66:THR:C	2.62	0.43
25:AY:170:ARG:HD2	25:AY:170:ARG:H	1.83	0.43
25:AY:187:THR:OG1	25:AY:188:TYR:N	2.52	0.43
25:AY:329:ARG:HG3	25:AY:331:TYR:CZ	2.54	0.43
26:BA:90:U:H2'	26:BA:91:A:N7	2.32	0.43
26:BA:192:C:C2'	26:BA:193:U:H5'	2.47	0.43
26:BA:322:A:H5'	26:BA:340:A:C1'	2.47	0.43
26:BA:514:A:H2'	26:BA:515:A:O4'	2.19	0.43
26:BA:626:A:C2	36:BL:78:ARG:HD3	2.53	0.43
26:BA:1059:G:C4	26:BA:1060:U:C5	3.07	0.43
26:BA:1071:G:N9	26:BA:1089:A:N7	2.66	0.43
26:BA:1262:A:OP2	43:BS:99:ARG:NH2	2.52	0.43
26:BA:1365:A:N3	26:BA:1365:A:H2'	2.33	0.43
26:BA:1421:G:C2'	26:BA:1422:G:O5'	2.67	0.43
26:BA:1474:U:C5	26:BA:1475:G:N2	2.87	0.43
26:BA:1827:U:H2'	26:BA:1828:G:O5'	2.18	0.43
26:BA:2008:C:H2'	26:BA:2009:A:O5'	2.18	0.43
26:BA:2356:U:O3'	47:BW:16:ARG:HD3	2.19	0.43
26:BA:2552:U:H2'	26:BA:2554:U:H5"	2.00	0.43
26:BA:2670:A:H2'	26:BA:2671:G:O5'	2.18	0.43
27:BC:121:ALA:O	27:BC:122:ALA:O	2.37	0.43
27:BC:265:PHE:N	27:BC:265:PHE:HD1	2.16	0.43
30:BF:43:ILE:HA	30:BF:82:TYR:OH	2.19	0.43
30:BF:92:GLY:O	30:BF:93:GLU:C	2.61	0.43
32:BH:2:GLN:O	32:BH:3:VAL:HG13	2.18	0.43
32:BH:14:SER:O	32:BH:15:LEU:HB2	2.19	0.43
32:BH:135:HIS:CD2	32:BH:138:VAL:HG23	2.54	0.43
33:BI:98:GLY:C	33:BI:99:LYS:HG2	2.43	0.43
34:BJ:80:HIS:C	34:BJ:81:ILE:CG2	2.91	0.43
36:BL:85:VAL:HB	36:BL:94:THR:CG2	2.48	0.43
37:BM:136:MET:HE3	46:BV:77:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BO:66:GLY:CA	39:BO:102:ARG:HH22	2.31	0.43
43:BS:19:LEU:HB3	51:B0:21:LEU:HD12	2.00	0.43
44:BT:27:SER:O	44:BT:28:ASN:C	2.61	0.43
45:BU:33:VAL:O	45:BU:64:ILE:HG22	2.19	0.43
46:BV:40:ILE:HG22	46:BV:42:LEU:HD23	2.00	0.43
48:BX:77:TYR:C	48:BX:77:TYR:CD1	2.96	0.43
52:B1:38:PHE:CE2	52:B1:40:PRO:HA	2.53	0.43
1:AA:145:G:C2'	1:AA:146:G:O5'	2.67	0.43
1:AA:257:G:C2	1:AA:258:G:N7	2.87	0.43
1:AA:316:C:C2	1:AA:317:U:C5	3.06	0.43
1:AA:386:C:H2'	1:AA:387:U:H5'	2.00	0.43
1:AA:495:A:C2	1:AA:496:A:C6	3.07	0.43
1:AA:518:C:H5"	1:AA:519:C:C6	2.54	0.43
1:AA:663:A:H5"	18:AR:49:LYS:HD2	2.00	0.43
1:AA:1032:G:N2	1:AA:1033:G:C8	2.86	0.43
1:AA:1267:C:H2'	1:AA:1268:G:O4'	2.19	0.43
1:AA:1278:G:C4'	1:AA:1279:G:C8	3.01	0.43
1:AA:1405:G:H1'	1:AA:1518:A:O2'	2.19	0.43
2:AB:110:ILE:HG12	2:AB:150:ILE:CG1	2.49	0.43
3:AC:10:ARG:O	3:AC:13:ILE:HG12	2.19	0.43
3:AC:13:ILE:HG13	3:AC:14:VAL:HG13	2.00	0.43
3:AC:35:ASP:HA	3:AC:38:VAL:HG22	2.01	0.43
4:AD:11:SER:OG	4:AD:18:LEU:HG	2.19	0.43
4:AD:97:LEU:HD23	4:AD:117:VAL:HG21	2.01	0.43
5:AE:33:THR:HB	5:AE:49:TYR:CZ	2.53	0.43
5:AE:93:VAL:CG2	5:AE:110:MET:SD	3.06	0.43
7:AG:68:VAL:HG12	7:AG:134:VAL:HG12	2.01	0.43
8:AH:117:GLN:C	8:AH:119:GLY:N	2.75	0.43
9:AI:9:GLY:CA	9:AI:80:HIS:HB3	2.49	0.43
9:AI:43:ALA:O	9:AI:46:VAL:HG22	2.19	0.43
10:AJ:17:LEU:HD23	10:AJ:18:ILE:N	2.34	0.43
10:AJ:73:LEU:O	10:AJ:74:VAL:CB	2.65	0.43
15:AO:55:LEU:O	15:AO:58:MET:HB2	2.18	0.43
16:AP:15:PRO:O	16:AP:16:PHE:HB2	2.19	0.43
17:AQ:45:VAL:HG13	17:AQ:72:TRP:C	2.44	0.43
20:AT:57:VAL:HG12	20:AT:58:ASP:N	2.33	0.43
21:AU:42:THR:O	21:AU:43:GLU:C	2.61	0.43
22:AV:12:U:H5	22:AV:348:C:O2'	1.88	0.43
22:AV:16:U:C1'	22:AV:18:C:H5"	2.48	0.43
22:AV:45:A:H2'	22:AV:46:U:H5'	1.96	0.43
22:AV:158:U:C1'	22:AV:197:A:C6	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:235:C:C2	22:AV:236:U:C5	3.06	0.43
22:AV:238:A:C5	22:AV:239:A:N7	2.86	0.43
24:AX:10:G:H2'	24:AX:11:A:H8	1.82	0.43
25:AY:274:ASP:C	25:AY:276:VAL:N	2.76	0.43
26:BA:45:G:H5'	26:BA:46:G:H5'	2.01	0.43
26:BA:142:A:C2	44:BT:1:MET:HE3	2.54	0.43
26:BA:319:G:H2'	26:BA:320:A:O4'	2.18	0.43
26:BA:380:G:H2'	26:BA:381:G:O4'	2.19	0.43
26:BA:643:A:H2'	26:BA:644:A:C8	2.53	0.43
26:BA:887:U:C6	26:BA:888:C:C6	3.06	0.43
26:BA:915:C:H2'	26:BA:916:G:O5'	2.18	0.43
26:BA:1059:G:OP2	26:BA:1060:U:C3'	2.67	0.43
26:BA:1239:G:H2'	26:BA:1240:U:O4'	2.18	0.43
26:BA:1519:G:C6	26:BA:1520:U:C4	3.06	0.43
26:BA:1606:C:O2'	26:BA:1607:C:C5'	2.67	0.43
26:BA:1883:U:H2'	26:BA:1884:G:O4'	2.19	0.43
26:BA:1889:A:H2'	26:BA:1890:A:O5'	2.17	0.43
26:BA:1979:U:H2'	26:BA:1980:G:C5'	2.48	0.43
26:BA:2469:A:H4'	37:BM:55:ARG:NH2	2.34	0.43
26:BA:2648:G:H2'	26:BA:2649:C:H6	1.78	0.43
27:BC:23:LEU:HA	27:BC:23:LEU:HD12	1.82	0.43
27:BC:110:LYS:HE2	27:BC:110:LYS:H	1.83	0.43
27:BC:134:ILE:HG23	27:BC:135:PRO:HD2	2.01	0.43
30:BF:107:VAL:HG12	30:BF:108:PRO:N	2.31	0.43
32:BH:128:HIS:O	32:BH:144:VAL:HG23	2.18	0.43
35:BK:13:ASN:HD21	35:BK:98:ARG:HG3	1.83	0.43
40:BP:3:ILE:N	40:BP:3:ILE:CD1	2.82	0.43
40:BP:36:LYS:HE3	40:BP:38:ARG:NE	2.33	0.43
43:BS:74:ILE:O	43:BS:75:PHE:HB3	2.19	0.43
44:BT:56:GLU:HB2	44:BT:88:LYS:HA	2.01	0.43
54:B3:54:LEU:HD23	54:B3:54:LEU:HA	1.79	0.43
56:BB:77:U:O2'	56:BB:78:A:H5'	2.19	0.43
1:AA:182:A:N7	1:AA:184:G:C5	2.87	0.43
1:AA:380:G:C2	1:AA:384:G:C6	3.07	0.43
1:AA:399:G:O2'	1:AA:400:C:H5'	2.19	0.43
1:AA:528:C:H5'	1:AA:529:G:OP2	2.19	0.43
1:AA:623:C:N4	1:AA:624:C:N4	2.67	0.43
1:AA:662:U:H2'	1:AA:663:A:C8	2.54	0.43
1:AA:687:A:C8	1:AA:701:U:O4	2.72	0.43
1:AA:893:C:H2'	1:AA:894:G:C8	2.53	0.43
1:AA:1004:A:C5	1:AA:1026:G:C8	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1033:G:N1	1:AA:1034:G:C8	2.86	0.43
1:AA:1053:G:O5'	1:AA:1054:C:H5'	2.19	0.43
1:AA:1253:G:C2	1:AA:1254:A:C4	3.06	0.43
1:AA:1271:A:C5'	1:AA:1314:C:H5"	2.49	0.43
1:AA:1285:A:C5'	1:AA:1286:U:O4	2.67	0.43
1:AA:1329:A:H2'	1:AA:1329:A:N3	2.34	0.43
1:AA:1341:U:C2'	1:AA:1342:C:C5	2.90	0.43
1:AA:1449:C:H1'	1:AA:1455:G:N2	2.34	0.43
2:AB:9:LEU:C	2:AB:9:LEU:HD23	2.44	0.43
2:AB:56:LEU:HB2	2:AB:183:PHE:CE1	2.54	0.43
2:AB:167:HIS:ND1	2:AB:167:HIS:O	2.52	0.43
5:AE:20:VAL:O	5:AE:20:VAL:HG22	2.19	0.43
5:AE:33:THR:HG22	5:AE:51:LYS:CB	2.45	0.43
6:AF:35:LYS:CE	6:AF:65:GLU:OE2	2.67	0.43
6:AF:52:ASN:C	6:AF:53:LYS:O	2.62	0.43
7:AG:49:LEU:O	7:AG:50:ALA:C	2.61	0.43
9:AI:90:ASP:OD2	9:AI:92:SER:N	2.52	0.43
9:AI:100:ALA:HB1	9:AI:102:PHE:CZ	2.54	0.43
10:AJ:28:THR:CG2	10:AJ:86:ALA:HB1	2.49	0.43
13:AM:3:ILE:O	13:AM:3:ILE:HG12	2.18	0.43
13:AM:21:ILE:O	13:AM:24:VAL:HG22	2.19	0.43
13:AM:89:ARG:HB3	13:AM:96:VAL:HG22	2.01	0.43
14:AN:64:CYS:CB	14:AN:80:SER:H	2.31	0.43
18:AR:40:PRO:O	18:AR:44:THR:HG23	2.18	0.43
19:AS:33:TRP:CZ2	19:AS:56:HIS:HE1	2.37	0.43
19:AS:48:ILE:H	19:AS:48:ILE:CD1	2.30	0.43
21:AU:18:PHE:C	21:AU:18:PHE:CD2	2.97	0.43
21:AU:38:GLU:CD	21:AU:41:THR:HG21	2.43	0.43
22:AV:129:G:H5'	22:AV:130:C:O5'	2.18	0.43
22:AV:185:A:N9	22:AV:186:A:C6	2.87	0.43
22:AV:198:U:H2'	22:AV:199:C:C6	2.54	0.43
22:AV:238:A:N3	22:AV:239:A:C8	2.87	0.43
22:AV:262:U:O2	22:AV:262:U:C2'	2.62	0.43
22:AV:298:A:N3	22:AV:299:C:H1'	2.34	0.43
22:AV:320:U:O2'	22:AV:321:G:N9	2.52	0.43
23:AW:22:ALA:HB1	23:AW:80:LEU:O	2.19	0.43
23:AW:46:ALA:CB	23:AW:53:LEU:HD21	2.49	0.43
25:AY:182:ARG:HG3	25:AY:182:ARG:NH1	2.34	0.43
25:AY:334:THR:HG23	25:AY:369:LEU:C	2.44	0.43
25:AY:503:GLY:C	25:AY:505:GLY:H	2.27	0.43
25:AY:633:GLY:HA2	26:BA:1068:G:C5	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:659:LEU:HD13	25:AY:659:LEU:O	2.18	0.43
26:BA:319:G:H2'	26:BA:320:A:O5'	2.18	0.43
26:BA:357:C:H2'	26:BA:358:U:C6	2.54	0.43
26:BA:534:U:O2'	41:BQ:48:ASP:OD1	2.28	0.43
26:BA:697:G:C2	26:BA:766:U:O2	2.72	0.43
26:BA:751:A:C6	26:BA:789:A:C5	3.07	0.43
26:BA:848:C:H2'	26:BA:849:A:C8	2.53	0.43
26:BA:889:C:C2	26:BA:891:G:C6	3.06	0.43
26:BA:907:G:O3'	37:BM:22:GLN:HB2	2.19	0.43
26:BA:912:C:N3	26:BA:913:U:H5	2.17	0.43
26:BA:929:U:H4'	50:BZ:37:ARG:NH2	2.33	0.43
26:BA:1090:A:N1	26:BA:1091:G:C5	2.87	0.43
26:BA:1881:C:H2'	26:BA:1882:U:O4'	2.18	0.43
26:BA:1981:A:O5'	26:BA:1982:U:OP2	2.37	0.43
26:BA:2055:C:C5'	26:BA:2056:G:OP1	2.67	0.43
26:BA:2162:G:OP2	26:BA:2164:C:N4	2.52	0.43
26:BA:2733:A:H2'	26:BA:2734:A:H8	1.83	0.43
26:BA:2858:C:O5'	26:BA:2858:C:H6	2.02	0.43
26:BA:2882:A:H2'	26:BA:2883:A:O5'	2.19	0.43
27:BC:83:ASP:OD1	27:BC:85:ASN:N	2.51	0.43
30:BF:67:THR:OG1	30:BF:85:GLY:C	2.62	0.43
32:BH:45:GLU:O	32:BH:48:GLU:HB3	2.18	0.43
32:BH:116:ARG:HB2	32:BH:131:SER:O	2.19	0.43
33:BI:57:VAL:CG1	33:BI:68:PHE:HA	2.49	0.43
33:BI:79:LEU:HD11	33:BI:132:ALA:CA	2.49	0.43
37:BM:7:THR:O	37:BM:8:LYS:C	2.57	0.43
39:BO:77:ALA:O	39:BO:81:ARG:HG3	2.19	0.43
41:BQ:39:ILE:HG22	41:BQ:40:LYS:N	2.34	0.43
41:BQ:91:ARG:HG2	41:BQ:91:ARG:H	1.63	0.43
46:BV:48:MET:HE3	46:BV:51:GLN:HE21	1.84	0.43
1:AA:66:A:C6	1:AA:67:C:C5	3.07	0.42
1:AA:208:U:O4	1:AA:210:C:N3	2.52	0.42
1:AA:258:G:C2	1:AA:259:G:C1'	3.01	0.42
1:AA:432:A:C2'	1:AA:433:G:O5'	2.67	0.42
1:AA:460:A:H5"	1:AA:461:A:OP2	2.18	0.42
1:AA:669:G:O2'	1:AA:670:G:H5'	2.18	0.42
1:AA:674:G:OP1	6:AF:86:ARG:NH2	2.52	0.42
1:AA:850:U:H2'	1:AA:851:G:C5'	2.49	0.42
1:AA:923:A:C4'	5:AE:25:LYS:HE2	2.48	0.42
1:AA:1000:A:N3	1:AA:1041:G:N2	2.66	0.42
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1182:G:H5”	1:AA:1183:U:H5’	2.01	0.42
1:AA:1225:A:OP1	13:AM:100:ARG:HA	2.18	0.42
2:AB:58:LYS:HD3	2:AB:58:LYS:C	2.43	0.42
2:AB:101:THR:HB	2:AB:174:GLU:OE1	2.19	0.42
2:AB:116:LEU:CB	2:AB:140:LEU:HD11	2.48	0.42
2:AB:177:ASN:OD1	2:AB:178:LEU:HD23	2.19	0.42
3:AC:69:THR:HG21	3:AC:75:VAL:HG21	2.00	0.42
5:AE:45:VAL:HG22	5:AE:117:ALA:HB1	2.01	0.42
5:AE:57:ALA:O	5:AE:58:ALA:C	2.62	0.42
6:AF:3:HIS:C	6:AF:4:TYR:CG	2.97	0.42
6:AF:4:TYR:HA	6:AF:90:MET:O	2.19	0.42
6:AF:17:GLN:OE1	6:AF:21:MET:HG3	2.19	0.42
7:AG:11:ILE:CD1	7:AG:23:ALA:HB3	2.49	0.42
9:AI:35:GLU:OE2	9:AI:39:GLY:HA3	2.18	0.42
13:AM:22:TYR:CE2	13:AM:68:LEU:HD23	2.54	0.42
14:AN:41:ARG:CB	14:AN:42:TRP:CE3	3.01	0.42
14:AN:87:ALA:O	14:AN:88:ALA:C	2.61	0.42
17:AQ:16:MET:HB2	17:AQ:19:SER:CB	2.49	0.42
17:AQ:27:PHE:CE1	17:AQ:36:PHE:HB3	2.54	0.42
17:AQ:59:GLU:HG2	17:AQ:75:VAL:CG2	2.47	0.42
20:AT:48:LYS:CD	20:AT:48:LYS:C	2.92	0.42
20:AT:53:MET:O	20:AT:54:GLN:C	2.60	0.42
22:AV:28:U:H5”	30:BF:111:ARG:NH2	2.34	0.42
22:AV:29:G:C8	22:AV:29:G:O5’	2.71	0.42
22:AV:147:C:H2’	22:AV:148:U:C5	2.52	0.42
22:AV:206:A:O3’	22:AV:207:A:H8	2.01	0.42
22:AV:314:C:C1’	22:AV:315:G:P	3.07	0.42
24:AX:34:U:O2	24:AX:36:A:C8	2.72	0.42
25:AY:75:LYS:O	25:AY:77:HIS:CD2	2.72	0.42
25:AY:166:LEU:HD21	25:AY:212:TYR:CD2	2.53	0.42
25:AY:308:PRO:O	25:AY:333:GLY:N	2.52	0.42
25:AY:335:LEU:CD2	25:AY:355:LEU:HD11	2.49	0.42
25:AY:656:ALA:C	25:AY:658:ASP:H	2.26	0.42
26:BA:178:G:H8	26:BA:178:G:O5’	2.02	0.42
26:BA:182:A:C5	26:BA:183:C:C4	3.07	0.42
26:BA:186:G:C2	26:BA:187:G:C8	3.07	0.42
26:BA:869:G:N3	26:BA:870:U:C6	2.87	0.42
26:BA:899:A:H2’	26:BA:900:A:H5”	2.01	0.42
26:BA:1060:U:H4’	26:BA:1062:G:H5’	1.95	0.42
26:BA:1631:G:N2	26:BA:1633:G:H3’	2.34	0.42
26:BA:1684:G:C6	26:BA:1685:C:N4	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1799:G:O6	27:BC:177:SER:HB3	2.18	0.42
26:BA:2221:G:C2'	26:BA:2222:C:C5'	2.96	0.42
26:BA:2379:G:H2'	26:BA:2380:C:C6	2.54	0.42
26:BA:2808:G:C2	26:BA:2891:U:C6	3.06	0.42
28:BD:177:VAL:O	28:BD:177:VAL:HG22	2.19	0.42
29:BE:96:VAL:O	29:BE:97:ASN:C	2.62	0.42
29:BE:108:ILE:CD1	36:BL:2:ARG:HH12	2.33	0.42
29:BE:193:VAL:O	29:BE:197:GLU:HB2	2.19	0.42
30:BF:94:ARG:HB3	30:BF:94:ARG:HH11	1.84	0.42
32:BH:46:PHE:CD2	32:BH:47:PHE:N	2.85	0.42
33:BI:54:ILE:HG21	33:BI:71:LYS:O	2.19	0.42
34:BJ:23:LYS:CE	34:BJ:142:ILE:OXT	2.67	0.42
34:BJ:77:HIS:CD2	34:BJ:79:GLY:N	2.86	0.42
36:BL:109:LYS:CE	36:BL:128:THR:HG22	2.45	0.42
36:BL:114:GLY:C	36:BL:115:GLU:HG3	2.44	0.42
37:BM:50:ARG:O	37:BM:53:MET:HG2	2.19	0.42
39:BO:88:LYS:O	39:BO:89:ASP:HB2	2.18	0.42
43:BS:18:ARG:O	43:BS:19:LEU:C	2.58	0.42
47:BW:28:LEU:O	47:BW:29:ALA:C	2.61	0.42
48:BX:63:ILE:HD12	48:BX:63:ILE:O	2.19	0.42
49:BY:5:GLU:HG3	49:BY:56:LEU:HD11	1.98	0.42
54:B3:31:ILE:HG23	54:B3:34:LYS:HE3	2.01	0.42
1:AA:108:G:N7	20:AT:9:ARG:HG2	2.34	0.42
1:AA:145:G:C2	1:AA:146:G:C8	3.07	0.42
1:AA:406:G:C8	1:AA:495:A:C4	3.07	0.42
1:AA:499:A:H61	1:AA:547:A:H5"	1.83	0.42
1:AA:626:G:H2'	1:AA:627:G:O4'	2.20	0.42
1:AA:723:U:C5'	1:AA:724:G:O5'	2.65	0.42
1:AA:831:A:OP1	2:AB:20:ARG:HG3	2.19	0.42
1:AA:894:G:C2	1:AA:895:G:C8	3.07	0.42
1:AA:1032:G:C2	1:AA:1033:G:C1'	2.95	0.42
1:AA:1056:U:O2	1:AA:1057:G:C8	2.73	0.42
1:AA:1255:G:H5"	1:AA:1256:A:OP1	2.19	0.42
1:AA:1293:C:N3	1:AA:1294:G:C8	2.88	0.42
1:AA:1434:A:H8	1:AA:1434:A:O5'	2.02	0.42
1:AA:1508:A:H2'	1:AA:1509:C:O4'	2.18	0.42
2:AB:147:LEU:HD23	2:AB:147:LEU:HA	1.89	0.42
5:AE:149:PRO:HA	8:AH:98:LEU:CD1	2.49	0.42
7:AG:13:PRO:O	7:AG:14:ASP:O	2.37	0.42
8:AH:100:ILE:HD11	8:AH:128:VAL:CB	2.49	0.42
11:AK:41:LEU:HB2	11:AK:73:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:47:GLY:C	11:AK:49:SER:H	2.27	0.42
11:AK:109:ILE:HB	21:AU:5:VAL:HG22	2.00	0.42
12:AL:55:ARG:HD3	25:AY:422:GLU:OE1	2.19	0.42
12:AL:57:THR:CG2	12:AL:58:ASN:N	2.82	0.42
12:AL:113:ARG:O	12:AL:115:LYS:O	2.36	0.42
13:AM:22:TYR:CE2	13:AM:69:ARG:HG2	2.55	0.42
13:AM:38:ILE:HG22	13:AM:39:ALA:N	2.34	0.42
13:AM:78:ARG:O	13:AM:81:ASP:HB2	2.19	0.42
14:AN:7:ALA:O	14:AN:10:VAL:HB	2.18	0.42
14:AN:93:ILE:HA	14:AN:94:PRO:HD3	1.70	0.42
16:AP:39:PHE:CD1	16:AP:40:ASN:N	2.87	0.42
17:AQ:76:ARG:HH21	17:AQ:78:VAL:HG22	1.84	0.42
20:AT:34:VAL:HG11	20:AT:78:LEU:HD22	2.01	0.42
21:AU:13:VAL:C	21:AU:15:LEU:HG	2.44	0.42
22:AV:34:A:C2	22:AV:321:G:N3	2.87	0.42
22:AV:198:U:O4	22:AV:229:U:H3’	2.19	0.42
22:AV:199:C:C3’	22:AV:200:G:C8	2.99	0.42
22:AV:219:G:N3	22:AV:220:G:C8	2.88	0.42
22:AV:237:U:O2’	22:AV:238:A:O5’	2.30	0.42
23:AW:72:ASP:HB3	23:AW:75:ARG:HE	1.84	0.42
25:AY:250:THR:C	25:AY:252:ASP:N	2.77	0.42
25:AY:555:LEU:HD21	25:AY:599:PRO:HG2	1.98	0.42
26:BA:612:G:H2’	26:BA:614:A:C8	2.55	0.42
26:BA:684:G:C2	26:BA:794:A:C2	3.07	0.42
26:BA:904:G:C2	26:BA:905:A:C5	3.06	0.42
26:BA:1063:G:H4’	33:BI:76:ALA:HB3	2.00	0.42
26:BA:1416:G:O2’	26:BA:1417:C:OP2	2.37	0.42
26:BA:1419:A:N7	26:BA:1421:G:C6	2.87	0.42
26:BA:1483:G:N2	26:BA:1507:C:O2	2.52	0.42
26:BA:1530:G:N3	26:BA:1530:G:C2’	2.81	0.42
26:BA:1717:A:C2’	26:BA:1718:G:O5’	2.67	0.42
26:BA:2051:A:H5’	26:BA:2578:G:O4’	2.19	0.42
26:BA:2141:G:C2	26:BA:2142:A:C1’	3.02	0.42
26:BA:2172:U:P	26:BA:2174:C:H5	2.41	0.42
26:BA:2259:U:C4	26:BA:2427:C:N4	2.86	0.42
26:BA:2303:G:C4	26:BA:2304:G:N7	2.86	0.42
26:BA:2555:U:C5	26:BA:2556:C:C2	3.08	0.42
26:BA:2681:C:C2	26:BA:2724:U:O4	2.71	0.42
26:BA:2727:A:H2’	26:BA:2728:U:H5’	2.01	0.42
27:BC:221:GLY:HA2	27:BC:224:MET:HG3	2.00	0.42
27:BC:257:ARG:HG3	27:BC:258:SER:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BD:111:GLY:HA3	28:BD:194:PRO:HB2	2.01	0.42
29:BE:176:ASP:OD1	29:BE:177:PRO:N	2.53	0.42
30:BF:36:ASN:ND2	30:BF:37:MET:H	2.17	0.42
30:BF:39:VAL:O	30:BF:41:GLU:N	2.51	0.42
31:BG:25:ILE:O	31:BG:25:ILE:HG22	2.19	0.42
31:BG:114:HIS:CD2	31:BG:147:LEU:CD2	2.99	0.42
33:BI:107:GLU:CA	33:BI:110:GLN:HB3	2.40	0.42
35:BK:74:GLY:O	35:BK:75:SER:O	2.36	0.42
36:BL:100:ILE:C	36:BL:101:ILE:HG23	2.45	0.42
37:BM:12:MET:HE3	37:BM:71:LYS:HA	2.01	0.42
38:BN:13:ASN:ND2	38:BN:16:HIS:H	2.17	0.42
39:BO:3:LYS:NZ	56:BB:30:C:OP1	2.52	0.42
39:BO:76:LYS:HE3	39:BO:80:GLU:CD	2.43	0.42
42:BR:12:HIS:CE1	42:BR:22:LEU:CD2	3.02	0.42
43:BS:9:HIS:O	43:BS:10:ALA:C	2.62	0.42
53:B2:10:LEU:HA	53:B2:10:LEU:HD12	1.82	0.42
1:AA:108:G:N3	1:AA:108:G:O4'	2.52	0.42
1:AA:295:C:H2'	1:AA:296:U:H6	1.84	0.42
1:AA:499:A:C4'	1:AA:500:G:OP1	2.65	0.42
1:AA:538:G:OP2	12:AL:111:GLN:HG3	2.19	0.42
1:AA:613:C:C2	1:AA:628:G:N2	2.87	0.42
1:AA:737:C:H2'	1:AA:738:C:O5'	2.19	0.42
1:AA:807:A:H2'	1:AA:808:C:O4'	2.20	0.42
1:AA:825:A:C6	1:AA:826:C:C4	3.07	0.42
1:AA:1038:C:C2	1:AA:1039:G:C8	3.08	0.42
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.54	0.42
1:AA:1129:C:H5"	9:AI:17:ARG:NH2	2.34	0.42
1:AA:1141:C:O2'	1:AA:1142:G:P	2.78	0.42
1:AA:1161:C:H2'	1:AA:1162:C:C5	2.52	0.42
1:AA:1257:A:H4'	1:AA:1258:G:OP2	2.19	0.42
1:AA:1431:A:C6	1:AA:1432:G:O6	2.72	0.42
2:AB:21:TYR:CD1	2:AB:21:TYR:N	2.87	0.42
3:AC:81:GLU:O	3:AC:84:GLU:HB3	2.20	0.42
4:AD:106:PHE:HD1	4:AD:158:LEU:CD2	2.32	0.42
4:AD:109:THR:OG1	4:AD:111:ALA:HB3	2.19	0.42
4:AD:158:LEU:O	4:AD:159:GLU:O	2.37	0.42
5:AE:110:MET:O	5:AE:114:LEU:HB2	2.20	0.42
5:AE:148:SER:O	5:AE:152:VAL:CG1	2.67	0.42
8:AH:6:ILE:O	8:AH:10:LEU:CD2	2.65	0.42
8:AH:105:THR:C	8:AH:107:LYS:N	2.78	0.42
9:AI:55:ASP:CG	9:AI:56:MET:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:32:THR:O	10:AJ:33:GLY:C	2.62	0.42
12:AL:42:LYS:O	12:AL:44:PRO:HD2	2.19	0.42
12:AL:55:ARG:CD	25:AY:422:GLU:OE1	2.67	0.42
14:AN:81:ARG:O	14:AN:82:ILE:C	2.58	0.42
18:AR:40:PRO:HG2	18:AR:43:ILE:HG12	2.00	0.42
19:AS:6:LYS:HB3	19:AS:6:LYS:HE3	1.86	0.42
22:AV:10:U:H5	23:AW:109:GLU:HB3	1.82	0.42
22:AV:14:G:C2	22:AV:343:C:C4	2.82	0.42
22:AV:37:C:C6	22:AV:37:C:O5'	2.72	0.42
22:AV:55:G:C6	22:AV:56:C:C4	3.07	0.42
22:AV:60:U:H2'	22:AV:62:G:O3'	2.19	0.42
22:AV:66:C:H2'	22:AV:67:G:O5'	2.19	0.42
22:AV:112:U:H2'	22:AV:113:A:H8	1.83	0.42
22:AV:114:G:N2	22:AV:132:U:N3	2.48	0.42
22:AV:187:C:N3	22:AV:188:C:C5	2.87	0.42
22:AV:213:G:N2	22:AV:214:C:C2	2.87	0.42
22:AV:344:A:H2'	22:AV:345:A:H5'	2.02	0.42
22:AV:361:C:C2'	22:AV:362:C:H5'	2.49	0.42
23:AW:44:SER:CA	23:AW:57:ASN:HD22	2.31	0.42
23:AW:47:ARG:O	23:AW:53:LEU:HD12	2.17	0.42
24:AX:4:G:H2'	24:AX:5:G:H8	1.83	0.42
25:AY:17:ILE:HG21	25:AY:25:LYS:HA	2.01	0.42
25:AY:34:TYR:O	25:AY:38:ARG:HB2	2.19	0.42
25:AY:88:VAL:O	25:AY:89:ASP:C	2.62	0.42
25:AY:229:LEU:O	25:AY:231:TYR:N	2.52	0.42
25:AY:289:ILE:HD12	25:AY:331:TYR:CE2	2.54	0.42
25:AY:359:HIS:C	25:AY:361:ASN:N	2.77	0.42
25:AY:485:GLU:HB2	25:AY:560:VAL:HA	1.99	0.42
26:BA:858:G:O2'	26:BA:2268:A:H1'	2.19	0.42
26:BA:924:G:H2'	26:BA:925:A:O4'	2.19	0.42
26:BA:1056:G:O2'	26:BA:1086:A:H8	2.02	0.42
26:BA:1058:U:O2	26:BA:1058:U:H2'	2.18	0.42
26:BA:1071:G:C4	26:BA:1089:A:C5	3.07	0.42
26:BA:1467:U:C4	26:BA:1546:G:N3	2.87	0.42
26:BA:1467:U:C4	26:BA:1546:G:N2	2.87	0.42
26:BA:1524:G:H2'	26:BA:1525:A:O4'	2.20	0.42
26:BA:1599:U:OP2	44:BT:40:LYS:HG3	2.18	0.42
26:BA:2111:U:C4	26:BA:2145:C:O2	2.73	0.42
26:BA:2130:U:O2	26:BA:2158:A:H2	2.02	0.42
26:BA:2183:A:C2	26:BA:2184:A:C5	3.07	0.42
26:BA:2192:U:C2'	26:BA:2193:G:H5'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:2193:G:N3	26:BA:2194:U:C6	2.87	0.42
26:BA:2592:G:H8	26:BA:2592:G:O5'	2.01	0.42
28:BD:2:ILE:CD1	28:BD:90:PHE:CZ	3.02	0.42
30:BF:142:TYR:HA	30:BF:145:VAL:CG1	2.49	0.42
31:BG:163:TYR:O	31:BG:166:GLU:HB3	2.20	0.42
33:BI:75:ALA:CB	33:BI:128:ILE:HG23	2.50	0.42
33:BI:75:ALA:C	33:BI:131:THR:HG21	2.44	0.42
34:BJ:96:ARG:HA	34:BJ:97:PRO:HD3	1.71	0.42
35:BK:108:ARG:HH12	40:BP:34:GLY:CA	2.32	0.42
37:BM:4:PRO:HG3	37:BM:70:ASP:HA	2.01	0.42
40:BP:59:THR:HG23	40:BP:72:VAL:HG12	2.00	0.42
42:BR:49:ILE:O	42:BR:51:VAL:O	2.37	0.42
42:BR:63:VAL:HA	42:BR:96:VAL:HG12	2.01	0.42
44:BT:69:ARG:O	44:BT:69:ARG:HG3	2.18	0.42
45:BU:71:ILE:HD13	45:BU:82:VAL:CG2	2.49	0.42
47:BW:45:ALA:H	47:BW:77:SER:HB3	1.84	0.42
49:BY:22:LEU:CG	49:BY:23:ARG:N	2.83	0.42
56:BB:55:U:O2	56:BB:55:U:C2'	2.60	0.42
1:AA:93:U:C2'	1:AA:94:G:C5'	2.97	0.42
1:AA:134:G:H1'	1:AA:325:A:C5	2.54	0.42
1:AA:141:G:C5	1:AA:142:G:N7	2.87	0.42
1:AA:195:A:H1'	1:AA:222:C:O2'	2.20	0.42
1:AA:262:A:C6	1:AA:263:A:C6	3.07	0.42
1:AA:1119:C:H2'	1:AA:1120:C:C6	2.55	0.42
1:AA:1310:G:C2	1:AA:1328:C:C2	3.07	0.42
1:AA:1367:C:N3	1:AA:1368:A:C8	2.87	0.42
1:AA:1367:C:P	9:AI:113:LYS:HZ1	2.42	0.42
1:AA:1458:G:OP1	20:AT:29:THR:OG1	2.31	0.42
1:AA:1537:U:H5"	7:AG:84:TYR:CE1	2.55	0.42
4:AD:88:ASN:O	4:AD:92:LEU:HD23	2.20	0.42
4:AD:104:MET:SD	4:AD:106:PHE:CE2	3.12	0.42
4:AD:151:GLN:O	4:AD:154:VAL:HG12	2.19	0.42
4:AD:162:GLU:HA	4:AD:166:LYS:HE2	2.01	0.42
9:AI:29:ILE:CG2	9:AI:34:LEU:HD12	2.49	0.42
10:AJ:22:THR:O	10:AJ:23:ALA:C	2.61	0.42
10:AJ:47:GLU:HB2	10:AJ:49:PHE:CE1	2.55	0.42
11:AK:34:THR:HB	11:AK:40:ALA:HA	2.01	0.42
11:AK:83:VAL:O	11:AK:83:VAL:HG12	2.18	0.42
12:AL:49:ARG:HB3	12:AL:89:LEU:HD21	1.99	0.42
13:AM:103:THR:O	13:AM:104:ASN:C	2.61	0.42
15:AO:44:GLU:O	15:AO:45:HIS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:86:LEU:O	15:AO:87:ARG:CB	2.68	0.42
16:AP:7:ALA:O	16:AP:9:HIS:N	2.51	0.42
17:AQ:47:ASP:C	17:AQ:48:GLU:O	2.61	0.42
19:AS:39:ILE:HB	19:AS:65:MET:O	2.19	0.42
20:AT:23:ARG:O	20:AT:26:MET:N	2.51	0.42
23:AW:83:LYS:CA	23:AW:86:LEU:HD22	2.46	0.42
25:AY:134:ALA:HB3	25:AY:258:VAL:HG22	2.02	0.42
25:AY:252:ASP:HB3	25:AY:254:LYS:NZ	2.34	0.42
25:AY:356:LEU:HD23	25:AY:356:LEU:C	2.45	0.42
25:AY:519:ARG:HH12	25:AY:678:GLU:CB	2.32	0.42
25:AY:525:PHE:HA	25:AY:565:VAL:O	2.18	0.42
25:AY:601:ILE:O	25:AY:679:VAL:HG13	2.19	0.42
26:BA:188:G:H5"	26:BA:188:G:H8	1.84	0.42
26:BA:189:G:OP1	48:BX:25:LYS:HD2	2.19	0.42
26:BA:578:G:O2'	26:BA:580:U:OP2	2.30	0.42
26:BA:878:A:C2	26:BA:879:G:C4	3.07	0.42
26:BA:904:G:O2'	26:BA:905:A:C5'	2.60	0.42
26:BA:1117:C:C2'	26:BA:1118:C:H5'	2.49	0.42
26:BA:1314:C:O2	26:BA:1314:C:C2'	2.61	0.42
26:BA:1428:C:O2'	26:BA:1569:A:OP2	2.31	0.42
26:BA:1689:A:C6	26:BA:1700:A:C2	3.06	0.42
26:BA:1864:U:OP1	26:BA:2411:A:H5'	2.20	0.42
26:BA:2140:G:C2	26:BA:2141:G:C8	3.08	0.42
26:BA:2170:A:N3	26:BA:2171:A:N7	2.67	0.42
26:BA:2218:G:C4	26:BA:2219:U:C5	3.07	0.42
26:BA:2345:G:H5'	26:BA:2347:C:O4'	2.19	0.42
26:BA:2636:C:O2	26:BA:2636:C:H2'	2.18	0.42
26:BA:2875:C:C2'	26:BA:2876:G:O5'	2.68	0.42
27:BC:259:ASN:C	27:BC:260:LYS:HG3	2.44	0.42
28:BD:127:PHE:HZ	28:BD:160:LYS:HB2	1.85	0.42
29:BE:23:PHE:HE1	29:BE:28:VAL:HG21	1.84	0.42
29:BE:118:LEU:HD12	29:BE:119:ILE:H	1.81	0.42
33:BI:56:VAL:HA	33:BI:71:LYS:CE	2.49	0.42
36:BL:75:ALA:HB3	36:BL:108:ALA:HB2	2.01	0.42
36:BL:110:VAL:C	36:BL:111:ILE:HD12	2.43	0.42
40:BP:87:ARG:NH2	40:BP:111:GLU:HB2	2.35	0.42
41:BQ:26:ALA:HB1	41:BQ:33:VAL:CG2	2.48	0.42
43:BS:1:MET:HE3	43:BS:62:ASP:HB3	2.01	0.42
47:BW:64:LYS:HD3	47:BW:79:GLU:OE2	2.19	0.42
49:BY:59:GLU:O	49:BY:63:ALA:CB	2.68	0.42
51:B0:28:SER:O	51:B0:36:LYS:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B3:37:THR:O	54:B3:38:LYS:C	2.60	0.42
56:BB:96:G:C2'	56:BB:97:C:H5'	2.49	0.42
1:AA:60:A:C2	1:AA:107:G:N3	2.88	0.42
1:AA:96:U:O2'	1:AA:97:G:P	2.77	0.42
1:AA:164:G:N2	1:AA:165:G:H1'	2.34	0.42
1:AA:304:U:C2'	1:AA:305:G:H5'	2.49	0.42
1:AA:542:G:N1	1:AA:543:U:C4	2.88	0.42
1:AA:663:A:C2'	1:AA:664:G:H5'	2.48	0.42
1:AA:677:U:H3	1:AA:713:G:H1	1.66	0.42
1:AA:725:G:H2'	1:AA:726:C:H5'	2.02	0.42
1:AA:833:G:C6	1:AA:834:U:C4	3.06	0.42
1:AA:935:A:N1	1:AA:936:C:C4	2.87	0.42
1:AA:949:A:C6	1:AA:950:U:C4	3.07	0.42
1:AA:976:G:C8	1:AA:1358:U:C2	3.07	0.42
1:AA:1031:C:C3'	1:AA:1032:G:H5"	2.50	0.42
1:AA:1246:A:C6	1:AA:1292:G:C6	3.07	0.42
1:AA:1260:G:H4'	1:AA:1283:U:O2'	2.19	0.42
1:AA:1387:G:C2	1:AA:1388:C:C4	3.07	0.42
1:AA:1480:A:C6	1:AA:1481:U:C4	3.08	0.42
1:AA:1495:U:O2	1:AA:1495:U:H2'	2.20	0.42
2:AB:47:PRO:O	2:AB:50:ASN:HB2	2.19	0.42
2:AB:130:LYS:HA	2:AB:130:LYS:CE	2.43	0.42
2:AB:137:THR:O	2:AB:141:GLU:HG3	2.19	0.42
2:AB:143:LEU:O	2:AB:147:LEU:HB2	2.20	0.42
2:AB:145:ASN:OD1	2:AB:145:ASN:N	2.52	0.42
2:AB:195:VAL:CG1	2:AB:197:PHE:C	2.92	0.42
3:AC:5:HIS:CB	14:AN:89:MET:HG3	2.49	0.42
3:AC:128:MET:HE2	3:AC:128:MET:HB2	1.91	0.42
4:AD:60:VAL:O	4:AD:61:ARG:C	2.60	0.42
5:AE:82:HIS:HE1	5:AE:146:MET:CG	2.33	0.42
7:AG:69:ARG:O	7:AG:137:ARG:HD3	2.20	0.42
8:AH:21:LYS:N	8:AH:64:TYR:OH	2.52	0.42
10:AJ:83:THR:CG2	10:AJ:84:VAL:N	2.82	0.42
11:AK:125:LYS:N	11:AK:125:LYS:CD	2.82	0.42
12:AL:85:ARG:CZ	12:AL:87:LYS:HB3	2.49	0.42
15:AO:78:THR:O	15:AO:79:GLN:C	2.62	0.42
16:AP:44:SER:OG	16:AP:46:LYS:HD2	2.20	0.42
19:AS:46:LEU:O	19:AS:61:VAL:HG23	2.18	0.42
22:AV:8:A:O2'	23:AW:35:ARG:NE	2.52	0.42
22:AV:69:A:O2'	22:AV:70:A:OP2	2.30	0.42
22:AV:71:A:HO2'	22:AV:72:A:H8	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:196:G:C5	22:AV:230:U:OP2	2.72	0.42
22:AV:248:G:N1	22:AV:249:U:C4	2.88	0.42
23:AW:48:PHE:CZ	23:AW:93:VAL:HG11	2.46	0.42
23:AW:61:ALA:O	23:AW:63:TYR:N	2.52	0.42
25:AY:16:GLY:N	25:AY:101:LEU:CD1	2.83	0.42
25:AY:137:ASN:C	25:AY:137:ASN:HD22	2.28	0.42
25:AY:260:LEU:O	25:AY:268:GLY:HA3	2.19	0.42
25:AY:420:ASP:C	25:AY:422:GLU:H	2.27	0.42
25:AY:623:ASP:HB2	25:AY:662:LYS:HE3	2.01	0.42
26:BA:186:G:N2	26:BA:187:G:C5	2.88	0.42
26:BA:323:C:O2	26:BA:323:C:O4'	2.31	0.42
26:BA:538:A:O2'	34:BJ:8:PRO:HD2	2.18	0.42
26:BA:900:A:C2	26:BA:901:C:N4	2.70	0.42
26:BA:1056:G:H4'	26:BA:1086:A:N7	2.34	0.42
26:BA:1078:U:C5'	26:BA:1079:C:OP1	2.67	0.42
26:BA:1084:A:C6	26:BA:1085:A:N6	2.88	0.42
26:BA:1104:C:O2	26:BA:1105:U:C5	2.72	0.42
26:BA:1279:G:O4'	38:BN:31:HIS:CE1	2.72	0.42
26:BA:1315:C:H2'	26:BA:1316:U:O5'	2.19	0.42
26:BA:1407:G:C2'	26:BA:1408:G:H5'	2.49	0.42
26:BA:1434:A:O2'	26:BA:1435:G:O4'	2.37	0.42
26:BA:1770:G:C6	26:BA:1983:G:C5	3.08	0.42
26:BA:1911:U:C2	26:BA:1918:A:C2	3.08	0.42
26:BA:1914:C:C5	26:BA:1915:U:C5	3.08	0.42
26:BA:2179:C:C2'	26:BA:2180:U:H5'	2.49	0.42
26:BA:2474:U:C5'	26:BA:2475:C:OP2	2.67	0.42
30:BF:6:TYR:CE2	30:BF:11:VAL:HG22	2.54	0.42
31:BG:124:CYS:O	31:BG:125:PRO:C	2.60	0.42
32:BH:28:ASN:H	32:BH:32:PRO:HG2	1.85	0.42
33:BI:5:GLN:O	33:BI:5:GLN:CG	2.67	0.42
33:BI:28:GLY:O	33:BI:34:ILE:CD1	2.66	0.42
33:BI:56:VAL:HG21	33:BI:70:THR:CA	2.49	0.42
33:BI:57:VAL:H	33:BI:71:LYS:HE2	1.83	0.42
33:BI:79:LEU:HD22	33:BI:137:LEU:HD11	2.01	0.42
33:BI:97:VAL:HG12	33:BI:98:GLY:N	2.34	0.42
35:BK:75:SER:C	35:BK:76:VAL:HG23	2.45	0.42
35:BK:108:ARG:NH1	40:BP:34:GLY:HA2	2.34	0.42
37:BM:12:MET:HE3	37:BM:72:PRO:HD3	2.00	0.42
37:BM:74:THR:HG22	37:BM:88:ASN:C	2.45	0.42
41:BQ:87:VAL:CG1	42:BR:49:ILE:HD11	2.48	0.42
43:BS:27:LYS:C	43:BS:28:LYS:O	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BV:29:ILE:HD13	46:BV:38:LEU:O	2.19	0.42
56:BB:8:C:H2'	56:BB:9:G:O4'	2.19	0.42
1:AA:219:U:C2	1:AA:220:G:C8	3.07	0.42
1:AA:293:G:C4	1:AA:294:U:C5	3.08	0.42
1:AA:299:G:C2'	1:AA:300:A:O5'	2.68	0.42
1:AA:610:U:C2'	1:AA:611:C:O5'	2.68	0.42
1:AA:687:A:C5	1:AA:701:U:C5	3.07	0.42
1:AA:721:G:O4'	1:AA:722:G:C5	2.73	0.42
1:AA:849:G:C2'	1:AA:850:U:O5'	2.68	0.42
1:AA:944:G:C2'	1:AA:1338:G:O6	2.66	0.42
1:AA:980:C:H5	1:AA:981:U:C4	2.38	0.42
1:AA:1079:G:OP1	5:AE:49:TYR:CD1	2.72	0.42
1:AA:1296:C:C4'	1:AA:1302:C:N4	2.83	0.42
2:AB:14:HIS:HB3	2:AB:208:ALA:HB2	2.01	0.42
2:AB:150:ILE:HG23	2:AB:151:LYS:N	2.26	0.42
3:AC:41:TYR:CG	3:AC:42:LEU:N	2.86	0.42
4:AD:152:SER:O	4:AD:155:LYS:HB2	2.20	0.42
5:AE:82:HIS:CE1	5:AE:146:MET:CG	3.02	0.42
7:AG:70:PRO:O	7:AG:95:ARG:CD	2.68	0.42
8:AH:17:GLN:O	8:AH:18:ALA:C	2.62	0.42
10:AJ:5:ARG:CG	10:AJ:79:PRO:HG3	2.50	0.42
11:AK:51:PHE:HB2	11:AK:55:ARG:HB3	1.96	0.42
15:AO:29:ALA:HA	15:AO:84:LEU:HD21	2.01	0.42
22:AV:68:U:H3	22:AV:303:G:H8	1.57	0.42
22:AV:130:C:H2'	22:AV:132:U:C5	2.54	0.42
22:AV:315:G:C2'	22:AV:316:A:C8	3.02	0.42
25:AY:289:ILE:HD11	25:AY:331:TYR:CZ	2.55	0.42
26:BA:551:G:H2'	26:BA:552:U:C5'	2.48	0.42
26:BA:623:C:H2'	26:BA:624:C:C6	2.54	0.42
26:BA:1050:A:C2	26:BA:2751:G:C4	3.07	0.42
26:BA:1104:C:N3	26:BA:1105:U:C5	2.88	0.42
26:BA:1116:G:C6	26:BA:1117:C:C4	3.08	0.42
26:BA:1394:U:C4	26:BA:1395:A:C6	3.07	0.42
26:BA:1724:G:H2'	26:BA:1725:U:H5'	2.02	0.42
26:BA:1735:A:C2	26:BA:1736:U:N1	2.87	0.42
26:BA:2133:G:H2'	26:BA:2158:A:N6	2.32	0.42
26:BA:2452:C:C4	26:BA:2453:A:C6	3.07	0.42
26:BA:2800:A:C2	26:BA:2895:G:H1'	2.55	0.42
27:BC:159:THR:O	27:BC:194:VAL:HG12	2.20	0.42
31:BG:123:GLU:OE1	31:BG:123:GLU:CA	2.66	0.42
35:BK:53:LYS:O	35:BK:56:ASP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BO:14:ALA:O	39:BO:18:LEU:HD22	2.19	0.42
40:BP:1:SER:H2	40:BP:3:ILE:H	1.68	0.42
40:BP:32:VAL:CG1	40:BP:34:GLY:O	2.67	0.42
47:BW:17:LEU:HD23	47:BW:35:ARG:CB	2.50	0.42
48:BX:63:ILE:CD1	48:BX:67:LEU:HG	2.49	0.42
56:BB:112:G:H2'	56:BB:113:C:H6	1.80	0.42
1:AA:131:A:C2	1:AA:132:C:C4	3.08	0.42
1:AA:233:C:N3	1:AA:234:C:C5	2.87	0.42
1:AA:290:C:C6	1:AA:290:C:C3'	3.02	0.42
1:AA:490:C:C2	1:AA:491:G:C8	3.08	0.42
1:AA:771:G:H2'	1:AA:772:U:H5'	2.00	0.42
1:AA:782:A:H2'	1:AA:783:C:O4'	2.20	0.42
1:AA:877:G:H21	8:AH:1:SER:N	2.17	0.42
1:AA:882:C:O2'	1:AA:883:C:H5'	2.20	0.42
1:AA:918:A:N3	1:AA:919:A:C8	2.87	0.42
1:AA:1008:U:N3	1:AA:1022:A:C2	2.87	0.42
1:AA:1068:G:C2'	1:AA:1069:C:H5'	2.49	0.42
1:AA:1246:A:C5	1:AA:1247:U:C4	3.07	0.42
1:AA:1411:C:H2'	1:AA:1412:C:H5'	1.96	0.42
1:AA:1416:G:C6	1:AA:1417:G:C5	3.08	0.42
2:AB:110:ILE:CD1	2:AB:147:LEU:HD13	2.49	0.42
4:AD:120:LYS:HB2	4:AD:128:VAL:HG21	2.02	0.42
4:AD:164:ARG:O	4:AD:165:GLU:C	2.62	0.42
5:AE:64:GLU:OE2	5:AE:68:ARG:CZ	2.68	0.42
5:AE:84:VAL:HG21	5:AE:142:GLY:O	2.19	0.42
5:AE:131:ASN:ND2	5:AE:133:ILE:HG22	2.35	0.42
6:AF:18:VAL:HG21	6:AF:58:HIS:CE1	2.55	0.42
6:AF:51:ILE:HG13	6:AF:52:ASN:HB2	2.02	0.42
6:AF:90:MET:O	6:AF:91:ARG:C	2.62	0.42
8:AH:36:ALA:O	8:AH:45:ILE:HD11	2.20	0.42
9:AI:118:ARG:C	9:AI:119:LYS:HG2	2.43	0.42
12:AL:37:TYR:N	12:AL:37:TYR:CD2	2.87	0.42
14:AN:13:VAL:HA	14:AN:16:ALA:CB	2.50	0.42
16:AP:20:VAL:HG11	16:AP:32:PHE:HB3	2.02	0.42
16:AP:46:LYS:HD3	16:AP:47:GLU:N	2.35	0.42
17:AQ:15:LYS:O	17:AQ:16:MET:HE3	2.19	0.42
17:AQ:56:ASP:CG	17:AQ:80:LYS:HA	2.44	0.42
17:AQ:62:GLU:HB2	17:AQ:72:TRP:CZ3	2.55	0.42
18:AR:59:LYS:O	18:AR:60:ARG:C	2.63	0.42
19:AS:29:PRO:HB2	19:AS:30:LEU:H	1.71	0.42
22:AV:6:U:C2'	22:AV:7:G:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:21:C:C1'	23:AW:78:LYS:HZ2	2.30	0.42
22:AV:141:C:HO2'	22:AV:142:U:H5'	1.85	0.42
22:AV:175:A:C2	22:AV:176:G:C5	3.08	0.42
22:AV:290:A:O4'	22:AV:291:A:O4'	2.38	0.42
22:AV:333:G:O2'	22:AV:334:A:OP1	2.30	0.42
23:AW:44:SER:HA	23:AW:57:ASN:HB3	2.01	0.42
23:AW:52:GLU:H	23:AW:52:GLU:HG2	1.48	0.42
24:AX:56:U:H2'	24:AX:58:A:OP2	2.20	0.42
25:AY:12:LEU:C	25:AY:13:ARG:HD2	2.44	0.42
25:AY:165:GLN:HA	25:AY:178:ILE:O	2.19	0.42
25:AY:191:ASP:O	25:AY:266:ASN:ND2	2.52	0.42
25:AY:286:ILE:HA	25:AY:287:PRO:HD3	1.74	0.42
25:AY:513:LYS:N	25:AY:566:THR:O	2.51	0.42
25:AY:652:MET:HE2	25:AY:655:TYR:HB2	2.01	0.42
26:BA:130:C:H2'	26:BA:131:A:O5'	2.19	0.42
26:BA:273:G:C2	26:BA:365:U:O2	2.73	0.42
26:BA:306:U:C4	26:BA:307:G:C5	3.07	0.42
26:BA:457:A:O4'	26:BA:459:U:C6	2.72	0.42
26:BA:587:C:C2	36:BL:33:ARG:NH2	2.87	0.42
26:BA:876:C:N3	26:BA:902:C:N3	2.67	0.42
26:BA:911:A:OP2	26:BA:911:A:H8	2.02	0.42
26:BA:1444:G:C4	26:BA:1445:G:C8	3.08	0.42
26:BA:1588:G:C4	26:BA:1589:U:C5	3.08	0.42
26:BA:1590:A:H2'	26:BA:1591:A:C8	2.55	0.42
26:BA:1925:C:H5"	26:BA:1926:U:C5	2.55	0.42
26:BA:2126:A:C8	26:BA:2162:G:C2	3.07	0.42
26:BA:2164:C:H3'	26:BA:2165:C:C5	2.55	0.42
26:BA:2174:C:C2	26:BA:2175:C:C5	3.08	0.42
26:BA:2309:A:C6	26:BA:2310:C:C4	3.08	0.42
26:BA:2555:U:C3'	26:BA:2556:C:H5'	2.49	0.42
26:BA:2555:U:C2'	26:BA:2556:C:H5'	2.50	0.42
26:BA:2599:G:N7	27:BC:235:GLU:HB2	2.35	0.42
26:BA:2751:G:C5	31:BG:2:ARG:HD3	2.54	0.42
27:BC:15:VAL:HG13	27:BC:16:VAL:N	2.34	0.42
28:BD:121:THR:HG22	28:BD:125:TRP:HD1	1.85	0.42
29:BE:24:ASN:OD1	29:BE:27:LEU:CB	2.68	0.42
29:BE:48:THR:O	29:BE:50:ALA:N	2.53	0.42
29:BE:143:LEU:HB3	29:BE:146:VAL:HG11	2.01	0.42
30:BF:146:ASP:HB2	30:BF:149:ARG:NH2	2.34	0.42
31:BG:148:ARG:NH1	31:BG:148:ARG:HG2	2.34	0.42
37:BM:77:PRO:O	37:BM:78:LEU:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BO:71:ALA:O	39:BO:72:ALA:C	2.61	0.42
40:BP:33:GLU:HB2	40:BP:36:LYS:HB2	2.01	0.42
41:BQ:63:ARG:C	41:BQ:65:ASN:N	2.74	0.42
41:BQ:96:ASP:OD1	41:BQ:100:PHE:CD1	2.73	0.42
42:BR:29:THR:O	42:BR:29:THR:CG2	2.67	0.42
42:BR:39:LEU:N	42:BR:39:LEU:CD1	2.83	0.42
44:BT:3:ARG:HD2	44:BT:3:ARG:HA	1.83	0.42
44:BT:18:GLU:CD	44:BT:18:GLU:H	2.27	0.42
51:B0:48:TYR:O	51:B0:49:ARG:HB2	2.20	0.42
56:BB:59:A:C2'	56:BB:60:C:O5'	2.67	0.42
1:AA:57:G:H2'	1:AA:58:C:C6	2.55	0.42
1:AA:113:G:C1'	1:AA:354:G:H5'	2.50	0.42
1:AA:191:G:H2'	1:AA:192:A:H5'	2.02	0.42
1:AA:246:A:N3	1:AA:279:A:N6	2.67	0.42
1:AA:298:A:N6	1:AA:299:G:C2	2.88	0.42
1:AA:446:G:N2	1:AA:489:C:C2	2.88	0.42
1:AA:456:A:C2	1:AA:477:C:O2	2.73	0.42
1:AA:503:C:OP2	12:AL:112:ALA:HB2	2.20	0.42
1:AA:711:G:C2'	1:AA:712:A:H5'	2.49	0.42
1:AA:805:C:H2'	1:AA:806:C:H5'	2.01	0.42
1:AA:921:U:C3'	1:AA:921:U:C6	3.02	0.42
1:AA:942:G:C6	1:AA:1342:C:N4	2.88	0.42
1:AA:957:U:C2	1:AA:959:A:OP2	2.73	0.42
1:AA:1080:A:C3'	1:AA:1081:A:O4'	2.67	0.42
1:AA:1114:C:O2	1:AA:1115:U:C6	2.72	0.42
1:AA:1164:G:C2	1:AA:1165:U:C6	3.08	0.42
1:AA:1214:C:H4'	1:AA:1215:G:OP2	2.19	0.42
1:AA:1215:G:C2	1:AA:1216:A:N9	2.88	0.42
2:AB:159:ALA:O	2:AB:160:LEU:HB2	2.18	0.42
4:AD:201:GLU:O	4:AD:202:LEU:C	2.62	0.42
9:AI:6:TYR:CE2	9:AI:17:ARG:HB2	2.55	0.42
9:AI:21:LYS:HE3	9:AI:21:LYS:HB3	1.84	0.42
9:AI:105:ARG:HD2	9:AI:105:ARG:C	2.45	0.42
10:AJ:16:ARG:O	10:AJ:17:LEU:CB	2.67	0.42
10:AJ:58:ASN:C	10:AJ:60:ASP:N	2.78	0.42
11:AK:96:ILE:O	11:AK:99:LEU:N	2.53	0.42
14:AN:88:ALA:CA	14:AN:93:ILE:HD12	2.50	0.42
15:AO:23:SER:O	15:AO:27:GLN:HG3	2.19	0.42
16:AP:4:ILE:HA	16:AP:20:VAL:O	2.20	0.42
16:AP:67:ILE:HG13	16:AP:71:VAL:HG11	2.01	0.42
19:AS:30:LEU:HD12	19:AS:30:LEU:HA	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:8:ASN:OD1	21:AU:8:ASN:N	2.53	0.42
22:AV:21:C:H2'	22:AV:22:G:C5'	2.49	0.42
22:AV:117:G:N3	22:AV:118:C:C5	2.88	0.42
22:AV:144:U:P	22:AV:145:C:OP2	2.78	0.42
22:AV:162:A:N3	22:AV:163:G:C8	2.88	0.42
22:AV:213:G:H2'	22:AV:214:C:H6	1.79	0.42
22:AV:261:G:O2'	22:AV:262:U:P	2.77	0.42
22:AV:272:C:H1'	22:AV:291:A:H61	1.84	0.42
22:AV:313:C:C2	22:AV:314:C:C5	3.07	0.42
22:AV:338:G:C4	22:AV:339:G:C8	3.08	0.42
22:AV:345:A:C4	22:AV:348:C:C5	3.08	0.42
24:AX:50:G:H21	24:AX:51:U:C1'	2.26	0.42
25:AY:13:ARG:O	25:AY:79:ILE:HA	2.20	0.42
25:AY:20:HIS:CG	25:AY:117:GLN:HB3	2.55	0.42
25:AY:21:ILE:HG23	25:AY:86:GLY:O	2.20	0.42
25:AY:206:LEU:O	25:AY:209:ALA:HB3	2.19	0.42
25:AY:298:VAL:C	25:AY:299:VAL:HG12	2.45	0.42
25:AY:354:ARG:O	25:AY:378:VAL:HG23	2.20	0.42
25:AY:549:ALA:C	25:AY:551:GLN:H	2.27	0.42
26:BA:114:U:H2'	26:BA:115:C:C6	2.55	0.42
26:BA:205:G:HO2'	26:BA:206:U:P	2.42	0.42
26:BA:545:U:O2	26:BA:545:U:P	2.77	0.42
26:BA:587:C:O2'	36:BL:19:LEU:CD1	2.68	0.42
26:BA:874:G:O2'	26:BA:875:G:H5'	2.19	0.42
26:BA:1267:U:O2	26:BA:1267:U:C2'	2.68	0.42
26:BA:1445:G:C5	26:BA:1446:C:C4	3.08	0.42
26:BA:1547:C:C6	26:BA:1547:C:C4'	3.02	0.42
26:BA:1754:A:C6	26:BA:1755:A:C6	3.08	0.42
26:BA:1956:U:H1'	26:BA:2552:U:OP1	2.20	0.42
26:BA:2120:G:H2'	26:BA:2121:G:H8	1.85	0.42
26:BA:2194:U:C2'	26:BA:2195:U:C5'	2.97	0.42
26:BA:2294:G:C5	26:BA:2295:C:C5	3.07	0.42
26:BA:2301:C:C2'	26:BA:2302:U:H5'	2.50	0.42
26:BA:2469:A:N6	26:BA:2481:G:H1'	2.34	0.42
26:BA:2668:G:H2'	26:BA:2669:G:O5'	2.19	0.42
26:BA:2734:A:H2'	26:BA:2735:G:O4'	2.18	0.42
26:BA:2863:C:O2	26:BA:2863:C:H2'	2.19	0.42
27:BC:124:LYS:CB	27:BC:125:PRO:CD	2.98	0.42
29:BE:146:VAL:HA	29:BE:185:LYS:O	2.20	0.42
29:BE:196:VAL:O	29:BE:200:LEU:HD23	2.20	0.42
31:BG:102:ILE:HG22	31:BG:103:ASN:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:33:ASN:HB3	33:BI:36:GLU:HB2	2.01	0.42
37:BM:62:LYS:O	37:BM:105:MET:HA	2.20	0.42
45:BU:39:ASN:CB	45:BU:62:ALA:O	2.68	0.42
46:BV:40:ILE:CG2	46:BV:42:LEU:CD2	2.98	0.42
1:AA:429:U:H4'	1:AA:430:A:OP1	2.18	0.42
1:AA:476:U:O2	1:AA:476:U:H2'	2.20	0.42
1:AA:646:G:C5	1:AA:647:C:C5	3.08	0.42
1:AA:673:A:H5"	6:AF:86:ARG:NH1	2.35	0.42
1:AA:696:A:H2'	1:AA:697:U:C6	2.55	0.42
1:AA:806:C:O2	1:AA:806:C:H2'	2.20	0.42
1:AA:918:A:N7	1:AA:919:A:N7	2.68	0.42
1:AA:999:C:H2'	1:AA:1000:A:H8	1.84	0.42
1:AA:1178:G:H3'	1:AA:1178:G:C8	2.55	0.42
2:AB:31:PHE:O	2:AB:31:PHE:CD2	2.73	0.42
2:AB:40:ILE:HG21	2:AB:201:GLY:N	2.34	0.42
2:AB:67:LEU:HA	2:AB:89:PHE:O	2.20	0.42
2:AB:88:GLN:C	2:AB:89:PHE:HD2	2.26	0.42
2:AB:94:ARG:HH12	2:AB:96:LEU:HA	1.84	0.42
2:AB:95:TRP:O	2:AB:97:GLY:N	2.52	0.42
2:AB:110:ILE:HG12	2:AB:150:ILE:HG12	2.00	0.42
3:AC:57:GLU:O	3:AC:63:ILE:HA	2.20	0.42
3:AC:122:GLN:O	3:AC:125:ARG:HB2	2.20	0.42
4:AD:173:ASP:CG	4:AD:176:LYS:HB2	2.45	0.42
5:AE:37:VAL:HG23	5:AE:47:PHE:HB3	2.01	0.42
6:AF:1:MET:HE3	6:AF:1:MET:HB2	1.92	0.42
9:AI:41:GLU:O	9:AI:44:ARG:NH1	2.52	0.42
9:AI:48:ARG:NH2	9:AI:52:GLU:HA	2.35	0.42
11:AK:113:THR:HA	11:AK:114:PRO:HD3	1.86	0.42
12:AL:56:LEU:CB	12:AL:58:ASN:OD1	2.67	0.42
13:AM:10:ASP:O	13:AM:11:HIS:CB	2.68	0.42
14:AN:27:LYS:CA	14:AN:30:ILE:HB	2.50	0.42
17:AQ:76:ARG:HE	17:AQ:76:ARG:HB2	1.76	0.42
19:AS:43:MET:HE2	19:AS:48:ILE:CD1	2.50	0.42
20:AT:42:ASP:O	20:AT:43:LYS:C	2.63	0.42
22:AV:13:G:C8	22:AV:13:G:OP2	2.72	0.42
22:AV:113:A:N6	22:AV:133:A:N6	2.68	0.42
22:AV:127:C:H2'	22:AV:128:U:H5'	2.00	0.42
22:AV:204:G:OP1	22:AV:234:A:N6	2.49	0.42
22:AV:257:U:N1	22:AV:259:G:N7	2.68	0.42
22:AV:323:A:H2'	22:AV:324:G:H8	0.72	0.42
23:AW:48:PHE:HA	23:AW:52:GLU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:7:G:H1	24:AX:67:C:N4	2.04	0.42
25:AY:35:TYR:C	25:AY:37:GLY:N	2.77	0.42
25:AY:208:GLN:O	25:AY:209:ALA:O	2.37	0.42
25:AY:290:LYS:HD3	25:AY:298:VAL:HG21	2.02	0.42
25:AY:415:PRO:HB2	25:AY:421:GLN:N	2.34	0.42
25:AY:484:ARG:HD3	25:AY:484:ARG:HA	1.60	0.42
25:AY:512:ILE:CD1	25:AY:589:ALA:HB1	2.45	0.42
25:AY:591:LYS:HA	25:AY:591:LYS:HD3	1.88	0.42
25:AY:605:ILE:HD13	25:AY:677:GLN:HG2	2.00	0.42
26:BA:84:A:H4'	26:BA:85:G:O5'	2.20	0.42
26:BA:124:G:H3'	53:B2:19:ARG:NH2	2.35	0.42
26:BA:124:G:H3'	53:B2:19:ARG:HH21	1.84	0.42
26:BA:677:A:O3'	26:BA:2071:A:H5"	2.19	0.42
26:BA:837:C:H6	26:BA:837:C:O5'	2.03	0.42
26:BA:889:C:C2'	26:BA:891:G:C1'	2.97	0.42
26:BA:901:C:C3'	26:BA:902:C:H5"	2.44	0.42
26:BA:936:A:H2'	26:BA:937:C:C6	2.55	0.42
26:BA:1069:A:O2'	26:BA:1070:A:H2'	2.19	0.42
26:BA:1287:A:OP2	38:BN:103:ARG:HG3	2.20	0.42
26:BA:1559:U:H4'	26:BA:1560:G:OP2	2.19	0.42
26:BA:1585:C:O2'	26:BA:1586:A:C5'	2.62	0.42
26:BA:1586:A:O5'	26:BA:1586:A:H8	2.02	0.42
26:BA:2017:U:H4'	51:B0:4:GLN:O	2.19	0.42
26:BA:2031:A:C6	26:BA:2498:C:H1'	2.55	0.42
26:BA:2732:G:C3'	26:BA:2733:A:C5'	2.98	0.42
26:BA:2852:G:C4	26:BA:2853:C:C5	3.07	0.42
27:BC:142:ASN:H	27:BC:154:ALA:HB3	1.85	0.42
27:BC:166:ARG:HB2	27:BC:166:ARG:NH2	2.35	0.42
29:BE:31:VAL:HG21	29:BE:104:ALA:HB2	2.01	0.42
30:BF:172:PHE:O	30:BF:173:ASP:HB3	2.20	0.42
32:BH:78:VAL:O	32:BH:145:ASN:N	2.53	0.42
33:BI:35:MET:C	33:BI:37:PHE:H	2.28	0.42
35:BK:113:MET:O	35:BK:115:ILE:N	2.52	0.42
38:BN:28:LEU:O	38:BN:32:GLU:N	2.53	0.42
39:BO:56:LYS:C	39:BO:58:ILE:N	2.77	0.42
39:BO:67:ASN:HA	39:BO:102:ARG:HD3	2.02	0.42
40:BP:21:PRO:HA	40:BP:46:VAL:HG12	2.01	0.42
44:BT:28:ASN:OD1	44:BT:91:GLN:HB3	2.19	0.42
45:BU:71:ILE:CD1	45:BU:82:VAL:HG23	2.49	0.42
55:B4:14:CYS:HA	55:B4:26:ILE:O	2.20	0.42
1:AA:9:G:OP2	5:AE:125:LYS:NZ	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:36:C:H2'	1:AA:37:U:O4'	2.19	0.42
1:AA:300:A:H2	1:AA:566:G:O6	2.03	0.42
1:AA:382:A:N1	1:AA:383:A:C6	2.88	0.42
1:AA:617:G:N1	1:AA:618:C:C4	2.88	0.42
1:AA:946:A:O2'	1:AA:1333:A:N3	2.47	0.42
1:AA:979:C:O5'	1:AA:980:C:OP2	2.37	0.42
1:AA:1060:U:C5'	10:AJ:53:ILE:HG23	2.50	0.42
1:AA:1137:C:H1'	1:AA:1138:G:N2	2.35	0.42
1:AA:1148:U:H5"	9:AI:8:THR:HG23	2.02	0.42
2:AB:151:LYS:CG	2:AB:152:ASP:N	2.82	0.42
4:AD:159:GLU:OE1	4:AD:160:LEU:HD13	2.19	0.42
4:AD:198:LEU:C	4:AD:200:VAL:N	2.77	0.42
5:AE:45:VAL:CG1	5:AE:117:ALA:HB2	2.50	0.42
5:AE:100:GLU:O	5:AE:100:GLU:CG	2.67	0.42
5:AE:154:ALA:CB	8:AH:65:PHE:CE2	3.03	0.42
8:AH:11:THR:O	8:AH:14:ARG:HB3	2.20	0.42
8:AH:21:LYS:HE2	8:AH:21:LYS:CA	2.46	0.42
10:AJ:15:HIS:CG	10:AJ:16:ARG:N	2.86	0.42
10:AJ:42:LEU:HB3	10:AJ:71:LEU:CB	2.49	0.42
11:AK:92:ARG:NH2	21:AU:19:LYS:HG3	2.35	0.42
11:AK:126:ARG:N	21:AU:33:ARG:NH1	2.68	0.42
18:AR:24:ASP:O	18:AR:26:ALA:N	2.53	0.42
22:AV:6:U:C2	22:AV:355:G:N2	2.87	0.42
22:AV:21:C:C6	22:AV:21:C:C3'	3.03	0.42
22:AV:157:C:C6	22:AV:157:C:O5'	2.69	0.42
22:AV:339:G:H1	22:AV:349:C:N4	2.17	0.42
23:AW:32:LYS:HD3	23:AW:63:TYR:HE1	1.85	0.42
23:AW:39:VAL:HB	23:AW:59:TYR:O	2.20	0.42
23:AW:73:PRO:O	23:AW:77:ARG:NH2	2.53	0.42
24:AX:24:C:C4	24:AX:25:U:C5	3.08	0.42
25:AY:16:GLY:C	25:AY:17:ILE:HD12	2.45	0.42
25:AY:64:THR:C	25:AY:66:THR:N	2.77	0.42
25:AY:97:SER:O	25:AY:100:VAL:CG1	2.67	0.42
25:AY:238:THR:HG22	25:AY:241:GLU:CB	2.49	0.42
25:AY:357:ARG:HG3	25:AY:357:ARG:NH2	2.34	0.42
25:AY:484:ARG:HD2	25:AY:559:PRO:HB2	2.02	0.42
25:AY:606:MET:HE2	25:AY:649:LEU:HD21	2.02	0.42
26:BA:5:A:C2	26:BA:2899:A:C2	3.07	0.42
26:BA:93:G:C6	26:BA:94:A:C5	3.08	0.42
26:BA:270:A:OP1	26:BA:271:G:H2'	2.20	0.42
26:BA:340:A:H2'	26:BA:341:C:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:668:A:H2'	26:BA:670:A:H62	1.84	0.42
26:BA:713:G:O5'	26:BA:713:G:H8	2.03	0.42
26:BA:866:A:N9	26:BA:914:G:N3	2.68	0.42
26:BA:1178:C:H5'	26:BA:1179:G:OP1	2.20	0.42
26:BA:1392:A:C6	26:BA:1393:A:C6	3.07	0.42
26:BA:1415:U:C6	26:BA:1588:G:N1	2.88	0.42
26:BA:1485:U:C2	26:BA:1505:A:C2	3.08	0.42
26:BA:1726:C:C2	26:BA:1727:C:C6	3.08	0.42
26:BA:1824:G:O2'	27:BC:245:THR:HG22	2.20	0.42
26:BA:2141:G:N2	26:BA:2142:A:H1'	2.35	0.42
26:BA:2179:C:N3	26:BA:2180:U:C5	2.87	0.42
26:BA:2286:G:OP1	52:B1:29:LYS:HE3	2.20	0.42
26:BA:2314:A:C4	26:BA:2315:G:C8	3.07	0.42
26:BA:2331:G:C5'	26:BA:2331:G:H8	2.32	0.42
27:BC:106:PRO:HD2	27:BC:109:LEU:HD22	2.02	0.42
28:BD:46:ARG:HB3	28:BD:84:LEU:HB2	2.01	0.42
38:BN:103:ARG:HB3	38:BN:106:ASP:OD1	2.20	0.42
44:BT:8:LEU:CD2	49:BY:22:LEU:HA	2.49	0.42
45:BU:6:ARG:HG3	45:BU:7:ASP:N	2.35	0.42
48:BX:76:LYS:HD2	48:BX:76:LYS:HA	1.75	0.42
49:BY:9:LYS:H	49:BY:12:GLU:HG3	1.84	0.42
49:BY:22:LEU:HD12	49:BY:23:ARG:N	2.35	0.42
49:BY:28:LEU:HB3	49:BY:43:LEU:HD21	2.01	0.42
1:AA:293:G:C4	1:AA:294:U:C6	3.08	0.41
1:AA:416:G:C2'	1:AA:417:G:H5'	2.49	0.41
1:AA:736:C:O2	1:AA:736:C:H2'	2.18	0.41
1:AA:826:C:O2	1:AA:826:C:H2'	2.20	0.41
1:AA:920:U:O2'	1:AA:921:U:H5'	2.19	0.41
1:AA:986:U:O2'	1:AA:987:G:H5'	2.20	0.41
1:AA:1001:C:H3'	1:AA:1001:C:H6	1.85	0.41
1:AA:1253:G:O2'	1:AA:1356:G:H4'	2.20	0.41
1:AA:1325:C:C2'	1:AA:1326:U:H5'	2.50	0.41
2:AB:12:GLY:HA3	2:AB:207:ARG:HH22	1.85	0.41
2:AB:30:ILE:HD11	2:AB:38:HIS:CG	2.55	0.41
2:AB:52:ALA:HB3	2:AB:212:TYR:OH	2.19	0.41
2:AB:93:HIS:ND1	2:AB:145:ASN:CB	2.83	0.41
2:AB:174:GLU:O	2:AB:177:ASN:HB3	2.19	0.41
3:AC:125:ARG:O	3:AC:126:ARG:CB	2.66	0.41
3:AC:163:ARG:O	3:AC:164:THR:HG23	2.20	0.41
3:AC:173:PRO:C	3:AC:175:HIS:H	2.26	0.41
4:AD:8:LEU:HD22	4:AD:21:LYS:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:69:ARG:O	4:AD:70:GLN:C	2.63	0.41
4:AD:141:VAL:O	4:AD:141:VAL:HG23	2.20	0.41
5:AE:113:VAL:O	5:AE:115:GLU:N	2.52	0.41
6:AF:24:ARG:HH11	6:AF:24:ARG:CG	2.32	0.41
8:AH:102:VAL:HG21	8:AH:126:CYS:SG	2.60	0.41
9:AI:16:ALA:HB2	9:AI:66:VAL:CG2	2.50	0.41
10:AJ:59:LYS:HD2	10:AJ:60:ASP:N	2.35	0.41
11:AK:13:LYS:HB3	11:AK:14:GLN:H	1.63	0.41
11:AK:41:LEU:CD2	11:AK:76:TYR:CE2	2.99	0.41
12:AL:21:PRO:C	12:AL:23:LEU:N	2.78	0.41
12:AL:27:PRO:O	12:AL:28:GLN:HB3	2.20	0.41
13:AM:76:ILE:HG23	13:AM:80:MET:HE2	2.01	0.41
18:AR:40:PRO:HG2	18:AR:43:ILE:CG1	2.50	0.41
20:AT:63:LYS:HD3	20:AT:63:LYS:HA	1.85	0.41
21:AU:33:ARG:NE	21:AU:34:ARG:HB2	2.34	0.41
22:AV:20:A:O2’	22:AV:21:C:OP1	2.36	0.41
23:AW:46:ALA:N	23:AW:100:LEU:O	2.44	0.41
25:AY:117:GLN:O	25:AY:117:GLN:OE1	2.38	0.41
25:AY:395:PRO:HB2	25:AY:397:VAL:HG13	2.01	0.41
25:AY:402:ILE:O	25:AY:402:ILE:HG22	2.20	0.41
25:AY:489:LYS:HG3	25:AY:597:GLY:HA2	2.03	0.41
26:BA:28:A:C2’	26:BA:29:U:H5’	2.50	0.41
26:BA:556:A:H2’	26:BA:557:C:O5’	2.19	0.41
26:BA:703:U:H2’	26:BA:704:G:H5’	2.02	0.41
26:BA:890:C:P	26:BA:891:G:C5’	3.02	0.41
26:BA:1076:C:C2’	26:BA:1077:A:O4’	2.68	0.41
26:BA:1085:A:C4	26:BA:1086:A:N1	2.88	0.41
26:BA:1165:A:O2’	26:BA:1166:G:H5’	2.20	0.41
26:BA:1166:G:N2	26:BA:1184:U:H1’	2.35	0.41
26:BA:1209:U:O2’	26:BA:1237:A:N1	2.42	0.41
26:BA:1269:A:H2’	26:BA:1270:C:C6	2.55	0.41
26:BA:1372:U:H2’	26:BA:1373:A:H5’	1.98	0.41
26:BA:1437:C:O2’	26:BA:1516:G:O2’	2.36	0.41
26:BA:2055:C:C5’	26:BA:2056:G:H5”	2.49	0.41
26:BA:2312:U:OP2	26:BA:2312:U:C5	2.73	0.41
26:BA:2332:C:H5”	26:BA:2333:A:P	2.60	0.41
26:BA:2415:G:H2’	26:BA:2416:C:H6	1.85	0.41
26:BA:2839:G:C6	26:BA:2840:C:C4	3.07	0.41
28:BD:38:LYS:O	28:BD:46:ARG:HA	2.19	0.41
28:BD:99:GLU:O	28:BD:100:LEU:C	2.63	0.41
33:BI:56:VAL:HG22	33:BI:57:VAL:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:56:VAL:CA	33:BI:71:LYS:HE2	2.50	0.41
33:BI:96:LYS:CG	33:BI:138:VAL:HG22	2.40	0.41
34:BJ:64:VAL:C	34:BJ:65:THR:HG22	2.44	0.41
34:BJ:135:GLN:O	34:BJ:136:GLN:C	2.62	0.41
37:BM:31:PHE:CZ	37:BM:110:GLU:CB	3.03	0.41
41:BQ:31:TYR:O	41:BQ:32:ARG:C	2.61	0.41
43:BS:31:GLN:O	43:BS:35:ILE:HG12	2.19	0.41
43:BS:85:ILE:HG22	43:BS:86:MET:N	2.32	0.41
44:BT:12:ARG:O	49:BY:29:ARG:HD2	2.18	0.41
44:BT:25:GLU:O	44:BT:26:LYS:C	2.63	0.41
47:BW:22:PHE:O	47:BW:23:GLY:C	2.60	0.41
55:B4:3:VAL:HG12	55:B4:36:ARG:HB3	2.02	0.41
1:AA:73:C:C2	1:AA:74:A:C8	3.07	0.41
1:AA:77:A:H8	1:AA:77:A:OP2	2.02	0.41
1:AA:96:U:C2	1:AA:97:G:C8	3.08	0.41
1:AA:112:G:H2'	1:AA:113:G:H5'	2.02	0.41
1:AA:242:G:H2'	1:AA:243:A:H5'	2.03	0.41
1:AA:243:A:N1	1:AA:246:A:C8	2.89	0.41
1:AA:642:A:C5	1:AA:643:C:C4	3.08	0.41
1:AA:859:G:H2'	1:AA:860:A:O5'	2.21	0.41
1:AA:1294:G:C4	1:AA:1295:U:C5	3.09	0.41
1:AA:1405:G:O4'	1:AA:1519:A:H4'	2.20	0.41
2:AB:20:ARG:C	2:AB:22:TRP:N	2.77	0.41
2:AB:56:LEU:HD13	2:AB:57:ASN:H	1.85	0.41
2:AB:71:THR:HG22	2:AB:92:ASN:C	2.45	0.41
2:AB:110:ILE:O	2:AB:113:LEU:N	2.53	0.41
2:AB:216:VAL:O	2:AB:217:ALA:C	2.64	0.41
3:AC:39:ARG:O	3:AC:41:TYR:N	2.53	0.41
4:AD:61:ARG:NH2	4:AD:67:LEU:HD13	2.34	0.41
4:AD:120:LYS:HA	4:AD:122:ILE:CD1	2.50	0.41
6:AF:42:TRP:N	6:AF:42:TRP:HD1	2.15	0.41
8:AH:2:MET:O	8:AH:5:PRO:HD3	2.20	0.41
8:AH:110:MET:CE	8:AH:114:ALA:C	2.93	0.41
9:AI:50:PRO:HB3	9:AI:83:THR:CG2	2.50	0.41
9:AI:119:LYS:O	9:AI:120:ALA:CB	2.68	0.41
10:AJ:17:LEU:N	10:AJ:20:GLN:HG3	2.36	0.41
10:AJ:80:THR:HB	10:AJ:83:THR:H	1.85	0.41
11:AK:23:HIS:CD2	11:AK:23:HIS:O	2.73	0.41
11:AK:52:ARG:CZ	11:AK:56:LYS:HE2	2.50	0.41
18:AR:33:THR:HG22	18:AR:37:LYS:N	2.35	0.41
22:AV:117:G:C2	22:AV:118:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:150:G:H3'	22:AV:151:C:C5	2.54	0.41
22:AV:161:U:H2'	22:AV:162:A:H8	1.85	0.41
22:AV:194:G:C2'	22:AV:195:A:C5'	2.91	0.41
22:AV:198:U:C4	22:AV:199:C:N4	2.88	0.41
22:AV:233:A:O2'	22:AV:234:A:OP1	2.31	0.41
22:AV:300:U:N3	22:AV:301:A:C5	2.88	0.41
22:AV:335:C:OP1	22:AV:335:C:N1	2.52	0.41
23:AW:79:LEU:HD21	23:AW:115:VAL:HG11	2.01	0.41
23:AW:96:LYS:HB2	23:AW:96:LYS:HE3	1.79	0.41
23:AW:107:PHE:HA	23:AW:112:TYR:O	2.20	0.41
24:AX:30:G:C2	24:AX:43:G:C2	3.07	0.41
24:AX:50:G:N2	24:AX:51:U:N1	2.68	0.41
24:AX:53:G:C2	24:AX:64:G:C5	3.09	0.41
25:AY:9:LEU:HA	25:AY:12:LEU:HD23	2.02	0.41
25:AY:276:VAL:HG12	25:AY:277:VAL:N	2.34	0.41
25:AY:348:ARG:HG2	25:AY:382:GLU:HG3	2.01	0.41
26:BA:108:G:O2'	26:BA:109:C:H5'	2.20	0.41
26:BA:162:U:O4	26:BA:2218:G:H4'	2.20	0.41
26:BA:163:C:H2'	26:BA:164:C:O4'	2.19	0.41
26:BA:679:C:O2'	26:BA:680:C:H5'	2.20	0.41
26:BA:747:U:C5	26:BA:2613:U:C5	3.08	0.41
26:BA:760:G:H2'	26:BA:761:A:O4'	2.20	0.41
26:BA:782:A:C2	27:BC:224:MET:SD	3.13	0.41
26:BA:799:G:N1	26:BA:800:A:N6	2.68	0.41
26:BA:867:C:H2'	26:BA:868:U:O4'	2.20	0.41
26:BA:888:C:H3'	26:BA:888:C:OP2	2.20	0.41
26:BA:927:A:H2'	26:BA:928:A:O5'	2.20	0.41
26:BA:1055:G:H3'	26:BA:1056:G:H8	1.85	0.41
26:BA:1078:U:H1'	26:BA:1088:A:H2	1.83	0.41
26:BA:1079:C:C5	26:BA:1088:A:N1	2.88	0.41
26:BA:1575:C:H2'	26:BA:1576:U:O5'	2.20	0.41
26:BA:1712:U:H2'	26:BA:1713:A:C8	2.55	0.41
26:BA:2192:U:H2'	26:BA:2193:G:C8	2.54	0.41
26:BA:2199:A:C2'	26:BA:2200:C:H5'	2.50	0.41
26:BA:2760:C:C2'	26:BA:2760:C:O2	2.60	0.41
26:BA:2784:U:H2'	26:BA:2785:C:H6	1.83	0.41
28:BD:62:LYS:N	28:BD:63:PRO:HD2	2.34	0.41
29:BE:27:LEU:CD1	29:BE:100:MET:HE2	2.49	0.41
30:BF:175:PRO:O	30:BF:176:PHE:HB2	2.20	0.41
31:BG:86:LEU:HD12	31:BG:86:LEU:H	1.85	0.41
33:BI:41:PHE:CD2	33:BI:42:ASN:OD1	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:66:PHE:CD1	33:BI:68:PHE:CE1	3.08	0.41
33:BI:73:PRO:HA	33:BI:74:PRO:HD2	1.89	0.41
34:BJ:98:GLU:CD	34:BJ:126:ALA:HB2	2.45	0.41
35:BK:95:ILE:HG22	35:BK:95:ILE:O	2.19	0.41
36:BL:101:ILE:O	36:BL:102:GLY:O	2.38	0.41
39:BO:83:LEU:C	39:BO:85:LYS:N	2.78	0.41
42:BR:20:VAL:HG13	42:BR:21:ARG:N	2.32	0.41
43:BS:65:ASP:C	43:BS:67:ASP:N	2.78	0.41
45:BU:48:VAL:O	45:BU:48:VAL:HG13	2.20	0.41
49:BY:44:LYS:O	49:BY:47:ARG:HB3	2.20	0.41
51:B0:5:ASN:O	51:B0:7:PRO:HD3	2.20	0.41
53:B2:21:ARG:O	53:B2:27:GLY:HA3	2.20	0.41
1:AA:53:A:N1	1:AA:359:G:C6	2.89	0.41
1:AA:289:G:H5”	1:AA:289:G:H8	1.85	0.41
1:AA:451:A:C2	1:AA:480:U:N3	2.88	0.41
1:AA:508:U:H1’	1:AA:509:A:N7	2.35	0.41
1:AA:585:G:C6	1:AA:586:C:C4	3.08	0.41
1:AA:623:C:N3	1:AA:624:C:C5	2.88	0.41
1:AA:1063:C:H3’	1:AA:1064:G:H2’	2.02	0.41
1:AA:1130:A:C1’	1:AA:1146:A:C2	3.02	0.41
1:AA:1165:U:H2’	1:AA:1166:G:H5’	2.02	0.41
1:AA:1332:A:C2’	1:AA:1333:A:O5’	2.67	0.41
1:AA:1349:A:C2	1:AA:1350:A:H1’	2.56	0.41
1:AA:1451:U:H3’	1:AA:1452:C:H6	1.85	0.41
2:AB:115:ASP:O	2:AB:116:LEU:CB	2.69	0.41
2:AB:130:LYS:HA	2:AB:130:LYS:HD3	1.86	0.41
2:AB:140:LEU:O	2:AB:144:GLU:HB2	2.20	0.41
2:AB:153:MET:C	2:AB:155:GLY:H	2.28	0.41
3:AC:135:ARG:O	3:AC:138:GLN:N	2.53	0.41
4:AD:64:TYR:HE2	4:AD:99:ASN:OD1	2.02	0.41
4:AD:121:ALA:C	4:AD:122:ILE:HG23	2.45	0.41
5:AE:113:VAL:C	5:AE:115:GLU:N	2.77	0.41
7:AG:91:ARG:HB2	7:AG:94:ARG:HG2	2.02	0.41
8:AH:20:ASN:HA	8:AH:64:TYR:OH	2.20	0.41
9:AI:20:ILE:CG2	9:AI:60:LEU:HD12	2.49	0.41
10:AJ:71:LEU:O	10:AJ:72:ARG:NE	2.53	0.41
13:AM:19:THR:HB	13:AM:25:GLY:HA2	2.02	0.41
15:AO:34:GLN:CB	15:AO:58:MET:CE	2.98	0.41
21:AU:7:GLU:HB3	21:AU:11:PHE:CZ	2.47	0.41
22:AV:28:U:O2’	22:AV:29:G:C8	2.70	0.41
22:AV:187:C:N3	22:AV:188:C:H5	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:209:C:H6	22:AV:209:C:O5'	2.03	0.41
22:AV:311:U:H2'	22:AV:312:A:H8	1.85	0.41
25:AY:111:SER:OG	25:AY:141:LYS:HB3	2.20	0.41
25:AY:332:SER:O	25:AY:333:GLY:C	2.62	0.41
25:AY:469:GLU:N	25:AY:469:GLU:CD	2.78	0.41
26:BA:70:G:H4'	26:BA:71:A:OP1	2.21	0.41
26:BA:123:G:H4'	26:BA:1376:C:O5'	2.20	0.41
26:BA:382:A:H2'	26:BA:383:C:O5'	2.21	0.41
26:BA:416:U:C4	26:BA:417:C:C4	3.08	0.41
26:BA:443:A:C2	26:BA:1245:G:N3	2.88	0.41
26:BA:487:C:O5'	26:BA:487:C:H6	2.03	0.41
26:BA:864:G:H8	26:BA:864:G:O5'	2.03	0.41
26:BA:937:C:H6	26:BA:937:C:O5'	2.03	0.41
26:BA:1101:U:O2	26:BA:1101:U:H2'	2.20	0.41
26:BA:1255:U:C5	29:BE:68:ALA:HA	2.55	0.41
26:BA:1355:G:H2'	26:BA:1356:G:O5'	2.20	0.41
26:BA:1584:U:O2	26:BA:1584:U:C2'	2.68	0.41
26:BA:1792:G:OP1	27:BC:204:LEU:HB2	2.20	0.41
26:BA:1827:U:C2'	26:BA:1828:G:O5'	2.68	0.41
26:BA:1875:G:O2'	26:BA:1876:A:O5'	2.36	0.41
26:BA:2072:C:H6	26:BA:2072:C:H5"	1.86	0.41
26:BA:2243:U:O2'	26:BA:2244:U:H5'	2.20	0.41
26:BA:2560:A:H2'	26:BA:2561:U:O4'	2.21	0.41
26:BA:2881:U:O2'	26:BA:2882:A:C5'	2.66	0.41
26:BA:2886:A:C5	26:BA:2887:A:N7	2.88	0.41
29:BE:75:SER:O	29:BE:81:GLY:HA3	2.20	0.41
29:BE:148:ILE:HB	29:BE:169:VAL:HG22	2.02	0.41
30:BF:105:ILE:O	30:BF:108:PRO:HD2	2.20	0.41
31:BG:10:VAL:O	31:BG:10:VAL:CG2	2.68	0.41
31:BG:11:PRO:O	31:BG:14:VAL:HG23	2.21	0.41
31:BG:59:ASP:O	31:BG:61:TRP:N	2.53	0.41
31:BG:86:LEU:HD12	31:BG:86:LEU:N	2.36	0.41
31:BG:146:ASP:O	31:BG:149:ALA:HB3	2.19	0.41
33:BI:102:ARG:HE	33:BI:103:ALA:H	1.68	0.41
35:BK:77:ILE:CG2	35:BK:78:ARG:N	2.83	0.41
39:BO:88:LYS:O	39:BO:89:ASP:CB	2.67	0.41
39:BO:106:LEU:HD23	39:BO:106:LEU:O	2.20	0.41
40:BP:52:ARG:CG	40:BP:52:ARG:NH1	2.80	0.41
40:BP:90:ALA:HB2	40:BP:112:ARG:HA	2.02	0.41
45:BU:35:VAL:O	45:BU:35:VAL:HG12	2.20	0.41
47:BW:52:ASP:O	47:BW:53:HIS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BX:54:GLY:O	48:BX:55:MET:C	2.62	0.41
54:B3:6:VAL:HG21	54:B3:60:CYS:SG	2.60	0.41
1:AA:64:G:C8	1:AA:99:C:C4	3.08	0.41
1:AA:87:C:H2'	1:AA:88:U:C4'	2.50	0.41
1:AA:104:G:C2	1:AA:105:G:C5	3.09	0.41
1:AA:116:A:OP2	1:AA:116:A:C8	2.73	0.41
1:AA:190:A:H3'	1:AA:190:A:H8	1.85	0.41
1:AA:212:G:H2'	1:AA:213:G:H8	1.85	0.41
1:AA:267:C:OP1	17:AQ:68:LYS:HB2	2.20	0.41
1:AA:282:A:H5"	1:AA:283:U:OP2	2.20	0.41
1:AA:597:G:N7	1:AA:598:U:C5	2.88	0.41
1:AA:749:A:C6	1:AA:750:C:C4	3.09	0.41
1:AA:978:A:C6	1:AA:1318:A:C6	3.08	0.41
1:AA:1062:U:H5"	1:AA:1063:C:OP1	2.20	0.41
2:AB:106:VAL:O	2:AB:110:ILE:HD13	2.19	0.41
4:AD:115:GLN:HE21	4:AD:115:GLN:CA	2.33	0.41
4:AD:121:ALA:O	4:AD:122:ILE:HG23	2.20	0.41
6:AF:45:ARG:HB3	6:AF:59:TYR:CD1	2.56	0.41
7:AG:68:VAL:O	7:AG:69:ARG:C	2.62	0.41
7:AG:90:VAL:O	7:AG:91:ARG:C	2.63	0.41
9:AI:20:ILE:CD1	9:AI:85:ALA:CB	2.99	0.41
9:AI:89:TYR:HB3	9:AI:93:LEU:HD21	2.02	0.41
10:AJ:19:ASP:HA	10:AJ:22:THR:HB	2.03	0.41
12:AL:81:ILE:HA	12:AL:97:VAL:HG23	2.02	0.41
13:AM:65:GLU:OE1	13:AM:65:GLU:HA	2.19	0.41
14:AN:64:CYS:HB2	14:AN:80:SER:H	1.85	0.41
15:AO:22:GLY:O	15:AO:23:SER:C	2.63	0.41
16:AP:79:ASN:O	16:AP:80:LYS:HE3	2.21	0.41
19:AS:44:ILE:HG23	19:AS:62:THR:HA	2.02	0.41
19:AS:58:PRO:C	19:AS:59:VAL:CG2	2.94	0.41
20:AT:82:ILE:C	20:AT:84:LYS:H	2.27	0.41
22:AV:9:U:C3'	23:AW:35:ARG:HH22	2.27	0.41
22:AV:12:U:C4'	22:AV:13:G:N7	2.83	0.41
22:AV:19:G:O3'	22:AV:20:A:N7	2.52	0.41
22:AV:172:U:C5	22:AV:173:C:C5	3.05	0.41
22:AV:235:C:O2	22:AV:236:U:C4	2.73	0.41
23:AW:62:PRO:CD	23:AW:73:PRO:HG3	2.50	0.41
24:AX:65:G:H2'	24:AX:66:C:C1'	2.51	0.41
25:AY:434:GLU:O	25:AY:435:ASP:HB2	2.20	0.41
25:AY:435:ASP:C	25:AY:437:THR:H	2.28	0.41
25:AY:484:ARG:CD	25:AY:559:PRO:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:546:ILE:O	25:AY:550:MET:HG3	2.20	0.41
25:AY:636:PRO:CD	33:BI:23:VAL:HA	2.48	0.41
26:BA:109:C:H6	26:BA:109:C:O5'	2.03	0.41
26:BA:412:A:H8	26:BA:412:A:O5'	2.04	0.41
26:BA:712:G:O6	26:BA:719:C:N3	2.53	0.41
26:BA:905:A:N1	26:BA:906:U:C4	2.89	0.41
26:BA:912:C:C2'	26:BA:913:U:H5'	2.49	0.41
26:BA:1058:U:H1'	26:BA:1081:U:C2	2.55	0.41
26:BA:1060:U:H5'	26:BA:1062:G:C4'	2.50	0.41
26:BA:1066:U:O2	26:BA:1066:U:H2'	2.19	0.41
26:BA:1091:G:O2'	26:BA:1092:C:C5	2.73	0.41
26:BA:1153:C:OP1	41:BQ:91:ARG:NH1	2.49	0.41
26:BA:1748:C:C4	26:BA:1749:A:N7	2.88	0.41
26:BA:1880:U:H2'	26:BA:1881:C:H6	1.86	0.41
26:BA:2116:G:C5'	26:BA:2117:A:OP2	2.68	0.41
26:BA:2142:A:H2'	26:BA:2143:C:H6	1.79	0.41
26:BA:2458:G:N3	26:BA:2490:G:N2	2.69	0.41
26:BA:2654:A:O4'	26:BA:2656:U:H1'	2.20	0.41
27:BC:163:ILE:HA	27:BC:173:LEU:HD12	2.01	0.41
27:BC:211:ARG:CG	27:BC:211:ARG:HH21	2.33	0.41
30:BF:111:ARG:HG2	30:BF:112:ASP:HB2	2.01	0.41
31:BG:8:VAL:HG13	31:BG:8:VAL:O	2.19	0.41
31:BG:146:ASP:O	31:BG:147:LEU:C	2.62	0.41
31:BG:151:ARG:O	31:BG:152:ARG:C	2.62	0.41
33:BI:57:VAL:HB	33:BI:68:PHE:CA	2.50	0.41
34:BJ:46:PRO:HD3	41:BQ:59:LEU:HD13	2.03	0.41
39:BO:32:PRO:HB3	56:BB:51:G:O6	2.19	0.41
54:B3:14:LYS:HD2	54:B3:22:LYS:HE2	2.02	0.41
54:B3:56:LEU:O	54:B3:59:ALA:HB3	2.21	0.41
56:BB:30:C:O2'	56:BB:57:A:N1	2.47	0.41
56:BB:85:G:C2'	56:BB:86:G:O5'	2.68	0.41
1:AA:45:G:O2'	1:AA:46:G:H5'	2.21	0.41
1:AA:66:A:C2	1:AA:67:C:N1	2.89	0.41
1:AA:748:G:H2'	1:AA:749:A:C8	2.56	0.41
1:AA:917:G:C5	1:AA:918:A:C6	3.03	0.41
1:AA:1160:G:C6	1:AA:1181:G:O6	2.74	0.41
1:AA:1210:C:O4'	1:AA:1214:C:H5	2.00	0.41
1:AA:1505:G:H4'	1:AA:1506:U:O5'	2.21	0.41
3:AC:51:VAL:CG2	3:AC:67:ILE:HG22	2.51	0.41
4:AD:96:ARG:O	4:AD:97:LEU:C	2.63	0.41
5:AE:118:GLY:O	5:AE:119:VAL:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:75:LYS:HB3	7:AG:88:VAL:HG11	2.01	0.41
9:AI:18:VAL:HG22	9:AI:64:ILE:CG2	2.49	0.41
10:AJ:33:GLY:O	10:AJ:34:ALA:CB	2.68	0.41
10:AJ:41:PRO:O	10:AJ:42:LEU:CB	2.68	0.41
11:AK:52:ARG:O	11:AK:55:ARG:CB	2.69	0.41
11:AK:52:ARG:H	11:AK:55:ARG:HG3	1.86	0.41
13:AM:51:GLN:O	13:AM:54:THR:HG23	2.21	0.41
13:AM:53:ASP:O	13:AM:56:ARG:CB	2.68	0.41
14:AN:23:ARG:O	14:AN:26:LEU:HB2	2.21	0.41
14:AN:51:LEU:O	14:AN:52:PRO:C	2.63	0.41
14:AN:64:CYS:HA	14:AN:79:LEU:HA	2.03	0.41
17:AQ:80:LYS:N	17:AQ:80:LYS:CD	2.82	0.41
18:AR:22:TYR:HB2	18:AR:57:ALA:O	2.20	0.41
21:AU:37:TYR:CD2	21:AU:37:TYR:C	2.98	0.41
22:AV:53:G:H1	22:AV:63:C:H42	1.68	0.41
22:AV:132:U:O2	22:AV:133:A:N7	2.54	0.41
22:AV:173:C:C2	22:AV:174:A:N7	2.89	0.41
22:AV:182:U:O2	22:AV:182:U:O4'	2.38	0.41
22:AV:245:C:H5'	22:AV:246:U:OP2	2.18	0.41
22:AV:310:G:C1'	22:AV:311:U:C5	3.03	0.41
23:AW:72:ASP:CB	23:AW:75:ARG:NE	2.83	0.41
25:AY:145:ASP:HB3	25:AY:148:LEU:HB2	2.03	0.41
25:AY:145:ASP:OD2	25:AY:148:LEU:HB2	2.21	0.41
25:AY:168:ILE:HG23	25:AY:205:TYR:CE2	2.55	0.41
25:AY:209:ALA:O	25:AY:211:GLU:N	2.54	0.41
25:AY:486:THR:CG2	25:AY:600:VAL:HG13	2.50	0.41
26:BA:13:A:N3	26:BA:15:G:C6	2.88	0.41
26:BA:242:G:P	54:B3:2:LYS:HE2	2.60	0.41
26:BA:359:G:C2'	26:BA:360:U:H5'	2.50	0.41
26:BA:362:A:C2	26:BA:363:G:C4	3.08	0.41
26:BA:417:C:C2	26:BA:418:C:C6	3.09	0.41
26:BA:434:U:H1'	26:BA:435:C:H5	1.85	0.41
26:BA:443:A:H2	26:BA:1245:G:N3	2.19	0.41
26:BA:488:G:N2	26:BA:491:G:H5"	2.36	0.41
26:BA:623:C:H2'	26:BA:624:C:H6	1.84	0.41
26:BA:842:U:O2'	26:BA:843:G:H5'	2.21	0.41
26:BA:942:G:H8	26:BA:942:G:O5'	2.04	0.41
26:BA:1063:G:N2	33:BI:89:SER:HG	2.18	0.41
26:BA:1139:G:O3'	34:BJ:26:GLY:HA3	2.20	0.41
26:BA:1178:C:O3'	26:BA:1179:G:H8	2.02	0.41
26:BA:1414:C:C2	26:BA:1415:U:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1628:G:H2'	26:BA:1629:U:O5'	2.20	0.41
26:BA:1738:G:HO2'	26:BA:1739:A:H8	1.64	0.41
26:BA:1818:U:H2'	27:BC:155:ARG:CD	2.51	0.41
26:BA:1853:A:N6	26:BA:1889:A:C5	2.89	0.41
26:BA:2281:A:C2'	26:BA:2282:G:H5'	2.50	0.41
26:BA:2678:C:H2'	26:BA:2679:A:O4'	2.21	0.41
26:BA:2758:A:H2'	26:BA:2759:G:H5'	2.02	0.41
29:BE:12:LEU:HD23	29:BE:13:THR:O	2.21	0.41
29:BE:109:LEU:O	29:BE:111:GLU:N	2.52	0.41
29:BE:143:LEU:HB3	29:BE:146:VAL:CG1	2.50	0.41
29:BE:161:ALA:O	29:BE:162:ARG:C	2.62	0.41
30:BF:48:LEU:O	30:BF:51:ASN:CB	2.69	0.41
30:BF:65:LEU:C	30:BF:65:LEU:HD12	2.45	0.41
31:BG:156:TYR:CE2	31:BG:171:LYS:HG3	2.55	0.41
32:BH:119:ASN:HA	32:BH:120:GLY:HA3	1.88	0.41
33:BI:18:ASN:H	33:BI:19:PRO:CD	2.33	0.41
33:BI:54:ILE:HG12	33:BI:73:PRO:HB3	2.03	0.41
33:BI:80:LYS:HB2	33:BI:80:LYS:HE3	1.92	0.41
33:BI:85:ILE:HD12	33:BI:85:ILE:N	2.35	0.41
37:BM:29:GLY:CA	37:BM:106:ASP:HB2	2.50	0.41
38:BN:75:ILE:O	38:BN:76:VAL:C	2.61	0.41
40:BP:95:LYS:HB3	40:BP:97:TYR:CE1	2.56	0.41
45:BU:31:GLY:O	45:BU:66:VAL:HG12	2.20	0.41
46:BV:93:ARG:O	46:BV:94:ALA:CB	2.69	0.41
48:BX:37:PHE:O	48:BX:45:PHE:HA	2.21	0.41
53:B2:23:ALA:C	53:B2:24:THR:HG23	2.46	0.41
1:AA:257:G:H2'	1:AA:258:G:H8	1.84	0.41
1:AA:338:A:N6	1:AA:339:C:C4	2.89	0.41
1:AA:375:U:OP1	16:AP:70:ARG:NH1	2.53	0.41
1:AA:410:G:C5'	1:AA:411:A:P	3.09	0.41
1:AA:451:A:N6	1:AA:481:G:C5'	2.83	0.41
1:AA:549:C:H6	1:AA:549:C:O5'	2.04	0.41
1:AA:923:A:N3	1:AA:1399:C:OP2	2.53	0.41
1:AA:960:U:C6	1:AA:1225:A:C8	3.08	0.41
1:AA:962:C:H2'	1:AA:963:G:O4'	2.21	0.41
1:AA:1081:A:H2'	1:AA:1082:A:H5'	2.01	0.41
1:AA:1107:C:OP1	3:AC:171:ARG:CZ	2.67	0.41
1:AA:1131:G:H22	1:AA:1144:G:H4'	1.85	0.41
1:AA:1186:G:C2'	1:AA:1187:G:O5'	2.69	0.41
1:AA:1233:G:H2'	1:AA:1234:C:H6	1.85	0.41
1:AA:1277:C:C2'	1:AA:1279:G:H8	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1312:G:C2	1:AA:1326:U:N3	2.89	0.41
1:AA:1317:C:C2'	1:AA:1318:A:O5'	2.68	0.41
1:AA:1328:C:H5"	13:AM:27:THR:HG21	2.03	0.41
2:AB:68:PHE:CE2	2:AB:88:GLN:CB	3.03	0.41
2:AB:218:ALA:HB1	2:AB:221:ARG:HH21	1.85	0.41
3:AC:16:PRO:CG	3:AC:53:ARG:NH2	2.83	0.41
3:AC:23:ALA:CB	3:AC:28:PHE:HA	2.51	0.41
3:AC:51:VAL:CG2	3:AC:67:ILE:CG2	2.98	0.41
3:AC:199:VAL:O	3:AC:199:VAL:HG22	2.21	0.41
4:AD:18:LEU:HD12	4:AD:20:LEU:HD11	2.02	0.41
4:AD:87:GLU:CD	4:AD:187:ARG:HB2	2.45	0.41
5:AE:131:ASN:C	5:AE:131:ASN:ND2	2.68	0.41
8:AH:19:ALA:O	8:AH:20:ASN:HB2	2.21	0.41
8:AH:46:GLU:CA	8:AH:63:LYS:CG	2.96	0.41
8:AH:88:LYS:HA	8:AH:91:LEU:HG	2.01	0.41
9:AI:30:ASN:HB2	9:AI:37:TYR:CE1	2.56	0.41
9:AI:33:SER:HB3	9:AI:36:GLN:CB	2.50	0.41
9:AI:49:GLN:CB	9:AI:50:PRO:CD	2.98	0.41
9:AI:79:ARG:O	9:AI:83:THR:HG23	2.20	0.41
9:AI:113:LYS:CE	9:AI:117:LEU:O	2.68	0.41
10:AJ:71:LEU:C	10:AJ:72:ARG:HG2	2.45	0.41
11:AK:52:ARG:N	11:AK:55:ARG:CB	2.83	0.41
15:AO:2:LEU:HD12	15:AO:2:LEU:HA	1.87	0.41
17:AQ:43:LEU:HD23	17:AQ:43:LEU:HA	1.83	0.41
18:AR:24:ASP:O	18:AR:25:ILE:C	2.63	0.41
20:AT:57:VAL:CG1	20:AT:71:ALA:CB	2.99	0.41
20:AT:68:LYS:HB2	20:AT:69:ASN:OD1	2.20	0.41
21:AU:18:PHE:C	21:AU:18:PHE:HD2	2.28	0.41
21:AU:36:PHE:HE2	21:AU:44:ARG:HH12	1.68	0.41
22:AV:7:G:C2	22:AV:336:G:C8	3.09	0.41
22:AV:14:G:N2	30:BF:82:TYR:HE1	2.18	0.41
22:AV:20:A:H2'	22:AV:21:C:C5	2.50	0.41
22:AV:193:A:C2	22:AV:194:G:C5	3.08	0.41
22:AV:229:U:O2	22:AV:229:U:H2'	2.20	0.41
24:AX:50:G:O2'	24:AX:51:U:H5'	2.21	0.41
25:AY:211:GLU:O	25:AY:215:LYS:HG3	2.20	0.41
25:AY:335:LEU:HD23	25:AY:355:LEU:HD11	2.03	0.41
26:BA:303:G:H2'	26:BA:304:U:C6	2.56	0.41
26:BA:409:G:H2'	26:BA:410:G:C8	2.54	0.41
26:BA:559:G:H2'	26:BA:560:C:H5'	2.01	0.41
26:BA:614:A:H8	26:BA:614:A:H5'	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:631:A:H1'	36:BL:65:GLY:HA2	2.02	0.41
26:BA:699:A:H4'	26:BA:1634:A:N7	2.35	0.41
26:BA:846:U:C2'	26:BA:847:U:OP2	2.67	0.41
26:BA:913:U:H4'	26:BA:914:G:OP1	2.20	0.41
26:BA:1350:C:C2	26:BA:1382:G:C2	3.09	0.41
26:BA:1359:A:C8	26:BA:1373:A:C2	3.08	0.41
26:BA:1373:A:H2'	26:BA:1374:G:O5'	2.20	0.41
26:BA:1408:G:H2'	26:BA:1409:U:C5'	2.51	0.41
26:BA:1484:U:N3	26:BA:1485:U:C5	2.89	0.41
26:BA:1731:G:C2	26:BA:1733:G:H1'	2.55	0.41
26:BA:1924:C:H2'	26:BA:1925:C:C5'	2.51	0.41
26:BA:1989:G:C2'	26:BA:1990:C:O5'	2.68	0.41
26:BA:2133:G:H1'	26:BA:2158:A:H61	1.86	0.41
26:BA:2312:U:C3'	26:BA:2312:U:C6	3.03	0.41
26:BA:2377:A:O2'	26:BA:2378:A:H5'	2.21	0.41
26:BA:2485:G:H5"	37:BM:45:GLN:NE2	2.35	0.41
26:BA:2627:G:O2'	26:BA:2781:A:N1	2.39	0.41
26:BA:2634:A:H5"	26:BA:2634:A:H8	1.85	0.41
26:BA:2692:G:H4'	26:BA:2870:C:O2	2.21	0.41
30:BF:3:LEU:HG	30:BF:100:GLU:HG3	2.01	0.41
30:BF:96:TRP:O	30:BF:97:GLU:C	2.64	0.41
32:BH:142:VAL:HG12	32:BH:143:ILE:H	1.83	0.41
33:BI:114:ALA:O	33:BI:115:ASP:CB	2.67	0.41
36:BL:85:VAL:O	36:BL:86:GLU:C	2.63	0.41
37:BM:59:ARG:O	37:BM:60:GLN:HG2	2.21	0.41
38:BN:49:GLU:N	38:BN:50:PRO:HD2	2.36	0.41
42:BR:67:GLY:C	42:BR:93:PHE:CE2	2.99	0.41
43:BS:59:GLU:HG3	43:BS:66:ILE:HD12	2.03	0.41
44:BT:67:VAL:C	44:BT:68:LYS:HG2	2.46	0.41
46:BV:1:MET:HG3	46:BV:2:PHE:N	2.35	0.41
47:BW:36:GLN:OE1	47:BW:40:LYS:N	2.54	0.41
49:BY:15:ASN:C	49:BY:17:GLU:N	2.73	0.41
51:B0:53:VAL:O	51:B0:55:ALA:N	2.52	0.41
1:AA:22:G:C5	1:AA:23:C:C4	3.08	0.41
1:AA:32:A:H2'	1:AA:33:A:C8	2.56	0.41
1:AA:68:G:C6	1:AA:69:G:H1'	2.55	0.41
1:AA:71:A:H3'	1:AA:71:A:P	2.60	0.41
1:AA:91:U:C5	1:AA:92:U:C6	3.09	0.41
1:AA:201:G:H2'	1:AA:202:G:O4'	2.21	0.41
1:AA:237:G:H2'	1:AA:238:A:H8	1.86	0.41
1:AA:273:U:O4	1:AA:274:A:N6	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:392:C:H2'	1:AA:393:A:C8	2.55	0.41
1:AA:430:A:OP2	4:AD:7:LYS:CG	2.68	0.41
1:AA:585:G:C5	1:AA:586:C:C5	3.09	0.41
1:AA:637:C:N3	1:AA:638:U:C5	2.88	0.41
1:AA:1000:A:C2	1:AA:1041:G:N2	2.89	0.41
1:AA:1129:C:H5"	9:AI:17:ARG:CZ	2.51	0.41
1:AA:1134:G:C6	1:AA:1141:C:N4	2.89	0.41
1:AA:1312:G:N7	19:AS:2:ARG:N	2.68	0.41
1:AA:1329:A:C2'	1:AA:1330:U:H5'	2.51	0.41
1:AA:1350:A:OP2	9:AI:119:LYS:NZ	2.50	0.41
1:AA:1372:U:OP1	9:AI:73:GLY:N	2.50	0.41
2:AB:65:LYS:HB3	2:AB:155:GLY:O	2.21	0.41
2:AB:72:LYS:HE3	2:AB:204:ASP:HB2	2.02	0.41
2:AB:129:THR:CG2	2:AB:131:LYS:HB3	2.50	0.41
2:AB:162:VAL:CG1	2:AB:182:VAL:HG13	2.44	0.41
3:AC:6:PRO:O	3:AC:9:ILE:HG22	2.21	0.41
3:AC:151:GLU:HG2	3:AC:198:LYS:HB2	2.02	0.41
5:AE:141:ASP:O	5:AE:142:GLY:C	2.63	0.41
8:AH:98:LEU:HD23	8:AH:98:LEU:H	1.82	0.41
9:AI:116:GLY:O	9:AI:124:PRO:CG	2.69	0.41
10:AJ:65:TYR:CE2	14:AN:98:LYS:HG2	2.56	0.41
10:AJ:88:MET:O	10:AJ:89:ARG:CB	2.67	0.41
12:AL:55:ARG:HG3	12:AL:55:ARG:NH2	2.35	0.41
13:AM:80:MET:CA	13:AM:91:ARG:HH22	2.34	0.41
14:AN:25:GLU:O	14:AN:28:ALA:HB3	2.20	0.41
15:AO:87:ARG:HA	15:AO:87:ARG:HD3	1.91	0.41
18:AR:43:ILE:C	18:AR:45:GLY:N	2.79	0.41
21:AU:21:SER:O	21:AU:22:CYS:SG	2.78	0.41
21:AU:43:GLU:HB3	21:AU:44:ARG:NH1	2.36	0.41
22:AV:28:U:N3	22:AV:29:G:O6	2.54	0.41
22:AV:32:A:N3	22:AV:32:A:C2'	2.82	0.41
22:AV:333:G:P	22:AV:335:C:N4	2.87	0.41
23:AW:5:LEU:HD11	23:AW:105:ILE:HD11	2.02	0.41
24:AX:22:A:C6	24:AX:47:G:C4	3.08	0.41
25:AY:137:ASN:ND2	25:AY:137:ASN:C	2.76	0.41
25:AY:152:THR:C	25:AY:154:GLN:N	2.77	0.41
25:AY:232:LEU:HD22	25:AY:232:LEU:H	1.84	0.41
25:AY:265:LYS:HB3	25:AY:267:LYS:HE3	2.02	0.41
25:AY:314:PHE:CD1	25:AY:314:PHE:C	2.99	0.41
25:AY:327:PHE:HA	25:AY:375:GLY:O	2.19	0.41
25:AY:590:ILE:O	25:AY:592:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:1:G:C4	26:BA:2:G:C8	3.09	0.41
26:BA:171:U:H2'	26:BA:172:A:C8	2.56	0.41
26:BA:368:A:C8	26:BA:368:A:C3'	3.03	0.41
26:BA:437:U:C2'	26:BA:438:G:O5'	2.69	0.41
26:BA:545:U:H1'	26:BA:548:G:OP2	2.21	0.41
26:BA:653:U:C2'	26:BA:654:A:OP1	2.69	0.41
26:BA:665:U:H2'	26:BA:666:A:H8	1.85	0.41
26:BA:677:A:O2'	26:BA:2071:A:H5'	2.21	0.41
26:BA:842:U:C2'	26:BA:843:G:H5'	2.51	0.41
26:BA:871:U:C2'	26:BA:872:U:H5'	2.50	0.41
26:BA:1091:G:O2'	26:BA:1092:C:H5	2.04	0.41
26:BA:1293:C:C4	26:BA:1294:U:C5	3.08	0.41
26:BA:1340:U:H4'	26:BA:1394:U:C1'	2.51	0.41
26:BA:1370:C:O2'	26:BA:1811:G:O2'	2.37	0.41
26:BA:1446:C:H2'	26:BA:1447:C:H6	1.84	0.41
26:BA:1519:G:H2'	26:BA:1520:U:H6	1.86	0.41
26:BA:1805:A:H1'	27:BC:49:THR:O	2.21	0.41
26:BA:1936:A:H2	26:BA:1943:U:N3	2.17	0.41
26:BA:1983:G:O2'	26:BA:1984:G:H5'	2.21	0.41
26:BA:2163:A:H5'	26:BA:2170:A:O2'	2.21	0.41
26:BA:2194:U:C2'	26:BA:2195:U:O5'	2.68	0.41
26:BA:2649:C:H6	26:BA:2649:C:O5'	2.04	0.41
27:BC:26:GLY:O	27:BC:27:LYS:O	2.39	0.41
27:BC:104:LEU:HD13	27:BC:104:LEU:H	1.85	0.41
27:BC:245:THR:HG23	27:BC:249:VAL:O	2.21	0.41
30:BF:1:ALA:O	30:BF:2:LYS:C	2.64	0.41
31:BG:76:ILE:N	31:BG:76:ILE:HD13	2.35	0.41
31:BG:136:ASP:C	31:BG:138:GLN:N	2.78	0.41
33:BI:58:ILE:HG22	33:BI:60:VAL:HG23	2.02	0.41
34:BJ:27:ARG:HG2	34:BJ:27:ARG:NH1	2.36	0.41
35:BK:13:ASN:C	35:BK:15:GLY:N	2.78	0.41
36:BL:47:ARG:HH21	36:BL:47:ARG:CG	2.34	0.41
36:BL:120:VAL:CG2	36:BL:121:THR:N	2.83	0.41
36:BL:127:VAL:HG11	36:BL:132:ARG:CB	2.50	0.41
38:BN:79:LEU:O	38:BN:81:ASN:N	2.54	0.41
45:BU:19:GLY:O	45:BU:20:LYS:C	2.59	0.41
49:BY:16:THR:HA	49:BY:19:LEU:HD12	2.02	0.41
51:B0:29:VAL:CG1	51:B0:34:GLY:HA2	2.51	0.41
1:AA:255:G:H2'	1:AA:256:U:O4'	2.21	0.41
1:AA:540:G:C5	1:AA:541:G:C8	3.08	0.41
1:AA:613:C:H2'	1:AA:614:C:H5'	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:678:U:O2'	1:AA:679:C:H5'	2.21	0.41
1:AA:730:G:N2	1:AA:765:G:H5"	2.35	0.41
1:AA:792:A:H4'	1:AA:793:U:C5'	2.50	0.41
1:AA:794:A:C5	1:AA:795:C:C4	3.08	0.41
1:AA:941:G:C4	1:AA:1343:G:N2	2.89	0.41
1:AA:1277:C:C1'	1:AA:1282:C:H1'	2.50	0.41
1:AA:1315:U:C4	1:AA:1316:G:C6	3.09	0.41
1:AA:1346:A:C5'	9:AI:121:ARG:HH12	2.33	0.41
1:AA:1390:U:H2'	1:AA:1391:U:H6	1.81	0.41
1:AA:1414:U:O2	1:AA:1414:U:H2'	2.21	0.41
2:AB:74:ALA:O	2:AB:75:ALA:HB2	2.21	0.41
3:AC:13:ILE:O	3:AC:15:LYS:N	2.54	0.41
3:AC:140:ALA:O	3:AC:145:ALA:CB	2.68	0.41
4:AD:149:LYS:HE2	4:AD:176:LYS:O	2.20	0.41
7:AG:68:VAL:HA	7:AG:137:ARG:NE	2.35	0.41
7:AG:94:ARG:O	7:AG:97:ALA:N	2.54	0.41
11:AK:18:GLY:C	11:AK:81:LEU:HB2	2.45	0.41
13:AM:35:ALA:CB	13:AM:58:GLU:OE1	2.69	0.41
13:AM:44:ILE:HG13	13:AM:47:LEU:CD1	2.46	0.41
13:AM:52:ILE:CG2	13:AM:56:ARG:NH2	2.83	0.41
21:AU:33:ARG:NH2	21:AU:34:ARG:CG	2.84	0.41
21:AU:39:LYS:O	21:AU:39:LYS:HG3	2.21	0.41
22:AV:7:G:C5	22:AV:336:G:C5	3.07	0.41
22:AV:11:C:O2'	22:AV:12:U:P	2.78	0.41
22:AV:249:U:HO2'	22:AV:250:U:C5'	2.23	0.41
23:AW:18:GLU:HB2	23:AW:88:ARG:NH2	2.36	0.41
23:AW:62:PRO:HD3	23:AW:73:PRO:HG3	2.02	0.41
23:AW:81:LEU:CG	23:AW:85:GLU:CD	2.86	0.41
25:AY:92:ILE:HG12	25:AY:405:PRO:CG	2.45	0.41
25:AY:380:LEU:O	25:AY:381:LYS:HD2	2.20	0.41
25:AY:505:GLY:HA3	25:AY:576:ASP:OD1	2.20	0.41
26:BA:31:C:O2'	26:BA:32:C:H5'	2.19	0.41
26:BA:358:U:H2'	26:BA:359:G:H8	1.85	0.41
26:BA:483:A:C8	26:BA:484:C:C5	3.08	0.41
26:BA:545:U:O2	26:BA:545:U:OP2	2.38	0.41
26:BA:548:G:O2'	26:BA:549:G:N1	2.53	0.41
26:BA:723:C:H2'	26:BA:724:U:O4'	2.21	0.41
26:BA:771:G:C6	26:BA:772:C:N4	2.89	0.41
26:BA:772:C:H2'	26:BA:773:U:O5'	2.20	0.41
26:BA:883:G:C2	26:BA:884:U:N1	2.88	0.41
26:BA:903:C:H2'	26:BA:904:G:H5"	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:993:G:OP1	41:BQ:50:ARG:NH2	2.54	0.41
26:BA:1043:C:H2'	26:BA:1044:C:C6	2.56	0.41
26:BA:1053:C:N4	26:BA:1054:A:N7	2.69	0.41
26:BA:1103:A:N7	26:BA:1104:C:C5	2.89	0.41
26:BA:1104:C:H2'	26:BA:1105:U:H6	1.85	0.41
26:BA:1427:A:C2	26:BA:1570:A:OP2	2.74	0.41
26:BA:1535:A:H5'	26:BA:1536:C:C5	2.56	0.41
26:BA:1701:A:H2'	26:BA:1702:G:H5'	2.02	0.41
26:BA:1751:U:H2'	26:BA:1752:C:C6	2.55	0.41
26:BA:1840:G:C2'	26:BA:1841:U:H5'	2.50	0.41
26:BA:1957:C:H2'	26:BA:1958:C:C6	2.56	0.41
26:BA:2142:A:C2	26:BA:2150:C:N3	2.89	0.41
26:BA:2395:C:H2'	26:BA:2396:G:O4'	2.21	0.41
26:BA:2401:U:H6	26:BA:2401:U:O5'	2.04	0.41
26:BA:2430:A:H5'	26:BA:2431:U:OP2	2.20	0.41
26:BA:2663:G:H2'	26:BA:2664:G:O5'	2.21	0.41
28:BD:48:ILE:HG13	28:BD:50:VAL:HG13	2.02	0.41
28:BD:125:TRP:O	28:BD:126:ASN:HB2	2.21	0.41
30:BF:23:SER:HB2	56:BB:56:G:OP1	2.21	0.41
30:BF:24:VAL:O	30:BF:24:VAL:HG22	2.19	0.41
30:BF:56:LEU:HD12	30:BF:64:PRO:HB3	2.00	0.41
32:BH:31:VAL:CG1	32:BH:32:PRO:CD	2.99	0.41
32:BH:66:ASN:HA	32:BH:138:VAL:HG11	2.02	0.41
32:BH:77:THR:O	32:BH:77:THR:HG22	2.20	0.41
32:BH:131:SER:C	32:BH:132:PHE:CD2	2.99	0.41
38:BN:1:MET:HE2	38:BN:1:MET:HB3	1.95	0.41
38:BN:85:PRO:O	38:BN:86:ARG:C	2.64	0.41
40:BP:86:LYS:O	40:BP:87:ARG:HB2	2.20	0.41
41:BQ:10:ARG:HD2	41:BQ:10:ARG:HA	1.63	0.41
43:BS:48:LYS:O	43:BS:48:LYS:CG	2.68	0.41
47:BW:60:ASP:OD2	47:BW:60:ASP:N	2.53	0.41
51:B0:33:SER:OG	51:B0:35:GLU:CG	2.68	0.41
54:B3:16:THR:CG2	54:B3:20:GLY:O	2.68	0.41
56:BB:4:C:O5'	56:BB:4:C:H6	2.04	0.41
1:AA:9:G:C2'	1:AA:10:A:H5'	2.51	0.41
1:AA:20:U:O2'	1:AA:21:G:H5'	2.21	0.41
1:AA:65:A:N1	1:AA:381:C:C2	2.89	0.41
1:AA:75:G:H5'	1:AA:76:G:P	2.61	0.41
1:AA:176:C:O4'	1:AA:1447:A:C2	2.74	0.41
1:AA:179:A:C2'	1:AA:180:U:H5'	2.51	0.41
1:AA:186:C:H2'	1:AA:187:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:199:A:C2	1:AA:200:G:C8	3.09	0.41
1:AA:207:C:H2'	1:AA:208:U:O2	2.19	0.41
1:AA:369:G:H2'	1:AA:370:C:H6	1.86	0.41
1:AA:386:C:H2'	1:AA:387:U:C5'	2.50	0.41
1:AA:389:A:C3'	1:AA:390:U:H5'	2.51	0.41
1:AA:439:U:H4'	4:AD:120:LYS:HE3	2.02	0.41
1:AA:524:G:H2'	1:AA:525:C:C6	2.56	0.41
1:AA:702:A:N6	26:BA:1846:G:H5'	2.36	0.41
1:AA:1033:G:C2	1:AA:1034:G:C8	3.09	0.41
1:AA:1035:A:H2'	1:AA:1036:A:C1'	2.51	0.41
1:AA:1072:G:C5	1:AA:1073:U:C4	3.08	0.41
1:AA:1077:G:N2	1:AA:1081:A:C4	2.89	0.41
1:AA:1092:A:N6	1:AA:1093:A:N6	2.68	0.41
1:AA:1139:G:N2	1:AA:1143:G:C6	2.89	0.41
1:AA:1210:C:C4'	1:AA:1214:C:H5	2.34	0.41
1:AA:1226:C:C6	13:AM:102:LYS:HA	2.55	0.41
1:AA:1239:A:N3	1:AA:1241:G:C6	2.89	0.41
1:AA:1313:U:O2	1:AA:1313:U:H2'	2.20	0.41
1:AA:1526:G:H2'	1:AA:1527:U:C6	2.55	0.41
1:AA:1538:C:H4'	21:AU:17:ARG:HH21	1.84	0.41
2:AB:68:PHE:HE2	2:AB:88:GLN:HB3	1.86	0.41
2:AB:96:LEU:N	2:AB:99:MET:CE	2.84	0.41
2:AB:206:ILE:HD13	2:AB:206:ILE:N	2.36	0.41
3:AC:41:TYR:CE1	3:AC:89:VAL:CG2	3.04	0.41
3:AC:82:ASP:C	3:AC:84:GLU:N	2.78	0.41
3:AC:113:LYS:O	3:AC:117:ASP:OD2	2.39	0.41
4:AD:2:ARG:HH21	4:AD:114:ARG:HD3	1.84	0.41
4:AD:83:GLY:O	4:AD:84:ASN:C	2.64	0.41
4:AD:114:ARG:O	4:AD:115:GLN:C	2.64	0.41
4:AD:154:VAL:HA	4:AD:157:ALA:HB3	2.03	0.41
8:AH:28:SER:HB3	8:AH:56:PRO:CB	2.50	0.41
8:AH:79:ARG:HG3	8:AH:82:LEU:H	1.85	0.41
9:AI:53:LEU:HD12	9:AI:53:LEU:H	1.85	0.41
10:AJ:27:GLU:HA	10:AJ:30:LYS:CD	2.51	0.41
11:AK:41:LEU:CB	11:AK:73:VAL:HG12	2.50	0.41
12:AL:116:TYR:N	12:AL:116:TYR:CD1	2.87	0.41
13:AM:28:ARG:NH2	13:AM:62:PHE:HB2	2.35	0.41
13:AM:52:ILE:O	13:AM:55:LEU:HB2	2.21	0.41
13:AM:80:MET:HG2	13:AM:91:ARG:NH1	2.36	0.41
14:AN:20:PHE:CG	14:AN:24:ALA:CB	3.04	0.41
15:AO:69:LEU:HD23	15:AO:69:LEU:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:7:LEU:CB	17:AQ:60:ILE:HG22	2.46	0.41
17:AQ:47:ASP:HB2	17:AQ:74:LEU:HD21	2.03	0.41
21:AU:43:GLU:OE2	21:AU:44:ARG:NH1	2.54	0.41
22:AV:27:U:H2'	22:AV:28:U:C6	2.56	0.41
22:AV:45:A:H2'	22:AV:46:U:C6	2.55	0.41
22:AV:181:G:N2	22:AV:182:U:O4'	2.54	0.41
22:AV:235:C:H6	22:AV:235:C:O5'	2.04	0.41
22:AV:256:G:H2'	22:AV:258:G:N7	2.35	0.41
22:AV:257:U:C4	22:AV:259:G:O6	2.71	0.41
22:AV:257:U:C5	22:AV:273:A:C6	3.08	0.41
22:AV:269:C:H6	22:AV:269:C:O5'	2.03	0.41
22:AV:270:C:O2	22:AV:293:G:O6	2.39	0.41
22:AV:272:C:O2'	22:AV:273:A:O5'	2.39	0.41
22:AV:317:G:H2'	22:AV:318:G:C5'	2.50	0.41
22:AV:332:G:H4'	22:AV:333:G:O5'	2.15	0.41
22:AV:335:C:C2	22:AV:335:C:P	3.14	0.41
22:AV:345:A:O2'	22:AV:347:PSU:N1	2.54	0.41
23:AW:22:ALA:O	23:AW:115:VAL:CG1	2.57	0.41
24:AX:11:A:C2	24:AX:12:G:H1'	2.56	0.41
24:AX:32:G:C5	24:AX:33:C:C4	3.08	0.41
24:AX:54:G:H2'	24:AX:54:G:N3	2.35	0.41
25:AY:95:GLU:OE2	25:AY:124:GLN:HB3	2.21	0.41
25:AY:104:ALA:O	25:AY:132:ARG:HB2	2.21	0.41
25:AY:162:VAL:HG21	25:AY:255:ILE:CD1	2.51	0.41
25:AY:188:TYR:OH	25:AY:271:LEU:HD11	2.21	0.41
25:AY:350:GLU:HG3	25:AY:380:LEU:HG	2.01	0.41
25:AY:357:ARG:HG3	25:AY:357:ARG:HH21	1.86	0.41
25:AY:491:VAL:CG1	25:AY:492:ASP:N	2.83	0.41
25:AY:605:ILE:CG2	25:AY:646:PHE:HB3	2.51	0.41
25:AY:610:VAL:CG2	25:AY:643:ILE:HB	2.51	0.41
25:AY:636:PRO:HB2	33:BI:26:ALA:HB3	1.98	0.41
25:AY:684:GLN:HB2	25:AY:684:GLN:HE21	1.68	0.41
26:BA:126:A:C5	53:B2:18:PHE:CD2	3.09	0.41
26:BA:135:U:O5'	26:BA:135:U:H6	2.04	0.41
26:BA:182:A:C6	26:BA:183:C:C4	3.08	0.41
26:BA:228:C:H4'	26:BA:229:C:C5'	2.51	0.41
26:BA:279:A:H2'	26:BA:279:A:N3	2.36	0.41
26:BA:287:G:H2'	26:BA:288:U:H6	1.83	0.41
26:BA:319:G:C2'	26:BA:320:A:O5'	2.69	0.41
26:BA:721:A:H2'	26:BA:722:A:H8	1.73	0.41
26:BA:757:G:N3	26:BA:757:G:H2'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:771:G:OP2	53:B2:11:LYS:HD3	2.21	0.41
26:BA:783:A:H8	26:BA:784:G:H4'	1.86	0.41
26:BA:828:U:O2'	26:BA:829:A:H5'	2.21	0.41
26:BA:866:A:N9	26:BA:914:G:C2	2.88	0.41
26:BA:868:U:C2'	26:BA:869:G:C5'	2.77	0.41
26:BA:878:A:HO2'	26:BA:879:G:H5'	1.71	0.41
26:BA:893:C:O2'	26:BA:894:U:C5'	2.66	0.41
26:BA:1027:A:H5"	26:BA:1028:A:OP1	2.21	0.41
26:BA:1079:C:H2'	26:BA:1080:A:C8	2.54	0.41
26:BA:1197:G:H2'	26:BA:1198:U:C6	2.55	0.41
26:BA:1244:A:OP1	36:BL:7:SER:CB	2.69	0.41
26:BA:1340:U:H4'	26:BA:1394:U:H1'	2.03	0.41
26:BA:1353:A:O4'	26:BA:1569:A:H2	2.04	0.41
26:BA:1405:U:O2'	26:BA:1406:U:H5'	2.20	0.41
26:BA:1448:G:C2'	26:BA:1449:G:H5'	2.51	0.41
26:BA:1494:A:N6	26:BA:1495:A:N1	2.68	0.41
26:BA:1501:G:H2'	26:BA:1502:A:O5'	2.21	0.41
26:BA:1606:C:H3'	26:BA:1606:C:C6	2.55	0.41
26:BA:1627:G:C2	26:BA:1628:G:C8	3.09	0.41
26:BA:1744:A:N3	26:BA:1744:A:H2'	2.35	0.41
26:BA:2006:C:O5'	26:BA:2006:C:C6	2.73	0.41
26:BA:2038:G:H2'	26:BA:2039:U:O4'	2.21	0.41
26:BA:2111:U:O4	26:BA:2145:C:O2	2.38	0.41
26:BA:2516:A:C5	26:BA:2517:C:C4	3.09	0.41
26:BA:2547:A:H5'	35:BK:29:HIS:NE2	2.36	0.41
26:BA:2616:C:O2	26:BA:2616:C:C2'	2.67	0.41
26:BA:2636:C:O2	26:BA:2636:C:C2'	2.63	0.41
26:BA:2687:U:H2'	26:BA:2688:G:O4'	2.20	0.41
26:BA:2799:A:H1'	26:BA:2800:A:H5'	2.03	0.41
26:BA:2840:C:H2'	26:BA:2841:C:C6	2.55	0.41
26:BA:2851:A:C6	26:BA:2852:G:C5	3.09	0.41
27:BC:7:PRO:HB3	27:BC:13:ARG:HB2	2.03	0.41
27:BC:51:ARG:HE	27:BC:52:HIS:CE1	2.38	0.41
27:BC:130:PRO:HB2	27:BC:133:ASN:HD22	1.86	0.41
27:BC:141:HIS:O	27:BC:142:ASN:HB3	2.21	0.41
28:BD:57:ALA:O	28:BD:59:ARG:N	2.54	0.41
28:BD:142:VAL:HB	28:BD:143:PRO:HD2	2.01	0.41
28:BD:166:GLY:O	28:BD:167:ASN:C	2.63	0.41
28:BD:205:PRO:O	28:BD:206:ALA:O	2.38	0.41
30:BF:147:ARG:CG	30:BF:148:VAL:H	2.33	0.41
31:BG:171:LYS:HG3	31:BG:172:GLU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BH:54:LEU:O	32:BH:55:GLU:C	2.63	0.41
32:BH:72:ILE:HD12	32:BH:140:ALA:CB	2.51	0.41
32:BH:111:ALA:C	32:BH:113:SER:N	2.79	0.41
32:BH:129:GLU:HA	32:BH:143:ILE:HA	2.01	0.41
33:BI:38:CYS:HA	33:BI:41:PHE:HB3	2.03	0.41
33:BI:54:ILE:HG12	33:BI:73:PRO:CB	2.50	0.41
35:BK:28:SER:C	35:BK:30:ARG:N	2.79	0.41
35:BK:112:PHE:O	35:BK:115:ILE:HB	2.21	0.41
36:BL:110:VAL:CA	36:BL:111:ILE:HD12	2.50	0.41
37:BM:130:PHE:CD2	37:BM:130:PHE:C	2.98	0.41
38:BN:3:HIS:O	38:BN:4:ARG:HB2	2.21	0.41
38:BN:65:LEU:HD13	38:BN:65:LEU:HA	1.66	0.41
38:BN:79:LEU:HG	38:BN:83:LEU:HD12	2.02	0.41
39:BO:42:PRO:C	39:BO:44:GLY:N	2.78	0.41
40:BP:6:GLN:O	40:BP:6:GLN:HG2	2.20	0.41
43:BS:81:SER:HB3	43:BS:99:ARG:HA	2.03	0.41
46:BV:83:LYS:HB3	46:BV:84:PRO:HD2	2.03	0.41
48:BX:15:ASN:HA	48:BX:24:THR:O	2.21	0.41
51:B0:52:LYS:HE2	51:B0:55:ALA:CB	2.51	0.41
52:B1:30:PRO:HD2	52:B1:31:GLU:OE2	2.20	0.41
52:B1:34:GLU:HA	52:B1:48:TYR:O	2.20	0.41
53:B2:30:VAL:C	53:B2:32:ALA:N	2.75	0.41
54:B3:38:LYS:O	54:B3:39:ARG:C	2.62	0.41
55:B4:1:MET:HB3	55:B4:34:LYS:HB3	2.03	0.41
56:BB:32:U:O2'	56:BB:33:G:H5'	2.21	0.41
56:BB:68:C:C6	56:BB:68:C:H3'	2.55	0.41
56:BB:73:A:C5	56:BB:104:A:C2	3.09	0.41
56:BB:78:A:N6	56:BB:98:G:H2'	2.36	0.41
56:BB:104:A:H2'	56:BB:105:G:O4'	2.21	0.41
1:AA:114:U:H2'	1:AA:115:G:H8	1.80	0.41
1:AA:164:G:N2	1:AA:165:G:C1'	2.84	0.41
1:AA:168:G:C5'	1:AA:168:G:H8	2.34	0.41
1:AA:274:A:H5'	17:AQ:15:LYS:HE3	2.03	0.41
1:AA:495:A:H4'	1:AA:496:A:O4'	2.20	0.41
1:AA:588:G:C4	1:AA:753:A:C2	3.09	0.41
1:AA:597:G:C2	1:AA:644:U:C2	3.09	0.41
1:AA:720:C:H3'	1:AA:721:G:C8	2.56	0.41
1:AA:840:C:N3	1:AA:846:G:O6	2.54	0.41
1:AA:847:G:C6	1:AA:848:C:C4	3.08	0.41
1:AA:977:A:C2'	1:AA:978:A:H5"	2.51	0.41
1:AA:1152:A:N6	1:AA:1153:G:C6	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1226:C:C4	13:AM:102:LYS:CB	3.04	0.41
1:AA:1310:G:C2	1:AA:1328:C:O2	2.74	0.41
1:AA:1399:C:H1'	1:AA:1502:A:H61	1.86	0.41
1:AA:1413:A:H2'	1:AA:1414:U:H6	1.86	0.41
2:AB:135:MET:HA	2:AB:138:ARG:HG2	2.03	0.41
2:AB:137:THR:C	2:AB:139:GLU:N	2.76	0.41
2:AB:164:ASP:CG	2:AB:203:ASP:OD1	2.64	0.41
2:AB:216:VAL:HA	2:AB:219:THR:HG23	2.03	0.41
3:AC:106:ARG:NH1	3:AC:107:LYS:O	2.54	0.41
4:AD:104:MET:HE2	4:AD:170:LEU:CD2	2.51	0.41
4:AD:189:ASP:O	4:AD:190:LEU:CG	2.66	0.41
5:AE:104:ILE:CD1	5:AE:122:VAL:CG2	2.98	0.41
7:AG:49:LEU:CD1	7:AG:60:ALA:CB	2.99	0.41
7:AG:102:TRP:CH2	7:AG:140:VAL:HG21	2.56	0.41
7:AG:145:GLU:CA	7:AG:148:LYS:HB2	2.49	0.41
9:AI:11:ARG:HH22	9:AI:108:ARG:NH2	2.19	0.41
9:AI:20:ILE:HG22	9:AI:21:LYS:N	2.35	0.41
9:AI:30:ASN:O	9:AI:31:GLN:C	2.64	0.41
10:AJ:5:ARG:NE	10:AJ:79:PRO:HG3	2.36	0.41
11:AK:98:ALA:O	11:AK:101:ALA:HB3	2.21	0.41
11:AK:111:ASP:OD2	11:AK:113:THR:HG23	2.21	0.41
13:AM:12:LYS:O	13:AM:13:HIS:C	2.64	0.41
16:AP:46:LYS:HD3	16:AP:46:LYS:C	2.46	0.41
16:AP:75:ILE:HG13	16:AP:75:ILE:H	1.74	0.41
17:AQ:78:VAL:O	17:AQ:79:GLU:HB2	2.21	0.41
18:AR:54:LEU:O	18:AR:54:LEU:HD13	2.21	0.41
20:AT:4:LYS:HE2	20:AT:4:LYS:HA	2.03	0.41
20:AT:34:VAL:HG11	20:AT:78:LEU:HD13	2.02	0.41
20:AT:56:ILE:CD1	20:AT:60:GLN:HG2	2.51	0.41
22:AV:56:C:O2'	22:AV:57:G:O4'	2.33	0.41
22:AV:176:G:N3	22:AV:177:A:C8	2.89	0.41
22:AV:180:G:C3'	22:AV:181:G:C8	3.04	0.41
22:AV:298:A:C6	22:AV:299:C:C5	3.09	0.41
22:AV:314:C:O2'	22:AV:315:G:H5"	2.21	0.41
22:AV:333:G:P	22:AV:335:C:H41	2.44	0.41
23:AW:60:ILE:CD1	23:AW:77:ARG:NH2	2.84	0.41
24:AX:77:A:C8	26:BA:2421:G:H2'	2.56	0.41
25:AY:20:HIS:CE1	25:AY:21:ILE:HG12	2.56	0.41
25:AY:137:ASN:O	25:AY:262:SER:HA	2.21	0.41
25:AY:238:THR:HG22	25:AY:241:GLU:H	1.83	0.41
25:AY:273:LEU:HA	25:AY:276:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:302:HIS:C	25:AY:304:ASP:H	2.28	0.41
25:AY:550:MET:HE2	25:AY:560:VAL:O	2.20	0.41
25:AY:635:GLU:CD	25:AY:635:GLU:H	2.29	0.41
26:BA:242:G:H5"	54:B3:63:TYR:CE2	2.56	0.41
26:BA:303:G:H2'	26:BA:304:U:H6	1.85	0.41
26:BA:404:A:C2'	26:BA:405:U:OP2	2.69	0.41
26:BA:574:A:C4'	26:BA:575:A:O5'	2.65	0.41
26:BA:700:G:O2'	26:BA:1632:A:N3	2.52	0.41
26:BA:812:C:H4'	41:BQ:12:ARG:HH22	1.85	0.41
26:BA:871:U:O2'	26:BA:872:U:H5'	2.21	0.41
26:BA:879:G:C3'	26:BA:880:G:C5'	2.88	0.41
26:BA:907:G:C6	26:BA:908:C:N4	2.89	0.41
26:BA:1088:A:N3	26:BA:1088:A:C5'	2.83	0.41
26:BA:1114:C:O2'	26:BA:1115:G:H5'	2.20	0.41
26:BA:1282:U:H2'	26:BA:1283:G:O4'	2.21	0.41
26:BA:1299:G:H5"	26:BA:1300:G:OP1	2.21	0.41
26:BA:1613:G:N2	26:BA:1619:G:C4	2.89	0.41
26:BA:1628:G:C2'	26:BA:1629:U:O5'	2.69	0.41
26:BA:1735:A:C2	26:BA:1736:U:C6	3.09	0.41
26:BA:1752:C:H5'	26:BA:2861:U:O3'	2.21	0.41
26:BA:1778:U:H2'	26:BA:1784:A:N6	2.36	0.41
26:BA:1909:C:C2	26:BA:1922:G:N2	2.89	0.41
26:BA:2002:G:OP1	38:BN:13:ASN:HA	2.21	0.41
26:BA:2191:A:C2	26:BA:2192:U:C6	3.09	0.41
26:BA:2193:G:C2	26:BA:2194:U:C5	3.09	0.41
26:BA:2626:C:H2'	26:BA:2627:G:O4'	2.21	0.41
26:BA:2675:A:H2'	26:BA:2676:C:O5'	2.21	0.41
27:BC:100:ARG:HG3	27:BC:100:ARG:HH11	1.86	0.41
30:BF:88:VAL:CG1	30:BF:89:THR:N	2.83	0.41
32:BH:48:GLU:O	32:BH:49:ALA:C	2.64	0.41
32:BH:130:VAL:HG21	32:BH:144:VAL:HG21	2.01	0.41
32:BH:142:VAL:HG12	32:BH:143:ILE:N	2.36	0.41
33:BI:85:ILE:HD13	33:BI:88:GLY:HA2	2.03	0.41
35:BK:77:ILE:HG22	35:BK:78:ARG:H	1.85	0.41
35:BK:107:LEU:O	35:BK:112:PHE:HB2	2.21	0.41
37:BM:2:LEU:HD22	37:BM:2:LEU:H	1.86	0.41
37:BM:5:LYS:O	37:BM:6:ARG:HB2	2.20	0.41
37:BM:27:SER:C	37:BM:28:PHE:CD2	2.99	0.41
38:BN:41:ALA:HB1	38:BN:97:ILE:CD1	2.51	0.41
39:BO:4:LYS:CG	39:BO:5:SER:N	2.78	0.41
39:BO:41:ALA:HB1	39:BO:42:PRO:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BP:105:LYS:HD2	40:BP:105:LYS:HA	1.84	0.41
46:BV:61:LEU:N	46:BV:61:LEU:CD1	2.84	0.41
48:BX:44:ARG:CG	48:BX:45:PHE:N	2.84	0.41
51:B0:52:LYS:CE	51:B0:55:ALA:HB2	2.51	0.41
1:AA:52:C:H2'	1:AA:53:A:C8	2.55	0.40
1:AA:69:G:H2'	1:AA:69:G:N3	2.36	0.40
1:AA:75:G:N3	1:AA:75:G:H2'	2.36	0.40
1:AA:184:G:O4'	1:AA:224:U:H4'	2.21	0.40
1:AA:295:C:C2	1:AA:296:U:C6	3.09	0.40
1:AA:314:C:O2'	1:AA:315:A:H5'	2.21	0.40
1:AA:322:C:C2	1:AA:332:G:N2	2.89	0.40
1:AA:684:U:O2'	11:AK:39:ASN:O	2.33	0.40
1:AA:710:G:H5"	6:AF:53:LYS:HZ2	1.86	0.40
1:AA:948:C:C5	13:AM:104:ASN:OD1	2.74	0.40
1:AA:956:U:C2	1:AA:1225:A:C2	3.08	0.40
1:AA:1033:G:N2	1:AA:1034:G:O4'	2.54	0.40
1:AA:1060:U:H5"	10:AJ:53:ILE:CG2	2.51	0.40
1:AA:1300:G:C4	1:AA:1334:G:O6	2.73	0.40
1:AA:1306:A:C4	1:AA:1307:U:C6	3.08	0.40
1:AA:1379:G:N1	1:AA:1380:U:C4	2.89	0.40
2:AB:14:HIS:CD2	2:AB:15:PHE:N	2.87	0.40
2:AB:94:ARG:NH1	2:AB:96:LEU:CD2	2.85	0.40
2:AB:142:LYS:O	2:AB:144:GLU:N	2.54	0.40
2:AB:151:LYS:O	2:AB:152:ASP:C	2.62	0.40
3:AC:28:PHE:CE2	3:AC:32:LEU:HD23	2.55	0.40
3:AC:41:TYR:CD2	3:AC:41:TYR:C	2.96	0.40
4:AD:53:GLN:O	4:AD:202:LEU:HD13	2.20	0.40
4:AD:131:ILE:CD1	4:AD:134:TYR:HB2	2.51	0.40
4:AD:151:GLN:O	4:AD:152:SER:O	2.39	0.40
7:AG:22:LEU:HD22	7:AG:25:PHE:CD2	2.56	0.40
7:AG:58:LEU:HD12	7:AG:59:GLU:HG2	2.03	0.40
7:AG:61:PHE:HD2	7:AG:123:LEU:HD11	1.86	0.40
7:AG:72:VAL:O	7:AG:140:VAL:HG12	2.21	0.40
10:AJ:17:LEU:O	10:AJ:17:LEU:HG	2.21	0.40
10:AJ:36:VAL:HG23	10:AJ:76:ILE:HG23	2.04	0.40
10:AJ:51:VAL:HB	14:AN:81:ARG:HB2	2.02	0.40
14:AN:35:ALA:HB2	14:AN:41:ARG:NE	2.36	0.40
14:AN:53:ARG:HH11	14:AN:53:ARG:HG2	1.86	0.40
15:AO:23:SER:HB3	15:AO:26:VAL:HG21	2.03	0.40
15:AO:51:SER:C	15:AO:53:ARG:N	2.79	0.40
15:AO:66:LEU:CD1	15:AO:87:ARG:HH22	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:75:ILE:O	16:AP:78:VAL:CG1	2.64	0.40
16:AP:75:ILE:HA	16:AP:78:VAL:HG12	2.03	0.40
17:AQ:80:LYS:HB2	17:AQ:81:ALA:H	1.64	0.40
21:AU:33:ARG:HH21	21:AU:34:ARG:HG3	1.85	0.40
22:AV:25:A:C6	22:AV:26:U:C4	3.10	0.40
22:AV:36:C:C2'	22:AV:37:C:O5'	2.69	0.40
22:AV:65:U:H2'	22:AV:66:C:C5	2.55	0.40
22:AV:65:U:H2'	22:AV:66:C:H6	1.83	0.40
22:AV:212:U:H5"	22:AV:213:G:OP1	2.21	0.40
22:AV:213:G:O2'	22:AV:214:C:H5'	2.21	0.40
22:AV:223:G:O2'	22:AV:224:A:OP1	2.39	0.40
22:AV:228:G:C6	22:AV:229:U:C4	3.09	0.40
22:AV:245:C:O3'	22:AV:248:G:C1'	2.69	0.40
22:AV:249:U:C2'	22:AV:250:U:H5'	2.45	0.40
22:AV:306:U:C2'	22:AV:307:G:C8	2.78	0.40
22:AV:362:C:C3'	22:AV:362:C:C6	3.03	0.40
23:AW:28:GLY:HA2	23:AW:31:VAL:CG2	2.51	0.40
25:AY:130:VAL:HA	25:AY:131:PRO:HD3	1.75	0.40
25:AY:487:ILE:HB	25:AY:597:GLY:O	2.21	0.40
25:AY:626:ALA:CB	26:BA:2473:U:N1	2.54	0.40
26:BA:71:A:H5"	26:BA:72:U:C2'	2.51	0.40
26:BA:153:U:O5'	26:BA:153:U:H6	2.04	0.40
26:BA:686:U:H2'	26:BA:788:A:C2	2.56	0.40
26:BA:838:C:O2'	26:BA:839:U:H5'	2.21	0.40
26:BA:923:G:H4'	47:BW:25:GLU:CG	2.51	0.40
26:BA:1084:A:C5'	26:BA:1085:A:OP2	2.70	0.40
26:BA:1477:A:H2'	26:BA:1478:G:O4'	2.21	0.40
26:BA:1501:G:O2'	26:BA:1502:A:C5'	2.69	0.40
26:BA:1831:G:H2'	26:BA:1832:C:C6	2.56	0.40
26:BA:1982:U:O2	26:BA:1982:U:H2'	2.21	0.40
26:BA:2135:A:N6	26:BA:2156:G:O2'	2.54	0.40
26:BA:2173:A:C3'	26:BA:2174:C:H6	2.33	0.40
26:BA:2255:G:H2'	26:BA:2256:G:H5'	2.03	0.40
26:BA:2660:A:N1	26:BA:2661:G:N3	2.69	0.40
26:BA:2716:C:H6	26:BA:2716:C:H5"	1.85	0.40
26:BA:2722:G:C2'	26:BA:2723:C:H5'	2.51	0.40
26:BA:2855:C:H2'	26:BA:2855:C:O2	2.20	0.40
27:BC:161:VAL:HG11	27:BC:173:LEU:CG	2.48	0.40
27:BC:190:THR:HG22	27:BC:191:LEU:O	2.20	0.40
32:BH:119:ASN:N	32:BH:120:GLY:HA3	2.31	0.40
35:BK:58:LEU:HD22	35:BK:58:LEU:H	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BK:66:LYS:CD	35:BK:79:PHE:O	2.69	0.40
39:BO:102:ARG:HG3	56:BB:49:C:OP1	2.21	0.40
1:AA:430:A:OP1	4:AD:8:LEU:HB2	2.21	0.40
1:AA:614:C:H2'	1:AA:615:G:O5'	2.21	0.40
1:AA:693:G:C6	1:AA:694:A:C6	3.09	0.40
1:AA:958:A:C6	1:AA:959:A:N1	2.89	0.40
1:AA:987:G:N3	1:AA:1219:A:C2	2.89	0.40
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.21	0.40
1:AA:1113:C:C2	1:AA:1114:C:C5	3.09	0.40
1:AA:1152:A:C6	1:AA:1153:G:C6	3.09	0.40
1:AA:1231:G:C6	1:AA:1232:U:C4	3.09	0.40
1:AA:1233:G:C6	1:AA:1234:C:N4	2.89	0.40
1:AA:1309:G:C2	1:AA:1329:A:C4	3.09	0.40
1:AA:1412:C:N1	1:AA:1489:G:N2	2.69	0.40
2:AB:34:ARG:HE	2:AB:35:ASN:H	1.69	0.40
2:AB:87:ASP:HB2	2:AB:220:VAL:HG12	2.03	0.40
2:AB:209:VAL:C	2:AB:211:LEU:N	2.77	0.40
2:AB:218:ALA:O	2:AB:219:THR:CG2	2.67	0.40
3:AC:60:ALA:C	3:AC:62:SER:N	2.79	0.40
3:AC:115:VAL:O	3:AC:118:SER:HB3	2.21	0.40
4:AD:119:HIS:O	4:AD:120:LYS:C	2.64	0.40
4:AD:162:GLU:O	4:AD:166:LYS:HG3	2.21	0.40
4:AD:189:ASP:C	4:AD:190:LEU:O	2.64	0.40
4:AD:193:ASP:O	4:AD:194:ILE:HG22	2.20	0.40
5:AE:131:ASN:O	5:AE:135:VAL:HG12	2.22	0.40
7:AG:39:GLU:C	7:AG:41:ILE:H	2.28	0.40
8:AH:5:PRO:O	8:AH:8:ASP:N	2.55	0.40
9:AI:9:GLY:HA3	9:AI:81:GLY:N	2.37	0.40
9:AI:18:VAL:O	9:AI:18:VAL:HG12	2.21	0.40
9:AI:24:ASN:HB2	9:AI:61:ASP:OD2	2.21	0.40
11:AK:35:ASP:OD2	11:AK:35:ASP:C	2.62	0.40
11:AK:124:LYS:HE3	21:AU:34:ARG:CZ	2.51	0.40
12:AL:86:VAL:O	12:AL:88:ASP:N	2.54	0.40
12:AL:107:LYS:HG3	12:AL:108:ASP:CG	2.46	0.40
13:AM:80:MET:C	13:AM:91:ARG:HH22	2.29	0.40
20:AT:13:SER:HA	20:AT:16:ALA:HB3	2.03	0.40
20:AT:56:ILE:HD12	20:AT:56:ILE:O	2.20	0.40
21:AU:21:SER:C	21:AU:22:CYS:SG	3.04	0.40
22:AV:19:G:H2'	23:AW:80:LEU:HB3	2.03	0.40
22:AV:113:A:C4	22:AV:114:G:C5	3.10	0.40
22:AV:229:U:O2'	22:AV:230:U:C5'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:245:C:H3'	22:AV:248:G:C2	2.41	0.40
22:AV:323:A:N3	22:AV:324:G:C8	2.89	0.40
24:AX:9:G:C2	24:AX:47:G:C6	3.09	0.40
24:AX:57:C:H5	26:BA:2168:G:O6	2.03	0.40
25:AY:147:TRP:O	25:AY:150:ILE:N	2.54	0.40
25:AY:216:LEU:HD23	25:AY:216:LEU:O	2.22	0.40
25:AY:300:GLU:O	25:AY:301:ILE:HD13	2.20	0.40
25:AY:415:PRO:O	25:AY:416:LYS:C	2.63	0.40
25:AY:542:VAL:O	25:AY:542:VAL:HG22	2.21	0.40
26:BA:125:A:C6	53:B2:10:LEU:CD1	3.04	0.40
26:BA:196:A:C2'	26:BA:805:G:O6	2.69	0.40
26:BA:495:G:H2'	26:BA:496:G:O5'	2.21	0.40
26:BA:729:G:C5	27:BC:206:LYS:HB2	2.56	0.40
26:BA:880:G:N3	26:BA:881:G:N7	2.69	0.40
26:BA:1056:G:O2'	26:BA:1086:A:H1'	2.21	0.40
26:BA:1203:U:O4	26:BA:1204:A:C5	2.73	0.40
26:BA:1234:U:C6	26:BA:1234:U:H3'	2.56	0.40
26:BA:1341:G:OP2	26:BA:1397:U:C2	2.74	0.40
26:BA:1827:U:O2'	26:BA:1828:G:H5'	2.21	0.40
26:BA:2070:A:H2'	26:BA:2071:A:O4'	2.21	0.40
26:BA:2189:U:H2'	26:BA:2190:G:C8	2.56	0.40
26:BA:2297:A:C6	26:BA:2298:A:C8	3.09	0.40
26:BA:2304:G:H5'	30:BF:120:SER:HB3	2.03	0.40
26:BA:2443:C:O2'	26:BA:2444:G:H5'	2.21	0.40
26:BA:2482:A:H2'	26:BA:2483:C:O4'	2.20	0.40
26:BA:2670:A:C2'	26:BA:2671:G:O5'	2.70	0.40
26:BA:2751:G:C4	31:BG:2:ARG:HD3	2.56	0.40
26:BA:2757:A:N1	31:BG:66:THR:CG2	2.74	0.40
26:BA:2807:U:C2'	26:BA:2808:G:H5'	2.51	0.40
26:BA:2853:C:H2'	26:BA:2854:G:H8	1.87	0.40
27:BC:35:LYS:HG2	27:BC:36:ASN:N	2.36	0.40
27:BC:131:MET:CE	27:BC:187:CYS:HB2	2.52	0.40
29:BE:91:ASP:OD1	29:BE:92:HIS:N	2.54	0.40
30:BF:28:PRO:C	30:BF:29:ARG:CG	2.94	0.40
32:BH:52:ALA:O	32:BH:56:ALA:HB3	2.21	0.40
33:BI:18:ASN:OD1	33:BI:34:ILE:O	2.39	0.40
33:BI:57:VAL:HB	33:BI:68:PHE:HA	2.04	0.40
36:BL:135:ILE:HD12	36:BL:142:ILE:HD11	2.03	0.40
37:BM:29:GLY:HA3	37:BM:106:ASP:HB2	2.03	0.40
39:BO:106:LEU:C	39:BO:106:LEU:CD2	2.94	0.40
40:BP:9:GLN:C	40:BP:11:GLN:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BP:12:MET:HA	40:BP:76:HIS:ND1	2.36	0.40
40:BP:30:TRP:CD2	40:BP:39:LEU:HD12	2.55	0.40
46:BV:80:HIS:CE1	46:BV:83:LYS:HE2	2.57	0.40
49:BY:23:ARG:CA	49:BY:27:ASN:ND2	2.84	0.40
53:B2:35:ARG:O	53:B2:36:ALA:C	2.62	0.40
56:BB:20:G:C8	56:BB:20:G:H3'	2.56	0.40
56:BB:73:A:C8	56:BB:104:A:C6	3.09	0.40
1:AA:11:G:C5	1:AA:12:U:C4	3.10	0.40
1:AA:79:G:N2	1:AA:91:U:O4	2.54	0.40
1:AA:372:C:H4'	1:AA:373:A:OP1	2.21	0.40
1:AA:439:U:C6	4:AD:119:HIS:CD2	3.09	0.40
1:AA:502:A:OP1	12:AL:114:SER:HB3	2.20	0.40
1:AA:643:C:H5'	8:AH:31:LEU:CD2	2.51	0.40
1:AA:654:G:H2'	1:AA:655:A:H5'	2.03	0.40
1:AA:697:U:O2	1:AA:798:U:H1'	2.22	0.40
1:AA:755:G:H2'	1:AA:756:C:H6	1.87	0.40
1:AA:942:G:O6	1:AA:1342:C:N4	2.54	0.40
1:AA:1025:U:C5'	1:AA:1026:G:O5'	2.69	0.40
1:AA:1060:U:C5'	10:AJ:53:ILE:CG2	2.99	0.40
1:AA:1097:C:C5'	1:AA:1170:A:C4'	2.48	0.40
1:AA:1197:A:OP1	1:AA:1198:G:OP2	2.38	0.40
1:AA:1411:C:H6	1:AA:1411:C:O5'	2.04	0.40
1:AA:1508:A:H2'	1:AA:1509:C:H6	1.86	0.40
2:AB:110:ILE:CG1	2:AB:150:ILE:CG1	2.97	0.40
2:AB:117:GLU:O	2:AB:120:SER:HB3	2.21	0.40
2:AB:159:ALA:O	2:AB:160:LEU:CB	2.68	0.40
3:AC:12:GLY:C	3:AC:13:ILE:CG2	2.94	0.40
3:AC:125:ARG:O	3:AC:126:ARG:HB3	2.22	0.40
4:AD:17:ASP:CG	4:AD:19:PHE:H	2.29	0.40
4:AD:68:GLU:O	4:AD:72:ARG:HG2	2.21	0.40
5:AE:104:ILE:HD12	5:AE:104:ILE:HA	1.79	0.40
7:AG:28:ILE:HD12	7:AG:100:MET:CE	2.50	0.40
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	2.04	0.40
9:AI:19:PHE:O	9:AI:62:LEU:HA	2.21	0.40
9:AI:33:SER:HB3	9:AI:36:GLN:HB2	2.02	0.40
10:AJ:59:LYS:HZ2	10:AJ:60:ASP:H	1.68	0.40
11:AK:87:GLY:N	11:AK:113:THR:HG22	2.36	0.40
11:AK:96:ILE:HG13	11:AK:97:ARG:H	1.86	0.40
11:AK:110:THR:HG23	21:AU:4:LYS:CA	2.51	0.40
12:AL:2:THR:O	12:AL:3:VAL:C	2.64	0.40
13:AM:18:LEU:HG	13:AM:33:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:11:LYS:O	14:AN:12:ARG:C	2.62	0.40
16:AP:52:LEU:O	16:AP:52:LEU:HG	2.21	0.40
16:AP:56:ARG:HD2	16:AP:56:ARG:HA	1.88	0.40
17:AQ:16:MET:CG	17:AQ:19:SER:HB3	2.50	0.40
18:AR:51:GLN:O	18:AR:51:GLN:HG3	2.21	0.40
21:AU:46:ARG:C	21:AU:48:LYS:N	2.80	0.40
22:AV:40:G:C2'	22:AV:41:G:O5'	2.69	0.40
22:AV:50:G:N2	22:AV:70:A:H61	2.19	0.40
22:AV:77:G:C6	22:AV:78:C:N4	2.89	0.40
22:AV:272:C:O4'	22:AV:291:A:N1	2.54	0.40
22:AV:315:G:N7	22:AV:316:A:C6	2.90	0.40
22:AV:327:A:C6	22:AV:328:U:C4	3.09	0.40
23:AW:86:LEU:HD23	23:AW:87:ARG:HG2	2.02	0.40
25:AY:149:VAL:O	25:AY:152:THR:N	2.51	0.40
25:AY:170:ARG:O	25:AY:171:GLU:CG	2.59	0.40
25:AY:420:ASP:HB3	25:AY:472:VAL:HG13	2.02	0.40
25:AY:514:VAL:HG21	25:AY:593:ALA:HB3	1.98	0.40
26:BA:80:G:N3	26:BA:294:A:C2	2.90	0.40
26:BA:212:G:H2'	26:BA:213:A:O4'	2.19	0.40
26:BA:356:G:C2'	26:BA:357:C:H5'	2.52	0.40
26:BA:360:U:O2	26:BA:360:U:H2'	2.21	0.40
26:BA:388:G:N7	26:BA:390:U:H2'	2.36	0.40
26:BA:557:C:C2	26:BA:558:U:C5	3.09	0.40
26:BA:669:G:H2'	26:BA:670:A:N7	2.36	0.40
26:BA:819:A:N3	26:BA:1189:A:C2	2.90	0.40
26:BA:852:U:H5'	50:BZ:45:GLY:HA3	2.04	0.40
26:BA:919:U:H2'	26:BA:920:A:H5'	2.02	0.40
26:BA:1044:C:H1'	26:BA:1048:A:H1'	2.02	0.40
26:BA:1432:G:O2'	26:BA:1433:A:H5'	2.21	0.40
26:BA:1467:U:C4	26:BA:1468:U:C5	3.08	0.40
26:BA:1467:U:C5	26:BA:1546:G:N3	2.89	0.40
26:BA:1478:G:C6	26:BA:1514:G:C2	3.09	0.40
26:BA:1588:G:C6	26:BA:1589:U:C5	3.09	0.40
26:BA:2057:G:C2'	26:BA:2058:A:H5'	2.52	0.40
26:BA:2289:G:N3	26:BA:2289:G:H2'	2.36	0.40
26:BA:2318:G:C5	26:BA:2319:G:C6	3.09	0.40
26:BA:2392:A:C2	26:BA:2393:U:C2	3.09	0.40
26:BA:2731:G:C6	26:BA:2732:G:C6	3.09	0.40
26:BA:2884:U:C6	51:B0:39:ARG:NH2	2.90	0.40
27:BC:144:GLU:HB2	27:BC:187:CYS:HB3	2.02	0.40
30:BF:14:LYS:O	30:BF:18:GLU:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BF:91:ARG:O	30:BF:94:ARG:HG3	2.21	0.40
32:BH:31:VAL:HG12	32:BH:32:PRO:N	2.37	0.40
33:BI:54:ILE:HG12	33:BI:73:PRO:N	2.36	0.40
36:BL:127:VAL:HG11	36:BL:132:ARG:CA	2.51	0.40
39:BO:50:ALA:O	39:BO:51:ALA:HB2	2.21	0.40
39:BO:111:ARG:HG3	39:BO:117:PHE:CZ	2.56	0.40
44:BT:51:PHE:O	44:BT:53:VAL:HG13	2.20	0.40
45:BU:39:ASN:HD22	45:BU:62:ALA:HB3	1.86	0.40
46:BV:70:ILE:HG22	46:BV:72:VAL:HG12	2.03	0.40
47:BW:11:ASP:OD2	47:BW:12:SER:N	2.52	0.40
49:BY:19:LEU:CA	49:BY:22:LEU:HB3	2.50	0.40
49:BY:53:VAL:O	49:BY:53:VAL:CG1	2.67	0.40
50:BZ:2:LYS:CD	50:BZ:2:LYS:N	2.82	0.40
50:BZ:3:THR:HG21	50:BZ:36:GLU:HB3	2.04	0.40
50:BZ:53:MET:C	50:BZ:54:VAL:CG1	2.94	0.40
1:AA:91:U:C5	1:AA:92:U:C5	3.09	0.40
1:AA:199:A:C2	1:AA:200:G:C4	3.09	0.40
1:AA:437:U:C4’	4:AD:153:ARG:NH2	2.85	0.40
1:AA:614:C:C4	1:AA:615:G:N7	2.90	0.40
1:AA:624:C:O2’	1:AA:625:U:H5’	2.22	0.40
1:AA:704:A:C2	1:AA:705:G:H1’	2.56	0.40
1:AA:720:C:H1’	18:AR:38:ILE:HG21	2.03	0.40
1:AA:784:A:H2’	1:AA:785:G:O4’	2.22	0.40
1:AA:864:A:H2’	1:AA:865:A:C8	2.56	0.40
1:AA:990:C:O2’	1:AA:991:U:H5’	2.21	0.40
1:AA:1092:A:C6	1:AA:1183:U:C2	3.09	0.40
1:AA:1149:C:H2’	1:AA:1150:A:O4’	2.22	0.40
1:AA:1317:C:OP1	14:AN:56:SER:OG	2.24	0.40
1:AA:1355:G:C2	1:AA:1356:G:C8	3.10	0.40
1:AA:1450:U:H2’	1:AA:1452:C:C5	2.56	0.40
1:AA:1526:G:P	21:AU:38:GLU:HB3	2.61	0.40
2:AB:117:GLU:HA	2:AB:140:LEU:HD21	2.03	0.40
3:AC:13:ILE:CG1	3:AC:14:VAL:HG13	2.51	0.40
3:AC:79:LYS:C	3:AC:81:GLU:H	2.29	0.40
3:AC:106:ARG:N	3:AC:106:ARG:CD	2.85	0.40
3:AC:142:ARG:NH1	3:AC:142:ARG:HG3	2.27	0.40
4:AD:44:LYS:HA	4:AD:45:PRO:HD3	1.94	0.40
5:AE:67:ARG:O	5:AE:68:ARG:O	2.39	0.40
5:AE:72:ASN:HD22	5:AE:72:ASN:N	2.13	0.40
7:AG:73:GLU:O	7:AG:74:VAL:HG13	2.22	0.40
7:AG:96:ASN:O	7:AG:100:MET:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:46:LYS:HE2	16:AP:47:GLU:H	1.86	0.40
16:AP:68:SER:O	16:AP:72:ALA:N	2.54	0.40
18:AR:71:ASP:O	18:AR:73:HIS:N	2.54	0.40
22:AV:215:C:C4	22:AV:216:U:O4	2.75	0.40
22:AV:303:G:C2	22:AV:304:C:N3	2.90	0.40
22:AV:337:C:H2'	22:AV:338:G:C8	2.56	0.40
24:AX:40:C:O2	24:AX:40:C:C2'	2.69	0.40
24:AX:48:U:H2'	24:AX:51:U:OP1	2.22	0.40
25:AY:364:GLU:HG2	25:AY:366:VAL:HG13	2.03	0.40
25:AY:621:ILE:O	25:AY:622:GLY:C	2.63	0.40
25:AY:621:ILE:HG23	25:AY:631:ILE:HG12	2.02	0.40
26:BA:125:A:C6	53:B2:10:LEU:HD13	2.56	0.40
26:BA:170:U:H2'	26:BA:171:U:H6	1.86	0.40
26:BA:283:G:C2'	26:BA:284:U:O5'	2.69	0.40
26:BA:328:U:C2'	26:BA:329:G:OP1	2.69	0.40
26:BA:528:A:N1	26:BA:2043:C:O5'	2.54	0.40
26:BA:766:U:H2'	26:BA:767:U:C6	2.57	0.40
26:BA:823:C:H2'	26:BA:824:U:H5'	2.03	0.40
26:BA:912:C:O2	26:BA:913:U:C6	2.73	0.40
26:BA:1340:U:O2	26:BA:1340:U:O5'	2.39	0.40
26:BA:1415:U:C4	26:BA:1587:G:O6	2.74	0.40
26:BA:1445:G:C6	26:BA:1446:C:N3	2.89	0.40
26:BA:1721:G:O6	26:BA:1738:G:O6	2.39	0.40
26:BA:1843:C:H2'	26:BA:1844:C:C6	2.57	0.40
26:BA:1909:C:O2	26:BA:1909:C:H2'	2.21	0.40
26:BA:2157:G:O2'	26:BA:2158:A:H8	2.04	0.40
26:BA:2170:A:H1'	26:BA:2171:A:C8	2.56	0.40
26:BA:2207:C:C2'	26:BA:2208:C:O5'	2.69	0.40
26:BA:2278:A:H5"	26:BA:2278:A:H8	1.86	0.40
26:BA:2312:U:H3'	26:BA:2312:U:C6	2.55	0.40
26:BA:2313:C:C2'	26:BA:2314:A:H5'	2.51	0.40
26:BA:2329:U:H2'	26:BA:2330:G:O4'	2.20	0.40
26:BA:2474:U:H3'	26:BA:2475:C:C6	2.56	0.40
26:BA:2757:A:OP1	55:B4:20:ASP:N	2.54	0.40
27:BC:6:LYS:HA	27:BC:7:PRO:HD3	1.91	0.40
28:BD:35:THR:O	28:BD:71:ALA:HB2	2.22	0.40
31:BG:23:ILE:HG23	31:BG:25:ILE:HD11	2.03	0.40
31:BG:27:GLY:O	31:BG:29:ASN:N	2.53	0.40
32:BH:75:LEU:O	32:BH:76:GLU:HB3	2.20	0.40
32:BH:76:GLU:HG2	32:BH:143:ILE:CD1	2.50	0.40
33:BI:82:ALA:HB1	33:BI:108:ILE:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BK:44:LYS:HA	35:BK:44:LYS:HD3	1.90	0.40
36:BL:136:GLU:C	36:BL:138:ALA:N	2.78	0.40
37:BM:109:PRO:O	37:BM:112:LEU:N	2.54	0.40
38:BN:35:LYS:HB2	38:BN:112:TYR:HE1	1.85	0.40
40:BP:89:GLY:HA3	40:BP:109:ILE:HD11	2.03	0.40
44:BT:2:ILE:HA	44:BT:3:ARG:HB2	2.03	0.40
45:BU:11:ILE:HG21	45:BU:79:ALA:CB	2.46	0.40
51:B0:3:GLN:HE21	51:B0:3:GLN:HB3	1.62	0.40
56:BB:38:C:C6	56:BB:38:C:C3'	3.04	0.40
56:BB:86:G:N7	56:BB:88:C:C4	2.90	0.40
1:AA:36:C:C2	1:AA:37:U:C6	3.10	0.40
1:AA:173:U:H5"	1:AA:197:A:O4'	2.21	0.40
1:AA:251:G:H4'	1:AA:252:U:O5'	2.21	0.40
1:AA:408:A:N1	1:AA:409:U:C2	2.90	0.40
1:AA:458:U:H2'	1:AA:459:A:H8	1.86	0.40
1:AA:577:G:C8	1:AA:816:A:C6	3.10	0.40
1:AA:840:C:O5'	1:AA:840:C:H6	2.04	0.40
1:AA:956:U:O2'	1:AA:957:U:H5'	2.22	0.40
1:AA:1023:U:C2'	1:AA:1024:G:O4'	2.68	0.40
1:AA:1104:G:H2'	1:AA:1105:A:O4'	2.22	0.40
1:AA:1129:C:H6	1:AA:1129:C:H2'	1.75	0.40
1:AA:1144:G:N1	1:AA:1145:A:H2	2.19	0.40
1:AA:1216:A:C6	1:AA:1217:C:C4	3.09	0.40
1:AA:1226:C:H2'	13:AM:101:THR:CB	2.51	0.40
1:AA:1233:G:OP2	9:AI:125:GLN:CB	2.63	0.40
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.52	0.40
1:AA:1236:A:O2'	1:AA:1304:G:H4'	2.21	0.40
1:AA:1367:C:C5'	10:AJ:62:ARG:NH1	2.84	0.40
2:AB:119:GLN:O	2:AB:119:GLN:HG2	2.22	0.40
3:AC:41:TYR:CZ	3:AC:45:GLU:HG3	2.55	0.40
3:AC:43:THR:O	3:AC:47:ALA:HA	2.21	0.40
3:AC:54:ILE:HA	3:AC:66:THR:O	2.22	0.40
5:AE:15:ILE:HD11	5:AE:37:VAL:HB	2.03	0.40
6:AF:17:GLN:HE21	6:AF:17:GLN:CA	2.34	0.40
6:AF:49:TYR:CD2	6:AF:49:TYR:C	2.99	0.40
7:AG:21:LEU:HD11	7:AG:61:PHE:CE1	2.57	0.40
9:AI:28:VAL:CG1	9:AI:31:GLN:HA	2.51	0.40
10:AJ:65:TYR:CD2	14:AN:98:LYS:HG2	2.57	0.40
12:AL:27:PRO:HG2	12:AL:28:GLN:OE1	2.21	0.40
15:AO:40:GLY:O	15:AO:43:ALA:HB3	2.22	0.40
16:AP:56:ARG:O	16:AP:57:ILE:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:60:ILE:HG23	17:AQ:72:TRP:CE3	2.55	0.40
17:AQ:67:SER:O	17:AQ:68:LYS:O	2.39	0.40
18:AR:67:LEU:HD23	18:AR:67:LEU:HA	1.84	0.40
22:AV:45:A:C2	22:AV:46:U:C4	3.09	0.40
22:AV:155:C:O2'	22:AV:156:G:H5"	2.17	0.40
22:AV:238:A:C2	22:AV:239:A:C6	3.09	0.40
22:AV:245:C:C2'	22:AV:248:G:H1'	2.51	0.40
22:AV:263:G:H5'	22:AV:264:U:OP2	2.21	0.40
22:AV:333:G:OP2	22:AV:334:A:P	2.80	0.40
24:AX:3:C:H42	24:AX:71:G:H1	1.68	0.40
25:AY:238:THR:CG2	25:AY:241:GLU:HG2	2.36	0.40
25:AY:583:LYS:O	25:AY:587:SER:HB2	2.22	0.40
25:AY:628:ARG:HH12	25:AY:680:PRO:CG	2.30	0.40
25:AY:635:GLU:CD	26:BA:1067:A:O2'	2.64	0.40
26:BA:737:C:H2'	26:BA:738:G:O4'	2.22	0.40
26:BA:896:A:N3	26:BA:897:C:O4'	2.55	0.40
26:BA:912:C:O2	26:BA:912:C:H2'	2.21	0.40
26:BA:1224:U:O2	26:BA:1224:U:C2'	2.65	0.40
26:BA:1494:A:C2	26:BA:1495:A:N3	2.89	0.40
26:BA:1580:A:H2'	26:BA:1581:G:C5'	2.52	0.40
26:BA:1587:G:N7	26:BA:1588:G:C8	2.90	0.40
26:BA:1748:C:C2	26:BA:1749:A:C8	3.09	0.40
26:BA:2189:U:H2'	26:BA:2190:G:O4'	2.21	0.40
26:BA:2192:U:C2	26:BA:2193:G:N7	2.89	0.40
26:BA:2519:U:C6	26:BA:2541:A:N6	2.90	0.40
26:BA:2660:A:C2	26:BA:2661:G:C4	3.10	0.40
26:BA:2839:G:C5	26:BA:2840:C:C4	3.09	0.40
27:BC:21:PRO:C	27:BC:23:LEU:H	2.29	0.40
27:BC:75:ALA:HB2	27:BC:95:TYR:HA	2.03	0.40
28:BD:12:THR:CG2	40:BP:8:GLU:HG2	2.51	0.40
28:BD:115:GLY:O	38:BN:3:HIS:CE1	2.75	0.40
29:BE:49:ARG:HA	29:BE:82:GLY:HA3	2.03	0.40
29:BE:134:LEU:CD2	29:BE:160:ALA:O	2.69	0.40
30:BF:41:GLU:C	30:BF:43:ILE:H	2.29	0.40
30:BF:51:ASN:ND2	30:BF:146:ASP:HB3	2.36	0.40
30:BF:126:ASN:ND2	30:BF:126:ASN:N	2.70	0.40
31:BG:8:VAL:HG21	31:BG:72:ASN:HA	2.04	0.40
31:BG:88:LEU:N	31:BG:88:LEU:CD1	2.80	0.40
32:BH:8:LYS:HD2	32:BH:15:LEU:HD23	2.03	0.40
32:BH:29:PHE:O	32:BH:33:GLN:HB3	2.21	0.40
32:BH:69:ALA:HB1	32:BH:138:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BI:56:VAL:HG21	33:BI:70:THR:HB	2.02	0.40
34:BJ:140:LEU:CD1	34:BJ:142:ILE:HD13	2.51	0.40
38:BN:100:CYS:O	38:BN:100:CYS:SG	2.79	0.40
39:BO:68:LYS:HE2	56:BB:49:C:O3'	2.22	0.40
43:BS:58:ALA:O	43:BS:62:ASP:HB2	2.20	0.40
47:BW:20:LYS:O	47:BW:21:ARG:CD	2.65	0.40
50:BZ:38:GLU:HB2	50:BZ:40:THR:HG23	2.03	0.40
52:B1:41:VAL:C	52:B1:43:ARG:N	2.79	0.40
55:B4:11:CYS:HB3	55:B4:33:HIS:HE1	1.87	0.40
56:BB:31:C:O2	56:BB:31:C:H2'	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein backbone outliers to report in this entry.

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 PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	AB	180/180 (100%)	110 (61%)	70 (39%)	0 1
3	AC	170/170 (100%)	122 (72%)	48 (28%)	0 3
4	AD	172/172 (100%)	130 (76%)	42 (24%)	1 4
5	AE	113/113 (100%)	75 (66%)	38 (34%)	0 2
6	AF	87/87 (100%)	57 (66%)	30 (34%)	0 1
7	AG	124/124 (100%)	85 (68%)	39 (32%)	0 2
8	AH	104/104 (100%)	79 (76%)	25 (24%)	1 4
9	AI	105/105 (100%)	80 (76%)	25 (24%)	1 4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
10	AJ	86/86 (100%)	60 (70%)	26 (30%)	0 2
11	AK	90/90 (100%)	63 (70%)	27 (30%)	0 2
12	AL	103/103 (100%)	86 (84%)	17 (16%)	2 10
13	AM	92/92 (100%)	69 (75%)	23 (25%)	0 4
14	AN	79/83 (95%)	59 (75%)	20 (25%)	0 3
15	AO	76/76 (100%)	62 (82%)	14 (18%)	1 8
16	AP	65/65 (100%)	47 (72%)	18 (28%)	0 3
17	AQ	74/74 (100%)	54 (73%)	20 (27%)	0 3
18	AR	48/48 (100%)	37 (77%)	11 (23%)	1 6
19	AS	70/70 (100%)	54 (77%)	16 (23%)	1 6
20	AT	65/65 (100%)	35 (54%)	30 (46%)	0 0
21	AU	44/44 (100%)	26 (59%)	18 (41%)	0 0
23	AW	101/102 (99%)	75 (74%)	26 (26%)	0 3
25	AY	563/582 (97%)	480 (85%)	83 (15%)	3 13
27	BC	216/216 (100%)	173 (80%)	43 (20%)	1 7
28	BD	164/164 (100%)	135 (82%)	29 (18%)	2 9
29	BE	165/165 (100%)	138 (84%)	27 (16%)	2 10
30	BF	148/148 (100%)	111 (75%)	37 (25%)	0 4
31	BG	137/137 (100%)	110 (80%)	27 (20%)	1 7
32	BH	114/114 (100%)	87 (76%)	27 (24%)	1 4
33	BI	109/109 (100%)	74 (68%)	35 (32%)	0 2
34	BJ	116/116 (100%)	95 (82%)	21 (18%)	2 9
35	BK	103/103 (100%)	85 (82%)	18 (18%)	2 9
36	BL	102/102 (100%)	77 (76%)	25 (24%)	1 4
37	BM	109/109 (100%)	81 (74%)	28 (26%)	0 3
38	BN	100/100 (100%)	80 (80%)	20 (20%)	1 7
39	BO	86/86 (100%)	65 (76%)	21 (24%)	1 4
40	BP	99/99 (100%)	77 (78%)	22 (22%)	1 6
41	BQ	89/89 (100%)	76 (85%)	13 (15%)	3 13
42	BR	84/84 (100%)	68 (81%)	16 (19%)	1 8
43	BS	93/93 (100%)	79 (85%)	14 (15%)	3 12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
44	BT	80/80 (100%)	67 (84%)	13 (16%)	2 10
45	BU	83/83 (100%)	64 (77%)	19 (23%)	1 6
46	BV	78/78 (100%)	63 (81%)	15 (19%)	1 8
47	BW	56/58 (97%)	45 (80%)	11 (20%)	1 7
48	BX	67/67 (100%)	55 (82%)	12 (18%)	2 9
49	BY	55/55 (100%)	44 (80%)	11 (20%)	1 7
50	BZ	48/48 (100%)	36 (75%)	12 (25%)	0 4
51	B0	47/47 (100%)	42 (89%)	5 (11%)	6 21
52	B1	45/45 (100%)	35 (78%)	10 (22%)	1 6
53	B2	38/38 (100%)	32 (84%)	6 (16%)	2 11
54	B3	51/51 (100%)	42 (82%)	9 (18%)	2 9
55	B4	34/34 (100%)	27 (79%)	7 (21%)	1 6
All	All	5327/5353 (100%)	4108 (77%)	1219 (23%)	2 6

All (1219) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	9	LEU
2	AB	13	VAL
2	AB	14	HIS
2	AB	18	GLN
2	AB	19	THR
2	AB	20	ARG
2	AB	30	ILE
2	AB	31	PHE
2	AB	37	VAL
2	AB	38	HIS
2	AB	39	ILE
2	AB	40	ILE
2	AB	42	LEU
2	AB	43	GLU
2	AB	45	THR
2	AB	48	MET
2	AB	49	PHE
2	AB	51	GLU
2	AB	55	GLU
2	AB	56	LEU
2	AB	63	LYS

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Mol	Chain	Res	Type
2	AB	65	LYS
2	AB	67	LEU
2	AB	69	VAL
2	AB	71	THR
2	AB	77	GLU
2	AB	81	ASP
2	AB	84	LEU
2	AB	88	GLN
2	AB	89	PHE
2	AB	90	PHE
2	AB	100	LEU
2	AB	101	THR
2	AB	104	LYS
2	AB	106	VAL
2	AB	108	GLN
2	AB	110	ILE
2	AB	111	LYS
2	AB	116	LEU
2	AB	125	PHE
2	AB	128	LEU
2	AB	129	THR
2	AB	130	LYS
2	AB	131	LYS
2	AB	132	GLU
2	AB	134	LEU
2	AB	135	MET
2	AB	136	ARG
2	AB	139	GLU
2	AB	142	LYS
2	AB	143	LEU
2	AB	145	ASN
2	AB	150	ILE
2	AB	160	LEU
2	AB	162	VAL
2	AB	169	HIS
2	AB	170	ILE
2	AB	178	LEU
2	AB	180	ILE
2	AB	185	ILE
2	AB	187	ASP
2	AB	193	ASP
2	AB	196	ASP

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Mol	Chain	Res	Type
2	AB	198	VAL
2	AB	204	ASP
2	AB	206	ILE
2	AB	207	ARG
2	AB	209	VAL
2	AB	219	THR
2	AB	224	ARG
3	AC	2	GLN
3	AC	3	LYS
3	AC	7	ASN
3	AC	9	ILE
3	AC	13	ILE
3	AC	14	VAL
3	AC	15	LYS
3	AC	17	TRP
3	AC	24	ASN
3	AC	25	THR
3	AC	26	LYS
3	AC	27	GLU
3	AC	32	LEU
3	AC	34	SER
3	AC	36	PHE
3	AC	42	LEU
3	AC	43	THR
3	AC	54	ILE
3	AC	57	GLU
3	AC	58	ARG
3	AC	63	ILE
3	AC	76	ILE
3	AC	79	LYS
3	AC	81	GLU
3	AC	85	LYS
3	AC	93	ILE
3	AC	102	ILE
3	AC	110	LEU
3	AC	120	THR
3	AC	123	LEU
3	AC	128	MET
3	AC	130	ARG
3	AC	139	ASN
3	AC	141	MET
3	AC	142	ARG

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Mol	Chain	Res	Type
3	AC	143	LEU
3	AC	149	LYS
3	AC	150	VAL
3	AC	153	SER
3	AC	156	LEU
3	AC	160	GLU
3	AC	161	ILE
3	AC	165	GLU
3	AC	166	TRP
3	AC	171	ARG
3	AC	172	VAL
3	AC	184	ASN
3	AC	199	VAL
4	AD	4	LEU
4	AD	8	LEU
4	AD	9	LYS
4	AD	12	ARG
4	AD	29	THR
4	AD	30	LYS
4	AD	31	CYS
4	AD	34	GLU
4	AD	44	LYS
4	AD	47	LEU
4	AD	52	VAL
4	AD	54	LEU
4	AD	59	LYS
4	AD	62	ARG
4	AD	68	GLU
4	AD	69	ARG
4	AD	77	GLU
4	AD	85	THR
4	AD	104	MET
4	AD	109	THR
4	AD	115	GLN
4	AD	118	SER
4	AD	122	ILE
4	AD	130	ASN
4	AD	137	SER
4	AD	142	VAL
4	AD	158	LEU
4	AD	160	LEU
4	AD	162	GLU

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Mol	Chain	Res	Type
4	AD	163	GLN
4	AD	166	LYS
4	AD	170	LEU
4	AD	171	GLU
4	AD	176	LYS
4	AD	178	GLU
4	AD	182	LYS
4	AD	193	ASP
4	AD	194	ILE
4	AD	195	ASN
4	AD	196	GLU
4	AD	202	LEU
4	AD	205	LYS
5	AE	14	LEU
5	AE	17	VAL
5	AE	18	ASN
5	AE	20	VAL
5	AE	25	LYS
5	AE	37	VAL
5	AE	45	VAL
5	AE	54	GLU
5	AE	55	VAL
5	AE	63	MET
5	AE	64	GLU
5	AE	68	ARG
5	AE	71	ILE
5	AE	72	ASN
5	AE	73	VAL
5	AE	77	ASN
5	AE	82	HIS
5	AE	87	VAL
5	AE	92	ARG
5	AE	94	PHE
5	AE	102	THR
5	AE	113	VAL
5	AE	114	LEU
5	AE	116	VAL
5	AE	119	VAL
5	AE	121	ASN
5	AE	123	LEU
5	AE	125	LYS
5	AE	130	THR

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Mol	Chain	Res	Type
5	AE	131	ASN
5	AE	133	ILE
5	AE	135	VAL
5	AE	136	VAL
5	AE	139	THR
5	AE	140	ILE
5	AE	144	GLU
5	AE	148	SER
5	AE	152	VAL
6	AF	2	ARG
6	AF	6	ILE
6	AF	10	VAL
6	AF	14	GLN
6	AF	15	SER
6	AF	17	GLN
6	AF	24	ARG
6	AF	35	LYS
6	AF	39	LEU
6	AF	42	TRP
6	AF	44	ARG
6	AF	46	GLN
6	AF	51	ILE
6	AF	52	ASN
6	AF	55	HIS
6	AF	62	MET
6	AF	63	ASN
6	AF	69	GLU
6	AF	71	ILE
6	AF	73	GLU
6	AF	74	LEU
6	AF	77	THR
6	AF	82	ASP
6	AF	85	ILE
6	AF	86	ARG
6	AF	87	SER
6	AF	89	VAL
6	AF	96	VAL
6	AF	97	THR
6	AF	100	SER
7	AG	5	VAL
7	AG	6	ILE
7	AG	8	GLN

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Mol	Chain	Res	Type
7	AG	12	LEU
7	AG	22	LEU
7	AG	25	PHE
7	AG	29	LEU
7	AG	31	VAL
7	AG	42	VAL
7	AG	46	LEU
7	AG	48	THR
7	AG	49	LEU
7	AG	51	GLN
7	AG	58	LEU
7	AG	61	PHE
7	AG	62	GLU
7	AG	67	ASN
7	AG	69	ARG
7	AG	73	GLU
7	AG	74	VAL
7	AG	77	ARG
7	AG	78	ARG
7	AG	79	VAL
7	AG	85	GLN
7	AG	88	VAL
7	AG	89	GLU
7	AG	90	VAL
7	AG	105	GLU
7	AG	108	ARG
7	AG	110	ARG
7	AG	119	LEU
7	AG	121	ASN
7	AG	129	ASN
7	AG	132	THR
7	AG	134	VAL
7	AG	135	LYS
7	AG	141	HIS
7	AG	145	GLU
7	AG	147	ASN
8	AH	2	MET
8	AH	10	LEU
8	AH	12	ARG
8	AH	21	LYS
8	AH	25	THR
8	AH	29	SER

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Mol	Chain	Res	Type
8	AH	30	LYS
8	AH	31	LEU
8	AH	37	ASN
8	AH	41	GLU
8	AH	47	ASP
8	AH	48	PHE
8	AH	54	THR
8	AH	76	ARG
8	AH	82	LEU
8	AH	88	LYS
8	AH	89	ASP
8	AH	93	LYS
8	AH	98	LEU
8	AH	102	VAL
8	AH	103	VAL
8	AH	106	SER
8	AH	111	THR
8	AH	116	ARG
8	AH	124	ILE
9	AI	6	TYR
9	AI	10	ARG
9	AI	11	ARG
9	AI	12	LYS
9	AI	13	SER
9	AI	17	ARG
9	AI	29	ILE
9	AI	35	GLU
9	AI	41	GLU
9	AI	42	THR
9	AI	45	MET
9	AI	56	MET
9	AI	60	LEU
9	AI	62	LEU
9	AI	67	LYS
9	AI	86	LEU
9	AI	87	MET
9	AI	88	GLU
9	AI	89	TYR
9	AI	96	GLU
9	AI	98	ARG
9	AI	115	VAL
9	AI	126	PHE

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Mol	Chain	Res	Type
9	AI	128	LYS
9	AI	129	ARG
10	AJ	6	ILE
10	AJ	8	ILE
10	AJ	11	LYS
10	AJ	15	HIS
10	AJ	17	LEU
10	AJ	25	ILE
10	AJ	27	GLU
10	AJ	28	THR
10	AJ	40	ILE
10	AJ	42	LEU
10	AJ	44	THR
10	AJ	47	GLU
10	AJ	49	PHE
10	AJ	52	LEU
10	AJ	53	ILE
10	AJ	54	SER
10	AJ	59	LYS
10	AJ	63	ASP
10	AJ	67	ILE
10	AJ	71	LEU
10	AJ	73	LEU
10	AJ	75	ASP
10	AJ	77	VAL
10	AJ	83	THR
10	AJ	92	LEU
10	AJ	101	SER
11	AK	13	LYS
11	AK	15	VAL
11	AK	17	ASP
11	AK	23	HIS
11	AK	29	THR
11	AK	30	ILE
11	AK	31	VAL
11	AK	34	THR
11	AK	37	GLN
11	AK	51	PHE
11	AK	64	VAL
11	AK	67	GLU
11	AK	75	GLU
11	AK	80	ASN

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Mol	Chain	Res	Type
11	AK	81	LEU
11	AK	82	GLU
11	AK	92	ARG
11	AK	93	GLU
11	AK	95	THR
11	AK	96	ILE
11	AK	100	ASN
11	AK	106	ILE
11	AK	108	ASN
11	AK	110	THR
11	AK	113	THR
11	AK	125	LYS
11	AK	127	ARG
12	AL	3	VAL
12	AL	9	LYS
12	AL	14	LYS
12	AL	18	SER
12	AL	20	VAL
12	AL	24	GLU
12	AL	43	LYS
12	AL	48	LEU
12	AL	53	ARG
12	AL	61	GLU
12	AL	63	THR
12	AL	73	LEU
12	AL	74	GLN
12	AL	77	SER
12	AL	101	LEU
12	AL	114	SER
12	AL	120	ARG
13	AM	3	ILE
13	AM	6	ILE
13	AM	12	LYS
13	AM	15	VAL
13	AM	26	LYS
13	AM	28	ARG
13	AM	33	LEU
13	AM	43	LYS
13	AM	44	ILE
13	AM	54	THR
13	AM	56	ARG
13	AM	59	VAL

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Mol	Chain	Res	Type
13	AM	63	VAL
13	AM	70	ARG
13	AM	71	GLU
13	AM	78	ARG
13	AM	82	LEU
13	AM	86	ARG
13	AM	90	HIS
13	AM	94	LEU
13	AM	106	ARG
13	AM	107	THR
13	AM	111	PRO
14	AN	3	GLN
14	AN	6	LYS
14	AN	9	GLU
14	AN	15	LEU
14	AN	23	ARG
14	AN	25	GLU
14	AN	27	LYS
14	AN	41	ARG
14	AN	43	ASN
14	AN	46	LEU
14	AN	48	LEU
14	AN	49	GLN
14	AN	51	LEU
14	AN	74	LEU
14	AN	76	LYS
14	AN	82	ILE
14	AN	89	MET
14	AN	92	GLU
14	AN	98	LYS
14	AN	100	SER
15	AO	7	THR
15	AO	12	SER
15	AO	16	ARG
15	AO	21	THR
15	AO	30	LEU
15	AO	34	GLN
15	AO	38	LEU
15	AO	39	GLN
15	AO	47	LYS
15	AO	52	ARG
15	AO	56	LEU

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Mol	Chain	Res	Type
15	AO	57	ARG
15	AO	74	VAL
15	AO	86	LEU
16	AP	2	VAL
16	AP	6	LEU
16	AP	9	HIS
16	AP	16	PHE
16	AP	18	GLN
16	AP	19	VAL
16	AP	20	VAL
16	AP	31	ARG
16	AP	33	ILE
16	AP	34	GLU
16	AP	39	PHE
16	AP	46	LYS
16	AP	51	ARG
16	AP	67	ILE
16	AP	70	ARG
16	AP	71	VAL
16	AP	75	ILE
16	AP	76	LYS
17	AQ	3	LYS
17	AQ	6	THR
17	AQ	13	SER
17	AQ	20	ILE
17	AQ	22	VAL
17	AQ	24	ILE
17	AQ	25	GLU
17	AQ	27	PHE
17	AQ	28	VAL
17	AQ	37	ILE
17	AQ	50	ASN
17	AQ	51	GLU
17	AQ	54	ILE
17	AQ	58	VAL
17	AQ	60	ILE
17	AQ	73	THR
17	AQ	75	VAL
17	AQ	76	ARG
17	AQ	80	LYS
17	AQ	82	VAL
18	AR	23	LYS

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Mol	Chain	Res	Type
18	AR	24	ASP
18	AR	28	LEU
18	AR	29	LYS
18	AR	32	ILE
18	AR	35	SER
18	AR	42	ARG
18	AR	47	ARG
18	AR	54	LEU
18	AR	60	ARG
18	AR	70	THR
19	AS	5	LYS
19	AS	10	ILE
19	AS	15	LEU
19	AS	20	LYS
19	AS	26	ASP
19	AS	34	SER
19	AS	35	ARG
19	AS	39	ILE
19	AS	48	ILE
19	AS	54	ARG
19	AS	55	GLN
19	AS	62	THR
19	AS	64	GLU
19	AS	70	LEU
19	AS	73	PHE
19	AS	78	THR
20	AT	3	ILE
20	AT	4	LYS
20	AT	7	LYS
20	AT	9	ARG
20	AT	11	ILE
20	AT	12	GLN
20	AT	13	SER
20	AT	14	GLU
20	AT	17	ARG
20	AT	18	LYS
20	AT	22	SER
20	AT	25	SER
20	AT	26	MET
20	AT	29	THR
20	AT	31	ILE
20	AT	33	LYS

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Mol	Chain	Res	Type
20	AT	47	GLN
20	AT	48	LYS
20	AT	52	GLU
20	AT	53	MET
20	AT	56	ILE
20	AT	63	LYS
20	AT	65	LEU
20	AT	66	ILE
20	AT	67	HIS
20	AT	68	LYS
20	AT	69	ASN
20	AT	70	LYS
20	AT	75	LYS
20	AT	83	ASN
21	AU	3	ILE
21	AU	5	VAL
21	AU	7	GLU
21	AU	8	ASN
21	AU	9	GLU
21	AU	11	PHE
21	AU	15	LEU
21	AU	17	ARG
21	AU	19	LYS
21	AU	27	VAL
21	AU	28	LEU
21	AU	32	ARG
21	AU	33	ARG
21	AU	42	THR
21	AU	43	GLU
21	AU	50	SER
21	AU	52	VAL
21	AU	53	LYS
23	AW	5	LEU
23	AW	6	GLU
23	AW	12	HIS
23	AW	14	TYR
23	AW	16	ILE
23	AW	19	THR
23	AW	24	ILE
23	AW	42	THR
23	AW	45	PHE
23	AW	48	PHE

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Mol	Chain	Res	Type
23	AW	50	ASP
23	AW	52	GLU
23	AW	58	LEU
23	AW	62	PRO
23	AW	64	GLU
23	AW	73	PRO
23	AW	81	LEU
23	AW	82	HIS
23	AW	83	LYS
23	AW	86	LEU
23	AW	88	ARG
23	AW	89	LEU
23	AW	92	LYS
23	AW	100	LEU
23	AW	104	LYS
23	AW	105	ILE
25	AY	9	LEU
25	AY	12	LEU
25	AY	20	HIS
25	AY	21	ILE
25	AY	40	HIS
25	AY	65	ILE
25	AY	83	ASP
25	AY	85	PRO
25	AY	88	VAL
25	AY	89	ASP
25	AY	92	ILE
25	AY	96	ARG
25	AY	100	VAL
25	AY	101	LEU
25	AY	102	ASP
25	AY	111	SER
25	AY	117	GLN
25	AY	122	TRP
25	AY	124	GLN
25	AY	130	VAL
25	AY	132	ARG
25	AY	152	THR
25	AY	157	LEU
25	AY	191	ASP
25	AY	192	LEU
25	AY	204	GLU

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Mol	Chain	Res	Type
25	AY	216	LEU
25	AY	225	GLU
25	AY	230	LYS
25	AY	240	GLU
25	AY	242	LEU
25	AY	252	ASP
25	AY	255	ILE
25	AY	260	LEU
25	AY	270	GLN
25	AY	285	ASP
25	AY	289	ILE
25	AY	298	VAL
25	AY	299	VAL
25	AY	312	LEU
25	AY	326	THR
25	AY	328	ILE
25	AY	343	ASN
25	AY	349	LYS
25	AY	357	ARG
25	AY	377	VAL
25	AY	378	VAL
25	AY	381	LYS
25	AY	388	THR
25	AY	399	LEU
25	AY	409	ILE
25	AY	410	ASP
25	AY	420	ASP
25	AY	421	GLN
25	AY	426	GLN
25	AY	428	LEU
25	AY	438	PHE
25	AY	440	VAL
25	AY	468	ARG
25	AY	476	VAL
25	AY	481	VAL
25	AY	487	ILE
25	AY	501	THR
25	AY	504	ARG
25	AY	506	GLN
25	AY	509	HIS
25	AY	512	ILE
25	AY	515	GLU

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Mol	Chain	Res	Type
25	AY	517	LEU
25	AY	533	VAL
25	AY	567	LEU
25	AY	574	GLU
25	AY	595	GLN
25	AY	598	ASP
25	AY	608	VAL
25	AY	614	GLU
25	AY	625	ASN
25	AY	630	GLN
25	AY	631	ILE
25	AY	634	MET
25	AY	644	ARG
25	AY	657	THR
25	AY	685	GLU
27	BC	2	VAL
27	BC	9	SER
27	BC	13	ARG
27	BC	15	VAL
27	BC	17	LYS
27	BC	25	LYS
27	BC	34	GLU
27	BC	37	SER
27	BC	38	LYS
27	BC	42	ARG
27	BC	63	ILE
27	BC	76	VAL
27	BC	96	LYS
27	BC	101	ARG
27	BC	104	LEU
27	BC	109	LEU
27	BC	110	LYS
27	BC	115	ILE
27	BC	120	ASP
27	BC	124	LYS
27	BC	129	LEU
27	BC	136	VAL
27	BC	138	SER
27	BC	140	VAL
27	BC	153	LEU
27	BC	155	ARG
27	BC	167	ASP

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Mol	Chain	Res	Type
27	BC	173	LEU
27	BC	176	ARG
27	BC	183	VAL
27	BC	196	ASN
27	BC	198	GLU
27	BC	203	VAL
27	BC	204	LEU
27	BC	211	ARG
27	BC	224	MET
27	BC	225	ASN
27	BC	256	THR
27	BC	259	ASN
27	BC	262	THR
27	BC	266	ILE
27	BC	268	ARG
27	BC	270	ARG
28	BD	12	THR
28	BD	13	ARG
28	BD	26	VAL
28	BD	28	GLU
28	BD	32	ASN
28	BD	33	ARG
28	BD	35	THR
28	BD	37	VAL
28	BD	46	ARG
28	BD	48	ILE
28	BD	62	LYS
28	BD	73	VAL
28	BD	77	ARG
28	BD	83	ARG
28	BD	89	GLU
28	BD	95	SER
28	BD	97	SER
28	BD	100	LEU
28	BD	105	LYS
28	BD	112	THR
28	BD	121	THR
28	BD	129	THR
28	BD	139	SER
28	BD	159	LYS
28	BD	176	ASP
28	BD	177	VAL

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Mol	Chain	Res	Type
28	BD	178	VAL
28	BD	184	ARG
28	BD	193	VAL
29	BE	4	VAL
29	BE	7	ASP
29	BE	12	LEU
29	BE	40	ARG
29	BE	47	LYS
29	BE	53	THR
29	BE	55	SER
29	BE	77	ILE
29	BE	80	SER
29	BE	84	THR
29	BE	97	ASN
29	BE	108	ILE
29	BE	111	GLU
29	BE	113	VAL
29	BE	119	ILE
29	BE	149	ILE
29	BE	150	THR
29	BE	159	LEU
29	BE	163	ASN
29	BE	164	LEU
29	BE	170	ARG
29	BE	176	ASP
29	BE	187	VAL
29	BE	189	THR
29	BE	196	VAL
29	BE	197	GLU
29	BE	199	MET
30	BF	2	LYS
30	BF	11	VAL
30	BF	17	THR
30	BF	18	GLU
30	BF	20	ASN
30	BF	24	VAL
30	BF	26	GLN
30	BF	30	VAL
30	BF	33	ILE
30	BF	34	THR
30	BF	35	LEU
30	BF	41	GLU

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Mol	Chain	Res	Type
30	BF	43	ILE
30	BF	47	LYS
30	BF	48	LEU
30	BF	49	LEU
30	BF	50	ASP
30	BF	55	ASP
30	BF	56	LEU
30	BF	60	SER
30	BF	67	THR
30	BF	77	LYS
30	BF	91	ARG
30	BF	94	ARG
30	BF	100	GLU
30	BF	104	THR
30	BF	107	VAL
30	BF	120	SER
30	BF	124	ARG
30	BF	129	MET
30	BF	131	VAL
30	BF	146	ASP
30	BF	149	ARG
30	BF	151	LEU
30	BF	154	THR
30	BF	157	THR
30	BF	173	ASP
31	BG	5	LYS
31	BG	9	VAL
31	BG	10	VAL
31	BG	14	VAL
31	BG	22	VAL
31	BG	26	LYS
31	BG	29	ASN
31	BG	31	GLU
31	BG	41	GLU
31	BG	42	VAL
31	BG	49	LEU
31	BG	76	ILE
31	BG	79	THR
31	BG	91	VAL
31	BG	100	ASN
31	BG	105	SER
31	BG	123	GLU

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Mol	Chain	Res	Type
31	BG	130	ILE
31	BG	138	GLN
31	BG	148	ARG
31	BG	154	GLU
31	BG	155	PRO
31	BG	159	LYS
31	BG	165	ASP
31	BG	167	VAL
31	BG	169	ARG
31	BG	170	THR
32	BH	1	MET
32	BH	3	VAL
32	BH	7	ASP
32	BH	8	LYS
32	BH	15	LEU
32	BH	18	GLN
32	BH	19	VAL
32	BH	27	ARG
32	BH	37	VAL
32	BH	48	GLU
32	BH	50	ARG
32	BH	60	GLU
32	BH	66	ASN
32	BH	72	ILE
32	BH	75	LEU
32	BH	76	GLU
32	BH	77	THR
32	BH	78	VAL
32	BH	87	GLU
32	BH	90	LEU
32	BH	112	LYS
32	BH	113	SER
32	BH	116	ARG
32	BH	123	ARG
32	BH	124	THR
32	BH	131	SER
32	BH	146	VAL
33	BI	2	LYS
33	BI	7	TYR
33	BI	8	VAL
33	BI	10	LEU
33	BI	11	GLN

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Mol	Chain	Res	Type
33	BI	16	MET
33	BI	27	LEU
33	BI	30	GLN
33	BI	33	ASN
33	BI	37	PHE
33	BI	38	CYS
33	BI	39	LYS
33	BI	44	LYS
33	BI	46	ASP
33	BI	49	GLU
33	BI	56	VAL
33	BI	61	TYR
33	BI	66	PHE
33	BI	67	THR
33	BI	68	PHE
33	BI	71	LYS
33	BI	81	LYS
33	BI	85	ILE
33	BI	86	LYS
33	BI	93	ASN
33	BI	95	ASP
33	BI	96	LYS
33	BI	100	ILE
33	BI	101	SER
33	BI	102	ARG
33	BI	107	GLU
33	BI	125	THR
33	BI	126	ARG
33	BI	135	MET
33	BI	139	VAL
34	BJ	1	MET
34	BJ	4	PHE
34	BJ	5	THR
34	BJ	9	GLU
34	BJ	17	VAL
34	BJ	23	LYS
34	BJ	30	THR
34	BJ	43	GLU
34	BJ	48	VAL
34	BJ	61	LYS
34	BJ	64	VAL
34	BJ	65	THR

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Mol	Chain	Res	Type
34	BJ	70	THR
34	BJ	81	ILE
34	BJ	84	ILE
34	BJ	100	VAL
34	BJ	101	ILE
34	BJ	124	VAL
34	BJ	131	ASN
34	BJ	135	GLN
34	BJ	142	ILE
35	BK	8	LEU
35	BK	19	VAL
35	BK	20	MET
35	BK	28	SER
35	BK	31	ARG
35	BK	32	TYR
35	BK	38	ILE
35	BK	42	THR
35	BK	58	LEU
35	BK	63	VAL
35	BK	66	LYS
35	BK	77	ILE
35	BK	80	ASP
35	BK	82	ASN
35	BK	88	ASN
35	BK	92	GLU
35	BK	103	VAL
35	BK	121	GLU
36	BL	5	THR
36	BL	13	LYS
36	BL	19	LEU
36	BL	21	ARG
36	BL	27	LEU
36	BL	33	ARG
36	BL	40	SER
36	BL	47	ARG
36	BL	67	THR
36	BL	69	ARG
36	BL	76	GLU
36	BL	82	LEU
36	BL	85	VAL
36	BL	86	GLU
36	BL	89	VAL

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Mol	Chain	Res	Type
36	BL	92	LEU
36	BL	93	ASN
36	BL	94	THR
36	BL	95	LEU
36	BL	100	ILE
36	BL	115	GLU
36	BL	125	LEU
36	BL	127	VAL
36	BL	142	ILE
36	BL	144	GLU
37	BM	5	LYS
37	BM	7	THR
37	BM	12	MET
37	BM	16	ARG
37	BM	24	THR
37	BM	25	ASP
37	BM	30	SER
37	BM	36	VAL
37	BM	40	ARG
37	BM	47	GLU
37	BM	50	ARG
37	BM	55	ARG
37	BM	57	VAL
37	BM	60	GLN
37	BM	69	PRO
37	BM	70	ASP
37	BM	74	THR
37	BM	82	MET
37	BM	89	VAL
37	BM	100	LYS
37	BM	108	VAL
37	BM	110	GLU
37	BM	111	GLU
37	BM	115	GLU
37	BM	129	THR
37	BM	131	VAL
37	BM	134	THR
37	BM	135	VAL
38	BN	2	ARG
38	BN	6	SER
38	BN	13	ASN
38	BN	15	SER

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Mol	Chain	Res	Type
38	BN	20	MET
38	BN	36	THR
38	BN	37	THR
38	BN	39	PRO
38	BN	48	VAL
38	BN	56	LYS
38	BN	57	THR
38	BN	65	LEU
38	BN	69	ARG
38	BN	70	THR
38	BN	71	ARG
38	BN	89	SER
38	BN	97	ILE
38	BN	114	GLU
38	BN	116	VAL
38	BN	120	GLU
39	BO	4	LYS
39	BO	9	ARG
39	BO	17	LYS
39	BO	18	LEU
39	BO	25	ARG
39	BO	28	VAL
39	BO	38	GLN
39	BO	45	SER
39	BO	47	VAL
39	BO	49	VAL
39	BO	62	LEU
39	BO	63	LYS
39	BO	65	THR
39	BO	74	VAL
39	BO	78	VAL
39	BO	88	LYS
39	BO	89	ASP
39	BO	106	LEU
39	BO	111	ARG
39	BO	112	GLU
39	BO	115	LEU
40	BP	2	ASN
40	BP	3	ILE
40	BP	6	GLN
40	BP	15	ASP
40	BP	18	SER

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Mol	Chain	Res	Type
40	BP	26	GLU
40	BP	31	VAL
40	BP	45	VAL
40	BP	62	LYS
40	BP	67	GLU
40	BP	72	VAL
40	BP	74	GLN
40	BP	80	VAL
40	BP	92	ARG
40	BP	95	LYS
40	BP	102	ARG
40	BP	108	ARG
40	BP	109	ILE
40	BP	110	LYS
40	BP	111	GLU
40	BP	113	LEU
40	BP	114	ASN
41	BQ	3	VAL
41	BQ	5	ARG
41	BQ	7	VAL
41	BQ	8	ILE
41	BQ	10	ARG
41	BQ	16	ILE
41	BQ	17	LEU
41	BQ	18	LYS
41	BQ	33	VAL
41	BQ	39	ILE
41	BQ	50	ARG
41	BQ	91	ARG
41	BQ	97	ILE
42	BR	1	MET
42	BR	14	VAL
42	BR	20	VAL
42	BR	27	ILE
42	BR	38	VAL
42	BR	39	LEU
42	BR	43	ASN
42	BR	46	GLU
42	BR	47	VAL
42	BR	48	LYS
42	BR	58	VAL
42	BR	62	GLU

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Mol	Chain	Res	Type
42	BR	64	VAL
42	BR	83	TYR
42	BR	85	LYS
42	BR	94	THR
43	BS	4	ILE
43	BS	6	LYS
43	BS	12	SER
43	BS	19	LEU
43	BS	28	LYS
43	BS	35	ILE
43	BS	69	LEU
43	BS	73	LYS
43	BS	81	SER
43	BS	95	ARG
43	BS	96	ILE
43	BS	97	LEU
43	BS	107	VAL
43	BS	109	ASP
44	BT	28	ASN
44	BT	30	ILE
44	BT	34	VAL
44	BT	36	LYS
44	BT	37	ASP
44	BT	39	THR
44	BT	49	LYS
44	BT	52	GLU
44	BT	57	VAL
44	BT	60	THR
44	BT	74	ILE
44	BT	77	ARG
44	BT	91	GLN
45	BU	7	ASP
45	BU	8	ASP
45	BU	11	ILE
45	BU	17	ASP
45	BU	20	LYS
45	BU	23	LYS
45	BU	25	LYS
45	BU	28	LEU
45	BU	30	SER
45	BU	33	VAL
45	BU	48	VAL

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Mol	Chain	Res	Type
45	BU	51	LEU
45	BU	57	ILE
45	BU	60	LYS
45	BU	64	ILE
45	BU	67	SER
45	BU	71	ILE
45	BU	85	ARG
45	BU	99	SER
46	BV	1	MET
46	BV	3	THR
46	BV	8	VAL
46	BV	10	LYS
46	BV	11	GLU
46	BV	19	ARG
46	BV	29	ILE
46	BV	43	ASP
46	BV	53	LYS
46	BV	60	VAL
46	BV	61	LEU
46	BV	62	THR
46	BV	65	VAL
46	BV	70	ILE
46	BV	77	VAL
47	BW	16	ARG
47	BW	20	LYS
47	BW	25	GLU
47	BW	34	VAL
47	BW	40	LYS
47	BW	60	ASP
47	BW	66	GLU
47	BW	68	LYS
47	BW	71	LYS
47	BW	77	SER
47	BW	78	ILE
48	BX	4	CYS
48	BX	21	LEU
48	BX	27	ARG
48	BX	36	ARG
48	BX	39	VAL
48	BX	40	GLU
48	BX	43	LYS
48	BX	46	VAL

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Mol	Chain	Res	Type
48	BX	57	VAL
48	BX	58	ILE
48	BX	70	LEU
48	BX	76	LYS
49	BY	2	LYS
49	BY	6	LEU
49	BY	13	GLU
49	BY	16	THR
49	BY	22	LEU
49	BY	29	ARG
49	BY	37	LEU
49	BY	44	LYS
49	BY	54	LYS
49	BY	58	ASN
49	BY	59	GLU
50	BZ	2	LYS
50	BZ	7	THR
50	BZ	9	THR
50	BZ	20	LYS
50	BZ	24	LEU
50	BZ	31	ILE
50	BZ	38	GLU
50	BZ	44	ARG
50	BZ	47	ILE
50	BZ	56	VAL
50	BZ	57	GLU
50	BZ	58	GLU
51	B0	9	ARG
51	B0	19	ASP
51	B0	35	GLU
51	B0	39	ARG
51	B0	52	LYS
52	B1	5	ARG
52	B1	7	LYS
52	B1	9	LYS
52	B1	10	LEU
52	B1	32	LYS
52	B1	34	GLU
52	B1	35	LEU
52	B1	42	VAL
52	B1	46	VAL
52	B1	50	GLU

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Mol	Chain	Res	Type
53	B2	1	MET
53	B2	11	LYS
53	B2	12	ARG
53	B2	22	MET
53	B2	34	ARG
53	B2	42	LEU
54	B3	15	LYS
54	B3	16	THR
54	B3	29	ARG
54	B3	30	HIS
54	B3	37	THR
54	B3	40	LYS
54	B3	44	ARG
54	B3	46	LYS
54	B3	58	ILE
55	B4	2	LYS
55	B4	3	VAL
55	B4	6	SER
55	B4	16	ILE
55	B4	17	VAL
55	B4	20	ASP
55	B4	35	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (134) such sidechains are listed below:

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

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Mol	Chain	Res	Type
5	AE	72	ASN
5	AE	81	GLN
5	AE	82	HIS
5	AE	121	ASN
5	AE	131	ASN
6	AF	3	HIS
6	AF	55	HIS
7	AG	129	ASN
7	AG	141	HIS
8	AH	3	GLN
8	AH	15	ASN
9	AI	3	ASN
9	AI	74	GLN
10	AJ	56	HIS
11	AK	21	HIS
11	AK	23	HIS
11	AK	27	ASN
11	AK	100	ASN
11	AK	108	ASN
11	AK	118	ASN
12	AL	19	ASN
12	AL	111	GLN
13	AM	90	HIS
14	AN	60	GLN
14	AN	66	GLN
15	AO	37	HIS
16	AP	18	GLN
16	AP	59	HIS
17	AQ	49	ASN
20	AT	12	GLN
20	AT	19	HIS
20	AT	20	ASN
20	AT	47	GLN
20	AT	51	ASN
20	AT	74	HIS
23	AW	57	ASN
23	AW	70	ASN
23	AW	84	HIS
23	AW	108	ASN
25	AY	14	ASN
25	AY	124	GLN
25	AY	137	ASN

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Mol	Chain	Res	Type
25	AY	165	GLN
25	AY	190	ASN
25	AY	208	GLN
25	AY	343	ASN
25	AY	458	HIS
25	AY	475	ASN
25	AY	527	ASN
25	AY	573	HIS
25	AY	630	GLN
25	AY	641	GLN
25	AY	664	GLN
27	BC	85	ASN
27	BC	133	ASN
27	BC	141	HIS
28	BD	42	ASN
28	BD	67	HIS
28	BD	136	ASN
28	BD	140	HIS
29	BE	46	GLN
29	BE	90	GLN
29	BE	94	GLN
29	BE	136	GLN
29	BE	163	ASN
29	BE	165	HIS
30	BF	4	HIS
30	BF	20	ASN
30	BF	36	ASN
30	BF	51	ASN
30	BF	62	GLN
31	BG	72	ASN
31	BG	100	ASN
31	BG	114	HIS
31	BG	127	GLN
32	BH	128	HIS
32	BH	135	HIS
33	BI	18	ASN
34	BJ	58	ASN
34	BJ	77	HIS
34	BJ	80	HIS
34	BJ	138	GLN
35	BK	5	GLN
35	BK	13	ASN

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Mol	Chain	Res	Type
35	BK	82	ASN
36	BL	99	ASN
37	BM	60	GLN
38	BN	13	ASN
38	BN	18	GLN
38	BN	31	HIS
38	BN	62	ASN
38	BN	73	ASN
39	BO	29	HIS
40	BP	2	ASN
40	BP	11	GLN
40	BP	40	GLN
40	BP	65	ASN
41	BQ	80	ASN
42	BR	12	HIS
42	BR	43	ASN
42	BR	87	GLN
42	BR	89	HIS
43	BS	9	HIS
43	BS	57	ASN
43	BS	60	HIS
44	BT	28	ASN
44	BT	59	ASN
45	BU	68	ASN
45	BU	73	ASN
49	BY	25	GLN
49	BY	58	ASN
51	B0	3	GLN
51	B0	41	HIS
52	B1	18	HIS
52	B1	45	HIS
54	B3	30	HIS
54	B3	42	HIS
55	B4	33	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1537/1539 (99%)	458 (29%)	27 (1%)
22	AV	332/363 (91%)	187 (56%)	32 (9%)
24	AX	76/77 (98%)	37 (48%)	3 (3%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
26	BA	2901/2903 (99%)	777 (26%)	58 (1%)
56	BB	118/119 (99%)	24 (20%)	1 (0%)
All	All	4964/5001 (99%)	1483 (29%)	121 (2%)

All (1483) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	6	G
1	AA	7	A
1	AA	9	G
1	AA	12	U
1	AA	13	U
1	AA	15	G
1	AA	22	G
1	AA	28	A
1	AA	32	A
1	AA	39	G
1	AA	44	A
1	AA	45	G
1	AA	47	C
1	AA	48	C
1	AA	49	U
1	AA	51	A
1	AA	62	U
1	AA	67	C
1	AA	69	G
1	AA	70	U
1	AA	71	A
1	AA	72	A
1	AA	75	G
1	AA	76	G
1	AA	77	A
1	AA	80	A
1	AA	82	G
1	AA	83	C
1	AA	84	U
1	AA	85	U
1	AA	86	G
1	AA	89	U
1	AA	90	C
1	AA	91	U

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Mol	Chain	Res	Type
1	AA	92	U
1	AA	94	G
1	AA	95	C
1	AA	97	G
1	AA	108	G
1	AA	109	A
1	AA	111	G
1	AA	116	A
1	AA	117	G
1	AA	120	A
1	AA	121	U
1	AA	122	G
1	AA	130	A
1	AA	131	A
1	AA	137	U
1	AA	139	A
1	AA	142	G
1	AA	143	A
1	AA	144	G
1	AA	149	A
1	AA	159	G
1	AA	162	A
1	AA	163	C
1	AA	164	G
1	AA	168	G
1	AA	176	C
1	AA	181	A
1	AA	182	A
1	AA	183	C
1	AA	195	A
1	AA	200	G
1	AA	204	G
1	AA	205	A
1	AA	209	U
1	AA	210	C
1	AA	213	G
1	AA	220	G
1	AA	226	G
1	AA	240	G
1	AA	245	U
1	AA	247	G
1	AA	251	G

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Mol	Chain	Res	Type
1	AA	260	G
1	AA	262	A
1	AA	263	A
1	AA	266	G
1	AA	267	C
1	AA	278	G
1	AA	279	A
1	AA	280	C
1	AA	289	G
1	AA	290	C
1	AA	300	A
1	AA	308	C
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	331	G
1	AA	332	G
1	AA	346	G
1	AA	347	G
1	AA	352	C
1	AA	354	G
1	AA	359	G
1	AA	367	U
1	AA	370	C
1	AA	371	A
1	AA	372	C
1	AA	374	A
1	AA	382	A
1	AA	383	A
1	AA	384	G
1	AA	391	G
1	AA	398	U
1	AA	402	G
1	AA	403	C
1	AA	406	G
1	AA	407	U
1	AA	409	U
1	AA	410	G
1	AA	411	A
1	AA	412	A
1	AA	413	G
1	AA	414	A

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Mol	Chain	Res	Type
1	AA	418	C
1	AA	420	U
1	AA	421	U
1	AA	422	C
1	AA	423	G
1	AA	424	G
1	AA	429	U
1	AA	430	A
1	AA	433	G
1	AA	435	A
1	AA	439	U
1	AA	440	C
1	AA	445	G
1	AA	453	G
1	AA	456	A
1	AA	457	G
1	AA	458	U
1	AA	459	A
1	AA	460	A
1	AA	463	U
1	AA	465	A
1	AA	466	A
1	AA	467	U
1	AA	468	A
1	AA	474	G
1	AA	481	G
1	AA	482	A
1	AA	484	G
1	AA	485	U
1	AA	486	U
1	AA	490	C
1	AA	491	G
1	AA	492	C
1	AA	494	G
1	AA	495	A
1	AA	497	G
1	AA	498	A
1	AA	500	G
1	AA	501	C
1	AA	509	A
1	AA	511	C
1	AA	514	C

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Mol	Chain	Res	Type
1	AA	515	G
1	AA	518	C
1	AA	521	G
1	AA	527	G
1	AA	530	G
1	AA	531	U
1	AA	532	A
1	AA	534	U
1	AA	547	A
1	AA	550	G
1	AA	559	A
1	AA	562	U
1	AA	564	C
1	AA	570	G
1	AA	572	A
1	AA	573	A
1	AA	576	C
1	AA	578	C
1	AA	596	A
1	AA	605	U
1	AA	611	C
1	AA	615	G
1	AA	619	U
1	AA	625	U
1	AA	630	A
1	AA	631	C
1	AA	640	A
1	AA	644	U
1	AA	650	G
1	AA	652	U
1	AA	653	U
1	AA	656	G
1	AA	661	G
1	AA	665	A
1	AA	686	U
1	AA	695	A
1	AA	702	A
1	AA	703	G
1	AA	707	U
1	AA	720	C
1	AA	721	G
1	AA	723	U

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Mol	Chain	Res	Type
1	AA	724	G
1	AA	731	G
1	AA	733	G
1	AA	755	G
1	AA	756	C
1	AA	764	C
1	AA	773	G
1	AA	774	G
1	AA	776	G
1	AA	777	A
1	AA	778	G
1	AA	786	G
1	AA	787	A
1	AA	788	U
1	AA	792	A
1	AA	793	U
1	AA	794	A
1	AA	799	G
1	AA	804	U
1	AA	805	C
1	AA	815	A
1	AA	817	C
1	AA	821	G
1	AA	828	U
1	AA	829	G
1	AA	833	G
1	AA	841	C
1	AA	842	U
1	AA	843	U
1	AA	845	A
1	AA	846	G
1	AA	849	G
1	AA	854	U
1	AA	859	G
1	AA	860	A
1	AA	869	G
1	AA	883	C
1	AA	890	G
1	AA	896	C
1	AA	900	A
1	AA	902	G
1	AA	910	C

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Mol	Chain	Res	Type
1	AA	912	C
1	AA	914	A
1	AA	919	A
1	AA	920	U
1	AA	926	G
1	AA	927	G
1	AA	932	C
1	AA	934	C
1	AA	936	C
1	AA	938	A
1	AA	946	A
1	AA	960	U
1	AA	963	G
1	AA	964	A
1	AA	966	G
1	AA	969	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	979	C
1	AA	982	U
1	AA	983	A
1	AA	986	U
1	AA	989	U
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	1002	G
1	AA	1004	A
1	AA	1007	U
1	AA	1008	U
1	AA	1016	A
1	AA	1017	U
1	AA	1019	A
1	AA	1021	A
1	AA	1022	A
1	AA	1025	U
1	AA	1026	G
1	AA	1027	C
1	AA	1028	C
1	AA	1030	U

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Mol	Chain	Res	Type
1	AA	1031	C
1	AA	1032	G
1	AA	1033	G
1	AA	1034	G
1	AA	1035	A
1	AA	1036	A
1	AA	1037	C
1	AA	1039	G
1	AA	1043	G
1	AA	1044	A
1	AA	1049	U
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1056	U
1	AA	1058	G
1	AA	1063	C
1	AA	1065	U
1	AA	1066	C
1	AA	1078	U
1	AA	1081	A
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1107	C
1	AA	1114	C
1	AA	1115	U
1	AA	1118	U
1	AA	1124	G
1	AA	1127	G
1	AA	1133	G
1	AA	1134	G
1	AA	1135	U
1	AA	1136	C
1	AA	1137	C
1	AA	1139	G
1	AA	1140	C
1	AA	1141	C
1	AA	1142	G
1	AA	1145	A

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Mol	Chain	Res	Type
1	AA	1146	A
1	AA	1152	A
1	AA	1157	A
1	AA	1159	U
1	AA	1160	G
1	AA	1161	C
1	AA	1164	G
1	AA	1166	G
1	AA	1167	A
1	AA	1168	U
1	AA	1169	A
1	AA	1181	G
1	AA	1182	G
1	AA	1183	U
1	AA	1184	G
1	AA	1187	G
1	AA	1188	A
1	AA	1190	G
1	AA	1191	A
1	AA	1192	C
1	AA	1196	A
1	AA	1197	A
1	AA	1201	A
1	AA	1202	U
1	AA	1203	C
1	AA	1212	U
1	AA	1213	A
1	AA	1215	G
1	AA	1224	U
1	AA	1227	A
1	AA	1228	C
1	AA	1235	U
1	AA	1238	A
1	AA	1239	A
1	AA	1240	U
1	AA	1256	A
1	AA	1257	A
1	AA	1259	C
1	AA	1260	G
1	AA	1271	A
1	AA	1272	G
1	AA	1275	A

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Mol	Chain	Res	Type
1	AA	1280	A
1	AA	1284	C
1	AA	1285	A
1	AA	1286	U
1	AA	1287	A
1	AA	1293	C
1	AA	1294	G
1	AA	1297	G
1	AA	1299	A
1	AA	1300	G
1	AA	1302	C
1	AA	1303	C
1	AA	1304	G
1	AA	1305	G
1	AA	1317	C
1	AA	1318	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1326	U
1	AA	1329	A
1	AA	1330	U
1	AA	1332	A
1	AA	1334	G
1	AA	1336	C
1	AA	1337	G
1	AA	1338	G
1	AA	1339	A
1	AA	1340	A
1	AA	1341	U
1	AA	1346	A
1	AA	1352	C
1	AA	1353	G
1	AA	1354	U
1	AA	1357	A
1	AA	1358	U
1	AA	1363	A
1	AA	1365	G
1	AA	1368	A
1	AA	1370	G
1	AA	1376	U
1	AA	1377	A

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Mol	Chain	Res	Type
1	AA	1378	C
1	AA	1379	G
1	AA	1388	C
1	AA	1389	C
1	AA	1390	U
1	AA	1391	U
1	AA	1392	G
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1413	A
1	AA	1418	A
1	AA	1426	G
1	AA	1427	C
1	AA	1429	A
1	AA	1430	A
1	AA	1432	G
1	AA	1433	A
1	AA	1441	A
1	AA	1443	C
1	AA	1446	A
1	AA	1448	C
1	AA	1452	C
1	AA	1453	G
1	AA	1455	G
1	AA	1491	G
1	AA	1492	A
1	AA	1493	A
1	AA	1497	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1526	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
1	AA	1532	U
1	AA	1533	C
1	AA	1534	A
1	AA	1535	C
1	AA	1536	C

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Mol	Chain	Res	Type
1	AA	1537	U
1	AA	1538	C
1	AA	1539	C
22	AV	6	U
22	AV	7	G
22	AV	8	A
22	AV	9	U
22	AV	10	U
22	AV	11	C
22	AV	12	U
22	AV	13	G
22	AV	14	G
22	AV	15	A
22	AV	16	U
22	AV	17	U
22	AV	18	C
22	AV	20	A
22	AV	21	C
22	AV	28	U
22	AV	30	C
22	AV	32	A
22	AV	33	A
22	AV	34	A
22	AV	35	C
22	AV	38	A
22	AV	39	A
22	AV	40	G
22	AV	43	G
22	AV	44	C
22	AV	45	A
22	AV	47	G
22	AV	49	C
22	AV	54	G
22	AV	55	G
22	AV	56	C
22	AV	60	U
22	AV	61	G
22	AV	62	G
22	AV	63	C
22	AV	64	C
22	AV	68	U
22	AV	69	A

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Mol	Chain	Res	Type
22	AV	70	A
22	AV	71	A
22	AV	72	A
22	AV	73	A
22	AV	114	G
22	AV	115	C
22	AV	117	G
22	AV	119	U
22	AV	121	A
22	AV	122	A
22	AV	125	A
22	AV	127	C
22	AV	129	G
22	AV	130	C
22	AV	131	U
22	AV	132	U
22	AV	133	A
22	AV	138	C
22	AV	143	C
22	AV	144	U
22	AV	145	C
22	AV	149	A
22	AV	150	G
22	AV	151	C
22	AV	154	C
22	AV	155	C
22	AV	156	G
22	AV	158	U
22	AV	164	G
22	AV	165	A
22	AV	166	C
22	AV	169	G
22	AV	170	G
22	AV	172	U
22	AV	173	C
22	AV	174	A
22	AV	175	A
22	AV	176	G
22	AV	180	G
22	AV	181	G
22	AV	182	U
22	AV	183	C

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Mol	Chain	Res	Type
22	AV	184	A
22	AV	185	A
22	AV	186	A
22	AV	188	C
22	AV	189	C
22	AV	190	A
22	AV	191	A
22	AV	192	A
22	AV	193	A
22	AV	194	G
22	AV	195	A
22	AV	197	A
22	AV	198	U
22	AV	199	C
22	AV	200	G
22	AV	203	U
22	AV	204	G
22	AV	205	G
22	AV	206	A
22	AV	207	A
22	AV	210	C
22	AV	211	C
22	AV	213	G
22	AV	216	U
22	AV	218	G
22	AV	222	U
22	AV	223	G
22	AV	224	A
22	AV	225	A
22	AV	226	G
22	AV	227	C
22	AV	229	U
22	AV	230	U
22	AV	233	A
22	AV	234	A
22	AV	235	C
22	AV	236	U
22	AV	237	U
22	AV	238	A
22	AV	239	A
22	AV	240	U
22	AV	241	C

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Mol	Chain	Res	Type
22	AV	242	A
22	AV	244	G
22	AV	245	C
22	AV	246	U
22	AV	248	G
22	AV	249	U
22	AV	257	U
22	AV	258	G
22	AV	261	G
22	AV	262	U
22	AV	263	G
22	AV	264	U
22	AV	266	C
22	AV	267	G
22	AV	268	U
22	AV	269	C
22	AV	270	C
22	AV	271	G
22	AV	272	C
22	AV	273	A
22	AV	274	G
22	AV	282	G
22	AV	285	A
22	AV	286	A
22	AV	287	U
22	AV	288	G
22	AV	291	A
22	AV	292	A
22	AV	293	G
22	AV	296	U
22	AV	299	C
22	AV	300	U
22	AV	302	A
22	AV	303	G
22	AV	308	U
22	AV	309	A
22	AV	310	G
22	AV	312	A
22	AV	315	G
22	AV	316	A
22	AV	317	G
22	AV	318	G

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Mol	Chain	Res	Type
22	AV	319	A
22	AV	321	G
22	AV	322	U
22	AV	323	A
22	AV	324	G
22	AV	325	G
22	AV	332	G
22	AV	333	G
22	AV	334	A
22	AV	335	C
22	AV	336	G
22	AV	339	G
22	AV	340	G
22	AV	347	PSU
22	AV	348	C
22	AV	351	G
22	AV	357	U
22	AV	358	C
22	AV	359	C
22	AV	360	A
22	AV	362	C
22	AV	363	A
24	AX	2	G
24	AX	3	C
24	AX	4	G
24	AX	5	G
24	AX	8	U
24	AX	9	G
24	AX	13	C
24	AX	15	G
24	AX	16	C
24	AX	17	C
24	AX	18	U
24	AX	19	G
24	AX	20	G
24	AX	21	U
24	AX	22	A
24	AX	25	U
24	AX	26	C
24	AX	28	U
24	AX	29	C
24	AX	31	G

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Mol	Chain	Res	Type
24	AX	34	U
24	AX	45	A
24	AX	46	G
24	AX	49	C
24	AX	54	G
24	AX	55	U
24	AX	59	A
24	AX	60	A
24	AX	61	U
24	AX	62	C
24	AX	63	C
24	AX	64	G
24	AX	66	C
24	AX	68	C
24	AX	72	C
24	AX	73	A
24	AX	74	A
26	BA	10	A
26	BA	12	U
26	BA	13	A
26	BA	15	G
26	BA	34	U
26	BA	35	G
26	BA	46	G
26	BA	61	C
26	BA	63	A
26	BA	71	A
26	BA	72	U
26	BA	74	A
26	BA	75	G
26	BA	84	A
26	BA	86	G
26	BA	87	U
26	BA	101	A
26	BA	103	A
26	BA	110	G
26	BA	118	A
26	BA	119	A
26	BA	120	U
26	BA	123	G
26	BA	128	C
26	BA	138	U

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Mol	Chain	Res	Type
26	BA	139	U
26	BA	140	C
26	BA	141	G
26	BA	142	A
26	BA	143	C
26	BA	146	A
26	BA	147	C
26	BA	158	U
26	BA	180	G
26	BA	181	A
26	BA	188	G
26	BA	196	A
26	BA	208	C
26	BA	216	A
26	BA	221	A
26	BA	222	A
26	BA	227	A
26	BA	230	G
26	BA	245	G
26	BA	248	G
26	BA	249	C
26	BA	254	G
26	BA	255	A
26	BA	265	A
26	BA	266	G
26	BA	271	G
26	BA	272	A
26	BA	273	G
26	BA	277	G
26	BA	278	A
26	BA	279	A
26	BA	282	A
26	BA	284	U
26	BA	285	G
26	BA	293	U
26	BA	301	G
26	BA	302	C
26	BA	306	U
26	BA	310	A
26	BA	311	A
26	BA	325	G
26	BA	329	G

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Mol	Chain	Res	Type
26	BA	330	A
26	BA	331	C
26	BA	340	A
26	BA	344	A
26	BA	351	C
26	BA	353	C
26	BA	359	G
26	BA	361	G
26	BA	362	A
26	BA	370	G
26	BA	371	A
26	BA	372	G
26	BA	386	G
26	BA	389	G
26	BA	396	G
26	BA	402	A
26	BA	404	A
26	BA	405	U
26	BA	406	G
26	BA	409	G
26	BA	411	G
26	BA	412	A
26	BA	414	C
26	BA	415	A
26	BA	418	C
26	BA	420	C
26	BA	424	G
26	BA	425	G
26	BA	428	A
26	BA	429	A
26	BA	438	G
26	BA	442	G
26	BA	451	U
26	BA	455	C
26	BA	456	C
26	BA	457	A
26	BA	471	A
26	BA	474	G
26	BA	480	A
26	BA	481	G
26	BA	491	G
26	BA	503	A

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Mol	Chain	Res	Type
26	BA	504	A
26	BA	505	A
26	BA	508	A
26	BA	509	C
26	BA	510	C
26	BA	528	A
26	BA	529	A
26	BA	531	C
26	BA	532	A
26	BA	533	G
26	BA	537	G
26	BA	538	A
26	BA	542	C
26	BA	543	G
26	BA	544	C
26	BA	545	U
26	BA	546	U
26	BA	547	A
26	BA	548	G
26	BA	549	G
26	BA	550	C
26	BA	551	G
26	BA	557	C
26	BA	563	A
26	BA	572	A
26	BA	573	U
26	BA	575	A
26	BA	586	A
26	BA	603	A
26	BA	613	A
26	BA	614	A
26	BA	615	U
26	BA	627	A
26	BA	631	A
26	BA	634	C
26	BA	637	A
26	BA	645	C
26	BA	646	U
26	BA	647	G
26	BA	648	G
26	BA	654	A
26	BA	655	A

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Mol	Chain	Res	Type
26	BA	657	U
26	BA	663	G
26	BA	669	G
26	BA	680	C
26	BA	686	U
26	BA	701	G
26	BA	702	U
26	BA	711	G
26	BA	722	A
26	BA	726	G
26	BA	730	A
26	BA	736	C
26	BA	738	G
26	BA	747	U
26	BA	751	A
26	BA	761	A
26	BA	762	U
26	BA	764	A
26	BA	765	C
26	BA	772	C
26	BA	773	U
26	BA	775	G
26	BA	776	G
26	BA	782	A
26	BA	784	G
26	BA	785	G
26	BA	790	U
26	BA	791	C
26	BA	792	A
26	BA	805	G
26	BA	812	C
26	BA	819	A
26	BA	824	U
26	BA	827	U
26	BA	828	U
26	BA	829	A
26	BA	830	G
26	BA	835	C
26	BA	845	A
26	BA	846	U
26	BA	847	U
26	BA	848	C

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Mol	Chain	Res	Type
26	BA	858	G
26	BA	859	G
26	BA	866	A
26	BA	867	C
26	BA	868	U
26	BA	869	G
26	BA	874	G
26	BA	876	C
26	BA	877	A
26	BA	878	A
26	BA	879	G
26	BA	880	G
26	BA	881	G
26	BA	886	A
26	BA	887	U
26	BA	888	C
26	BA	889	C
26	BA	890	C
26	BA	891	G
26	BA	893	C
26	BA	895	U
26	BA	896	A
26	BA	897	C
26	BA	898	C
26	BA	899	A
26	BA	900	A
26	BA	901	C
26	BA	902	C
26	BA	903	C
26	BA	904	G
26	BA	910	A
26	BA	911	A
26	BA	912	C
26	BA	913	U
26	BA	914	G
26	BA	915	C
26	BA	916	G
26	BA	930	G
26	BA	931	U
26	BA	932	U
26	BA	941	A
26	BA	946	C

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Mol	Chain	Res	Type
26	BA	957	C
26	BA	961	C
26	BA	971	G
26	BA	973	A
26	BA	974	G
26	BA	983	A
26	BA	984	A
26	BA	985	C
26	BA	987	C
26	BA	989	G
26	BA	995	C
26	BA	996	A
26	BA	999	U
26	BA	1009	A
26	BA	1012	U
26	BA	1013	C
26	BA	1021	A
26	BA	1026	G
26	BA	1027	A
26	BA	1033	U
26	BA	1041	G
26	BA	1046	A
26	BA	1047	G
26	BA	1053	C
26	BA	1057	A
26	BA	1059	G
26	BA	1061	U
26	BA	1062	G
26	BA	1066	U
26	BA	1067	A
26	BA	1068	G
26	BA	1070	A
26	BA	1071	G
26	BA	1072	C
26	BA	1073	A
26	BA	1074	G
26	BA	1075	C
26	BA	1079	C
26	BA	1081	U
26	BA	1087	G
26	BA	1088	A
26	BA	1091	G

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Mol	Chain	Res	Type
26	BA	1092	C
26	BA	1093	G
26	BA	1098	A
26	BA	1099	G
26	BA	1100	C
26	BA	1101	U
26	BA	1104	C
26	BA	1106	G
26	BA	1112	G
26	BA	1119	U
26	BA	1121	C
26	BA	1126	A
26	BA	1130	U
26	BA	1131	G
26	BA	1132	U
26	BA	1133	A
26	BA	1135	C
26	BA	1136	G
26	BA	1138	G
26	BA	1139	G
26	BA	1141	U
26	BA	1142	A
26	BA	1155	A
26	BA	1168	G
26	BA	1170	C
26	BA	1171	G
26	BA	1172	C
26	BA	1173	U
26	BA	1174	U
26	BA	1175	A
26	BA	1176	U
26	BA	1178	C
26	BA	1179	G
26	BA	1180	U
26	BA	1181	U
26	BA	1182	G
26	BA	1214	A
26	BA	1222	U
26	BA	1235	G
26	BA	1238	G
26	BA	1239	G
26	BA	1249	U

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Mol	Chain	Res	Type
26	BA	1253	A
26	BA	1256	G
26	BA	1258	U
26	BA	1266	G
26	BA	1271	G
26	BA	1272	A
26	BA	1273	U
26	BA	1288	G
26	BA	1294	U
26	BA	1299	G
26	BA	1300	G
26	BA	1301	A
26	BA	1306	C
26	BA	1310	G
26	BA	1315	C
26	BA	1316	U
26	BA	1321	A
26	BA	1325	U
26	BA	1341	G
26	BA	1345	C
26	BA	1349	C
26	BA	1352	U
26	BA	1359	A
26	BA	1365	A
26	BA	1367	A
26	BA	1370	C
26	BA	1372	U
26	BA	1373	A
26	BA	1374	G
26	BA	1378	A
26	BA	1379	U
26	BA	1380	G
26	BA	1383	A
26	BA	1386	C
26	BA	1387	A
26	BA	1390	U
26	BA	1406	U
26	BA	1407	G
26	BA	1415	U
26	BA	1416	G
26	BA	1417	C
26	BA	1418	G

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Mol	Chain	Res	Type
26	BA	1419	A
26	BA	1420	A
26	BA	1424	G
26	BA	1427	A
26	BA	1428	C
26	BA	1450	G
26	BA	1451	C
26	BA	1452	G
26	BA	1453	A
26	BA	1460	U
26	BA	1461	C
26	BA	1462	C
26	BA	1463	C
26	BA	1472	C
26	BA	1482	G
26	BA	1485	U
26	BA	1491	G
26	BA	1493	C
26	BA	1494	A
26	BA	1495	A
26	BA	1504	A
26	BA	1505	A
26	BA	1508	A
26	BA	1509	A
26	BA	1510	G
26	BA	1515	A
26	BA	1523	U
26	BA	1526	C
26	BA	1527	G
26	BA	1528	A
26	BA	1530	G
26	BA	1532	A
26	BA	1533	C
26	BA	1534	U
26	BA	1535	A
26	BA	1536	C
26	BA	1538	G
26	BA	1547	C
26	BA	1554	U
26	BA	1555	G
26	BA	1556	C
26	BA	1560	G

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Mol	Chain	Res	Type
26	BA	1568	G
26	BA	1569	A
26	BA	1576	U
26	BA	1578	U
26	BA	1582	C
26	BA	1583	A
26	BA	1584	U
26	BA	1585	C
26	BA	1586	A
26	BA	1590	A
26	BA	1593	A
26	BA	1606	C
26	BA	1607	C
26	BA	1608	A
26	BA	1618	A
26	BA	1619	G
26	BA	1623	G
26	BA	1626	A
26	BA	1634	A
26	BA	1639	C
26	BA	1647	U
26	BA	1648	U
26	BA	1649	G
26	BA	1651	G
26	BA	1652	A
26	BA	1661	G
26	BA	1674	G
26	BA	1675	C
26	BA	1677	A
26	BA	1686	C
26	BA	1687	G
26	BA	1695	G
26	BA	1710	G
26	BA	1711	A
26	BA	1714	U
26	BA	1715	G
26	BA	1717	A
26	BA	1718	G
26	BA	1721	G
26	BA	1725	U
26	BA	1729	U
26	BA	1730	C

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Mol	Chain	Res	Type
26	BA	1736	U
26	BA	1738	G
26	BA	1743	G
26	BA	1744	A
26	BA	1750	G
26	BA	1754	A
26	BA	1757	A
26	BA	1758	U
26	BA	1764	C
26	BA	1771	C
26	BA	1773	A
26	BA	1782	U
26	BA	1791	A
26	BA	1800	C
26	BA	1801	A
26	BA	1802	A
26	BA	1808	A
26	BA	1809	A
26	BA	1811	G
26	BA	1816	C
26	BA	1828	G
26	BA	1829	A
26	BA	1833	C
26	BA	1835	G
26	BA	1839	G
26	BA	1841	U
26	BA	1845	G
26	BA	1848	A
26	BA	1854	A
26	BA	1855	U
26	BA	1858	A
26	BA	1861	G
26	BA	1862	G
26	BA	1866	A
26	BA	1870	C
26	BA	1871	A
26	BA	1872	A
26	BA	1873	G
26	BA	1876	A
26	BA	1884	G
26	BA	1885	A
26	BA	1889	A

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Mol	Chain	Res	Type
26	BA	1890	A
26	BA	1902	C
26	BA	1908	C
26	BA	1909	C
26	BA	1913	A
26	BA	1914	C
26	BA	1915	U
26	BA	1925	C
26	BA	1926	U
26	BA	1927	A
26	BA	1928	A
26	BA	1929	G
26	BA	1930	G
26	BA	1931	U
26	BA	1932	A
26	BA	1937	A
26	BA	1938	A
26	BA	1944	U
26	BA	1955	U
26	BA	1960	A
26	BA	1965	C
26	BA	1966	A
26	BA	1967	C
26	BA	1970	A
26	BA	1971	U
26	BA	1972	G
26	BA	1975	G
26	BA	1981	A
26	BA	1985	C
26	BA	1990	C
26	BA	1991	U
26	BA	1992	G
26	BA	1993	U
26	BA	1997	C
26	BA	2008	C
26	BA	2009	A
26	BA	2020	A
26	BA	2022	U
26	BA	2023	C
26	BA	2025	C
26	BA	2027	G
26	BA	2031	A

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Mol	Chain	Res	Type
26	BA	2033	A
26	BA	2034	U
26	BA	2035	G
26	BA	2043	C
26	BA	2055	C
26	BA	2056	G
26	BA	2060	A
26	BA	2061	G
26	BA	2062	A
26	BA	2066	C
26	BA	2069	G
26	BA	2071	A
26	BA	2072	C
26	BA	2077	A
26	BA	2078	C
26	BA	2083	G
26	BA	2096	C
26	BA	2097	A
26	BA	2101	A
26	BA	2102	G
26	BA	2104	C
26	BA	2107	G
26	BA	2109	U
26	BA	2110	G
26	BA	2111	U
26	BA	2112	G
26	BA	2113	U
26	BA	2115	G
26	BA	2116	G
26	BA	2117	A
26	BA	2118	U
26	BA	2119	A
26	BA	2120	G
26	BA	2122	U
26	BA	2123	G
26	BA	2126	A
26	BA	2128	G
26	BA	2129	C
26	BA	2130	U
26	BA	2132	U
26	BA	2133	G
26	BA	2135	A

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Mol	Chain	Res	Type
26	BA	2136	G
26	BA	2145	C
26	BA	2146	C
26	BA	2147	A
26	BA	2152	G
26	BA	2153	C
26	BA	2155	U
26	BA	2157	G
26	BA	2158	A
26	BA	2160	C
26	BA	2162	G
26	BA	2163	A
26	BA	2164	C
26	BA	2165	C
26	BA	2167	U
26	BA	2168	G
26	BA	2169	A
26	BA	2170	A
26	BA	2171	A
26	BA	2172	U
26	BA	2173	A
26	BA	2178	C
26	BA	2179	C
26	BA	2181	U
26	BA	2183	A
26	BA	2184	A
26	BA	2185	U
26	BA	2187	U
26	BA	2196	C
26	BA	2198	A
26	BA	2203	U
26	BA	2204	G
26	BA	2208	C
26	BA	2211	A
26	BA	2212	A
26	BA	2213	U
26	BA	2214	C
26	BA	2220	U
26	BA	2225	A
26	BA	2226	C
26	BA	2233	U
26	BA	2238	G

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Mol	Chain	Res	Type
26	BA	2239	G
26	BA	2248	C
26	BA	2250	G
26	BA	2257	U
26	BA	2261	C
26	BA	2268	A
26	BA	2277	G
26	BA	2278	A
26	BA	2280	G
26	BA	2283	C
26	BA	2284	A
26	BA	2286	G
26	BA	2287	A
26	BA	2288	A
26	BA	2296	U
26	BA	2302	U
26	BA	2303	G
26	BA	2305	U
26	BA	2308	G
26	BA	2309	A
26	BA	2311	A
26	BA	2312	U
26	BA	2325	G
26	BA	2326	C
26	BA	2327	A
26	BA	2329	U
26	BA	2331	G
26	BA	2332	C
26	BA	2333	A
26	BA	2335	A
26	BA	2340	A
26	BA	2341	G
26	BA	2347	C
26	BA	2348	U
26	BA	2350	C
26	BA	2354	C
26	BA	2358	A
26	BA	2361	G
26	BA	2366	A
26	BA	2372	U
26	BA	2376	A
26	BA	2383	G

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Mol	Chain	Res	Type
26	BA	2384	U
26	BA	2385	C
26	BA	2396	G
26	BA	2402	U
26	BA	2405	G
26	BA	2406	A
26	BA	2407	A
26	BA	2410	G
26	BA	2419	U
26	BA	2422	C
26	BA	2423	U
26	BA	2424	C
26	BA	2425	A
26	BA	2426	A
26	BA	2427	C
26	BA	2428	G
26	BA	2429	G
26	BA	2430	A
26	BA	2435	A
26	BA	2441	U
26	BA	2445	G
26	BA	2448	A
26	BA	2449	U
26	BA	2468	A
26	BA	2469	A
26	BA	2474	U
26	BA	2476	A
26	BA	2491	U
26	BA	2493	U
26	BA	2494	G
26	BA	2497	A
26	BA	2502	G
26	BA	2505	G
26	BA	2507	C
26	BA	2508	G
26	BA	2514	U
26	BA	2518	A
26	BA	2520	C
26	BA	2523	G
26	BA	2525	G
26	BA	2527	C
26	BA	2529	G

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Mol	Chain	Res	Type
26	BA	2552	U
26	BA	2553	G
26	BA	2554	U
26	BA	2555	U
26	BA	2556	C
26	BA	2566	A
26	BA	2567	G
26	BA	2573	C
26	BA	2585	U
26	BA	2586	U
26	BA	2602	A
26	BA	2603	G
26	BA	2604	U
26	BA	2609	U
26	BA	2610	C
26	BA	2613	U
26	BA	2629	U
26	BA	2632	A
26	BA	2634	A
26	BA	2646	C
26	BA	2662	A
26	BA	2664	G
26	BA	2669	G
26	BA	2676	C
26	BA	2681	C
26	BA	2682	A
26	BA	2689	U
26	BA	2690	U
26	BA	2704	C
26	BA	2711	A
26	BA	2714	G
26	BA	2716	C
26	BA	2720	U
26	BA	2721	A
26	BA	2724	U
26	BA	2726	A
26	BA	2729	G
26	BA	2744	G
26	BA	2745	C
26	BA	2748	A
26	BA	2760	C
26	BA	2767	C

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Mol	Chain	Res	Type
26	BA	2778	A
26	BA	2783	U
26	BA	2784	U
26	BA	2791	G
26	BA	2792	A
26	BA	2798	U
26	BA	2799	A
26	BA	2800	A
26	BA	2811	G
26	BA	2813	A
26	BA	2818	U
26	BA	2820	A
26	BA	2821	A
26	BA	2823	A
26	BA	2825	G
26	BA	2835	A
26	BA	2836	U
26	BA	2837	A
26	BA	2849	U
26	BA	2854	G
26	BA	2858	C
26	BA	2861	U
26	BA	2864	G
26	BA	2867	G
26	BA	2870	C
26	BA	2873	A
26	BA	2874	C
26	BA	2880	C
26	BA	2881	U
26	BA	2883	A
26	BA	2884	U
26	BA	2885	G
26	BA	2886	A
26	BA	2887	A
26	BA	2889	C
26	BA	2899	A
26	BA	2900	A
26	BA	2903	U
56	BB	2	G
56	BB	3	C
56	BB	8	C
56	BB	12	C

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Mol	Chain	Res	Type
56	BB	15	A
56	BB	16	G
56	BB	35	C
56	BB	36	C
56	BB	37	C
56	BB	41	G
56	BB	44	G
56	BB	45	A
56	BB	49	C
56	BB	56	G
56	BB	57	A
56	BB	60	C
56	BB	66	A
56	BB	67	G
56	BB	89	U
56	BB	90	C
56	BB	98	G
56	BB	99	A
56	BB	109	A
56	BB	119	A

All (121) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	115	G
1	AA	120	A
1	AA	148	G
1	AA	209	U
1	AA	329	A
1	AA	351	G
1	AA	410	G
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	439	U
1	AA	481	G
1	AA	510	A
1	AA	513	C
1	AA	653	U
1	AA	889	A
1	AA	1031	C
1	AA	1049	U

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Mol	Chain	Res	Type
1	AA	1101	A
1	AA	1126	U
1	AA	1145	A
1	AA	1201	A
1	AA	1211	U
1	AA	1227	A
1	AA	1286	U
1	AA	1337	G
1	AA	1533	C
22	AV	9	U
22	AV	11	C
22	AV	13	G
22	AV	14	G
22	AV	15	A
22	AV	16	U
22	AV	17	U
22	AV	19	G
22	AV	20	A
22	AV	32	A
22	AV	33	A
22	AV	38	A
22	AV	61	G
22	AV	68	U
22	AV	130	C
22	AV	131	U
22	AV	153	U
22	AV	183	C
22	AV	212	U
22	AV	223	G
22	AV	229	U
22	AV	233	A
22	AV	245	C
22	AV	247	A
22	AV	257	U
22	AV	261	G
22	AV	290	A
22	AV	308	U
22	AV	314	C
22	AV	320	U
22	AV	332	G
22	AV	333	G
24	AX	18	U

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Mol	Chain	Res	Type
24	AX	27	G
24	AX	54	G
26	BA	60	G
26	BA	71	A
26	BA	74	A
26	BA	196	A
26	BA	221	A
26	BA	271	G
26	BA	301	G
26	BA	370	G
26	BA	404	A
26	BA	479	A
26	BA	503	A
26	BA	614	A
26	BA	620	G
26	BA	685	A
26	BA	764	A
26	BA	776	G
26	BA	790	U
26	BA	886	A
26	BA	887	U
26	BA	896	A
26	BA	899	A
26	BA	900	A
26	BA	909	A
26	BA	960	A
26	BA	984	A
26	BA	995	C
26	BA	1046	A
26	BA	1086	A
26	BA	1133	A
26	BA	1212	G
26	BA	1234	U
26	BA	1253	A
26	BA	1286	A
26	BA	1301	A
26	BA	1344	U
26	BA	1373	A
26	BA	1378	A
26	BA	1494	A
26	BA	1606	C
26	BA	1647	U

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Mol	Chain	Res	Type
26	BA	1674	G
26	BA	1800	C
26	BA	1875	G
26	BA	1900	A
26	BA	1929	G
26	BA	2060	A
26	BA	2127	G
26	BA	2157	G
26	BA	2211	A
26	BA	2286	G
26	BA	2326	C
26	BA	2406	A
26	BA	2422	C
26	BA	2425	A
26	BA	2602	A
26	BA	2681	C
26	BA	2848	G
26	BA	2873	A
56	BB	15	A

5.4 Non-standard residues in protein, DNA, RNA chains (i)

3 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
22	5MU	AV	341	22	19,22,23	1.02	1 (5%)	27,32,35	2.40	8 (29%)
22	PSU	AV	347	22	18,21,22	1.59	2 (11%)	21,30,33	1.54	3 (14%)
22	PSU	AV	342	22	18,21,22	0.81	0	21,30,33	1.61	4 (19%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	5MU	AV	341	22	-	0/7/25/26	0/2/2/2
22	PSU	AV	347	22	-	1/7/25/26	0/2/2/2
22	PSU	AV	342	22	-	1/7/25/26	0/2/2/2

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AV	347	PSU	C2-N1	5.09	1.43	1.36
22	AV	347	PSU	C6-C5	2.97	1.38	1.35
22	AV	341	5MU	C6-N1	2.68	1.42	1.38

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AV	341	5MU	C5-C4-N3	5.96	120.50	115.32
22	AV	341	5MU	C4-N3-C2	-5.70	119.86	127.34
22	AV	341	5MU	O4-C4-C5	-4.97	119.23	124.92
22	AV	342	PSU	C6-C5-C4	4.32	121.09	118.17
22	AV	341	5MU	N3-C2-N1	4.05	120.17	114.89
22	AV	347	PSU	C6-C5-C4	3.91	120.81	118.17
22	AV	347	PSU	C6-N1-C2	-3.42	119.51	122.69
22	AV	341	5MU	O2-C2-N1	-3.21	118.62	122.80
22	AV	342	PSU	C6-N1-C2	-3.14	119.78	122.69
22	AV	341	5MU	C5-C6-N1	-3.07	119.98	123.31
22	AV	347	PSU	O2-C2-N1	2.91	125.79	122.79
22	AV	342	PSU	O2-C2-N1	2.46	125.32	122.79
22	AV	341	5MU	C2'-C1'-N1	-2.36	106.69	113.25
22	AV	342	PSU	O4'-C4'-C3'	-2.17	100.85	105.15
22	AV	341	5MU	C5M-C5-C4	2.07	121.00	118.78

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	AV	347	PSU	C4'-C5'-O5'-P
22	AV	342	PSU	O4'-C1'-C5-C4

There are no ring outliers.

3 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	AV	341	5MU	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	AV	347	PSU	7	0
22	AV	342	PSU	3	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

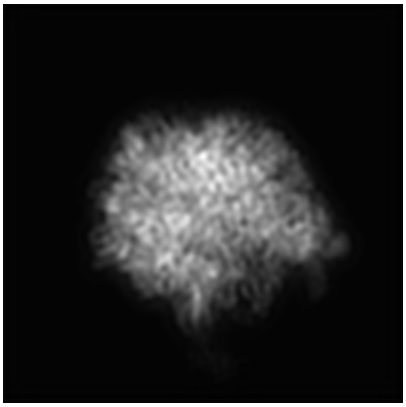
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5386. These allow visual inspection of the internal detail of the map and identification of artifacts.

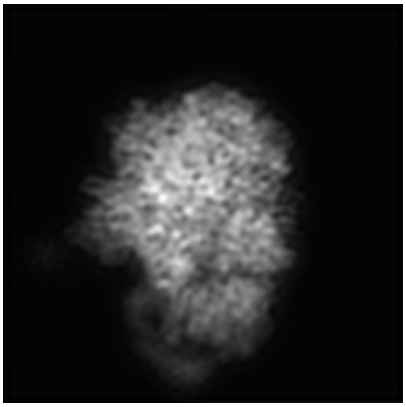
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

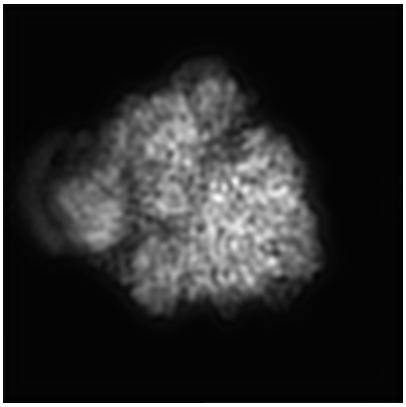
6.1.1 Primary map



X



Y

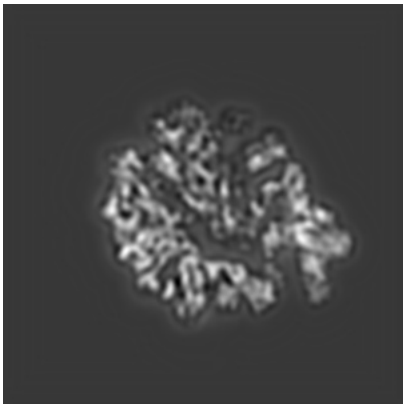


Z

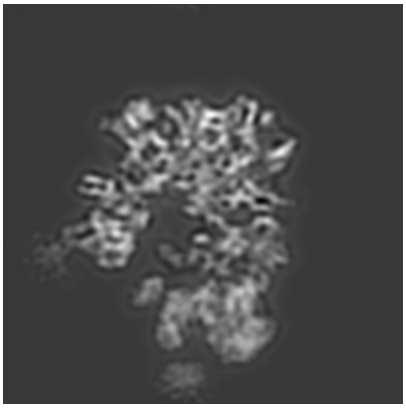
The images above show the map projected in three orthogonal directions.

6.2 Central slices

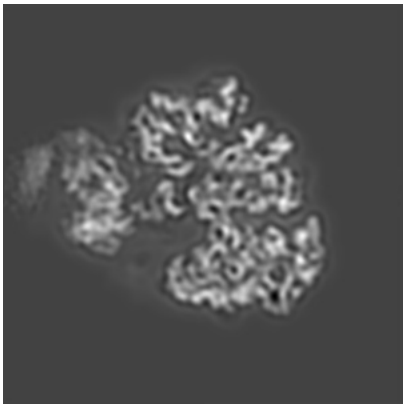
6.2.1 Primary map



X Index: 150



Y Index: 150



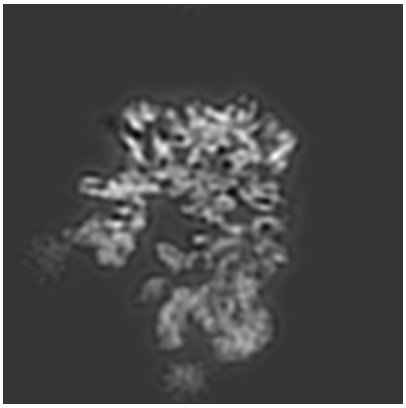
Z Index: 150

The images above show central slices of the map in three orthogonal directions.

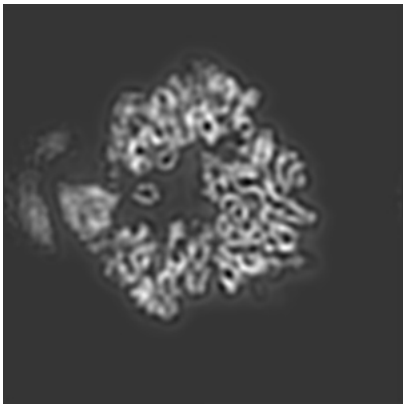
6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 158



Y Index: 153



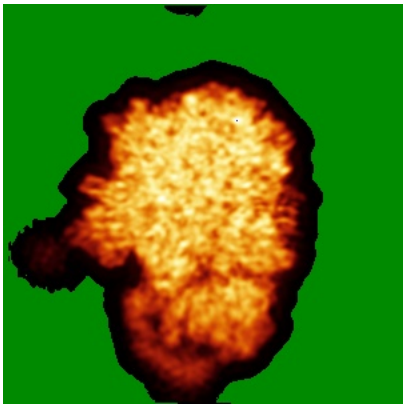
Z Index: 130

The images above show the largest variance slices of the map in three orthogonal directions.

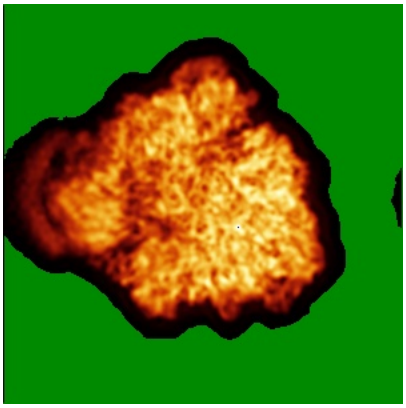
6.4 Orthogonal standard-deviation projections (False-color) (i)

6.4.1 Primary map

X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

This section was not generated.

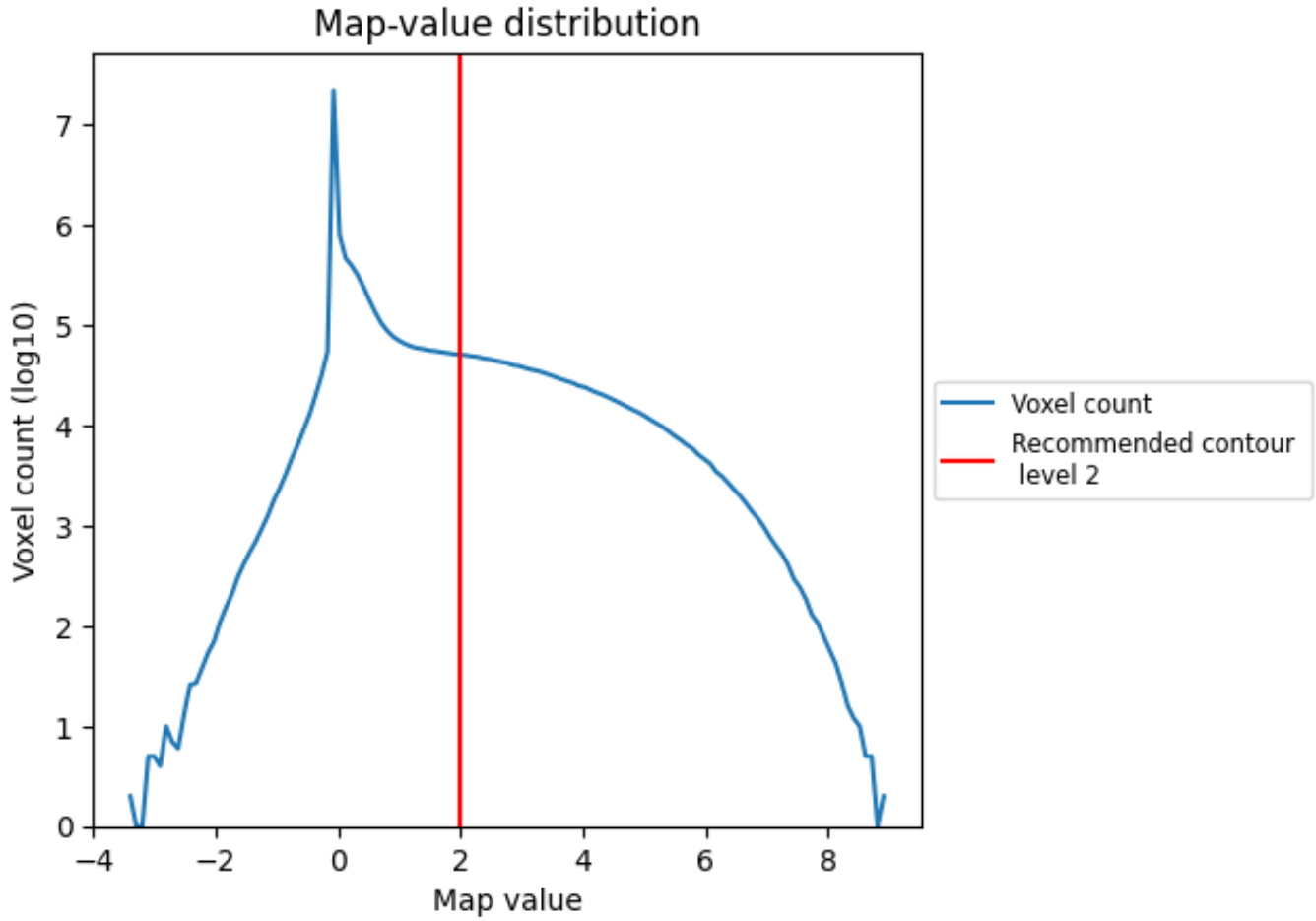
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

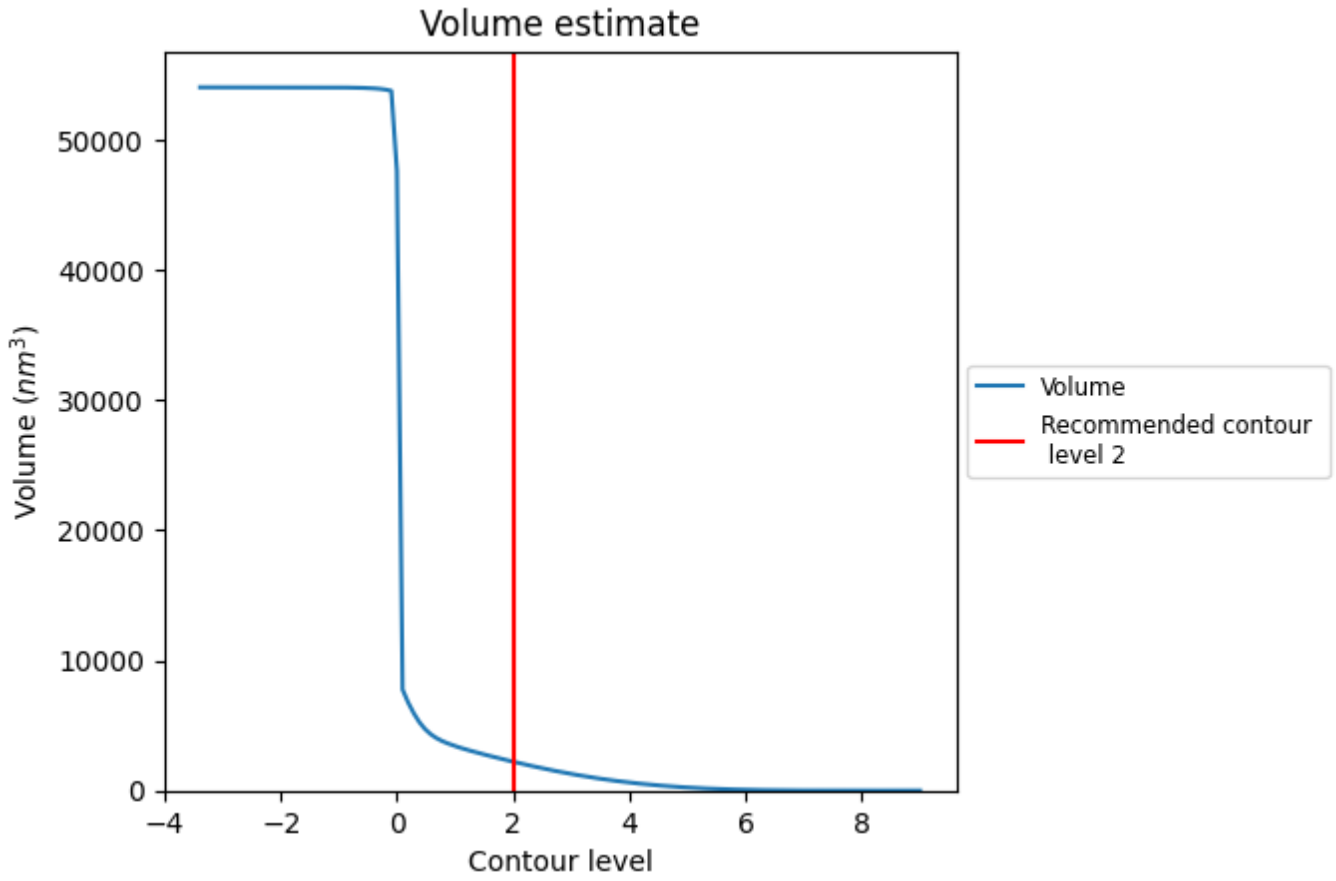
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

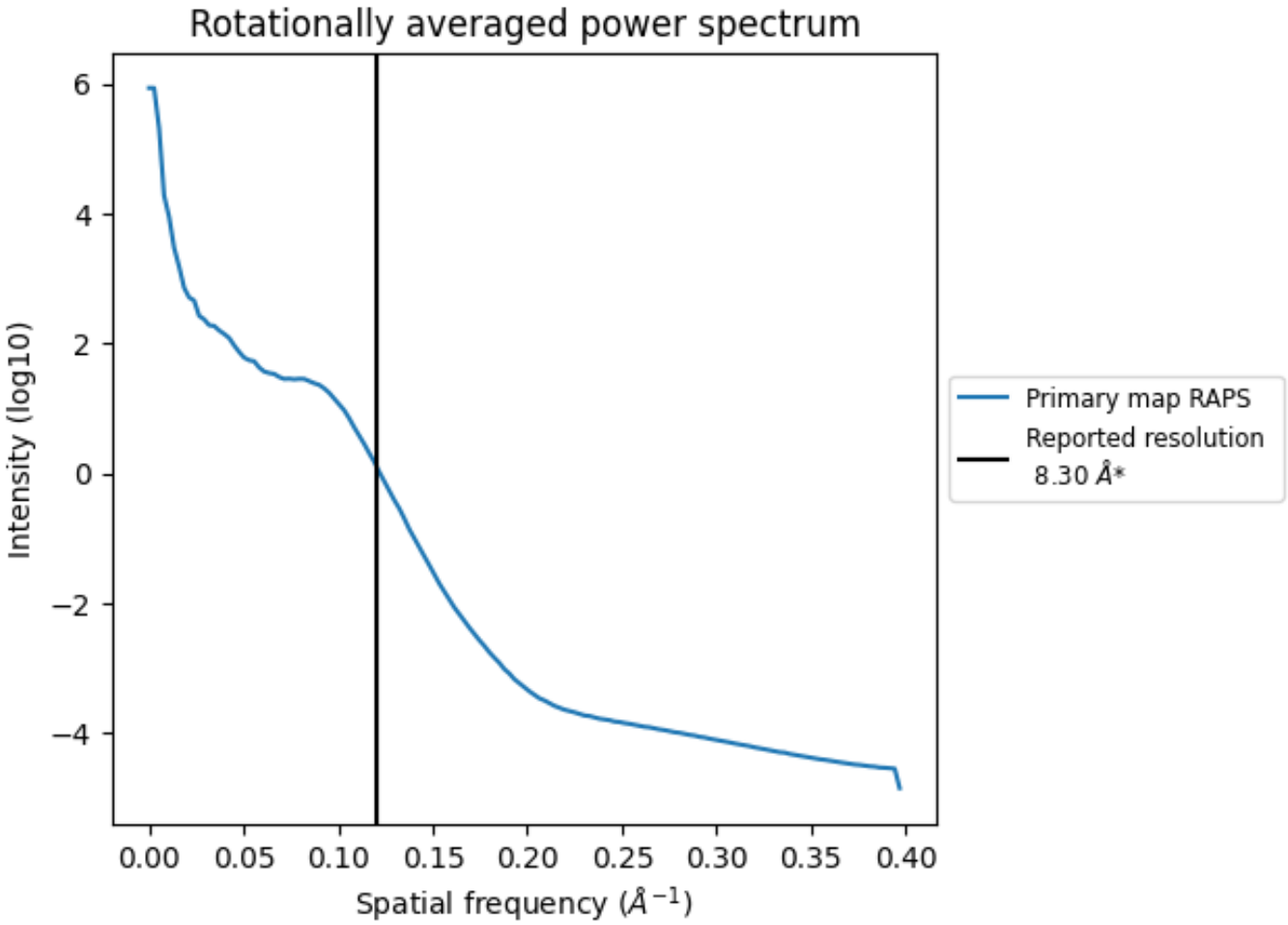
7.2 Volume estimate



The volume at the recommended contour level is 2217 nm^3; this corresponds to an approximate mass of 2002 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.120 Å^{-1}

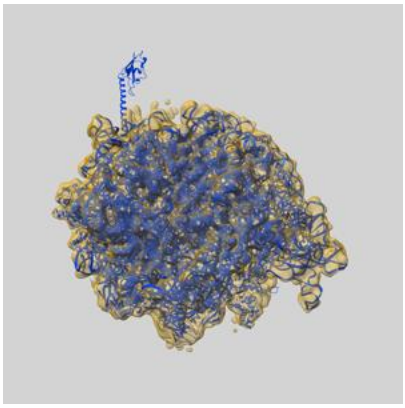
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

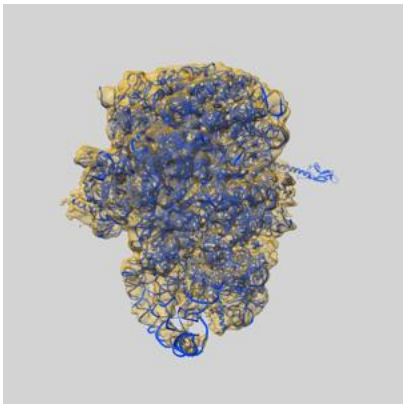
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-5386 and PDB model 4V6T. Per-residue inclusion information can be found in section 3 on page 15.

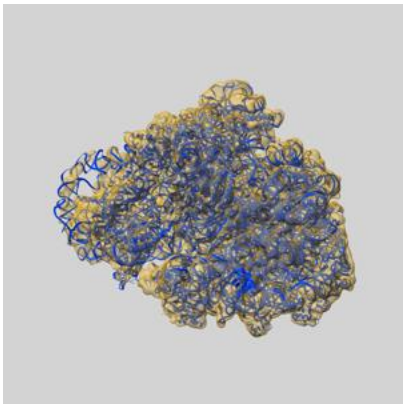
9.1 Map-model overlay



X



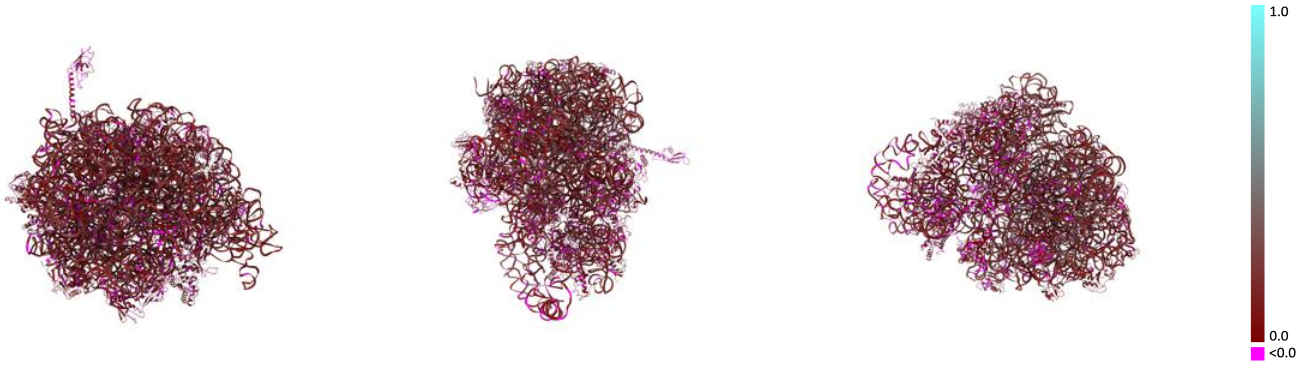
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)



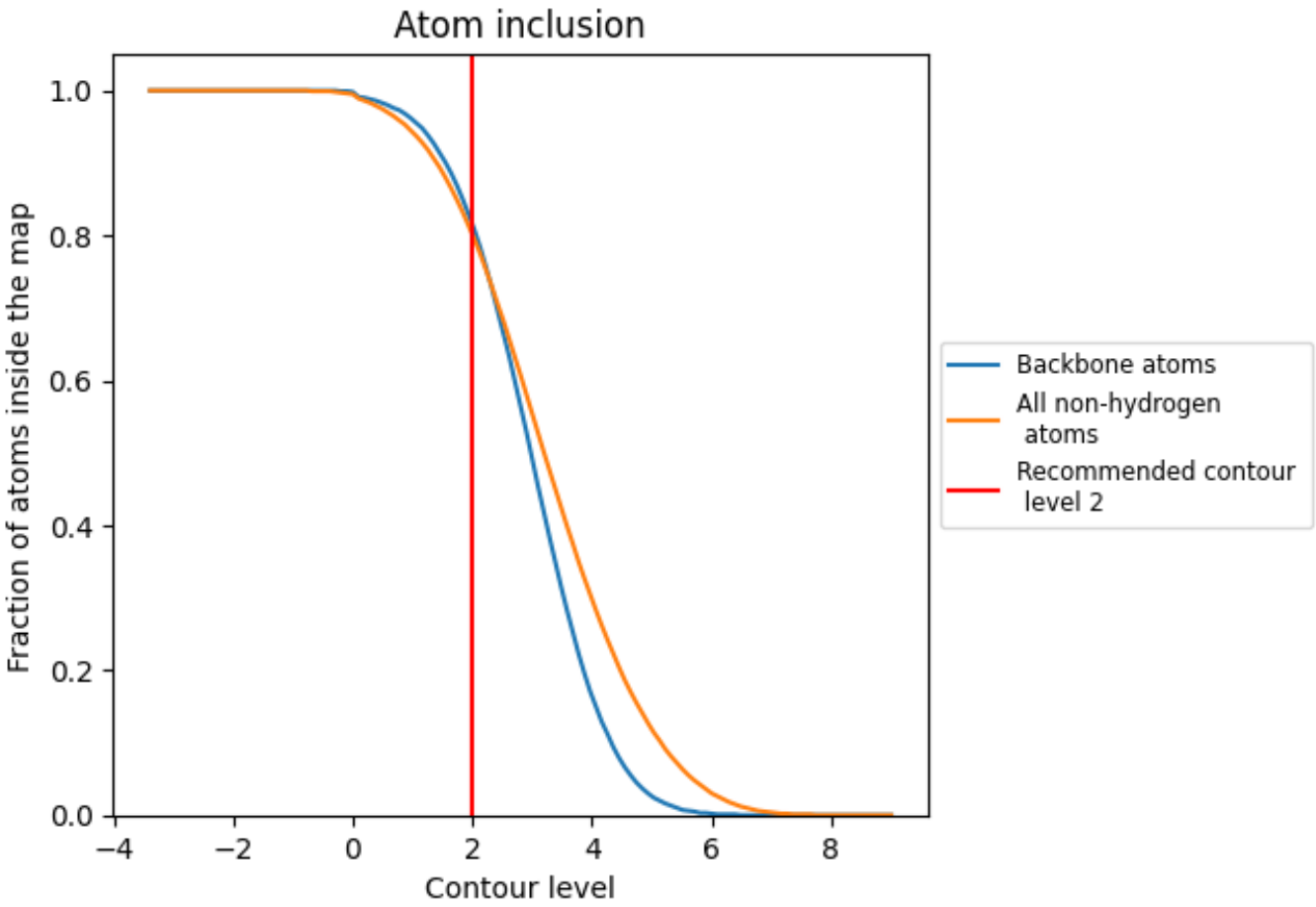
X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model (i)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 82% of all backbone atoms, 80% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8010	0.1360
AA	0.8940	0.1490
AB	0.6720	0.1300
AC	0.6810	0.1110
AD	0.7120	0.1150
AE	0.6780	0.1240
AF	0.6190	0.1010
AG	0.5340	0.0810
AH	0.6880	0.1120
AI	0.7390	0.0930
AJ	0.7220	0.0580
AK	0.5870	0.0750
AL	0.4210	0.0930
AM	0.3630	0.0840
AN	0.7600	0.0880
AO	0.7100	0.1200
AP	0.7430	0.1090
AQ	0.7130	0.1020
AR	0.7070	0.0780
AS	0.6640	0.0700
AT	0.7630	0.1540
AU	0.5680	0.1290
AV	0.5070	0.0940
AW	0.3210	0.0650
AX	0.6980	0.1370
AY	0.5990	0.1110
B0	0.6520	0.0730
B1	0.6870	0.0940
B2	0.6820	0.0990
B3	0.6560	0.1000
B4	0.6810	0.0760
BA	0.9100	0.1620
BB	0.9320	0.1580
BC	0.6440	0.1040
BD	0.6680	0.1030

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Chain	Atom inclusion	Q-score
BE	0.7100	0.1270
BF	0.6380	0.0640
BG	0.7290	0.1210
BH	0.2270	0.0470
BI	0.3760	0.0160
BJ	0.7320	0.1140
BK	0.4610	0.1000
BL	0.6900	0.1020
BM	0.6150	0.1210
BN	0.7130	0.0930
BO	0.7800	0.1080
BP	0.6310	0.1080
BQ	0.7650	0.1160
BR	0.7330	0.1150
BS	0.7020	0.1150
BT	0.7170	0.1190
BU	0.7810	0.1130
BV	0.7890	0.1230
BW	0.7170	0.0720
BX	0.7060	0.1180
BY	0.7730	0.1420
BZ	0.7550	0.1300