Full wwPDB NMR Structure Validation Report

Jun 6, 2023 – 07:04 pm BST

PDB ID	:	7OHE
BMRB ID	:	34624
Title	:	A self-complementary DNA dodecamer duplex contaning 5-hydroxymethylcit osine
Authors	:	Battistini, F.; Dans, P.D.; Terrazas, M.; Castellazzi, C.L.; Portella, G.; Labrador, M.; Villegas, N.; Brun-Heath, I.; Gonzalez, C.; Orozco, M.
Deposited on	:	2021-05-10

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
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 ①) were used in the production of this report:

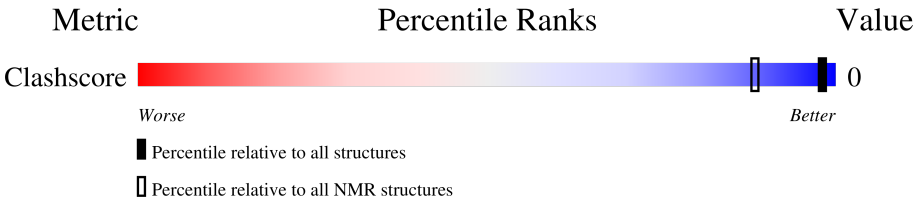
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 22%.

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)	NMR archive (#Entries)
Clashscore	158937	12864

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and 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%

Mol	Chain	Length	Quality of chain
1	A	12	33% 67%
1	B	12	33% 67%

2 Ensemble composition and analysis (i)

This entry contains 10 models. This entry does not contain polypeptide chains, therefore identification of well-defined residues and clustering analysis are not possible. All residues are included in the validation scores.

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 756 atoms, of which 270 are hydrogens and 0 are deuteriums.

- Molecule 1 is a DNA chain called DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3').

Mol	Chain	Residues	Atoms						Trace
1	A	12	Total	C	H	N	O	P	0
			378	115	135	47	70	11	
1	B	12	Total	C	H	N	O	P	0
			378	115	135	47	70	11	

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

4.2.2 Score per residue for model 2

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

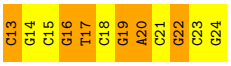
4.2.3 Score per residue for model 3

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:



4.2.4 Score per residue for model 4

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

4.2.5 Score per residue for model 5

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

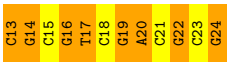
4.2.6 Score per residue for model 6

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:



4.2.7 Score per residue for model 7

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

4.2.8 Score per residue for model 8

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

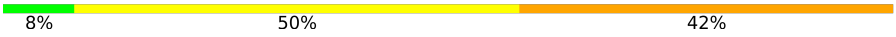
• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

4.2.9 Score per residue for model 9

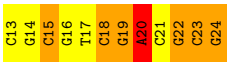
• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:



• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:



4.2.10 Score per residue for model 10

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain A:

• Molecule 1: DNA (5'-D(*CP*GP*CP*GP*TP*CP*GP*AP*CP*GP*CP*G)-3')

Chain B:

5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 10 calculated structures, 10 were deposited, based on the following criterion: *all calculated structures submitted*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
Amber	refinement	
Amber	structure calculation	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	108
Number of shifts mapped to atoms	108
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	22%

6 Model quality (i)

6.1 Standard geometry (i)

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 (average) 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	A	2.35±0.09	12±2/272 (4.5± 0.6%)	3.36±0.13	56±5/418 (13.4± 1.2%)
1	B	2.36±0.07	12±2/272 (4.3± 0.7%)	3.49±0.20	62±9/418 (14.9± 2.2%)
All	All	2.36	240/5440 (4.4%)	3.43	1182/8360 (14.1%)

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	Planarity
1	A	0.0±0.0	6.7±1.0
1	B	0.0±0.0	7.3±1.0
All	All	0	140

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	B	17	DT	C5-C7	9.99	1.56	1.50	8	4
1	B	19	DG	C4'-O4'	-9.40	1.35	1.45	1	5
1	A	5	DT	C5-C6	8.36	1.40	1.34	4	1
1	A	1	DC	C4'-O4'	-8.20	1.36	1.45	6	1
1	A	8	DA	C6-N1	-8.18	1.29	1.35	4	1
1	A	2	DG	C4'-O4'	-7.98	1.37	1.45	6	4
1	A	12	DG	N7-C5	7.76	1.44	1.39	6	2
1	B	19	DG	N1-C2	-7.60	1.31	1.37	6	3
1	A	7	DG	N7-C5	7.60	1.43	1.39	9	3
1	B	14	DG	N7-C5	7.58	1.43	1.39	3	3
1	A	12	DG	N3-C4	7.50	1.40	1.35	3	6
1	A	2	DG	C4'-C3'	7.44	1.60	1.53	6	1
1	B	14	DG	N3-C4	7.40	1.40	1.35	4	2
1	A	7	DG	N1-C2	-7.40	1.31	1.37	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	B	13	DC	C4-N4	-7.37	1.27	1.33	4	1
1	A	6	DC	C4-N4	-7.34	1.27	1.33	5	3
1	A	5	DT	C4'-O4'	-7.29	1.37	1.45	7	1
1	A	8	DA	O3'-P	-7.25	1.52	1.61	8	1
1	A	2	DG	P-O5'	7.22	1.67	1.59	4	1
1	B	23	DC	P-O5'	7.17	1.67	1.59	8	1
1	A	4	DG	C4'-O4'	-7.17	1.37	1.45	5	3
1	A	2	DG	N7-C5	7.05	1.43	1.39	8	2
1	B	18	DC	O3'-P	-7.02	1.52	1.61	4	1
1	B	22	DG	N1-C2	-7.00	1.32	1.37	6	1
1	A	8	DA	N9-C4	-6.96	1.33	1.37	5	2
1	B	15	DC	N1-C6	6.95	1.41	1.37	2	1
1	A	2	DG	N1-C2	-6.91	1.32	1.37	2	1
1	A	11	DC	C4'-O4'	-6.88	1.38	1.45	6	2
1	A	7	DG	C2-N2	-6.82	1.27	1.34	1	4
1	A	2	DG	C5-C6	6.79	1.49	1.42	1	2
1	B	24	DG	N3-C4	6.79	1.40	1.35	9	2
1	A	10	DG	N9-C8	-6.75	1.33	1.37	1	2
1	B	14	DG	C5'-C4'	6.75	1.58	1.51	2	2
1	B	16	DG	N3-C4	6.74	1.40	1.35	8	2
1	A	8	DA	C5'-C4'	6.71	1.58	1.51	5	3
1	B	20	DA	N7-C5	6.68	1.43	1.39	9	2
1	A	3	DC	C5'-C4'	6.64	1.58	1.51	3	1
1	B	14	DG	N1-C2	-6.58	1.32	1.37	2	3
1	B	19	DG	C6-N1	-6.52	1.34	1.39	2	1
1	B	21	DC	O3'-P	-6.50	1.53	1.61	3	1
1	A	2	DG	C5'-C4'	6.49	1.58	1.51	8	2
1	A	5	DT	C5-C7	6.49	1.53	1.50	7	3
1	B	23	DC	N3-C4	-6.49	1.29	1.33	2	1
1	B	19	DG	P-O5'	-6.43	1.53	1.59	7	1
1	B	14	DG	C5-C6	6.43	1.48	1.42	3	1
1	A	11	DC	P-O5'	6.40	1.66	1.59	4	1
1	A	2	DG	C6-N1	-6.38	1.35	1.39	3	2
1	A	10	DG	C6-N1	-6.38	1.35	1.39	6	1
1	B	21	DC	N3-C4	-6.38	1.29	1.33	8	5
1	B	17	DT	N1-C2	6.31	1.43	1.38	9	1
1	A	7	DG	C6-N1	-6.29	1.35	1.39	5	1
1	B	14	DG	N9-C8	-6.28	1.33	1.37	7	2
1	B	16	DG	N1-C2	-6.27	1.32	1.37	8	3
1	B	13	DC	C5'-C4'	6.27	1.58	1.51	1	4
1	B	18	DC	C4-N4	-6.26	1.28	1.33	8	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	B	15	DC	O3'-P	6.25	1.68	1.61	3	2
1	A	11	DC	N3-C4	-6.24	1.29	1.33	2	2
1	A	8	DA	N7-C5	6.23	1.43	1.39	8	1
1	A	3	DC	O3'-P	-6.20	1.53	1.61	9	1
1	B	14	DG	C2-N2	-6.19	1.28	1.34	1	4
1	A	3	DC	C4'-O4'	-6.17	1.38	1.45	4	1
1	B	23	DC	C4-N4	-6.13	1.28	1.33	7	2
1	A	10	DG	C5'-C4'	6.10	1.58	1.51	1	2
1	A	11	DC	C4-N4	-6.09	1.28	1.33	9	2
1	A	11	DC	C5-C6	6.07	1.39	1.34	3	2
1	B	15	DC	C5'-C4'	6.05	1.58	1.51	1	2
1	A	5	DT	N1-C2	6.04	1.42	1.38	5	3
1	B	17	DT	C5'-C4'	6.04	1.57	1.51	8	1
1	A	10	DG	N3-C4	6.03	1.39	1.35	3	2
1	B	21	DC	C4'-C3'	6.01	1.59	1.53	2	1
1	B	24	DG	C2-N2	-6.01	1.28	1.34	8	4
1	A	10	DG	N7-C5	6.01	1.42	1.39	8	4
1	B	23	DC	C5'-C4'	5.99	1.57	1.51	9	1
1	B	16	DG	C2-N2	-5.96	1.28	1.34	8	3
1	B	15	DC	C4'-O4'	-5.96	1.39	1.45	6	2
1	A	12	DG	C2-N2	-5.92	1.28	1.34	4	1
1	B	15	DC	C4-N4	-5.82	1.28	1.33	1	2
1	A	12	DG	C4'-O4'	-5.80	1.39	1.45	6	2
1	B	20	DA	C5'-C4'	5.79	1.57	1.51	7	2
1	B	24	DG	N7-C5	5.78	1.42	1.39	4	1
1	A	4	DG	C2-N2	-5.76	1.28	1.34	1	4
1	A	10	DG	O3'-P	-5.74	1.54	1.61	8	1
1	B	21	DC	P-O5'	-5.71	1.54	1.59	9	2
1	A	2	DG	C2-N2	-5.71	1.28	1.34	3	1
1	B	20	DA	N9-C4	-5.65	1.34	1.37	7	1
1	B	20	DA	C4'-O4'	-5.64	1.39	1.45	2	1
1	B	16	DG	P-O5'	5.62	1.65	1.59	5	1
1	B	22	DG	N3-C4	5.57	1.39	1.35	3	1
1	A	11	DC	C5'-C4'	5.56	1.57	1.51	5	1
1	B	14	DG	C8-N7	-5.53	1.27	1.30	2	1
1	A	10	DG	C2'-C1'	5.52	1.57	1.52	1	2
1	A	10	DG	C2-N2	-5.51	1.29	1.34	9	2
1	A	5	DT	P-O5'	5.51	1.65	1.59	3	1
1	B	13	DC	C4'-O4'	-5.49	1.39	1.45	8	1
1	A	6	DC	C4'-O4'	-5.49	1.39	1.45	7	2
1	A	4	DG	N3-C4	5.46	1.39	1.35	8	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	B	15	DC	N3-C4	-5.46	1.30	1.33	4	3
1	B	18	DC	C4'-O4'	-5.45	1.39	1.45	9	2
1	B	22	DG	C2-N3	5.45	1.37	1.32	1	2
1	B	23	DC	C5-C6	5.43	1.38	1.34	2	2
1	A	1	DC	C4-N4	-5.41	1.29	1.33	3	1
1	B	19	DG	C2-N2	-5.40	1.29	1.34	3	1
1	A	12	DG	N1-C2	-5.40	1.33	1.37	7	1
1	B	17	DT	C2-N3	-5.34	1.33	1.37	7	1
1	A	2	DG	C2'-C1'	5.34	1.57	1.52	9	1
1	B	22	DG	C2'-C1'	5.33	1.57	1.52	8	1
1	A	3	DC	C2'-C1'	5.32	1.57	1.52	9	1
1	B	19	DG	N3-C4	5.31	1.39	1.35	7	1
1	A	3	DC	N1-C6	-5.31	1.33	1.37	2	3
1	A	12	DG	C6-N1	-5.30	1.35	1.39	3	1
1	A	3	DC	C4-N4	-5.29	1.29	1.33	3	1
1	B	21	DC	C5'-C4'	5.28	1.57	1.51	4	1
1	A	7	DG	C5-C6	5.25	1.47	1.42	2	1
1	B	19	DG	N7-C5	5.25	1.42	1.39	4	1
1	A	10	DG	C4'-O4'	-5.24	1.39	1.45	9	1
1	B	21	DC	C4'-O4'	-5.23	1.39	1.45	6	1
1	A	1	DC	N3-C4	-5.20	1.30	1.33	1	2
1	B	20	DA	C6-N6	-5.19	1.29	1.33	7	1
1	A	4	DG	N7-C5	-5.18	1.36	1.39	5	1
1	B	16	DG	C5'-C4'	5.18	1.57	1.51	9	1
1	A	1	DC	C5'-C4'	5.16	1.57	1.51	4	1
1	B	19	DG	N9-C8	-5.16	1.34	1.37	1	2
1	A	8	DA	C5-C4	-5.11	1.35	1.38	7	1
1	A	12	DG	C3'-O3'	-5.09	1.37	1.44	5	1
1	A	12	DG	C8-N7	5.09	1.34	1.30	2	1
1	B	20	DA	P-O5'	5.08	1.64	1.59	5	1
1	A	10	DG	C4'-C3'	5.08	1.58	1.53	2	1
1	B	17	DT	C3'-C2'	-5.07	1.46	1.52	6	1
1	A	7	DG	C4'-O4'	-5.07	1.40	1.45	4	1
1	A	4	DG	C6-N1	-5.07	1.36	1.39	9	1
1	A	9	DC	N1-C6	5.06	1.40	1.37	8	1
1	B	17	DT	O3'-P	-5.06	1.55	1.61	7	1
1	A	6	DC	C2'-C1'	5.05	1.57	1.52	7	1
1	A	8	DA	C2'-C1'	-5.05	1.47	1.52	1	2
1	B	21	DC	C4-N4	-5.05	1.29	1.33	4	1
1	B	20	DA	N3-C4	5.04	1.37	1.34	4	1
1	B	14	DG	C2'-C1'	5.01	1.57	1.52	8	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	B	16	DG	N7-C5	5.00	1.42	1.39	5	1

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	18	DC	N3-C4-C5	20.97	130.29	121.90	4	7
1	B	19	DG	O4'-C4'-C3'	16.05	115.63	106.00	1	6
1	B	21	DC	O4'-C1'-N1	15.67	118.97	108.00	2	5
1	A	5	DT	O4'-C1'-N1	15.29	118.70	108.00	9	3
1	B	13	DC	N3-C4-C5	15.05	127.92	121.90	3	5
1	B	23	DC	N3-C2-O2	-14.41	111.81	121.90	2	7
1	A	8	DA	N1-C6-N6	-14.27	110.04	118.60	5	6
1	B	20	DA	C4-C5-C6	-14.00	110.00	117.00	9	10
1	B	15	DC	C6-N1-C2	-13.84	114.76	120.30	7	3
1	A	4	DG	O4'-C4'-C3'	13.81	114.29	106.00	4	2
1	B	19	DG	O4'-C1'-N9	-13.76	98.37	108.00	1	5
1	A	5	DT	C6-C5-C7	-13.64	114.72	122.90	9	8
1	B	20	DA	O4'-C1'-N9	13.59	117.51	108.00	4	6
1	A	6	DC	N3-C4-C5	13.48	127.29	121.90	5	4
1	A	8	DA	O4'-C1'-N9	-13.20	98.76	108.00	3	2
1	B	15	DC	O4'-C4'-C3'	13.15	113.89	106.00	6	6
1	A	11	DC	C5-C6-N1	-13.07	114.46	121.00	2	5
1	A	3	DC	O4'-C1'-C2'	-13.05	95.46	105.90	4	3
1	A	6	DC	O4'-C4'-C3'	12.86	113.72	106.00	7	3
1	B	24	DG	C5-C6-N1	12.75	117.88	111.50	8	3
1	B	17	DT	C6-C5-C7	-12.57	115.36	122.90	1	6
1	A	3	DC	O4'-C1'-N1	12.52	116.77	108.00	9	5
1	B	24	DG	O4'-C4'-C3'	12.52	113.51	106.00	5	4
1	A	11	DC	N1-C2-O2	12.51	126.41	118.90	4	3
1	B	21	DC	C6-N1-C2	-12.46	115.32	120.30	1	4
1	A	4	DG	C8-N9-C4	-12.46	101.42	106.40	5	3
1	B	13	DC	C2-N3-C4	-12.24	113.78	119.90	3	2
1	A	9	DC	N3-C4-N4	-12.18	109.48	118.00	1	4
1	A	7	DG	N1-C6-O6	-12.18	112.59	119.90	5	4
1	B	20	DA	C5-C6-N1	12.12	123.76	117.70	5	10
1	A	5	DT	O4'-C4'-C3'	11.98	113.19	106.00	8	5
1	A	11	DC	N3-C2-O2	-11.90	113.57	121.90	2	9
1	A	3	DC	N3-C2-O2	-11.72	113.70	121.90	8	5
1	B	24	DG	C4-C5-N7	-11.68	106.13	110.80	2	5
1	B	19	DG	N1-C6-O6	-11.60	112.94	119.90	5	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	15	DC	N3-C2-O2	-11.57	113.80	121.90	3	7
1	A	3	DC	N1-C2-O2	11.53	125.81	118.90	8	3
1	A	2	DG	N1-C6-O6	-11.48	113.01	119.90	7	6
1	A	8	DA	C4-C5-C6	-11.35	111.33	117.00	5	7
1	A	10	DG	C5-C6-N1	11.33	117.17	111.50	5	3
1	A	1	DC	O4'-C1'-N1	11.25	115.88	108.00	5	6
1	A	1	DC	N1-C2-O2	11.24	125.64	118.90	1	4
1	B	18	DC	C5-C4-N4	-11.21	112.36	120.20	5	4
1	B	20	DA	N1-C6-N6	-11.20	111.88	118.60	8	5
1	B	22	DG	N3-C4-C5	-11.14	123.03	128.60	1	6
1	B	16	DG	O4'-C4'-C3'	11.12	112.67	106.00	2	5
1	A	1	DC	O4'-C1'-C2'	-11.10	97.02	105.90	9	5
1	B	24	DG	N1-C6-O6	-11.03	113.28	119.90	8	1
1	B	14	DG	C5-N7-C8	-11.00	98.80	104.30	2	3
1	B	18	DC	N3-C2-O2	-10.94	114.24	121.90	6	4
1	A	1	DC	N3-C2-O2	-10.89	114.28	121.90	1	6
1	A	10	DG	C6-C5-N7	10.85	136.91	130.40	6	1
1	A	10	DG	N1-C6-O6	-10.84	113.39	119.90	6	5
1	A	12	DG	N3-C2-N2	-10.77	112.36	119.90	9	2
1	A	4	DG	C5-C6-N1	10.73	116.86	111.50	8	3
1	B	20	DA	C6-C5-N7	10.71	139.79	132.30	6	6
1	A	2	DG	O4'-C1'-N9	-10.65	100.55	108.00	8	4
1	A	5	DT	N3-C2-O2	-10.64	115.91	122.30	4	7
1	A	9	DC	N3-C4-C5	10.63	126.15	121.90	1	4
1	B	17	DT	N3-C2-O2	-10.57	115.96	122.30	8	6
1	B	13	DC	C5-C4-N4	-10.56	112.80	120.20	3	3
1	B	24	DG	N9-C4-C5	10.55	109.62	105.40	2	3
1	A	1	DC	O4'-C4'-C3'	10.53	112.32	106.00	3	3
1	A	9	DC	C5-C4-N4	-10.43	112.90	120.20	5	4
1	A	3	DC	N3-C4-C5	10.35	126.04	121.90	7	4
1	A	12	DG	O4'-C1'-N9	10.26	115.18	108.00	3	2
1	B	17	DT	O4'-C1'-N1	10.19	115.14	108.00	8	4
1	A	9	DC	N1-C2-O2	10.18	125.01	118.90	6	4
1	B	14	DG	C5-C6-N1	10.18	116.59	111.50	4	7
1	A	8	DA	O4'-C4'-C3'	10.18	112.11	106.00	2	3
1	B	24	DG	C6-N1-C2	-10.15	119.01	125.10	8	4
1	B	21	DC	O4'-C1'-C2'	-10.15	97.78	105.90	9	3
1	B	14	DG	N1-C6-O6	-10.12	113.83	119.90	1	7
1	A	11	DC	N3-C4-C5	10.12	125.95	121.90	7	4
1	B	14	DG	O4'-C4'-C3'	10.07	112.04	106.00	7	6
1	B	22	DG	N1-C6-O6	-10.04	113.87	119.90	4	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	5	DT	C4-C5-C7	10.03	125.02	119.00	2	5
1	B	23	DC	N1-C2-O2	10.01	124.90	118.90	4	8
1	A	3	DC	C6-N1-C2	-9.98	116.31	120.30	2	3
1	B	21	DC	N3-C2-O2	-9.96	114.93	121.90	1	4
1	B	19	DG	C4'-C3'-C2'	-9.95	94.15	103.10	8	1
1	B	16	DG	O4'-C1'-N9	-9.92	101.06	108.00	4	2
1	B	22	DG	N7-C8-N9	9.92	118.06	113.10	5	4
1	A	8	DA	C5-C6-N1	9.92	122.66	117.70	6	6
1	B	22	DG	O4'-C1'-N9	9.91	114.94	108.00	9	4
1	B	17	DT	C4-C5-C7	9.86	124.92	119.00	2	5
1	A	11	DC	C2-N3-C4	-9.73	115.03	119.90	7	2
1	B	19	DG	C5-N7-C8	-9.73	99.44	104.30	4	2
1	B	13	DC	N1-C2-O2	9.71	124.73	118.90	4	2
1	B	14	DG	C4-C5-N7	9.67	114.67	110.80	2	3
1	B	18	DC	C4-C5-C6	-9.57	112.61	117.40	4	5
1	B	14	DG	N7-C8-N9	9.51	117.86	113.10	2	2
1	A	5	DT	C4-C5-C6	9.51	123.70	118.00	8	2
1	B	15	DC	N1-C2-N3	9.49	125.84	119.20	7	2
1	B	15	DC	C4-C5-C6	-9.47	112.66	117.40	2	1
1	A	1	DC	N3-C4-C5	9.45	125.68	121.90	5	4
1	A	12	DG	N1-C6-O6	-9.40	114.26	119.90	3	7
1	A	10	DG	C4-C5-N7	-9.38	107.05	110.80	2	2
1	A	9	DC	O4'-C1'-C2'	-9.38	98.40	105.90	5	5
1	B	18	DC	O4'-C1'-C2'	-9.31	98.45	105.90	1	4
1	B	18	DC	O4'-C4'-C3'	9.31	111.59	106.00	4	1
1	A	7	DG	C2-N3-C4	9.29	116.55	111.90	2	2
1	B	14	DG	N9-C4-C5	-9.23	101.71	105.40	2	2
1	A	4	DG	O4'-C1'-C2'	-9.23	98.52	105.90	8	3
1	A	5	DT	C6-N1-C2	-9.16	116.72	121.30	2	3
1	A	9	DC	N3-C2-O2	-9.16	115.49	121.90	2	7
1	B	23	DC	O4'-C1'-N1	9.16	114.41	108.00	7	4
1	B	13	DC	N3-C2-O2	-9.15	115.49	121.90	4	3
1	A	9	DC	C5-C6-N1	-9.15	116.43	121.00	2	1
1	A	8	DA	C2-N3-C4	-9.14	106.03	110.60	4	2
1	B	19	DG	C4-C5-N7	-9.14	107.14	110.80	6	5
1	B	21	DC	N3-C4-N4	-9.12	111.61	118.00	4	4
1	A	10	DG	C4-C5-C6	-9.12	113.33	118.80	6	3
1	B	16	DG	N1-C6-O6	-9.05	114.47	119.90	6	2
1	B	18	DC	C2-N3-C4	-9.05	115.37	119.90	4	6
1	A	12	DG	O4'-C4'-C3'	9.04	111.43	106.00	7	2
1	A	4	DG	C5-C6-O6	8.97	133.98	128.60	4	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	18	DC	N3-C4-N4	-8.94	111.74	118.00	3	3
1	B	23	DC	C2-N3-C4	-8.92	115.44	119.90	1	3
1	B	22	DG	C5-N7-C8	-8.85	99.88	104.30	5	2
1	A	8	DA	N9-C4-C5	8.85	109.34	105.80	7	1
1	B	20	DA	O4'-C1'-C2'	8.81	112.95	105.90	5	2
1	B	23	DC	N3-C4-C5	8.79	125.42	121.90	6	4
1	A	10	DG	N3-C2-N2	-8.78	113.75	119.90	3	1
1	B	19	DG	C5-C6-O6	8.78	133.87	128.60	1	4
1	A	3	DC	C4'-C3'-C2'	-8.77	95.21	103.10	9	4
1	B	22	DG	N3-C2-N2	-8.75	113.78	119.90	2	1
1	A	6	DC	N3-C2-O2	-8.70	115.81	121.90	3	6
1	B	19	DG	N7-C8-N9	8.69	117.44	113.10	4	4
1	B	15	DC	O4'-C1'-N1	8.68	114.07	108.00	3	4
1	B	16	DG	C6-C5-N7	8.68	135.60	130.40	6	1
1	B	15	DC	C5-C6-N1	-8.64	116.68	121.00	3	2
1	B	20	DA	N3-C4-C5	8.63	132.84	126.80	4	2
1	A	4	DG	N1-C6-O6	-8.61	114.74	119.90	8	2
1	A	1	DC	C5-C6-N1	-8.58	116.71	121.00	1	2
1	B	24	DG	N3-C4-C5	-8.57	124.31	128.60	6	4
1	B	23	DC	O4'-C4'-C3'	8.54	111.12	106.00	2	6
1	A	3	DC	O4'-C4'-C3'	8.54	111.12	106.00	9	4
1	A	3	DC	C2-N3-C4	-8.53	115.63	119.90	7	4
1	B	15	DC	O4'-C1'-C2'	-8.52	99.09	105.90	4	3
1	B	16	DG	N3-C2-N2	-8.50	113.95	119.90	6	1
1	A	8	DA	C5-N7-C8	-8.48	99.66	103.90	5	3
1	A	4	DG	O4'-C1'-N9	-8.48	102.06	108.00	6	3
1	A	5	DT	N1-C2-N3	8.47	119.68	114.60	2	3
1	A	7	DG	C8-N9-C4	-8.46	103.01	106.40	6	3
1	B	17	DT	O4'-C4'-C3'	8.45	111.07	106.00	8	4
1	B	17	DT	O4'-C1'-C2'	-8.45	99.14	105.90	9	2
1	B	15	DC	C2-N3-C4	-8.44	115.68	119.90	7	3
1	A	9	DC	C6-N1-C2	-8.44	116.93	120.30	5	2
1	A	6	DC	O4'-C1'-N1	8.39	113.87	108.00	2	5
1	A	7	DG	O4'-C1'-N9	8.38	113.86	108.00	3	2
1	A	10	DG	N1-C2-N3	8.32	128.89	123.90	9	1
1	A	7	DG	C5-N7-C8	-8.31	100.15	104.30	6	5
1	B	14	DG	O4'-C1'-N9	-8.27	102.21	108.00	7	2
1	B	23	DC	C5-C6-N1	-8.27	116.86	121.00	6	3
1	B	17	DT	N3-C4-O4	-8.26	114.94	119.90	2	3
1	B	17	DT	C5-C6-N1	-8.22	118.77	123.70	7	7
1	B	23	DC	C4-C5-C6	-8.22	113.29	117.40	7	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	1	DC	C4-C5-C6	8.19	121.49	117.40	1	4
1	B	23	DC	C5-C4-N4	-8.19	114.47	120.20	6	3
1	B	20	DA	N9-C4-C5	8.19	109.07	105.80	3	3
1	B	21	DC	N3-C4-C5	8.19	125.17	121.90	4	2
1	A	11	DC	O4'-C4'-C3'	8.15	110.89	106.00	8	2
1	B	16	DG	N3-C4-C5	-8.12	124.54	128.60	1	4
1	B	22	DG	N9-C4-C5	8.10	108.64	105.40	2	3
1	A	2	DG	N3-C4-C5	-8.10	124.55	128.60	9	5
1	A	7	DG	C4'-C3'-C2'	-8.09	95.82	103.10	2	4
1	B	15	DC	N1-C2-O2	8.07	123.75	118.90	9	4
1	B	21	DC	O4'-C4'-C3'	8.06	110.83	106.00	9	1
1	A	10	DG	C4'-C3'-C2'	-8.05	95.86	103.10	8	2
1	A	10	DG	C2-N3-C4	8.00	115.90	111.90	1	4
1	B	22	DG	C2-N3-C4	7.99	115.90	111.90	4	5
1	B	14	DG	C4-C5-C6	-7.97	114.02	118.80	6	3
1	B	17	DT	C4'-C3'-C2'	-7.93	95.97	103.10	4	2
1	A	2	DG	N3-C2-N2	-7.92	114.36	119.90	8	5
1	A	6	DC	C4-C5-C6	-7.91	113.44	117.40	5	2
1	A	12	DG	C5-C6-N1	7.88	115.44	111.50	7	2
1	A	11	DC	N3-C4-N4	-7.86	112.50	118.00	7	2
1	A	4	DG	N7-C8-N9	7.84	117.02	113.10	7	2
1	B	16	DG	C6-N1-C2	-7.83	120.40	125.10	2	1
1	A	1	DC	C5-C4-N4	-7.82	114.72	120.20	5	1
1	A	7	DG	N7-C8-N9	7.82	117.01	113.10	5	3
1	A	12	DG	N3-C4-C5	7.79	132.49	128.60	8	3
1	A	2	DG	O4'-C4'-C3'	7.74	110.64	106.00	5	3
1	A	7	DG	O4'-C1'-C2'	-7.73	99.72	105.90	5	2
1	A	1	DC	C4'-C3'-C2'	-7.71	96.16	103.10	3	3
1	A	2	DG	C4'-C3'-C2'	-7.71	96.17	103.10	2	2
1	B	13	DC	O4'-C1'-N1	7.70	113.39	108.00	8	3
1	B	16	DG	C4-C5-N7	7.68	113.87	110.80	8	4
1	A	4	DG	N3-C4-C5	-7.67	124.76	128.60	1	6
1	A	4	DG	N3-C2-N2	-7.67	114.53	119.90	5	1
1	B	18	DC	O4'-C1'-N1	7.67	113.37	108.00	8	5
1	A	2	DG	C5-C6-N1	7.67	115.34	111.50	4	4
1	B	17	DT	C4-C5-C6	7.66	122.60	118.00	1	5
1	A	4	DG	N9-C4-C5	-7.65	102.34	105.40	4	2
1	B	15	DC	C1'-O4'-C4'	-7.64	102.46	110.10	6	4
1	B	22	DG	C8-N9-C4	-7.62	103.35	106.40	1	3
1	B	15	DC	N3-C4-N4	-7.60	112.68	118.00	5	4
1	B	20	DA	C5-N7-C8	-7.59	100.11	103.90	1	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	13	DC	O4'-C4'-C3'	7.59	110.55	106.00	2	2
1	B	20	DA	C2-N3-C4	-7.57	106.81	110.60	2	2
1	A	8	DA	C6-C5-N7	7.54	137.58	132.30	7	2
1	B	22	DG	C4-C5-N7	-7.52	107.79	110.80	2	4
1	A	6	DC	N1-C2-O2	7.49	123.40	118.90	1	6
1	B	16	DG	O4'-C1'-C2'	-7.49	99.91	105.90	1	5
1	A	6	DC	C5-C4-N4	-7.48	114.96	120.20	6	2
1	B	22	DG	C4'-C3'-C2'	-7.46	96.38	103.10	9	5
1	B	14	DG	N3-C4-N9	7.46	130.47	126.00	2	2
1	B	14	DG	C2-N3-C4	7.45	115.62	111.90	7	1
1	A	10	DG	N9-C4-C5	-7.43	102.43	105.40	4	3
1	B	22	DG	C5-C6-N1	7.40	115.20	111.50	6	6
1	A	3	DC	N1-C2-N3	7.39	124.37	119.20	2	1
1	A	11	DC	C6-N1-C2	-7.39	117.34	120.30	8	2
1	A	11	DC	O4'-C1'-C2'	-7.38	100.00	105.90	5	4
1	A	11	DC	O4'-C1'-N1	7.38	113.16	108.00	5	2
1	B	24	DG	C5-N7-C8	-7.33	100.63	104.30	8	2
1	B	14	DG	C6-N1-C2	-7.33	120.70	125.10	4	3
1	A	3	DC	C5-C4-N4	-7.32	115.08	120.20	3	3
1	A	2	DG	N3-C4-N9	7.32	130.39	126.00	2	2
1	A	7	DG	O3'-P-O5'	-7.32	90.10	104.00	3	1
1	A	7	DG	N3-C4-C5	-7.31	124.94	128.60	2	2
1	B	18	DC	N1-C2-O2	7.30	123.28	118.90	6	6
1	B	16	DG	C2-N3-C4	7.28	115.54	111.90	1	3
1	A	10	DG	C5-N7-C8	-7.28	100.66	104.30	5	2
1	A	7	DG	C5-C6-O6	7.26	132.95	128.60	2	2
1	B	21	DC	C2-N3-C4	-7.23	116.28	119.90	8	2
1	B	23	DC	O4'-C1'-C2'	-7.23	100.12	105.90	6	5
1	A	10	DG	C5-C6-O6	7.21	132.93	128.60	4	2
1	B	16	DG	C5-C6-N1	7.16	115.08	111.50	2	2
1	B	19	DG	C6-C5-N7	7.15	134.69	130.40	6	5
1	B	19	DG	N3-C4-N9	7.12	130.27	126.00	2	2
1	A	8	DA	P-O3'-C3'	7.09	128.21	119.70	7	3
1	B	16	DG	N7-C8-N9	7.09	116.65	113.10	7	1
1	B	24	DG	O4'-C1'-N9	7.09	112.96	108.00	1	2
1	A	2	DG	N7-C8-N9	7.07	116.63	113.10	4	3
1	A	7	DG	C6-N1-C2	-7.04	120.88	125.10	1	4
1	A	7	DG	P-O3'-C3'	7.04	128.15	119.70	7	1
1	B	24	DG	C8-N9-C4	-7.03	103.59	106.40	2	1
1	A	10	DG	N3-C4-C5	-7.03	125.09	128.60	1	4
1	A	10	DG	O5'-C5'-C4'	7.01	128.52	111.00	7	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	14	DG	N3-C2-N2	-7.00	115.00	119.90	9	2
1	B	16	DG	C5-N7-C8	-6.99	100.80	104.30	8	2
1	A	1	DC	C2-N3-C4	-6.99	116.41	119.90	3	3
1	A	12	DG	C5-C6-O6	6.98	132.79	128.60	9	3
1	B	19	DG	C2-N3-C4	6.98	115.39	111.90	6	2
1	B	14	DG	C4'-C3'-C2'	-6.98	96.82	103.10	7	5
1	B	20	DA	N1-C2-N3	-6.97	125.82	129.30	4	2
1	B	24	DG	C4'-C3'-C2'	-6.95	96.85	103.10	9	3
1	B	16	DG	N9-C4-C5	-6.93	102.63	105.40	8	1
1	A	8	DA	C8-N9-C4	6.88	108.55	105.80	9	3
1	B	23	DC	C3'-C2'-C1'	-6.86	94.27	102.50	9	1
1	A	2	DG	C3'-C2'-C1'	6.85	110.72	102.50	5	1
1	B	14	DG	N3-C4-C5	-6.85	125.18	128.60	7	1
1	B	22	DG	O4'-C1'-C2'	-6.84	100.43	105.90	3	3
1	A	5	DT	C5-C6-N1	-6.84	119.60	123.70	6	5
1	B	15	DC	N3-C4-C5	6.81	124.62	121.90	6	3
1	B	19	DG	C1'-O4'-C4'	-6.80	103.30	110.10	1	3
1	A	10	DG	C6-N1-C2	-6.80	121.02	125.10	7	1
1	A	10	DG	N3-C4-N9	6.79	130.07	126.00	1	2
1	A	12	DG	C8-N9-C4	-6.79	103.69	106.40	9	4
1	A	2	DG	C5-C6-O6	6.78	132.67	128.60	1	4
1	A	8	DA	C4-C5-N7	-6.76	107.32	110.70	7	2
1	B	13	DC	N1-C2-N3	6.76	123.93	119.20	6	1
1	B	14	DG	C6-C5-N7	6.75	134.45	130.40	9	3
1	A	5	DT	N3-C4-O4	-6.73	115.86	119.90	6	1
1	B	21	DC	C5-C4-N4	-6.72	115.49	120.20	6	2
1	A	12	DG	C2-N3-C4	6.71	115.26	111.90	6	2
1	A	10	DG	N1-C2-N2	6.71	122.23	116.20	3	1
1	A	2	DG	C4-C5-N7	-6.69	108.12	110.80	1	3
1	A	8	DA	N7-C8-N9	6.69	117.14	113.80	4	1
1	B	17	DT	N1-C2-O2	6.66	128.43	123.10	8	1
1	A	5	DT	O4'-C1'-C2'	-6.66	100.57	105.90	9	1
1	A	2	DG	C5-N7-C8	-6.62	100.99	104.30	4	3
1	A	5	DT	P-O3'-C3'	6.62	127.65	119.70	5	1
1	B	20	DA	O4'-C4'-C3'	6.62	109.97	106.00	6	2
1	B	14	DG	C8-N9-C4	6.60	109.04	106.40	8	2
1	A	12	DG	C6-C5-N7	6.60	134.36	130.40	7	2
1	B	19	DG	N3-C4-C5	-6.59	125.31	128.60	2	2
1	A	4	DG	N3-C4-N9	6.58	129.95	126.00	8	3
1	A	9	DC	O4'-C1'-N1	6.58	112.61	108.00	8	3
1	A	10	DG	O4'-C1'-C2'	-6.58	100.64	105.90	4	5

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	18	DC	C4'-C3'-C2'	6.57	109.01	103.10	5	2
1	A	9	DC	C2-N3-C4	-6.55	116.62	119.90	4	3
1	A	6	DC	C2-N3-C4	-6.55	116.62	119.90	3	3
1	A	4	DG	C2-N3-C4	6.54	115.17	111.90	1	3
1	B	19	DG	C4-C5-C6	-6.53	114.88	118.80	5	2
1	A	7	DG	C5-C6-N1	6.51	114.75	111.50	5	6
1	A	9	DC	C4-C5-C6	6.50	120.65	117.40	2	1
1	B	13	DC	C5-C6-N1	-6.49	117.75	121.00	6	1
1	B	19	DG	N3-C2-N2	-6.46	115.38	119.90	4	5
1	A	11	DC	C4'-C3'-C2'	-6.46	97.29	103.10	2	1
1	A	11	DC	C4-C5-C6	6.46	120.63	117.40	2	1
1	A	2	DG	O4'-C1'-C2'	-6.44	100.75	105.90	1	3
1	A	10	DG	O4'-C1'-N9	6.44	112.51	108.00	9	1
1	B	22	DG	C6-N1-C2	-6.43	121.24	125.10	1	2
1	B	13	DC	N3-C4-N4	6.43	122.50	118.00	5	2
1	B	19	DG	N9-C4-C5	-6.43	102.83	105.40	7	2
1	B	22	DG	N3-C4-N9	6.42	129.85	126.00	1	2
1	B	19	DG	O4'-C1'-C2'	-6.42	100.77	105.90	8	2
1	B	16	DG	P-O3'-C3'	6.40	127.38	119.70	8	4
1	A	2	DG	P-O3'-C3'	6.39	127.37	119.70	5	2
1	A	11	DC	C1'-O4'-C4'	-6.33	103.78	110.10	8	1
1	A	3	DC	C4-C5-C6	-6.32	114.24	117.40	3	2
1	A	5	DT	C2-N3-C4	-6.31	123.41	127.20	6	2
1	B	19	DG	C5-C6-N1	6.30	114.65	111.50	2	2
1	B	14	DG	O4'-C1'-C2'	-6.29	100.87	105.90	1	4
1	A	11	DC	N1-C2-N3	6.27	123.59	119.20	8	1
1	B	14	DG	C5'-C4'-C3'	6.24	125.33	114.10	2	1
1	B	24	DG	N3-C2-N2	6.21	124.25	119.90	9	2
1	A	4	DG	C4'-C3'-C2'	-6.21	97.52	103.10	4	2
1	B	16	DG	N1-C2-N2	6.18	121.77	116.20	6	1
1	B	20	DA	C4-C5-N7	-6.16	107.62	110.70	6	1
1	B	23	DC	C4'-C3'-C2'	-6.15	97.56	103.10	2	4
1	A	8	DA	N1-C2-N3	6.14	132.37	129.30	2	2
1	B	24	DG	C4-C5-C6	-6.13	115.12	118.80	8	1
1	A	12	DG	C4-C5-N7	6.13	113.25	110.80	3	4
1	A	4	DG	C4-C5-N7	-6.07	108.37	110.80	3	4
1	A	12	DG	N3-C4-N9	6.06	129.63	126.00	3	1
1	A	1	DC	N3-C4-N4	-6.05	113.76	118.00	3	1
1	B	16	DG	N3-C4-N9	6.03	129.62	126.00	8	2
1	A	12	DG	C4-C5-C6	-6.03	115.19	118.80	7	2
1	B	23	DC	C6-N1-C2	-6.01	117.90	120.30	2	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	12	DG	N9-C4-C5	-5.97	103.01	105.40	3	3
1	A	7	DG	C4-C5-C6	-5.95	115.23	118.80	8	2
1	A	12	DG	O4'-C1'-C2'	5.93	110.65	105.90	4	1
1	B	18	DC	C5-C6-N1	-5.93	118.04	121.00	7	1
1	B	18	DC	P-O3'-C3'	5.91	126.79	119.70	5	1
1	B	24	DG	C3'-C2'-C1'	-5.89	95.43	102.50	8	1
1	A	4	DG	C5-N7-C8	-5.89	101.35	104.30	7	2
1	B	23	DC	N1-C2-N3	5.89	123.32	119.20	2	1
1	B	17	DT	N3-C4-C5	-5.87	111.68	115.20	1	2
1	B	19	DG	C5'-C4'-O4'	5.87	120.45	109.30	8	1
1	B	19	DG	N9-C1'-C2'	5.86	123.74	112.60	7	1
1	B	14	DG	C1'-O4'-C4'	-5.85	104.25	110.10	6	2
1	A	5	DT	C5-C4-O4	5.83	128.98	124.90	6	1
1	A	2	DG	C4-C5-C6	-5.81	115.31	118.80	7	1
1	A	5	DT	N3-C4-C5	-5.81	111.71	115.20	8	1
1	B	16	DG	C4'-C3'-C2'	-5.79	97.89	103.10	2	2
1	B	16	DG	C4-C5-C6	-5.79	115.32	118.80	6	2
1	B	15	DC	C5-C4-N4	5.73	124.21	120.20	3	2
1	A	1	DC	P-O3'-C3'	5.73	126.58	119.70	9	1
1	A	2	DG	C2-N3-C4	5.73	114.76	111.90	2	1
1	B	20	DA	C5'-C4'-O4'	5.72	120.17	109.30	8	2
1	B	24	DG	N1-C2-N2	-5.70	111.07	116.20	9	1
1	A	6	DC	C3'-C2'-C1'	5.69	109.32	102.50	8	1
1	B	15	DC	C3'-C2'-C1'	5.67	109.31	102.50	1	3
1	B	17	DT	C5'-C4'-C3'	-5.67	103.90	114.10	2	1
1	A	3	DC	N3-C4-N4	-5.66	114.03	118.00	7	1
1	A	9	DC	P-O3'-C3'	5.65	126.48	119.70	1	3
1	B	20	DA	C1'-O4'-C4'	-5.65	104.45	110.10	2	1
1	A	3	DC	OP1-P-O3'	5.65	117.63	105.20	4	1
1	A	10	DG	O4'-C4'-C3'	-5.64	102.24	104.50	1	2
1	A	11	DC	C3'-C2'-C1'	-5.63	95.74	102.50	6	2
1	B	24	DG	N1-C2-N3	5.63	127.28	123.90	1	3
1	A	8	DA	O5'-P-OP1	5.63	117.45	110.70	3	1
1	A	2	DG	C6-N1-C2	-5.61	121.73	125.10	5	1
1	A	7	DG	C4-C5-N7	-5.61	108.56	110.80	7	1
1	A	4	DG	C6-N1-C2	-5.60	121.74	125.10	8	2
1	A	8	DA	C5'-C4'-O4'	5.60	119.94	109.30	5	2
1	A	8	DA	C5'-C4'-C3'	-5.57	104.08	114.10	4	1
1	A	6	DC	C5-C6-N1	-5.57	118.22	121.00	4	1
1	A	2	DG	N9-C4-C5	5.55	107.62	105.40	8	1
1	B	16	DG	C8-N9-C4	5.54	108.62	106.40	5	2

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	13	DC	P-O3'-C3'	5.53	126.34	119.70	7	1
1	B	20	DA	C6-N1-C2	-5.53	115.28	118.60	2	2
1	A	4	DG	P-O3'-C3'	5.53	126.34	119.70	6	1
1	B	19	DG	C8-N9-C4	-5.48	104.21	106.40	1	4
1	B	21	DC	N1-C2-N3	5.48	123.03	119.20	1	3
1	A	1	DC	N1-C2-N3	5.46	123.02	119.20	3	1
1	A	3	DC	C3'-C2'-C1'	-5.46	95.95	102.50	1	3
1	A	3	DC	C1'-O4'-C4'	-5.46	104.64	110.10	5	1
1	B	14	DG	C5-C6-O6	-5.44	125.33	128.60	4	1
1	A	9	DC	C3'-C2'-C1'	5.41	109.00	102.50	8	1
1	B	13	DC	C2-N1-C1'	5.39	124.73	118.80	1	2
1	B	19	DG	N1-C2-N2	5.39	121.05	116.20	5	1
1	B	22	DG	P-O3'-C3'	5.37	126.14	119.70	6	1
1	B	14	DG	N1-C2-N2	5.37	121.03	116.20	8	1
1	B	16	DG	C3'-C2'-C1'	5.36	108.93	102.50	2	2
1	B	19	DG	C3'-C2'-C1'	5.36	108.93	102.50	8	1
1	A	12	DG	C5-N7-C8	-5.33	101.63	104.30	8	1
1	A	5	DT	C4'-C3'-C2'	-5.33	98.30	103.10	3	3
1	A	2	DG	C6-C5-N7	5.33	133.60	130.40	7	1
1	A	6	DC	O4'-C1'-C2'	5.31	110.15	105.90	6	1
1	A	7	DG	O4'-C4'-C3'	-5.30	102.38	104.50	4	3
1	A	12	DG	O5'-P-OP2	-5.30	100.93	105.70	9	1
1	B	20	DA	N3-C4-N9	-5.29	123.17	127.40	3	1
1	B	15	DC	P-O3'-C3'	5.29	126.05	119.70	1	2
1	B	23	DC	C1'-O4'-C4'	-5.29	104.81	110.10	6	3
1	B	20	DA	O5'-C5'-C4'	5.27	124.18	111.00	2	1
1	B	17	DT	C5'-C4'-O4'	5.27	119.31	109.30	5	2
1	A	6	DC	P-O3'-C3'	5.27	126.02	119.70	3	1
1	B	18	DC	N1-C2-N3	5.26	122.88	119.20	8	1
1	A	2	DG	C8-N9-C4	-5.25	104.30	106.40	6	1
1	B	21	DC	C5-C6-N1	-5.25	118.38	121.00	6	1
1	B	16	DG	C5-C6-O6	5.24	131.75	128.60	6	1
1	A	8	DA	N3-C4-C5	5.23	130.46	126.80	1	2
1	A	3	DC	P-O5'-C5'	-5.23	112.53	120.90	2	1
1	B	21	DC	C1'-O4'-C4'	-5.22	104.88	110.10	8	2
1	A	8	DA	C6-N1-C2	-5.20	115.48	118.60	2	1
1	A	7	DG	N1-C2-N3	5.20	127.02	123.90	3	1
1	A	1	DC	C6-N1-C2	-5.20	118.22	120.30	4	1
1	A	6	DC	C6-N1-C2	-5.19	118.22	120.30	8	1
1	B	17	DT	C5-C4-O4	5.18	128.53	124.90	1	3
1	A	12	DG	N1-C2-N2	5.18	120.87	116.20	9	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	B	18	DC	C1'-O4'-C4'	5.15	115.25	110.10	7	1
1	B	21	DC	N1-C2-O2	5.14	121.99	118.90	1	2
1	A	6	DC	C5'-C4'-C3'	5.14	123.36	114.10	4	1
1	A	7	DG	C3'-C2'-C1'	5.14	108.67	102.50	6	1
1	B	22	DG	C5-C6-O6	5.11	131.67	128.60	4	1
1	A	8	DA	C5-C6-N6	5.10	127.78	123.70	5	1
1	B	15	DC	C4'-C3'-C2'	-5.10	98.51	103.10	1	2
1	A	10	DG	P-O3'-C3'	5.09	125.81	119.70	4	1
1	A	7	DG	N9-C4-C5	5.08	107.43	105.40	7	1
1	B	22	DG	O4'-C4'-C3'	5.07	109.04	106.00	6	1
1	B	24	DG	C5'-C4'-C3'	-5.07	104.98	114.10	8	1
1	B	13	DC	C6-N1-C1'	-5.06	114.73	120.80	9	1
1	A	10	DG	N7-C8-N9	5.05	115.62	113.10	9	1
1	B	20	DA	C4'-C3'-C2'	-5.04	98.56	103.10	4	1
1	A	6	DC	N1-C2-N3	5.04	122.72	119.20	8	1
1	A	10	DG	C8-N9-C4	5.03	108.41	106.40	8	1
1	B	18	DC	C6-N1-C2	5.03	122.31	120.30	9	1
1	A	8	DA	C4'-C3'-C2'	-5.01	98.59	103.10	6	1

There are no chirality outliers.

All unique planar outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	4	DG	Sidechain	10
1	B	22	DG	Sidechain	10
1	A	7	DG	Sidechain	9
1	A	5	DT	Sidechain	8
1	A	11	DC	Sidechain	8
1	B	17	DT	Sidechain	8
1	B	24	DG	Sidechain	8
1	B	20	DA	Sidechain	8
1	A	10	DG	Sidechain	7
1	B	19	DG	Sidechain	7
1	A	1	DC	Sidechain	6
1	B	13	DC	Sidechain	6
1	B	14	DG	Sidechain	6
1	B	16	DG	Sidechain	6
1	A	3	DC	Sidechain	5
1	A	12	DG	Sidechain	5
1	B	21	DC	Sidechain	4

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Mol	Chain	Res	Type	Group	Models (Total)
1	B	23	DC	Sidechain	4
1	B	15	DC	Sidechain	4
1	A	2	DG	Sidechain	3
1	A	8	DA	Sidechain	3
1	A	9	DC	Sidechain	2
1	B	18	DC	Sidechain	2
1	A	6	DC	Sidechain	1

6.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	243	135	131	0±0
1	B	243	135	129	0±0
All	All	4860	2700	2617	2

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 0.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:DC:H2"	1:A:7:DG:C8	0.49	2.43	6	1
1:B:20:DA:H4'	1:B:20:DA:OP1	0.40	2.17	9	1

6.3 Torsion angles

6.3.1 Protein backbone

There are no protein molecules in this entry.

6.3.2 Protein sidechains

There are no protein molecules in this entry.

6.3.3 RNA

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains

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

6.5 Carbohydrates

There are no monosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 22% for the well-defined parts and 22% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *starch_ output*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	108
Number of shifts mapped to atoms	108
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 22%, i.e. 105 atoms were assigned a chemical shift out of a possible 486. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Sugar	71/288 (25%)	71/168 (42%)	0/120 (0%)	0/0 (—%)
Base	34/198 (17%)	34/126 (27%)	0/38 (0%)	0/34 (0%)
Overall	105/486 (22%)	105/294 (36%)	0/158 (0%)	0/34 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 22%, i.e. 105 atoms were assigned a chemical shift out of a possible 486. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Sugar	71/288 (25%)	71/168 (42%)	0/120 (0%)	0/0 (—%)
Base	34/198 (17%)	34/126 (27%)	0/38 (0%)	0/34 (0%)
Overall	105/486 (22%)	105/294 (36%)	0/158 (0%)	0/34 (0%)

7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots (i)

No *random coil index*(RCI) plot could be generated from the current chemical shift list. RCI is only applicable to proteins

8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	326
Intra-residue (|i-j|=0)	148
Sequential (|i-j|=1)	152
Medium range (|i-j|>1 and |i-j|<5)	0
Long range (|i-j|≥5)	0
Inter-chain	26
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	13.6
Number of long range restraints per residue[1]	0.0

[1]Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	12.5	0.2
0.2-0.5 (Medium)	27.1	0.5
>0.5 (Large)	234.0	4.44

8.2.2 Average number of dihedral-angle violations per model (i)

Dihedral-angle violations less than 1° are not included in the calculation.There are no dihedral-angle violations

9 Distance violation analysis (i)

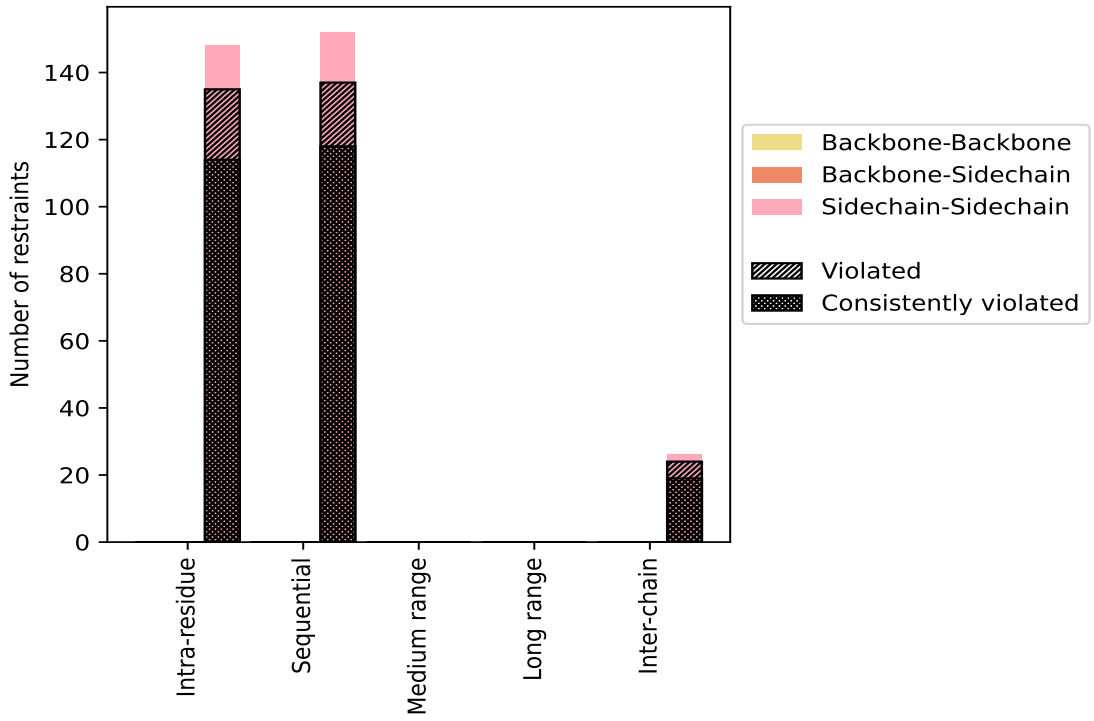
9.1 Summary of distance violations (i)

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	148	45.4	135	91.2	41.4	114	77.0	35.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	148	45.4	135	91.2	41.4	114	77.0	35.0
Sequential (|i-j|=1)	152	46.6	137	90.1	42.0	118	77.6	36.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	152	46.6	137	90.1	42.0	118	77.6	36.2
Medium range (|i-j|>1 & |i-j|<5)	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (|i-j|≥5)	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Inter-chain	26	8.0	24	92.3	7.4	19	73.1	5.8
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	26	8.0	24	92.3	7.4	19	73.1	5.8
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	326	100.0	296	90.8	90.8	251	77.0	77.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	326	100.0	296	90.8	90.8	251	77.0	77.0

[1] percentage calculated with respect to the total number of distance restraints, [2] percentage calculated with respect to the number of restraints in a particular restraint category, [3] violated in at least one model, [4] violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

9.2 Distance violation statistics for each model

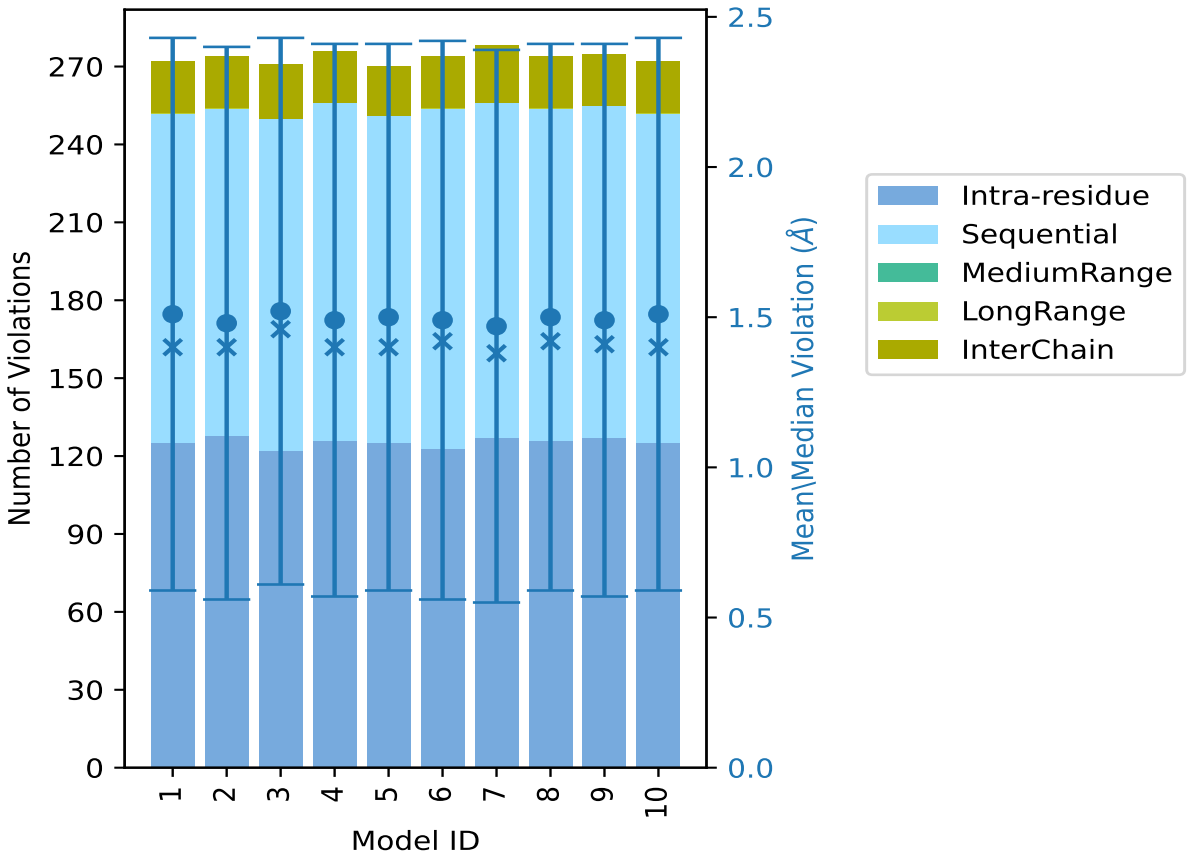
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	125	127	0	0	20	272	1.51	4.32	0.92	1.4
2	128	126	0	0	20	274	1.48	4.33	0.92	1.4
3	122	128	0	0	21	271	1.52	4.31	0.91	1.46
4	126	130	0	0	20	276	1.49	4.34	0.92	1.4
5	125	126	0	0	19	270	1.5	4.24	0.91	1.4
6	123	131	0	0	20	274	1.49	4.34	0.93	1.42
7	127	129	0	0	22	278	1.47	4.44	0.92	1.38
8	126	128	0	0	20	274	1.5	4.33	0.91	1.42
9	127	128	0	0	20	275	1.49	4.31	0.92	1.41
10	125	127	0	0	20	272	1.51	4.32	0.92	1.4

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints,

[5]Inter-chain restraints, [6]Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 30(IR:13, SQ:15, MR:0, LR:0, IC:2) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
3	2	0	0	3	8	1	10.0
2	1	0	0	0	3	2	20.0
3	4	0	0	1	8	3	30.0
0	0	0	0	0	0	4	40.0

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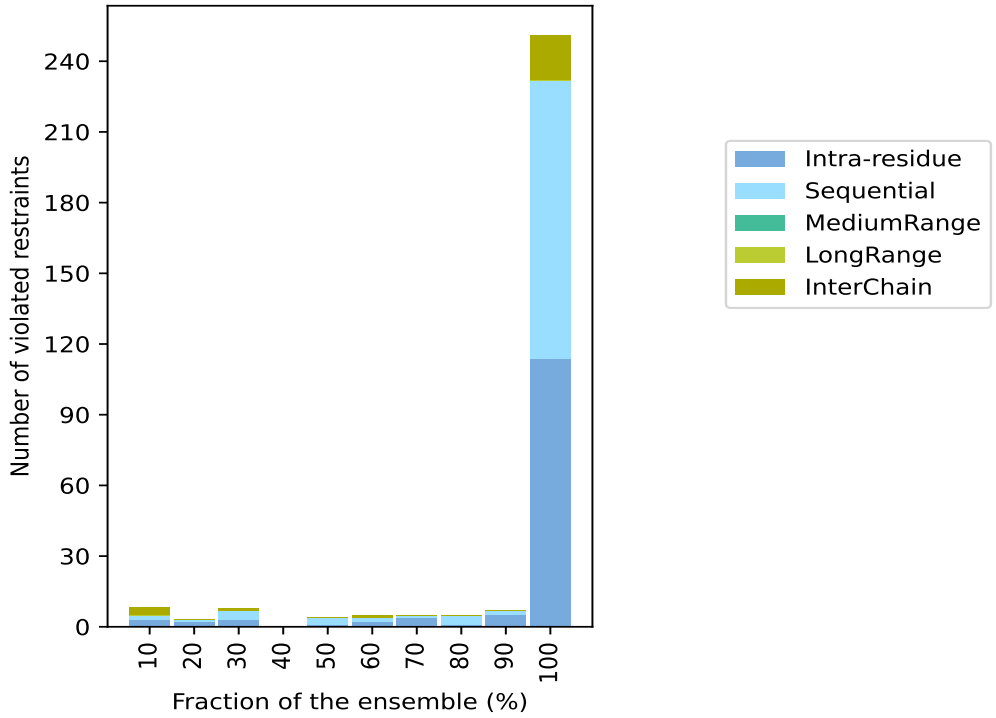
Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
1	3	0	0	0	4	5	50.0
2	2	0	0	1	5	6	60.0
4	1	0	0	0	5	7	70.0
1	4	0	0	0	5	8	80.0
5	2	0	0	0	7	9	90.0
114	118	0	0	19	251	10	100.0

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6] Number of models with violations

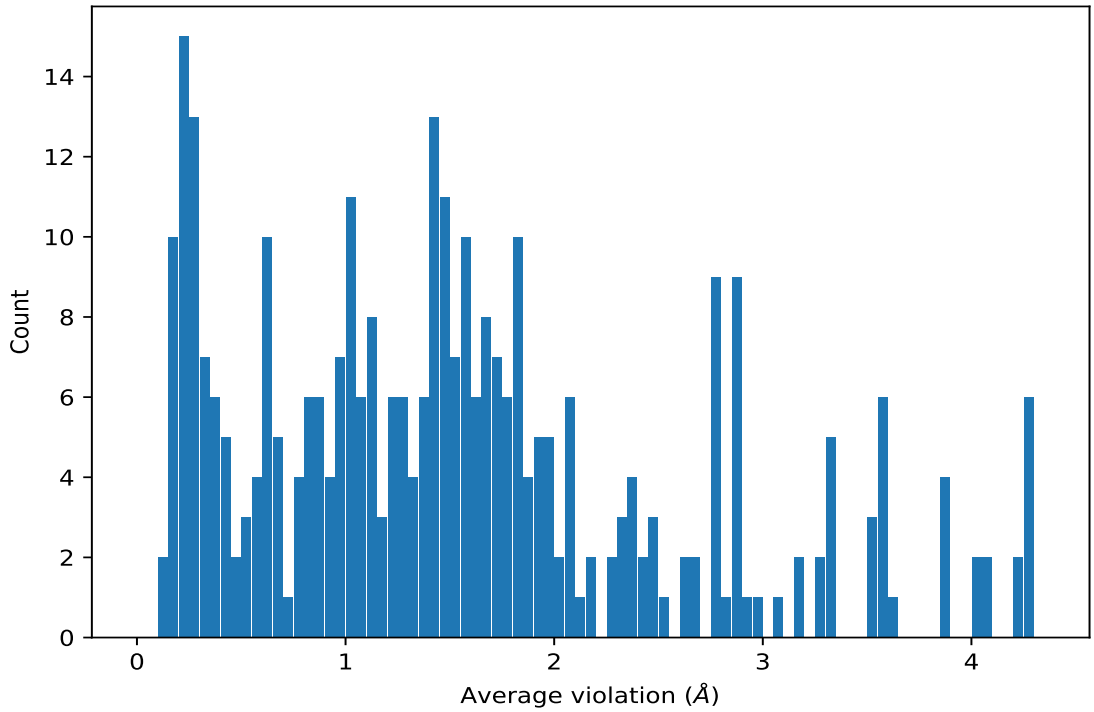
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



9.4.2 Table: Most violated distance restraints

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	10	4.29	0.04	4.3
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	10	4.29	0.04	4.3
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	10	4.27	0.05	4.28
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	10	4.27	0.05	4.28
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	10	4.26	0.08	4.24
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	10	4.26	0.08	4.24
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	10	4.23	0.06	4.24
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	10	4.23	0.06	4.24
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	10	4.07	0.06	4.08
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	10	4.07	0.06	4.08
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	10	4.04	0.08	4.06
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	10	4.04	0.08	4.06
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	10	3.89	0.23	3.92
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	10	3.89	0.23	3.92
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	10	3.88	0.06	3.86
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	10	3.87	0.05	3.88

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	10	3.61	0.11	3.6
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	10	3.58	0.08	3.58
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	10	3.58	0.08	3.58
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	10	3.57	0.31	3.59
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	10	3.57	0.31	3.59
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	10	3.55	0.09	3.51
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	10	3.55	0.09	3.51
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	10	3.51	0.07	3.52
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	10	3.51	0.07	3.52
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	10	3.51	0.07	3.52
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	10	3.34	0.12	3.39
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	10	3.34	0.12	3.39
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	10	3.34	0.12	3.39
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	10	3.33	0.35	3.3
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	10	3.33	0.35	3.3
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	10	3.26	0.28	3.28
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	10	3.26	0.28	3.28
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	10	3.15	0.19	3.12
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	10	3.15	0.19	3.12
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	10	3.05	0.09	3.0
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	10	2.96	0.2	2.88
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	10	2.94	0.12	2.9
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	10	2.89	0.2	2.86
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	10	2.89	0.2	2.86
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	10	2.89	0.2	2.86
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	10	2.89	0.2	2.86
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	10	2.89	0.2	2.86
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	10	2.89	0.2	2.86
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	10	2.88	0.12	2.88
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	10	2.88	0.07	2.9
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	10	2.85	0.53	2.97
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	10	2.83	0.06	2.85
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	10	2.77	0.11	2.79
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	10	2.77	0.16	2.79
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	10	2.76	0.14	2.78
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	10	2.76	0.14	2.78
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	10	2.76	0.14	2.78
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	10	2.76	0.14	2.78
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	10	2.76	0.14	2.78
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	10	2.76	0.14	2.78
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	10	2.75	0.05	2.76
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	10	2.66	0.09	2.65

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	10	2.65	0.08	2.64
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	10	2.61	0.29	2.6
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	10	2.6	0.07	2.58
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	10	2.53	0.12	2.48
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	10	2.47	0.13	2.55
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	10	2.46	0.12	2.5
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	10	2.45	0.24	2.48
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	10	2.43	0.25	2.49
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	10	2.43	0.25	2.49
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	10	2.39	0.21	2.34
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	10	2.39	0.21	2.34
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	10	2.39	0.19	2.32
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	10	2.39	0.19	2.32
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	10	2.34	0.1	2.37
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	10	2.33	0.1	2.33
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	10	2.3	0.21	2.28
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	10	2.29	0.16	2.28
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	10	2.28	0.17	2.32
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	10	2.18	0.09	2.19
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	10	2.16	0.1	2.19
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	10	2.13	0.12	2.06
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	10	2.09	0.11	2.08
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	10	2.08	0.12	2.14
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	10	2.06	0.13	2.06
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	10	2.06	0.06	2.07
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	10	2.06	0.18	2.12
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	10	2.05	0.09	2.06
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	10	2.01	0.13	1.98
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	10	2.01	0.2	2.09
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	10	1.99	0.1	1.98
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	10	1.99	0.17	1.96
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	10	1.99	0.11	2.02
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	10	1.96	0.06	1.96
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	10	1.95	0.17	1.98
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	10	1.94	0.22	2.02
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	10	1.92	0.16	1.96
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	10	1.91	0.07	1.92
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	10	1.91	0.3	1.82
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	10	1.91	0.12	1.96
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	10	1.88	0.11	1.9
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	10	1.87	0.07	1.87
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	10	1.86	0.14	1.87

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	10	1.86	0.08	1.87
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	10	1.84	0.17	1.84
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	10	1.84	0.24	1.85
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	10	1.82	0.09	1.85
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	10	1.82	0.11	1.82
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	10	1.81	0.05	1.82
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	10	1.81	0.27	1.81
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	10	1.81	0.06	1.81
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	10	1.8	0.08	1.82
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	10	1.8	0.08	1.8
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	10	1.8	0.22	1.79
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	10	1.79	0.11	1.78
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	10	1.79	0.09	1.76
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	10	1.77	0.05	1.76
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	10	1.77	0.06	1.77
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	10	1.76	0.13	1.75
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	10	1.75	0.08	1.73
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	10	1.74	0.06	1.77
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	10	1.73	0.24	1.7
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	10	1.72	0.2	1.79
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	10	1.72	0.1	1.73
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	10	1.72	0.08	1.71
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	10	1.72	0.1	1.72
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	10	1.71	0.07	1.72
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	10	1.68	0.3	1.78
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	10	1.68	0.2	1.67
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	10	1.67	0.18	1.68
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	10	1.67	0.18	1.68
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	10	1.67	0.18	1.68
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	10	1.67	0.39	1.74
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	10	1.66	0.12	1.71
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	10	1.65	0.14	1.66
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	10	1.64	0.08	1.64
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	10	1.64	0.05	1.67
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	10	1.64	0.11	1.65
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	10	1.64	0.1	1.62
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	10	1.62	0.12	1.62
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	10	1.61	0.08	1.63
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	10	1.59	0.12	1.61
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	10	1.57	0.33	1.55
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	10	1.57	0.33	1.55
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	10	1.57	0.33	1.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	10	1.56	0.21	1.6
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	10	1.56	0.05	1.56
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	10	1.56	0.24	1.54
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	10	1.55	0.18	1.51
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	10	1.55	0.16	1.54
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	10	1.55	0.09	1.53
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	10	1.54	0.14	1.6
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	10	1.54	0.04	1.54
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	10	1.53	0.05	1.52
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	10	1.52	0.16	1.56
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	10	1.52	0.09	1.5
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	10	1.52	0.08	1.54
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	10	1.5	0.05	1.5
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	10	1.49	0.28	1.5
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	10	1.49	0.1	1.52
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	10	1.48	0.4	1.5
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	10	1.48	0.06	1.48
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	10	1.48	0.32	1.49
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	10	1.47	0.25	1.5
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	10	1.47	0.14	1.43
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	10	1.46	0.11	1.5
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	10	1.46	0.15	1.42
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	10	1.46	0.11	1.52
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	10	1.45	0.12	1.51
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	10	1.44	0.13	1.45
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	10	1.44	0.29	1.4
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	10	1.44	0.29	1.4
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	10	1.44	0.29	1.4
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	10	1.43	0.05	1.42
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	10	1.42	0.07	1.44
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	10	1.42	0.05	1.42
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	10	1.41	0.05	1.4
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	10	1.41	0.1	1.4
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	10	1.41	0.07	1.44
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	10	1.41	0.05	1.42
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	10	1.41	0.1	1.44
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	10	1.4	0.18	1.44
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	10	1.39	0.22	1.36
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	10	1.39	0.07	1.39
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	10	1.37	0.18	1.44
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	10	1.37	0.19	1.43
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	10	1.36	0.09	1.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	10	1.36	0.15	1.39
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	10	1.34	0.05	1.35
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	10	1.33	0.09	1.33
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	10	1.32	0.12	1.3
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	10	1.3	0.05	1.32
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	10	1.29	0.3	1.33
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	10	1.28	0.05	1.29
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	10	1.28	0.2	1.34
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	10	1.27	0.09	1.3
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	10	1.25	0.14	1.24
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	10	1.25	0.22	1.23
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	10	1.24	0.07	1.25
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	10	1.23	0.06	1.21
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	10	1.23	0.06	1.2
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	10	1.22	0.13	1.22
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	10	1.22	0.13	1.22
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	10	1.22	0.13	1.22
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	10	1.18	0.18	1.25
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	10	1.17	0.29	1.12
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	10	1.15	0.06	1.16
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	10	1.14	0.1	1.15
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	10	1.14	0.08	1.13
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	10	1.14	0.26	1.16
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	10	1.14	0.09	1.16
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	10	1.11	0.08	1.11
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	10	1.1	0.12	1.09
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	10	1.1	0.16	1.1
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	10	1.1	0.07	1.1
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	10	1.09	0.44	1.17
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	10	1.08	0.07	1.1
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	10	1.07	0.1	1.1
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	10	1.06	0.22	1.1
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	10	1.05	0.07	1.05
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	10	1.05	0.04	1.04
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	10	1.04	0.25	0.96
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	10	1.04	0.13	1.03
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	10	1.03	0.09	1.04
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	10	1.02	0.14	0.98
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	10	1.02	0.06	1.03
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	10	1.01	0.07	1.02
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	10	1.01	0.24	0.97
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	10	1.01	0.27	0.92

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	10	1.01	0.21	1.01
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	10	1.0	0.2	1.04
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	10	1.0	0.06	0.99
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	10	0.99	0.09	1.02
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	10	0.97	0.19	0.94
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	10	0.97	0.22	1.08
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	10	0.96	0.29	1.02
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	10	0.96	0.07	0.94
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	10	0.96	0.2	0.89
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	10	0.95	0.07	0.96
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	10	0.94	0.12	0.98
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	10	0.94	0.06	0.92
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	10	0.92	0.08	0.94
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	10	0.9	0.11	0.89
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	10	0.88	0.08	0.9
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	10	0.86	0.07	0.86
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	10	0.86	0.14	0.81
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	10	0.86	0.15	0.89
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	10	0.85	0.11	0.82
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	10	0.84	0.18	0.82
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	10	0.83	0.26	0.77
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	10	0.83	0.39	0.86
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	10	0.83	0.19	0.9
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	10	0.81	0.11	0.83
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	10	0.8	0.28	0.73
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	10	0.78	0.15	0.8
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	10	0.78	0.18	0.79
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	10	0.78	0.16	0.76
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	10	0.78	0.07	0.74
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	10	0.7	0.32	0.74
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	10	0.69	0.08	0.72
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	10	0.69	0.1	0.69
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	10	0.67	0.18	0.66
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	10	0.66	0.06	0.65
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	10	0.65	0.28	0.56
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	10	0.63	0.17	0.62
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	10	0.63	0.23	0.55
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	10	0.63	0.2	0.53
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	10	0.63	0.26	0.68
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	10	0.62	0.08	0.65
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	10	0.6	0.21	0.55
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	10	0.6	0.18	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	10	0.6	0.18	0.62
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	10	0.6	0.18	0.62
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	10	0.59	0.25	0.68
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	10	0.58	0.12	0.5
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	10	0.56	0.07	0.56
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	10	0.54	0.19	0.5
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	10	0.53	0.19	0.55
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	10	0.46	0.19	0.45
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	10	0.44	0.23	0.48
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	10	0.42	0.26	0.35
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	10	0.42	0.15	0.49
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	10	0.4	0.13	0.41
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	10	0.38	0.13	0.38
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	10	0.38	0.12	0.4
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	10	0.38	0.11	0.39
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	10	0.31	0.12	0.29
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	10	0.3	0.12	0.26
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	10	0.27	0.09	0.24
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	10	0.27	0.1	0.28
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	10	0.27	0.1	0.28
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	10	0.26	0.1	0.28
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	10	0.25	0.09	0.24
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	10	0.25	0.06	0.25
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	10	0.24	0.04	0.25
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	9	0.62	0.17	0.56
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	9	0.26	0.07	0.26
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	9	0.26	0.11	0.25
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	9	0.26	0.11	0.25
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	9	0.26	0.11	0.25
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	9	0.25	0.08	0.26
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	9	0.22	0.08	0.17
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	9	0.2	0.1	0.15
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	9	0.16	0.05	0.13
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	8	0.46	0.07	0.48
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	8	0.36	0.13	0.34
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	8	0.34	0.15	0.26
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	8	0.23	0.05	0.24
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	8	0.2	0.01	0.2
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	7	0.42	0.24	0.45
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	7	0.37	0.14	0.34
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	7	0.37	0.14	0.34
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	7	0.33	0.15	0.3

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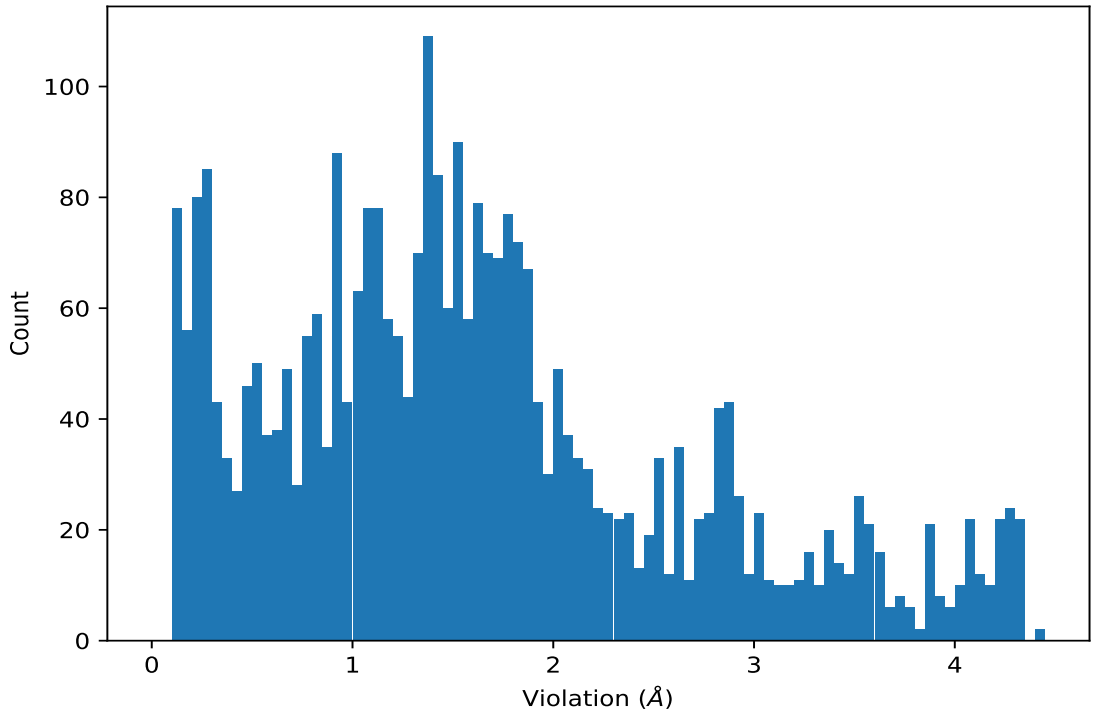
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	7	0.24	0.1	0.27
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	7	0.14	0.04	0.13
(1,74)	1:B:15:DC:H2'	1:B:16:DG:H8	6	0.52	0.28	0.4
(1,238)	1:B:16:DG:H1	1:A:9:DC:H41	6	0.33	0.25	0.23
(1,75)	1:A:4:DG:H2'	1:A:5:DT:H6	6	0.32	0.15	0.24
(1,47)	1:A:2:DG:H8	1:A:2:DG:H2'	6	0.24	0.06	0.23
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2'	6	0.22	0.05	0.21
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2"	6	0.22	0.05	0.21
(1,299)	1:A:2:DG:H1	1:A:1:DC:H41	5	0.89	0.48	1.13
(1,79)	1:A:6:DC:H2'	1:A:7:DG:H8	5	0.24	0.06	0.27
(1,279)	1:A:9:DC:H1'	1:A:9:DC:H4'	5	0.18	0.04	0.2
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H71	5	0.17	0.07	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H72	5	0.17	0.07	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H73	5	0.17	0.07	0.12
(1,309)	1:A:6:DC:H41	1:B:19:DG:H1	3	0.32	0.07	0.37
(1,134)	1:B:23:DC:H2'	1:B:24:DG:H8	3	0.24	0.09	0.22
(1,134)	1:B:23:DC:H2"	1:B:24:DG:H8	3	0.24	0.09	0.22
(1,289)	1:A:4:DG:H1	1:A:5:DT:H3	3	0.23	0.06	0.22
(1,133)	1:A:11:DC:H2'	1:A:12:DG:H8	3	0.21	0.04	0.24
(1,133)	1:A:11:DC:H2"	1:A:12:DG:H8	3	0.21	0.04	0.24
(1,64)	1:B:22:DG:H8	1:B:22:DG:H2'	3	0.19	0.04	0.2
(1,42)	1:B:22:DG:H1'	1:B:23:DC:H6	3	0.18	0.05	0.19
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2'	3	0.15	0.01	0.14
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2"	3	0.15	0.01	0.14
(1,49)	1:A:3:DC:H6	1:A:3:DC:H2'	3	0.14	0.04	0.11
(1,290)	1:B:16:DG:H1	1:B:17:DT:H3	2	0.58	0.34	0.58
(1,92)	1:B:13:DC:H6	1:B:13:DC:H2'	2	0.28	0.11	0.28
(1,92)	1:B:13:DC:H6	1:B:13:DC:H2"	2	0.28	0.11	0.28
(1,272)	1:B:17:DT:H1'	1:B:17:DT:H4'	2	0.18	0.01	0.18

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations (i)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	7	4.44
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	7	4.44
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	7	4.35
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	7	4.35
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	6	4.34
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	6	4.34
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	4	4.34
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	4	4.34
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	8	4.33
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	8	4.33
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	2	4.33
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	2	4.33
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	1	4.32
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	1	4.32
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	10	4.32
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	10	4.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	6	4.32
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	6	4.32
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	3	4.31
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	3	4.31
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	7	4.31
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	7	4.31
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	9	4.31
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	9	4.31
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	9	4.29
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	9	4.29
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	4	4.28
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	4	4.28
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	7	4.28
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	7	4.28
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	9	4.28
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	9	4.28
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	1	4.28
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	1	4.28
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	2	4.28
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	2	4.28
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	10	4.28
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	10	4.28
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	1	4.28
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	1	4.28
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	10	4.28
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	10	4.28
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	3	4.27
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	3	4.27
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	8	4.26
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	8	4.26
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	3	4.25
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	3	4.25
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	5	4.24
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	5	4.24
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	5	4.24
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	5	4.24
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	8	4.24
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	8	4.24
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	6	4.23
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	6	4.23
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	5	4.23
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	5	4.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	2	4.23
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	2	4.23
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	6	4.22
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	6	4.22
(1,108)	1:B:22:DG:H8	1:B:22:DG:H21	2	4.21
(1,108)	1:B:22:DG:H8	1:B:22:DG:H22	2	4.21
(1,101)	1:A:7:DG:H8	1:A:7:DG:H21	5	4.21
(1,101)	1:A:7:DG:H8	1:A:7:DG:H22	5	4.21
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	4	4.2
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	4	4.2
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	8	4.2
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	8	4.2
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	6	4.19
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	6	4.19
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	6	4.19
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	6	4.19
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	4	4.16
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	4	4.16
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	1	4.16
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	1	4.16
(1,102)	1:B:19:DG:H8	1:B:19:DG:H21	10	4.16
(1,102)	1:B:19:DG:H8	1:B:19:DG:H22	10	4.16
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	9	4.14
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	9	4.14
(1,107)	1:A:10:DG:H8	1:A:10:DG:H21	3	4.13
(1,107)	1:A:10:DG:H8	1:A:10:DG:H22	3	4.13
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	3	4.12
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	3	4.12
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	9	4.12
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	9	4.12
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	4	4.11
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	4	4.11
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	4	4.11
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	4	4.11
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	2	4.1
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	2	4.1
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	4	4.09
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	4	4.09
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	5	4.09
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	5	4.09
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	5	4.09
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	5	4.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	1	4.08
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	1	4.08
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	10	4.08
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	10	4.08
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	6	4.07
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	6	4.07
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	1	4.06
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	1	4.06
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	10	4.06
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	10	4.06
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	6	4.06
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	6	4.06
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	9	4.05
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	9	4.05
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	7	4.03
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	7	4.03
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	2	4.03
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	2	4.03
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	8	4.01
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	8	4.01
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	5	4.01
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	5	4.01
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	8	4.0
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	8	4.0
(1,94)	1:B:14:DG:H8	1:B:14:DG:H21	2	3.98
(1,94)	1:B:14:DG:H8	1:B:14:DG:H22	2	3.98
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	8	3.96
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	8	3.96
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	6	3.96
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	8	3.95
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	5	3.94
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	8	3.94
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	3	3.93
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	3	3.93
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	4	3.93
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	3	3.93
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	7	3.91
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	7	3.91
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	7	3.9
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	7	3.9
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	7	3.9
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	7	3.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:A:2:DG:H8	1:A:2:DG:H21	3	3.89
(1,93)	1:A:2:DG:H8	1:A:2:DG:H22	3	3.89
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	1	3.89
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	1	3.89
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	10	3.89
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	10	3.89
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	6	3.89
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	7	3.89
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	2	3.88
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	9	3.88
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	9	3.87
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	7	3.86
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	2	3.85
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	3	3.85
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	1	3.85
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	5	3.85
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	10	3.85
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	9	3.82
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	9	3.82
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	1	3.8
(1,104)	1:B:20:DA:H8	1:B:20:DA:H2	10	3.8
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	4	3.78
(1,103)	1:A:8:DA:H8	1:A:8:DA:H2	4	3.77
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	3	3.76
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	3	3.76
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	1	3.74
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	10	3.74
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	1	3.74
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	1	3.74
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	10	3.74
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	10	3.74
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	9	3.73
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	9	3.73
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	1	3.67
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	1	3.67
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	6	3.67
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	6	3.67
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	10	3.67
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	10	3.67
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	3	3.65
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	4	3.64
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	4	3.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	9	3.63
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	3	3.62
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	3	3.62
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	6	3.61
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	6	3.61
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	5	3.61
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	5	3.61
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	7	3.6
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	7	3.6
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	8	3.6
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	8	3.6
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	8	3.6
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	8	3.6
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	1	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	1	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	1	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	6	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	6	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	6	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	10	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	10	3.59
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	10	3.59
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	3	3.58
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	3	3.58
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	2	3.58
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	2	3.58
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	4	3.57
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	4	3.57
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	7	3.57
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	2	3.56
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	2	3.56
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	2	3.56
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	7	3.56
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	7	3.56
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	2	3.54
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	2	3.54
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	2	3.54
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	9	3.54
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	9	3.54
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	9	3.54
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	3	3.54
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	3	3.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	8	3.53
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	1	3.51
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	1	3.51
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	6	3.51
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	6	3.51
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	10	3.51
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	10	3.51
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	4	3.5
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	4	3.5
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	4	3.5
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	5	3.5
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	5	3.5
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	5	3.5
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	5	3.5
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	5	3.5
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	5	3.5
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	8	3.5
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	8	3.5
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	1	3.48
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	1	3.48
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	1	3.48
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	10	3.48
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	10	3.48
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	10	3.48
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	4	3.48
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	4	3.48
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	6	3.48
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	9	3.48
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	9	3.48
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	9	3.45
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	5	3.44
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	5	3.44
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	5	3.44
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	6	3.44
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	6	3.44
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	6	3.44
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	3	3.44
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	3	3.44
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	3	3.44
(1,111)	1:A:12:DG:H8	1:A:12:DG:H21	4	3.44
(1,111)	1:A:12:DG:H8	1:A:12:DG:H22	4	3.44
(1,112)	1:B:24:DG:H8	1:B:24:DG:H21	7	3.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:B:24:DG:H8	1:B:24:DG:H22	7	3.42
(1,128)	1:B:20:DA:H2	1:B:21:DC:H6	5	3.41
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	8	3.4
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	8	3.4
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	8	3.4
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	7	3.4
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	7	3.4
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	7	3.4
(1,315)	1:A:6:DC:H6	1:A:5:DT:H71	8	3.4
(1,315)	1:A:6:DC:H6	1:A:5:DT:H72	8	3.4
(1,315)	1:A:6:DC:H6	1:A:5:DT:H73	8	3.4
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	9	3.39
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	9	3.39
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	2	3.38
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	2	3.38
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	2	3.38
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	8	3.36
(1,126)	1:B:19:DG:H21	1:B:20:DA:H8	5	3.36
(1,126)	1:B:19:DG:H22	1:B:20:DA:H8	5	3.36
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	2	3.35
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	2	3.35
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	9	3.35
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	1	3.34
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	1	3.34
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	10	3.34
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	10	3.34
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	8	3.33
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	8	3.33
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	1	3.33
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	1	3.33
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	10	3.33
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	10	3.33
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	4	3.29
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	4	3.29
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	4	3.28
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	3	3.28
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	3	3.28
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	8	3.27
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	8	3.27
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	9	3.26
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	9	3.26
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	9	3.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	6	3.25
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	6	3.25
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	2	3.25
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	2	3.25
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	9	3.25
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	9	3.25
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	5	3.24
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	5	3.24
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	2	3.23
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	2	3.23
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	2	3.23
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	2	3.23
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	2	3.23
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	2	3.23
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	3	3.23
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	3	3.23
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	3	3.23
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	7	3.18
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	7	3.18
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	7	3.18
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	7	3.17
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	9	3.17
(1,316)	1:B:18:DC:H6	1:B:17:DT:H71	4	3.16
(1,316)	1:B:18:DC:H6	1:B:17:DT:H72	4	3.16
(1,316)	1:B:18:DC:H6	1:B:17:DT:H73	4	3.16
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	5	3.16
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	5	3.16
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	9	3.15
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	1	3.15
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	10	3.15
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	4	3.14
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	8	3.1
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	8	3.1
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	8	3.1
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	8	3.1
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	8	3.1
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	8	3.1
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	5	3.09
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	5	3.09
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	7	3.09
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	7	3.09
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	6	3.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	2	3.07
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	2	3.07
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	8	3.07
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	5	3.06
(1,132)	1:B:22:DG:H21	1:B:23:DC:H6	9	3.06
(1,132)	1:B:22:DG:H22	1:B:23:DC:H6	9	3.06
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	3	3.05
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	3	3.05
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	3	3.05
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	3	3.05
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	3	3.05
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	3	3.05
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	8	3.05
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	4	3.04
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	3	3.04
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	3	3.04
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	7	3.04
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	7	3.04
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	9	3.04
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	9	3.04
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	5	3.03
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	1	3.03
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	10	3.03
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	6	3.02
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	6	3.02
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	6	3.01
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	5	3.01
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	5	3.01
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	8	3.0
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	2	2.98
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	4	2.98
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	4	2.98
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	4	2.98
(1,115)	1:A:2:DG:H21	1:A:3:DC:H6	2	2.98
(1,115)	1:A:2:DG:H22	1:A:3:DC:H6	2	2.98
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	6	2.97
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	6	2.97
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	3	2.96
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	1	2.95
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	10	2.95
(1,185)	1:A:4:DG:H4'	1:A:5:DT:H6	6	2.95
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	3	2.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	7	2.94
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	1	2.94
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	10	2.94
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	4	2.93
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	4	2.93
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	4	2.93
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	4	2.93
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	4	2.93
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	4	2.93
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	9	2.93
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	9	2.93
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	9	2.93
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	9	2.93
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	9	2.93
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	9	2.93
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	8	2.93
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	5	2.93
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	6	2.92
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	4	2.92
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	9	2.91
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	9	2.91
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	9	2.91
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	9	2.91
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	9	2.91
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	9	2.91
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	4	2.9
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	9	2.9
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	9	2.9
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	9	2.9
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	7	2.89
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	7	2.89
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	7	2.89
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	7	2.89
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	7	2.89
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	7	2.89
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	7	2.89
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	7	2.89
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	7	2.89
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	7	2.89
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	7	2.89
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	7	2.89
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	1	2.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	10	2.89
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	2	2.89
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	1	2.89
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	1	2.89
(1,131)	1:A:10:DG:H21	1:A:11:DC:H6	10	2.89
(1,131)	1:A:10:DG:H22	1:A:11:DC:H6	10	2.89
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	1	2.89
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	10	2.89
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	2	2.88
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	3	2.88
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	2	2.87
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	6	2.87
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	5	2.86
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	3	2.86
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	2	2.86
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	6	2.85
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	6	2.85
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	6	2.85
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	6	2.85
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	6	2.85
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	6	2.85
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	1	2.85
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	10	2.85
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	1	2.85
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	7	2.85
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	10	2.85
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	4	2.84
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	4	2.84
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	4	2.84
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	4	2.84
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	4	2.84
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	4	2.84
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	3	2.84
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	2	2.84
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	8	2.84
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	5	2.83
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	5	2.83
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	5	2.83
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	5	2.83
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	5	2.83
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	5	2.83
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	8	2.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	4	2.83
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	9	2.83
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	1	2.83
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	10	2.83
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	1	2.82
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	1	2.82
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	1	2.82
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	1	2.82
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	1	2.82
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	1	2.82
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	10	2.82
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	10	2.82
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	10	2.82
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	10	2.82
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	10	2.82
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	10	2.82
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	2	2.82
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	5	2.82
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	5	2.81
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	5	2.81
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	5	2.81
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	5	2.81
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	5	2.81
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	5	2.81
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	9	2.81
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	7	2.81
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	7	2.8
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	8	2.8
(1,220)	1:B:19:DG:H8	1:B:20:DA:H8	2	2.8
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	2	2.8
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	3	2.79
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	3	2.79
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	5	2.79
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	3	2.79
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	7	2.79
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	8	2.78
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	7	2.78
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	8	2.77
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	2	2.77
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	2	2.77
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	4	2.76
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	6	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	1	2.76
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	4	2.76
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	6	2.76
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	10	2.76
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	9	2.75
(1,198)	1:B:20:DA:H4'	1:B:21:DC:H6	8	2.75
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	2	2.75
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	9	2.74
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	3	2.74
(1,215)	1:A:5:DT:H6	1:A:6:DC:H6	4	2.74
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	8	2.73
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	8	2.73
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	8	2.73
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	8	2.73
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	8	2.73
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	8	2.73
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	1	2.73
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	10	2.73
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	2	2.73
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	5	2.73
(1,127)	1:A:8:DA:H2	1:A:9:DC:H6	3	2.73
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	3	2.72
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	9	2.72
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	7	2.72
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	7	2.72
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	5	2.71
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	3	2.71
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	8	2.7
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	8	2.7
(1,197)	1:A:8:DA:H4'	1:A:9:DC:H6	7	2.69
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	7	2.69
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	3	2.66
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	3	2.66
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	3	2.66
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	3	2.66
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	3	2.66
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	3	2.66
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	7	2.66
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	4	2.66
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	7	2.66
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	3	2.65
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	2	2.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,194)	1:B:19:DG:H4'	1:B:20:DA:H8	9	2.65
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	3	2.65
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	2	2.65
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	2	2.65
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	1	2.64
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	1	2.64
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	1	2.64
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	1	2.64
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	1	2.64
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	1	2.64
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	10	2.64
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	10	2.64
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	10	2.64
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	10	2.64
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	10	2.64
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	10	2.64
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	7	2.64
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	9	2.64
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	7	2.64
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	9	2.64
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	1	2.64
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	10	2.64
(1,116)	1:B:14:DG:H21	1:B:15:DC:H6	8	2.64
(1,116)	1:B:14:DG:H22	1:B:15:DC:H6	8	2.64
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	3	2.63
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	5	2.63
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	4	2.63
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	2	2.63
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	3	2.63
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	1	2.63
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	10	2.63
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	6	2.6
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	4	2.6
(1,216)	1:B:17:DT:H6	1:B:18:DC:H6	4	2.59
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	6	2.59
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	8	2.59
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	4	2.59
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	4	2.59
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	2	2.58
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	7	2.57
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	1	2.57
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	2	2.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	10	2.57
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	3	2.56
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	8	2.56
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	2	2.55
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	7	2.55
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	4	2.55
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	1	2.55
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	3	2.55
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	4	2.55
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	10	2.55
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	9	2.55
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	7	2.55
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	7	2.55
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	5	2.54
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	5	2.54
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	6	2.53
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	9	2.53
(1,168)	1:B:17:DT:H3'	1:B:18:DC:H6	5	2.53
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	6	2.53
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	6	2.53
(1,325)	1:A:4:DG:H21	1:A:5:DT:H71	2	2.52
(1,325)	1:A:4:DG:H21	1:A:5:DT:H72	2	2.52
(1,325)	1:A:4:DG:H21	1:A:5:DT:H73	2	2.52
(1,325)	1:A:4:DG:H22	1:A:5:DT:H71	2	2.52
(1,325)	1:A:4:DG:H22	1:A:5:DT:H72	2	2.52
(1,325)	1:A:4:DG:H22	1:A:5:DT:H73	2	2.52
(1,227)	1:A:11:DC:H6	1:A:12:DG:H8	5	2.52
(1,219)	1:A:7:DG:H8	1:A:8:DA:H8	3	2.52
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	1	2.51
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	10	2.51
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	6	2.51
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	9	2.5
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	7	2.5
(1,167)	1:A:5:DT:H3'	1:A:6:DC:H6	5	2.5
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	8	2.5
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	8	2.5
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	6	2.49
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	1	2.49
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	1	2.49
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	10	2.49
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	10	2.49
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	2	2.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	8	2.48
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	4	2.47
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	1	2.47
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	10	2.47
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	3	2.47
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	3	2.47
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	3	2.47
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	7	2.46
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	3	2.46
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	7	2.46
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	6	2.46
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	9	2.46
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	2	2.45
(1,326)	1:B:16:DG:H21	1:B:17:DT:H71	6	2.43
(1,326)	1:B:16:DG:H21	1:B:17:DT:H72	6	2.43
(1,326)	1:B:16:DG:H21	1:B:17:DT:H73	6	2.43
(1,326)	1:B:16:DG:H22	1:B:17:DT:H71	6	2.43
(1,326)	1:B:16:DG:H22	1:B:17:DT:H72	6	2.43
(1,326)	1:B:16:DG:H22	1:B:17:DT:H73	6	2.43
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	3	2.43
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	3	2.43
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	5	2.42
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	2	2.42
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	9	2.42
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	6	2.41
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	9	2.41
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	1	2.4
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	10	2.4
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	5	2.4
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	5	2.4
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	6	2.4
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	6	2.4
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	1	2.39
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	10	2.39
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	6	2.39
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	6	2.38
(1,217)	1:A:6:DC:H6	1:A:7:DG:H8	5	2.38
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	7	2.38
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	7	2.38
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	6	2.37
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	4	2.37
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	4	2.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	8	2.37
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	4	2.36
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	4	2.36
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	6	2.35
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	6	2.35
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	7	2.35
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	8	2.35
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	6	2.34
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	5	2.34
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	9	2.34
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	7	2.34
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	9	2.33
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	9	2.33
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	1	2.33
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	1	2.33
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	10	2.33
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	10	2.33
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	1	2.32
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	1	2.32
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	10	2.32
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	10	2.32
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	4	2.31
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	7	2.31
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	2	2.31
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	8	2.31
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	9	2.31
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	8	2.31
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	9	2.31
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	4	2.31
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	7	2.3
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	6	2.3
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	3	2.3
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	3	2.3
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	8	2.29
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	8	2.29
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	4	2.28
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	6	2.28
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	8	2.28
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	8	2.28
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	3	2.27
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	4	2.27
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	8	2.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	5	2.27
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	5	2.27
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	8	2.26
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	5	2.26
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	5	2.25
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	1	2.25
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	10	2.25
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	3	2.25
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	9	2.25
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	6	2.25
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	1	2.24
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	3	2.24
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	10	2.24
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	5	2.24
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	5	2.24
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	2	2.24
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	4	2.23
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	9	2.22
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	8	2.22
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	2	2.22
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	1	2.22
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	10	2.22
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	1	2.22
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	10	2.22
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	7	2.21
(1,218)	1:B:18:DC:H6	1:B:19:DG:H8	9	2.21
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	8	2.21
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	9	2.2
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	3	2.2
(1,225)	1:A:10:DG:H8	1:A:11:DC:H6	8	2.2
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	9	2.2
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	7	2.2
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	2	2.2
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	6	2.2
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	3	2.19
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	8	2.19
(1,193)	1:A:7:DG:H4'	1:A:8:DA:H8	7	2.19
(1,186)	1:B:16:DG:H4'	1:B:17:DT:H6	8	2.19
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	7	2.19
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	6	2.19
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	7	2.19
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	3	2.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	3	2.18
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	6	2.17
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	5	2.17
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	2	2.17
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	5	2.17
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	9	2.17
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	4	2.17
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	4	2.17
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	5	2.16
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	2	2.16
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	1	2.16
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	7	2.16
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	10	2.16
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	4	2.16
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	7	2.16
(1,211)	1:A:3:DC:H6	1:A:4:DG:H8	4	2.16
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	2	2.16
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	1	2.16
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	10	2.16
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	1	2.15
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	8	2.15
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	10	2.15
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	8	2.15
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	1	2.14
(1,228)	1:B:23:DC:H6	1:B:24:DG:H8	10	2.14
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	1	2.14
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	10	2.14
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	9	2.14
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	4	2.14
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	8	2.14
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	8	2.13
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	4	2.13
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	1	2.13
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	10	2.13
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	2	2.12
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	8	2.12
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	4	2.12
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	9	2.12
(1,125)	1:A:7:DG:H21	1:A:8:DA:H8	9	2.12
(1,125)	1:A:7:DG:H22	1:A:8:DA:H8	9	2.12
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	8	2.11
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	6	2.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	8	2.11
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	6	2.11
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	4	2.11
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	1	2.1
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	10	2.1
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	1	2.1
(1,295)	1:A:1:DC:H41	1:B:24:DG:H1	10	2.1
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	7	2.1
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	3	2.1
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	1	2.1
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	10	2.1
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	8	2.1
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	5	2.1
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	8	2.1
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	8	2.09
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	2	2.09
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	5	2.09
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	5	2.09
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	8	2.09
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	6	2.09
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	5	2.09
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	7	2.08
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	3	2.08
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	9	2.08
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	1	2.08
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	7	2.08
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	10	2.08
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	3	2.08
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	5	2.08
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	5	2.08
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	1	2.08
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	10	2.08
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	6	2.07
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	4	2.07
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	1	2.07
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	10	2.07
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	7	2.07
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	6	2.07
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	7	2.07
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	3	2.06
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	1	2.06
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	10	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	3	2.06
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	5	2.06
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	3	2.06
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	1	2.06
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	10	2.06
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	5	2.06
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	4	2.06
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	6	2.06
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	2	2.06
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	1	2.05
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	1	2.05
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	1	2.05
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	10	2.05
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	10	2.05
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	10	2.05
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	6	2.05
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	1	2.05
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	10	2.05
(1,157)	1:A:12:DG:H8	1:A:12:DG:H3'	5	2.05
(1,119)	1:A:4:DG:H21	1:A:5:DT:H6	2	2.05
(1,119)	1:A:4:DG:H22	1:A:5:DT:H6	2	2.05
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	5	2.04
(1,187)	1:A:5:DT:H6	1:A:5:DT:H4'	7	2.04
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	9	2.04
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	1	2.03
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	10	2.03
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	3	2.03
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	2	2.03
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	8	2.03
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	9	2.03
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	2	2.03
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	3	2.03
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	4	2.03
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	2	2.02
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	4	2.02
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	4	2.02
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	4	2.02
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	4	2.02
(1,226)	1:B:22:DG:H8	1:B:23:DC:H6	9	2.02
(1,223)	1:A:9:DC:H6	1:A:10:DG:H8	8	2.02
(1,214)	1:B:16:DG:H8	1:B:17:DT:H6	3	2.02
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	7	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	2	2.02
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	4	2.02
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	9	2.02
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	9	2.02
(1,158)	1:B:24:DG:H8	1:B:24:DG:H3'	3	2.02
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	6	2.01
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	9	2.01
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	7	2.01
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	2	2.01
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	3	2.01
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	3	2.01
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	3	2.0
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	7	2.0
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	8	2.0
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	3	2.0
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	4	2.0
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	8	1.99
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	7	1.99
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	4	1.98
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	9	1.98
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	9	1.98
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	9	1.98
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	4	1.98
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	6	1.98
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	7	1.97
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	1	1.97
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	10	1.97
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	6	1.97
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	6	1.97
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	1	1.97
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	10	1.97
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	8	1.97
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	4	1.96
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	5	1.96
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	9	1.96
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	9	1.96
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	5	1.96
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	6	1.96
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	5	1.96
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	1	1.96
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	3	1.96
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	10	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	3	1.96
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	1	1.96
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	10	1.96
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	8	1.96
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	1	1.95
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	10	1.95
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	8	1.95
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	4	1.95
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	8	1.95
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	9	1.95
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	8	1.95
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	2	1.95
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	5	1.95
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	8	1.95
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	7	1.94
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	2	1.94
(1,213)	1:A:4:DG:H8	1:A:5:DT:H6	9	1.94
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	9	1.94
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	7	1.94
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	6	1.94
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	6	1.94
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	8	1.93
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	2	1.93
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	3	1.93
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	7	1.93
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	6	1.93
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	2	1.93
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	2	1.93
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	9	1.92
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	8	1.92
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	2	1.92
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	7	1.92
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	4	1.92
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	2	1.91
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	9	1.91
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	2	1.91
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	1	1.91
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	10	1.91
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	7	1.91
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	6	1.91
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	1	1.91
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	10	1.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	4	1.91
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	3	1.91
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	2	1.91
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	5	1.91
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	7	1.91
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	6	1.9
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	6	1.9
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	6	1.9
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	6	1.9
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	3	1.9
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	2	1.9
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	3	1.89
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	7	1.89
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	2	1.89
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	5	1.89
(1,222)	1:B:20:DA:H8	1:B:21:DC:H6	3	1.89
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	7	1.89
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	1	1.89
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	10	1.89
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	8	1.89
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	4	1.89
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	4	1.89
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	9	1.89
(1,171)	1:A:9:DC:H3'	1:A:10:DG:H8	6	1.89
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	2	1.89
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	1	1.88
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	10	1.88
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	4	1.88
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	2	1.88
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	2	1.88
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	2	1.88
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	9	1.88
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	7	1.88
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	4	1.88
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	3	1.88
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	5	1.88
(1,87)	1:A:10:DG:H2'	1:A:11:DC:H6	6	1.87
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	8	1.87
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	2	1.87
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	4	1.87
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	3	1.87
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	2	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	8	1.87
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	6	1.87
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	9	1.87
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	6	1.87
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	1	1.87
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	3	1.87
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	10	1.87
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	2	1.87
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	6	1.86
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	4	1.86
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	9	1.86
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	6	1.86
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	3	1.86
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	1	1.86
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	4	1.86
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	10	1.86
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	6	1.86
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	5	1.86
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	2	1.86
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	4	1.85
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	1	1.85
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	10	1.85
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	2	1.85
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	5	1.85
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	7	1.85
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	6	1.85
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	9	1.85
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	4	1.85
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	8	1.85
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	4	1.85
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	8	1.84
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	2	1.84
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	7	1.84
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	5	1.84
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	2	1.84
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	5	1.84
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	4	1.84
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	7	1.84
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	8	1.84
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	1	1.84
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	10	1.84
(1,153)	1:A:10:DG:H8	1:A:10:DG:H3'	6	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	3	1.84
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	8	1.84
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	9	1.83
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	5	1.83
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	5	1.83
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	2	1.83
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	3	1.83
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	2	1.83
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	2	1.83
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	5	1.83
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	4	1.83
(1,154)	1:B:22:DG:H8	1:B:22:DG:H3'	5	1.83
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	5	1.83
(1,286)	1:B:20:DA:H1'	1:B:21:DC:H1'	8	1.82
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	4	1.82
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	3	1.82
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	4	1.82
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	1	1.82
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	10	1.82
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	5	1.82
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	2	1.82
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	5	1.82
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	4	1.82
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	4	1.82
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	2	1.82
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	5	1.82
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	9	1.82
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	1	1.81
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	6	1.81
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	10	1.81
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	5	1.81
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	3	1.81
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	8	1.81
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	8	1.81
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	8	1.81
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	3	1.81
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	5	1.81
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	8	1.81
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	2	1.81
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	1	1.81
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	10	1.81
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	1	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	10	1.81
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	1	1.81
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	10	1.81
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	7	1.8
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	1	1.8
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	1	1.8
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	1	1.8
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	10	1.8
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	10	1.8
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	10	1.8
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	6	1.8
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	5	1.8
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	9	1.8
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	3	1.8
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	8	1.8
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	1	1.8
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	10	1.8
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	5	1.8
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	2	1.79
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	5	1.79
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	4	1.79
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	7	1.79
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	2	1.79
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	1	1.79
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	10	1.79
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	7	1.79
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	9	1.79
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	3	1.79
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	5	1.79
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	3	1.79
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	9	1.79
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	7	1.79
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	5	1.79
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	9	1.79
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	9	1.79
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	3	1.78
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	2	1.78
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	3	1.78
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	5	1.78
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	5	1.78
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	3	1.78
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	4	1.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	2	1.78
(1,188)	1:B:17:DT:H6	1:B:17:DT:H4'	6	1.78
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	6	1.78
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	6	1.78
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	9	1.78
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	2	1.78
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	7	1.78
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	3	1.78
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	6	1.78
(1,120)	1:B:16:DG:H21	1:B:17:DT:H6	6	1.78
(1,120)	1:B:16:DG:H22	1:B:17:DT:H6	6	1.78
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	6	1.77
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	5	1.77
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	5	1.77
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	5	1.77
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	5	1.77
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	6	1.77
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	6	1.77
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	6	1.77
(1,306)	1:B:16:DG:H1	1:A:8:DA:H2	9	1.77
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	2	1.77
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	9	1.77
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	1	1.77
(1,212)	1:B:15:DC:H6	1:B:16:DG:H8	10	1.77
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	7	1.77
(1,209)	1:A:2:DG:H8	1:A:3:DC:H6	5	1.77
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	4	1.77
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	6	1.77
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	4	1.77
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	6	1.77
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	4	1.77
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	1	1.77
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	10	1.77
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	8	1.77
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	1	1.77
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	10	1.77
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	6	1.77
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	2	1.76
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	7	1.76
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	7	1.76
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	7	1.76
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	3	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,88)	1:B:22:DG:H2'	1:B:23:DC:H6	5	1.75
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	2	1.75
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	2	1.75
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	6	1.75
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	9	1.75
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	3	1.75
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	8	1.75
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	9	1.75
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	1	1.75
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	10	1.75
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	2	1.75
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	4	1.74
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	1	1.74
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	10	1.74
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	2	1.74
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	4	1.74
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	5	1.74
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	9	1.74
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	9	1.74
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	9	1.74
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	2	1.74
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	2	1.74
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	2	1.74
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	3	1.74
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	5	1.74
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	1	1.74
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	10	1.74
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	9	1.74
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	2	1.74
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	6	1.74
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	9	1.74
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	2	1.74
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	2	1.74
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	2	1.74
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	6	1.73
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	7	1.73
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	9	1.73
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	1	1.73
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	6	1.73
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	10	1.73
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	4	1.73
(1,205)	1:A:12:DG:H8	1:A:12:DG:H4'	7	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	7	1.73
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	1	1.73
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	10	1.73
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	8	1.73
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	1	1.73
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	10	1.73
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	8	1.73
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	2	1.73
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	9	1.73
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	9	1.73
(1,38)	1:B:20:DA:H1'	1:B:21:DC:H6	8	1.72
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	2	1.72
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	9	1.72
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	4	1.72
(1,202)	1:B:22:DG:H8	1:B:22:DG:H4'	8	1.72
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	1	1.72
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	3	1.72
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	10	1.72
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	7	1.72
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	3	1.72
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	5	1.72
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	7	1.72
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	7	1.72
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	2	1.72
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	1	1.72
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	10	1.72
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	3	1.72
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	3	1.71
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	9	1.71
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	3	1.71
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	7	1.71
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	4	1.71
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	6	1.71
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	3	1.71
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	8	1.71
(1,180)	1:B:14:DG:H8	1:B:14:DG:H4'	7	1.71
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	7	1.71
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	7	1.71
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	7	1.7
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	7	1.7
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	7	1.7
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	1	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	10	1.7
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	5	1.7
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	4	1.7
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	5	1.7
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	5	1.7
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	8	1.7
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	4	1.7
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	1	1.7
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	10	1.7
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	5	1.7
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	5	1.69
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	9	1.69
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	8	1.69
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	4	1.69
(1,224)	1:B:21:DC:H6	1:B:22:DG:H8	6	1.69
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	1	1.69
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	10	1.69
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	7	1.69
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	3	1.69
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	2	1.69
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	4	1.69
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	5	1.68
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	8	1.68
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	7	1.68
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	1	1.68
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	10	1.68
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	6	1.68
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	2	1.68
(1,183)	1:A:4:DG:H8	1:A:4:DG:H4'	4	1.68
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	2	1.68
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	6	1.68
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	1	1.68
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	10	1.68
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	6	1.68
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	4	1.68
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	6	1.68
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	4	1.67
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	1	1.67
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	1	1.67
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	1	1.67
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	10	1.67
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	10	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	10	1.67
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	5	1.67
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	2	1.67
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	9	1.67
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	1	1.67
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	3	1.67
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	10	1.67
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	4	1.67
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	1	1.67
(1,184)	1:B:16:DG:H8	1:B:16:DG:H4'	10	1.67
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	8	1.67
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	3	1.67
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	4	1.67
(1,141)	1:A:4:DG:H8	1:A:4:DG:H3'	3	1.67
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	8	1.66
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	9	1.66
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	9	1.66
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	5	1.66
(1,172)	1:B:21:DC:H3'	1:B:22:DG:H8	4	1.66
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	4	1.66
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	5	1.66
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	7	1.66
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	6	1.66
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	3	1.66
(1,81)	1:A:7:DG:H2'	1:A:8:DA:H8	3	1.65
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	7	1.65
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	2	1.65
(1,206)	1:B:24:DG:H8	1:B:24:DG:H4'	7	1.65
(1,200)	1:B:21:DC:H6	1:B:21:DC:H4'	5	1.65
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	7	1.65
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	5	1.65
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	3	1.65
(1,179)	1:A:2:DG:H8	1:A:2:DG:H4'	8	1.65
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	9	1.65
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	2	1.65
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	5	1.65
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	6	1.65
(1,138)	1:B:14:DG:H8	1:B:14:DG:H3'	9	1.65
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	1	1.64
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	10	1.64
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	5	1.64
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	7	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	1	1.64
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	10	1.64
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	3	1.64
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	5	1.64
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	4	1.64
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	5	1.64
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	7	1.64
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	9	1.63
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	3	1.63
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	9	1.63
(1,201)	1:A:10:DG:H8	1:A:10:DG:H4'	2	1.63
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	5	1.63
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	1	1.63
(1,192)	1:B:19:DG:H8	1:B:19:DG:H4'	10	1.63
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	4	1.63
(1,190)	1:B:18:DC:H6	1:B:18:DC:H4'	5	1.63
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	9	1.63
(1,139)	1:A:3:DC:H6	1:A:3:DC:H3'	7	1.63
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	7	1.62
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	3	1.62
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	8	1.62
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	3	1.62
(1,229)	1:A:5:DT:H1'	1:B:20:DA:H2	8	1.62
(1,195)	1:A:8:DA:H8	1:A:8:DA:H4'	9	1.62
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	4	1.62
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	1	1.62
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	10	1.62
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	4	1.62
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	3	1.62
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	1	1.62
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	10	1.62
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	3	1.61
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	3	1.61
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	6	1.61
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	6	1.61
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	2	1.61
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	9	1.61
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	3	1.61
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	1	1.61
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	10	1.61
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	2	1.61
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	5	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	6	1.61
(1,189)	1:A:6:DC:H6	1:A:6:DC:H4'	8	1.61
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	6	1.61
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	2	1.61
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	6	1.61
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	8	1.61
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	9	1.6
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	9	1.6
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	9	1.6
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	9	1.6
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	5	1.6
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	1	1.6
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	10	1.6
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	8	1.6
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	3	1.6
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	8	1.6
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	9	1.6
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	9	1.6
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	3	1.6
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	2	1.59
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	6	1.59
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	7	1.59
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	9	1.59
(1,221)	1:A:8:DA:H8	1:A:9:DC:H6	2	1.59
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	5	1.59
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	3	1.59
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	9	1.59
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	3	1.59
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	6	1.59
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	9	1.58
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	3	1.58
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	2	1.58
(1,181)	1:A:3:DC:H6	1:A:3:DC:H4'	7	1.58
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	4	1.58
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	7	1.58
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	7	1.58
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	2	1.58
(1,82)	1:B:19:DG:H2'	1:B:20:DA:H8	6	1.57
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	3	1.57
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	3	1.57
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	3	1.57
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	2	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	8	1.57
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	1	1.57
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	10	1.57
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	5	1.57
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	1	1.57
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	10	1.57
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	3	1.57
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	8	1.57
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	8	1.57
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	9	1.56
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	7	1.56
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	6	1.56
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	8	1.56
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	3	1.56
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	7	1.56
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	6	1.56
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	3	1.56
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	6	1.56
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	2	1.56
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	8	1.56
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	2	1.56
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	7	1.55
(1,256)	1:B:20:DA:H1'	1:B:21:DC:H5	7	1.55
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	8	1.55
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	6	1.55
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	3	1.55
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	4	1.55
(1,199)	1:A:9:DC:H6	1:A:9:DC:H4'	7	1.55
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	9	1.55
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	1	1.55
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	10	1.55
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	3	1.55
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	8	1.55
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	7	1.55
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	9	1.55
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	6	1.54
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	6	1.54
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	6	1.54
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	6	1.54
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	5	1.54
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	2	1.54
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	4	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	8	1.54
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	1	1.54
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	8	1.54
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	10	1.54
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	1	1.54
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	10	1.54
(1,191)	1:A:7:DG:H8	1:A:7:DG:H4'	5	1.54
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	8	1.54
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	2	1.54
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	1	1.54
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	10	1.54
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	4	1.53
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	8	1.53
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	1	1.53
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	10	1.53
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	5	1.53
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	6	1.53
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	7	1.53
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	4	1.53
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	5	1.53
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	1	1.53
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	10	1.53
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	4	1.53
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	5	1.53
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	7	1.53
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	5	1.53
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	6	1.53
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	3	1.53
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	7	1.52
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	4	1.52
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	6	1.52
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	7	1.52
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	5	1.52
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	6	1.52
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	8	1.52
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	5	1.52
(1,150)	1:B:20:DA:H8	1:B:20:DA:H3'	9	1.52
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	9	1.52
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	9	1.52
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	1	1.52
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	10	1.52
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	6	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	1	1.51
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	10	1.51
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	2	1.51
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	8	1.51
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	1	1.51
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	10	1.51
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	3	1.51
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	7	1.51
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	1	1.51
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	10	1.51
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	4	1.51
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	3	1.51
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	5	1.51
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	5	1.51
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	9	1.51
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	7	1.51
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	9	1.51
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	3	1.5
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	2	1.5
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	8	1.5
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	8	1.5
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	8	1.5
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	9	1.5
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	1	1.5
(1,285)	1:A:8:DA:H1'	1:A:9:DC:H1'	10	1.5
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	1	1.5
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	6	1.5
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	10	1.5
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	7	1.5
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	9	1.5
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	2	1.5
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	9	1.5
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	1	1.5
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	10	1.5
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	2	1.5
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	7	1.5
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	2	1.5
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	4	1.5
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	3	1.5
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	3	1.5
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	7	1.5
(1,33)	1:A:6:DC:H1'	1:A:7:DG:H8	6	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	3	1.49
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	3	1.49
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	4	1.49
(1,230)	1:B:17:DT:H1'	1:A:8:DA:H2	9	1.49
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	4	1.49
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	6	1.49
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	7	1.49
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	5	1.49
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	3	1.49
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	4	1.49
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	9	1.49
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	9	1.49
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	5	1.49
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	7	1.48
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	1	1.48
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	6	1.48
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	10	1.48
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	9	1.48
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	4	1.48
(1,293)	1:A:1:DC:H42	1:B:24:DG:H1	2	1.48
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	3	1.48
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	7	1.48
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	8	1.48
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	8	1.48
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	8	1.48
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	6	1.48
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	8	1.48
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	4	1.48
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	4	1.47
(1,299)	1:A:2:DG:H1	1:A:1:DC:H41	5	1.47
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	1	1.47
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	10	1.47
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	3	1.47
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	3	1.47
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	4	1.47
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	4	1.47
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	6	1.47
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	4	1.47
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	5	1.47
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	5	1.47
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	5	1.47
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	7	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,14)	1:B:19:DG:H1'	1:B:19:DG:H8	2	1.47
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	4	1.47
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	6	1.47
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	8	1.47
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	3	1.46
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	7	1.46
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	2	1.46
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	8	1.46
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	4	1.46
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	5	1.46
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	8	1.46
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	4	1.46
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	4	1.46
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	2	1.46
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	6	1.46
(1,174)	1:B:22:DG:H3'	1:B:23:DC:H6	7	1.46
(1,155)	1:A:11:DC:H6	1:A:11:DC:H3'	2	1.46
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	2	1.45
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	6	1.45
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	9	1.45
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	1	1.45
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	10	1.45
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	1	1.45
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	10	1.45
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	8	1.45
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	6	1.45
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	4	1.45
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	9	1.45
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	5	1.45
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	8	1.45
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	4	1.45
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	5	1.45
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	7	1.45
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	7	1.45
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	9	1.45
(1,156)	1:B:23:DC:H6	1:B:23:DC:H3'	3	1.45
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	8	1.45
(1,144)	1:B:17:DT:H6	1:B:17:DT:H3'	6	1.45
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	1	1.45
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	10	1.45
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	7	1.45
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	2	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	2	1.44
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	2	1.44
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	6	1.44
(1,298)	1:B:14:DG:H1	1:B:13:DC:H42	9	1.44
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	1	1.44
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	9	1.44
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	10	1.44
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	8	1.44
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	9	1.44
(1,207)	1:A:1:DC:H6	1:A:2:DG:H8	4	1.44
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	3	1.44
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	2	1.44
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	9	1.44
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	3	1.44
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	6	1.44
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	8	1.44
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	8	1.43
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	8	1.43
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	2	1.43
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	4	1.43
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	8	1.43
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	9	1.43
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	7	1.43
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	3	1.43
(1,13)	1:A:7:DG:H1'	1:A:7:DG:H8	4	1.43
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	1	1.42
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	6	1.42
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	10	1.42
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	8	1.42
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	8	1.42
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	8	1.42
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	7	1.42
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	6	1.42
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	4	1.42
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	9	1.42
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	4	1.42
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	1	1.42
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	10	1.42
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	2	1.42
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	8	1.42
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	4	1.42
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	6	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	6	1.42
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	8	1.42
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	1	1.41
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	10	1.41
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	5	1.41
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	4	1.41
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	4	1.41
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	4	1.41
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	5	1.41
(1,23)	1:A:12:DG:H1'	1:A:12:DG:H8	8	1.41
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	9	1.41
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	1	1.41
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	10	1.41
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	2	1.41
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	1	1.41
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	10	1.41
(1,149)	1:A:8:DA:H8	1:A:8:DA:H3'	9	1.41
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	5	1.4
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	3	1.4
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	4	1.4
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	7	1.4
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	7	1.4
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	7	1.4
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	7	1.4
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	2	1.4
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	9	1.4
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	9	1.4
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	2	1.4
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	3	1.4
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	1	1.4
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	10	1.4
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	9	1.4
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	1	1.4
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	10	1.4
(1,2)	1:B:13:DC:H1'	1:B:13:DC:H6	3	1.4
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	6	1.4
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	6	1.4
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	1	1.39
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	10	1.39
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	4	1.39
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	6	1.39
(1,36)	1:B:19:DG:H1'	1:B:20:DA:H8	7	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	8	1.39
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	8	1.39
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	8	1.39
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	1	1.39
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	6	1.39
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	10	1.39
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	4	1.39
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	9	1.39
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	1	1.39
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	3	1.39
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	10	1.39
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	2	1.39
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	8	1.39
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	4	1.39
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	3	1.39
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	2	1.39
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	9	1.39
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	6	1.39
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	7	1.39
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	3	1.38
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	1	1.38
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	10	1.38
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	1	1.38
(1,34)	1:B:18:DC:H1'	1:B:19:DG:H8	10	1.38
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H71	3	1.38
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H72	3	1.38
(1,321)	1:A:4:DG:H1'	1:A:5:DT:H73	3	1.38
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	7	1.38
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	7	1.38
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	7	1.38
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	2	1.38
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	2	1.38
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	2	1.38
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	5	1.38
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	1	1.38
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	10	1.38
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	7	1.38
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	6	1.38
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	6	1.38
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	4	1.38
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	4	1.38
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	4	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	2	1.37
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	6	1.37
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	2	1.37
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	8	1.37
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	3	1.37
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	9	1.37
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	7	1.37
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	4	1.37
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	1	1.37
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	10	1.37
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	6	1.37
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	5	1.37
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	7	1.37
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	9	1.37
(1,182)	1:B:15:DC:H6	1:B:15:DC:H4'	8	1.37
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	2	1.37
(1,173)	1:A:10:DG:H3'	1:A:11:DC:H6	4	1.37
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	8	1.37
(1,137)	1:A:2:DG:H8	1:A:2:DG:H3'	5	1.37
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	1	1.37
(1,1)	1:A:1:DC:H1'	1:A:1:DC:H6	10	1.37
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	2	1.36
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	7	1.36
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	1	1.36
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	10	1.36
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	2	1.36
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	4	1.36
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	8	1.36
(1,203)	1:A:11:DC:H6	1:A:11:DC:H4'	5	1.36
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	7	1.36
(1,143)	1:A:5:DT:H6	1:A:5:DT:H3'	4	1.36
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	8	1.36
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	5	1.35
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	5	1.35
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	5	1.35
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	5	1.35
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	7	1.35
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	5	1.35
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	7	1.35
(1,204)	1:B:23:DC:H6	1:B:23:DC:H4'	2	1.35
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	5	1.35
(1,15)	1:A:8:DA:H1'	1:A:8:DA:H8	7	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	7	1.34
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	1	1.34
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	10	1.34
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	3	1.34
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	3	1.34
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	3	1.34
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	6	1.34
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	1	1.34
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	10	1.34
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	3	1.34
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	9	1.34
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	8	1.34
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	2	1.34
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	9	1.34
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	5	1.33
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	1	1.33
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	10	1.33
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	7	1.33
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	5	1.33
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	1	1.33
(1,147)	1:A:7:DG:H8	1:A:7:DG:H3'	10	1.33
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	1	1.33
(1,142)	1:B:16:DG:H8	1:B:16:DG:H3'	10	1.33
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	3	1.32
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	9	1.32
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	8	1.32
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	8	1.32
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	2	1.32
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	6	1.32
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	7	1.32
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	7	1.32
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	7	1.32
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	7	1.32
(1,3)	1:A:2:DG:H1'	1:A:2:DG:H8	9	1.32
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	6	1.32
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	9	1.32
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	2	1.32
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	5	1.31
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	5	1.31
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	7	1.31
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	1	1.31
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	1	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	1	1.31
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	10	1.31
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	10	1.31
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	10	1.31
(1,24)	1:B:24:DG:H1'	1:B:24:DG:H8	4	1.31
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	1	1.31
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	10	1.31
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	1	1.31
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	10	1.31
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	4	1.31
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	9	1.31
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	9	1.31
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	6	1.31
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	8	1.3
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	9	1.3
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	3	1.3
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	5	1.3
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	3	1.3
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	6	1.3
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	2	1.3
(1,196)	1:B:20:DA:H8	1:B:20:DA:H4'	3	1.3
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	2	1.3
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	7	1.3
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	7	1.3
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	1	1.3
(1,16)	1:B:20:DA:H1'	1:B:20:DA:H8	10	1.3
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	4	1.3
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	5	1.3
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	4	1.29
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	4	1.29
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	4	1.29
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	5	1.29
(1,311)	1:A:6:DC:H42	1:B:19:DG:H1	5	1.29
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	3	1.29
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	8	1.29
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	5	1.29
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	1	1.29
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	10	1.29
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	4	1.28
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	6	1.28
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	8	1.28
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	8	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	8	1.28
(1,4)	1:B:14:DG:H1'	1:B:14:DG:H8	4	1.28
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	1	1.28
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	10	1.28
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	4	1.28
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	3	1.28
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	6	1.28
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	2	1.28
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	6	1.27
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	8	1.27
(1,77)	1:A:5:DT:H2'	1:A:6:DC:H6	7	1.27
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	8	1.27
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	4	1.26
(1,312)	1:B:18:DC:H42	1:A:7:DG:H1	8	1.26
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	1	1.26
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	10	1.26
(1,210)	1:B:14:DG:H8	1:B:15:DC:H6	9	1.26
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	5	1.26
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	5	1.26
(1,152)	1:B:21:DC:H6	1:B:21:DC:H3'	2	1.26
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	9	1.25
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	2	1.25
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	1	1.25
(1,240)	1:B:13:DC:H5	1:B:13:DC:H2'	10	1.25
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	2	1.25
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	4	1.25
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	3	1.25
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	3	1.25
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	7	1.25
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	4	1.25
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	1	1.24
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	10	1.24
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	2	1.24
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	8	1.24
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	9	1.24
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	2	1.24
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	4	1.24
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	7	1.24
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	5	1.24
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	1	1.24
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	10	1.24
(1,208)	1:B:13:DC:H6	1:B:14:DG:H8	5	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	8	1.24
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	7	1.24
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	7	1.24
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	2	1.24
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	1	1.24
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	10	1.24
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	3	1.23
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	8	1.23
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	6	1.23
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	8	1.23
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	5	1.23
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	5	1.23
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	4	1.23
(1,78)	1:B:17:DT:H2'	1:B:18:DC:H6	7	1.22
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	7	1.22
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	8	1.22
(1,299)	1:A:2:DG:H1	1:A:1:DC:H41	4	1.22
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	6	1.22
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	9	1.22
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	7	1.22
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	1	1.22
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	10	1.22
(1,151)	1:A:9:DC:H6	1:A:9:DC:H3'	8	1.22
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	9	1.21
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	1	1.21
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	4	1.21
(1,8)	1:B:16:DG:H1'	1:B:16:DG:H8	10	1.21
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	3	1.21
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	1	1.21
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	5	1.21
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	10	1.21
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	6	1.21
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	6	1.21
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	6	1.21
(1,294)	1:B:13:DC:H42	1:A:12:DG:H1	2	1.21
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	9	1.21
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	2	1.21
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	1	1.21
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	10	1.21
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	1	1.21
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	10	1.21
(1,136)	1:B:13:DC:H6	1:B:13:DC:H3'	7	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	2	1.21
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	4	1.2
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	1	1.2
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	10	1.2
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	7	1.2
(1,7)	1:A:4:DG:H1'	1:A:4:DG:H8	8	1.2
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	4	1.2
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	9	1.2
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	7	1.2
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	2	1.2
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	5	1.19
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	4	1.19
(1,241)	1:A:1:DC:H5	1:A:1:DC:H3'	2	1.19
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	7	1.19
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	1	1.19
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	10	1.19
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	8	1.18
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	5	1.18
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	5	1.18
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	5	1.18
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	9	1.18
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	9	1.18
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	9	1.18
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	1	1.18
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	10	1.18
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	5	1.18
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	6	1.18
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	7	1.18
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	7	1.18
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	6	1.18
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	3	1.18
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	9	1.18
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	8	1.17
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	1	1.17
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	10	1.17
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	4	1.17
(1,5)	1:A:3:DC:H1'	1:A:3:DC:H6	6	1.17
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	8	1.17
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	6	1.17
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	2	1.17
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	2	1.17
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	9	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	7	1.17
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	8	1.17
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	2	1.16
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	5	1.16
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	9	1.16
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	1	1.16
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	5	1.16
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	10	1.16
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	4	1.16
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	7	1.16
(1,239)	1:A:1:DC:H5	1:A:1:DC:H2'	9	1.16
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	4	1.16
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	4	1.16
(1,175)	1:A:11:DC:H3'	1:A:12:DG:H8	9	1.16
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	7	1.16
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	5	1.16
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	7	1.16
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	9	1.15
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	2	1.15
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	2	1.15
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	3	1.15
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	6	1.15
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	6	1.15
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	3	1.15
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	8	1.15
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	6	1.15
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	2	1.15
(1,20)	1:B:22:DG:H1'	1:B:22:DG:H8	8	1.15
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	4	1.15
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	8	1.15
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	6	1.14
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	1	1.14
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	10	1.14
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	3	1.14
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	3	1.14
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	6	1.14
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	8	1.14
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	1	1.14
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	10	1.14
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	1	1.14
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	10	1.14
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	9	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	3	1.13
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	6	1.13
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	6	1.13
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	6	1.13
(1,299)	1:A:2:DG:H1	1:A:1:DC:H41	9	1.13
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	6	1.13
(1,242)	1:B:13:DC:H5	1:B:13:DC:H3'	7	1.13
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	5	1.13
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	4	1.13
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	9	1.13
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	2	1.13
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	5	1.13
(1,148)	1:B:19:DG:H8	1:B:19:DG:H3'	6	1.13
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	3	1.12
(1,6)	1:B:15:DC:H1'	1:B:15:DC:H6	9	1.12
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	1	1.12
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	3	1.12
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	10	1.12
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	1	1.12
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	10	1.12
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	9	1.12
(1,255)	1:A:8:DA:H1'	1:A:9:DC:H5	7	1.12
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	3	1.12
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	1	1.12
(1,19)	1:A:10:DG:H1'	1:A:10:DG:H8	10	1.12
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	6	1.12
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	8	1.12
(1,135)	1:A:1:DC:H6	1:A:1:DC:H3'	6	1.12
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	4	1.11
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	5	1.11
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	9	1.11
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	9	1.11
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	1	1.11
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	10	1.11
(1,30)	1:B:15:DC:H1'	1:B:16:DG:H8	7	1.11
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	8	1.11
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	1	1.11
(1,166)	1:B:16:DG:H3'	1:B:17:DT:H6	10	1.11
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	6	1.11
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	6	1.1
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	3	1.1
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	9	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	9	1.1
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	9	1.1
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	2	1.1
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	4	1.1
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	9	1.1
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	5	1.1
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	5	1.1
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	5	1.1
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	9	1.1
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	9	1.1
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	3	1.1
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	8	1.09
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	5	1.09
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	1	1.09
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	10	1.09
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	5	1.09
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	3	1.09
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	3	1.09
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	3	1.09
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	5	1.09
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	5	1.09
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	5	1.09
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	5	1.09
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	4	1.09
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	2	1.09
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	1	1.09
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	10	1.09
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	6	1.09
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	4	1.09
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	3	1.09
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	7	1.09
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	1	1.09
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	10	1.09
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	3	1.09
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	5	1.08
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	6	1.08
(1,319)	1:A:6:DC:H41	1:A:5:DT:H71	8	1.08
(1,319)	1:A:6:DC:H41	1:A:5:DT:H72	8	1.08
(1,319)	1:A:6:DC:H41	1:A:5:DT:H73	8	1.08
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	9	1.08
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	5	1.08
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	6	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	8	1.08
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	7	1.08
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	2	1.08
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	2	1.08
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	6	1.08
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	1	1.08
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	10	1.08
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	2	1.08
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	7	1.07
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	1	1.07
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	3	1.07
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	10	1.07
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	9	1.07
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	6	1.07
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	9	1.07
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	1	1.07
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	10	1.07
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	4	1.07
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	8	1.07
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	9	1.07
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	4	1.07
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	3	1.06
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	6	1.06
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	7	1.06
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	9	1.06
(1,305)	1:A:4:DG:H1	1:B:20:DA:H2	8	1.06
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	5	1.06
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	3	1.06
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	2	1.06
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	6	1.06
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	2	1.06
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	3	1.06
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	4	1.05
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	4	1.05
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	8	1.05
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	6	1.05
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	2	1.05
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	3	1.05
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	2	1.05
(1,232)	1:B:20:DA:H2	1:B:21:DC:H1'	8	1.05
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	8	1.05
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	2	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	7	1.05
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	8	1.05
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	5	1.05
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	9	1.05
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	5	1.05
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	2	1.04
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	8	1.04
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	9	1.04
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	4	1.04
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	1	1.04
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	9	1.04
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	10	1.04
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	6	1.04
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	1	1.04
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	5	1.04
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	10	1.04
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	3	1.04
(1,10)	1:B:17:DT:H1'	1:B:17:DT:H6	6	1.04
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	2	1.03
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	3	1.03
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	2	1.03
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	2	1.03
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	8	1.03
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	4	1.03
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	9	1.03
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	5	1.03
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	4	1.03
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	7	1.02
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	6	1.02
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	8	1.02
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	2	1.02
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	1	1.02
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	10	1.02
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	4	1.02
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	4	1.02
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	9	1.02
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	4	1.02
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	7	1.02
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	1	1.02
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	2	1.02
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	10	1.02
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	7	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	9	1.02
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	2	1.02
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	4	1.02
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	4	1.02
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	1	1.02
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	10	1.02
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	1	1.01
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	10	1.01
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	2	1.01
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	8	1.01
(1,85)	1:A:9:DC:H2'	1:A:10:DG:H8	7	1.01
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	3	1.01
(1,292)	1:B:17:DT:H3	1:A:7:DG:H1	6	1.01
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	5	1.01
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	3	1.01
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	7	1.01
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	5	1.01
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	6	1.01
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	3	1.01
(1,73)	1:A:3:DC:H2'	1:A:4:DG:H8	7	1.0
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H71	4	1.0
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H72	4	1.0
(1,322)	1:B:16:DG:H1'	1:B:17:DT:H73	4	1.0
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	7	1.0
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	3	1.0
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	3	1.0
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	1	0.99
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	10	0.99
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	5	0.99
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	7	0.99
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	4	0.99
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	1	0.99
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	10	0.99
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	2	0.99
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	8	0.99
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	1	0.99
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	10	0.99
(1,165)	1:A:4:DG:H3'	1:A:5:DT:H6	8	0.99
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	8	0.98
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	3	0.98
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	8	0.98
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	6	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,250)	1:B:17:DT:H6	1:B:18:DC:H5	3	0.98
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	5	0.98
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	7	0.98
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	9	0.98
(1,18)	1:B:21:DC:H1'	1:B:21:DC:H6	3	0.98
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	4	0.98
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	6	0.98
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	6	0.97
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	8	0.97
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	1	0.97
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	10	0.97
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	3	0.97
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	9	0.97
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	7	0.97
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	2	0.97
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	8	0.97
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	1	0.97
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	10	0.97
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	7	0.97
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	3	0.96
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	3	0.96
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	1	0.96
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	8	0.96
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	10	0.96
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	3	0.96
(1,177)	1:A:1:DC:H6	1:A:1:DC:H4'	6	0.96
(1,159)	1:A:1:DC:H3'	1:A:2:DG:H8	9	0.96
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	8	0.95
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	5	0.95
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	9	0.95
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	3	0.95
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	8	0.95
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	1	0.95
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	10	0.95
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	1	0.95
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	10	0.95
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	6	0.95
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	8	0.95
(1,160)	1:B:13:DC:H3'	1:B:14:DG:H8	5	0.95
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	4	0.95
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	6	0.95
(1,9)	1:A:5:DT:H1'	1:A:5:DT:H6	6	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,74)	1:B:15:DC:H2'	1:B:16:DG:H8	7	0.94
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	7	0.94
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	5	0.94
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	7	0.94
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	2	0.94
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	3	0.94
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	4	0.94
(1,249)	1:A:5:DT:H6	1:A:6:DC:H5	8	0.94
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	7	0.94
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	2	0.94
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	6	0.94
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	4	0.94
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	6	0.93
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	1	0.93
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	10	0.93
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	8	0.93
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	8	0.93
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	8	0.93
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	4	0.93
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	5	0.93
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	2	0.93
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	6	0.93
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	6	0.93
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	8	0.93
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	4	0.93
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	7	0.93
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	3	0.93
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	3	0.93
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	1	0.92
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	10	0.92
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	3	0.92
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	8	0.92
(1,290)	1:B:16:DG:H1	1:B:17:DT:H3	8	0.92
(1,278)	1:B:20:DA:H1'	1:B:20:DA:H4'	7	0.92
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	7	0.92
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	2	0.92
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	4	0.92
(1,25)	1:A:1:DC:H1'	1:A:2:DG:H8	3	0.92
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	9	0.92
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	3	0.92
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	5	0.92
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	8	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	8	0.92
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	9	0.92
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	5	0.91
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	6	0.91
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	5	0.91
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	4	0.91
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	6	0.91
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	9	0.91
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	6	0.91
(1,233)	1:A:8:DA:H1'	1:A:8:DA:H2	8	0.91
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	7	0.91
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	1	0.91
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	5	0.91
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	10	0.91
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	1	0.91
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	10	0.91
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	3	0.9
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	2	0.9
(1,320)	1:B:18:DC:H41	1:B:17:DT:H71	4	0.9
(1,320)	1:B:18:DC:H41	1:B:17:DT:H72	4	0.9
(1,320)	1:B:18:DC:H41	1:B:17:DT:H73	4	0.9
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	4	0.9
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	8	0.9
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	4	0.9
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	3	0.9
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	5	0.9
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	1	0.9
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	9	0.9
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	10	0.9
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	3	0.9
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	8	0.9
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	9	0.89
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	7	0.89
(1,83)	1:A:8:DA:H2'	1:A:9:DC:H6	9	0.89
(1,44)	1:B:23:DC:H1'	1:B:24:DG:H8	5	0.89
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	3	0.89
(1,307)	1:A:5:DT:H3	1:B:20:DA:H2	2	0.89
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	7	0.89
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	9	0.89
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	5	0.89
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	8	0.89
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	2	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	1	0.89
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	10	0.89
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	3	0.88
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	5	0.88
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	6	0.88
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	3	0.88
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	3	0.88
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	5	0.88
(1,234)	1:B:20:DA:H1'	1:B:20:DA:H2	3	0.88
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	6	0.88
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	9	0.88
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	1	0.87
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	10	0.87
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	7	0.87
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	2	0.87
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	5	0.87
(1,247)	1:A:5:DT:H1'	1:A:6:DC:H5	5	0.87
(1,238)	1:B:16:DG:H1	1:A:9:DC:H41	9	0.87
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	4	0.87
(1,162)	1:B:14:DG:H3'	1:B:15:DC:H6	3	0.87
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	3	0.86
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	2	0.86
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	7	0.86
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	2	0.86
(1,89)	1:A:11:DC:H2'	1:A:12:DG:H8	7	0.85
(1,74)	1:B:15:DC:H2'	1:B:16:DG:H8	6	0.85
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	5	0.85
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	2	0.85
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	2	0.85
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	2	0.85
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	1	0.85
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	10	0.85
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	2	0.85
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	4	0.85
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	8	0.85
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	9	0.85
(1,22)	1:B:23:DC:H1'	1:B:23:DC:H6	5	0.85
(1,17)	1:A:9:DC:H1'	1:A:9:DC:H6	7	0.85
(1,164)	1:B:15:DC:H3'	1:B:16:DG:H8	5	0.85
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	6	0.84
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	9	0.84
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	5	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	7	0.84
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	7	0.84
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	3	0.84
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	9	0.83
(1,40)	1:B:21:DC:H1'	1:B:22:DG:H8	9	0.83
(1,31)	1:A:5:DT:H1'	1:A:6:DC:H6	5	0.83
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	6	0.83
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	1	0.83
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	8	0.83
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	10	0.83
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	1	0.83
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	10	0.83
(1,21)	1:A:11:DC:H1'	1:A:11:DC:H6	9	0.83
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	9	0.83
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	9	0.82
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	8	0.82
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	5	0.82
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	4	0.81
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	8	0.81
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	6	0.81
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	9	0.81
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	4	0.81
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	1	0.81
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	10	0.81
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	7	0.81
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	9	0.81
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	3	0.81
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	9	0.81
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	5	0.81
(1,244)	1:B:14:DG:H8	1:B:15:DC:H5	8	0.81
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	4	0.81
(1,170)	1:B:18:DC:H3'	1:B:19:DG:H8	4	0.81
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	2	0.81
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	9	0.81
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	8	0.8
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	8	0.8
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	1	0.8
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	10	0.8
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	1	0.8
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	10	0.8
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	6	0.8
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	2	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	8	0.79
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	7	0.79
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	9	0.79
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	4	0.79
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	2	0.79
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	6	0.79
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	6	0.79
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	8	0.79
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	7	0.79
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	2	0.79
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	5	0.78
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	5	0.78
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	5	0.78
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	3	0.78
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	5	0.78
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	6	0.78
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	7	0.78
(1,254)	1:B:18:DC:H5	1:B:18:DC:H2'	2	0.78
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	1	0.78
(1,231)	1:A:8:DA:H2	1:A:9:DC:H1'	10	0.78
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	2	0.78
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	3	0.78
(1,178)	1:B:13:DC:H6	1:B:13:DC:H4'	5	0.78
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	3	0.78
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	9	0.77
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	7	0.77
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	7	0.77
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	1	0.77
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	10	0.77
(1,37)	1:A:8:DA:H1'	1:A:9:DC:H6	7	0.77
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	8	0.77
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	4	0.77
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	9	0.77
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	1	0.77
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	4	0.77
(1,243)	1:A:2:DG:H8	1:A:3:DC:H5	10	0.77
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	4	0.77
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	7	0.77
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	3	0.77
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	4	0.76
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	1	0.76
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	8	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	10	0.76
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	4	0.75
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	5	0.75
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	2	0.75
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	2	0.75
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	5	0.75
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	7	0.75
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	5	0.75
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	7	0.75
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	6	0.75
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	4	0.75
(1,140)	1:B:15:DC:H6	1:B:15:DC:H3'	5	0.75
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	6	0.74
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	1	0.74
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	4	0.74
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	10	0.74
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	2	0.74
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	7	0.74
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	8	0.74
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	7	0.73
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	3	0.73
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	2	0.73
(1,176)	1:B:23:DC:H3'	1:B:24:DG:H8	3	0.73
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	2	0.73
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	5	0.72
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	8	0.72
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	3	0.72
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	9	0.72
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	7	0.72
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	9	0.72
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	3	0.71
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	5	0.71
(1,68)	1:B:24:DG:H8	1:B:24:DG:H2'	3	0.71
(1,67)	1:A:12:DG:H8	1:A:12:DG:H2'	4	0.71
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	3	0.71
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	9	0.71
(1,28)	1:B:14:DG:H1'	1:B:15:DC:H6	8	0.71
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	9	0.71
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	6	0.71
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	6	0.71
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	7	0.7
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	7	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	7	0.7
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	7	0.7
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	4	0.7
(1,308)	1:B:17:DT:H3	1:A:8:DA:H2	4	0.7
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	6	0.7
(1,288)	1:B:14:DG:H1	1:A:10:DG:H1	4	0.7
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	9	0.7
(1,253)	1:A:6:DC:H5	1:A:6:DC:H2'	2	0.7
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	2	0.7
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	6	0.69
(1,69)	1:A:1:DC:H2'	1:A:2:DG:H8	6	0.69
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	8	0.69
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	9	0.69
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	9	0.68
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	3	0.68
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	2	0.68
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	1	0.68
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	10	0.68
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	5	0.68
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	6	0.68
(1,26)	1:B:13:DC:H1'	1:B:14:DG:H8	6	0.68
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	8	0.68
(1,72)	1:B:14:DG:H2'	1:B:15:DC:H6	3	0.67
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	1	0.67
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	10	0.67
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	7	0.67
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	6	0.67
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	5	0.67
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	7	0.66
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	6	0.66
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	2	0.66
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	5	0.66
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	4	0.66
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	9	0.66
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	3	0.66
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	5	0.66
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	8	0.66
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	1	0.66
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	10	0.66
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	2	0.66
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	8	0.65
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	6	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	4	0.65
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	9	0.65
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	2	0.65
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	3	0.65
(1,248)	1:B:17:DT:H1'	1:B:18:DC:H5	9	0.65
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	1	0.64
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	10	0.64
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	2	0.64
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	8	0.64
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	9	0.64
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	9	0.64
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	3	0.64
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	2	0.63
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	6	0.63
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	8	0.63
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	1	0.63
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	1	0.63
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	1	0.63
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	10	0.63
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	10	0.63
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	10	0.63
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	8	0.63
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	1	0.63
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	10	0.63
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	9	0.62
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	9	0.62
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	6	0.62
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	1	0.62
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	10	0.62
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	1	0.62
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	10	0.62
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	6	0.62
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	3	0.62
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	2	0.61
(1,60)	1:B:20:DA:H8	1:B:20:DA:H2'	4	0.61
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	8	0.61
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	6	0.61
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	8	0.61
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	3	0.61
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	3	0.61
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	6	0.61
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	4	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	5	0.61
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	4	0.6
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	4	0.6
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	4	0.6
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	4	0.6
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	3	0.6
(1,287)	1:A:2:DG:H1	1:B:22:DG:H1	6	0.6
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	5	0.59
(1,71)	1:A:2:DG:H2'	1:A:3:DC:H6	5	0.59
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	7	0.59
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	5	0.59
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	6	0.59
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	5	0.59
(1,302)	1:B:15:DC:H42	1:A:10:DG:H1	9	0.59
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	2	0.59
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	1	0.59
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	10	0.59
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	7	0.58
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	8	0.58
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	6	0.58
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	9	0.58
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	3	0.57
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	7	0.57
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	3	0.57
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	3	0.57
(1,169)	1:A:6:DC:H3'	1:A:7:DG:H8	8	0.57
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	8	0.56
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	3	0.56
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	6	0.56
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	9	0.56
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	5	0.56
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	7	0.56
(1,259)	1:A:10:DG:H1'	1:A:11:DC:H5	7	0.56
(1,236)	1:B:16:DG:H1	1:A:9:DC:H42	5	0.56
(1,235)	1:A:4:DG:H1	1:B:21:DC:H42	5	0.56
(1,75)	1:A:4:DG:H2'	1:A:5:DT:H6	3	0.55
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	4	0.55
(1,260)	1:B:22:DG:H1'	1:B:23:DC:H5	8	0.55
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	6	0.54
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	7	0.54
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	8	0.54
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	2	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	8	0.54
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	7	0.54
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	2	0.54
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	4	0.54
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	8	0.54
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	4	0.54
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	3	0.53
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	2	0.53
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	1	0.53
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	10	0.53
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	4	0.53
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	1	0.53
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	2	0.53
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	10	0.53
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	3	0.53
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	7	0.53
(1,75)	1:A:4:DG:H2'	1:A:5:DT:H6	6	0.52
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	4	0.52
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	9	0.52
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	6	0.52
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	6	0.52
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	6	0.52
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	3	0.52
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	3	0.52
(1,265)	1:A:2:DG:H1'	1:A:2:DG:H4'	7	0.52
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	4	0.52
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	5	0.51
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	4	0.51
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	5	0.51
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	4	0.51
(1,264)	1:B:13:DC:H1'	1:B:13:DC:H4'	4	0.51
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	3	0.5
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	3	0.5
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	5	0.5
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	6	0.5
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	7	0.5
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	2	0.5
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	9	0.5
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	4	0.5
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	1	0.5
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	10	0.5
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	7	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	9	0.5
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	5	0.5
(1,257)	1:A:8:DA:H8	1:A:9:DC:H5	2	0.5
(1,146)	1:B:18:DC:H6	1:B:18:DC:H3'	8	0.5
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	2	0.49
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	6	0.49
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	3	0.49
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	3	0.49
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	3	0.49
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	7	0.49
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	8	0.49
(1,277)	1:A:8:DA:H1'	1:A:8:DA:H4'	2	0.49
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	9	0.49
(1,86)	1:B:21:DC:H2'	1:B:22:DG:H8	4	0.48
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	9	0.48
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	7	0.48
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	8	0.48
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	9	0.48
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	2	0.48
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	4	0.48
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	4	0.48
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	7	0.48
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	1	0.48
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	10	0.48
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	1	0.48
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	10	0.48
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	2	0.47
(1,74)	1:B:15:DC:H2'	1:B:16:DG:H8	4	0.47
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	8	0.47
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	4	0.47
(1,39)	1:A:9:DC:H1'	1:A:10:DG:H8	9	0.47
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	7	0.47
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	7	0.47
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	7	0.47
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	7	0.47
(1,161)	1:A:2:DG:H3'	1:A:3:DC:H6	5	0.47
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	2	0.46
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	9	0.46
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	1	0.46
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	10	0.46
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	1	0.46
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	10	0.46
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	2	0.46
(1,27)	1:A:2:DG:H1'	1:A:3:DC:H6	7	0.46
(1,55)	1:A:6:DC:H6	1:A:6:DC:H2'	2	0.45
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	6	0.45
(1,301)	1:A:3:DC:H42	1:B:22:DG:H1	4	0.45
(1,300)	1:B:14:DG:H1	1:B:13:DC:H41	8	0.45
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	6	0.45
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	1	0.44
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	10	0.44
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	5	0.44
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	8	0.44
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	4	0.44
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	1	0.43
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	10	0.43
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	4	0.43
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	7	0.43
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	9	0.43
(1,283)	1:A:12:DG:H1'	1:A:12:DG:H4'	6	0.43
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	2	0.43
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	8	0.42
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	8	0.42
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	5	0.42
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	4	0.42
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	2	0.42
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	5	0.42
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	9	0.41
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	8	0.41
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	2	0.41
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	9	0.4
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	3	0.4
(1,313)	1:A:7:DG:H1	1:A:8:DA:H2	6	0.4
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	5	0.4
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	6	0.4
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	9	0.4
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	5	0.39
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	5	0.39
(1,92)	1:B:13:DC:H6	1:B:13:DC:H2'	3	0.39
(1,92)	1:B:13:DC:H6	1:B:13:DC:H2"	3	0.39
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	7	0.39
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	2	0.39
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	8	0.39
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	2	0.39
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	1	0.38
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	10	0.38
(1,46)	1:B:13:DC:H6	1:B:13:DC:H2'	4	0.38
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	4	0.38
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	4	0.38
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	4	0.38
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	4	0.38
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	3	0.38
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	7	0.37
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	7	0.37
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	6	0.37
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	2	0.37
(1,309)	1:A:6:DC:H41	1:B:19:DG:H1	1	0.37
(1,309)	1:A:6:DC:H41	1:B:19:DG:H1	10	0.37
(1,299)	1:A:2:DG:H1	1:A:1:DC:H41	8	0.37
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	3	0.37
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	5	0.37
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	8	0.37
(1,238)	1:B:16:DG:H1	1:A:9:DC:H41	8	0.37
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	7	0.36
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	5	0.36
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	2	0.36
(1,134)	1:B:23:DC:H2'	1:B:24:DG:H8	8	0.36
(1,134)	1:B:23:DC:H2"	1:B:24:DG:H8	8	0.36
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	1	0.35
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	1	0.35
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	10	0.35
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	10	0.35
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	7	0.35
(1,47)	1:A:2:DG:H8	1:A:2:DG:H2'	8	0.35
(1,262)	1:B:22:DG:H8	1:B:23:DC:H5	6	0.35
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	2	0.34
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	2	0.34
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	5	0.34
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	4	0.34
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	9	0.34
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	9	0.34
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	9	0.34
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	3	0.34
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	1	0.34
(1,263)	1:A:1:DC:H1'	1:A:1:DC:H4'	10	0.34
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	1	0.33
(1,90)	1:B:23:DC:H2'	1:B:24:DG:H8	10	0.33
(1,74)	1:B:15:DC:H2'	1:B:16:DG:H8	1	0.33
(1,74)	1:B:15:DC:H2'	1:B:16:DG:H8	10	0.33
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	2	0.33
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	8	0.33
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	2	0.33
(1,318)	1:B:16:DG:H8	1:B:17:DT:H71	5	0.33
(1,318)	1:B:16:DG:H8	1:B:17:DT:H72	5	0.33
(1,318)	1:B:16:DG:H8	1:B:17:DT:H73	5	0.33
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2'	7	0.32
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2"	7	0.32
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	5	0.32
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	1	0.32
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	10	0.32
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	3	0.32
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	6	0.32
(1,266)	1:B:14:DG:H1'	1:B:14:DG:H4'	7	0.32
(1,79)	1:A:6:DC:H2'	1:A:7:DG:H8	7	0.31
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	3	0.31
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H71	8	0.31
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H72	8	0.31
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H73	8	0.31
(1,289)	1:A:4:DG:H1	1:A:5:DT:H3	5	0.31
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	6	0.31
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	9	0.3
(1,79)	1:A:6:DC:H2'	1:A:7:DG:H8	9	0.3
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	5	0.3
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	2	0.3
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	8	0.3
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	8	0.3
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	5	0.3
(1,267)	1:A:3:DC:H1'	1:A:3:DC:H4'	4	0.3
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	2	0.29
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	7	0.29
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	7	0.29
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	2	0.28
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	2	0.28
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	3	0.28
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	4	0.28
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	4	0.28
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	8	0.28
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	8	0.28
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	5	0.28
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	1	0.28
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	10	0.28
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	3	0.28
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	2	0.28
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	7	0.28
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	1	0.28
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	1	0.28
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	1	0.28
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	10	0.28
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	10	0.28
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	10	0.28
(1,299)	1:A:2:DG:H1	1:A:1:DC:H41	6	0.28
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	2	0.28
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	9	0.28
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	1	0.28
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	10	0.28
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	8	0.28
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	6	0.28
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	6	0.27
(1,79)	1:A:6:DC:H2'	1:A:7:DG:H8	4	0.27
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	8	0.27
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	3	0.27
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	2	0.27
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	8	0.27
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	5	0.27
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	3	0.27
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	9	0.27
(1,276)	1:B:19:DG:H1'	1:B:19:DG:H4'	8	0.27
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	4	0.27
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	4	0.27
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	4	0.27
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	1	0.27
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	3	0.27
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	10	0.27
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2'	2	0.26
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2"	2	0.26
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	4	0.26
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	8	0.26
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	4	0.26
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	1	0.26
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	10	0.26
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	4	0.26
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	5	0.26
(1,47)	1:A:2:DG:H8	1:A:2:DG:H2'	1	0.26
(1,47)	1:A:2:DG:H8	1:A:2:DG:H2'	10	0.26
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	1	0.26
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	2	0.26
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	10	0.26
(1,238)	1:B:16:DG:H1	1:A:9:DC:H41	3	0.26
(1,75)	1:A:4:DG:H2'	1:A:5:DT:H6	7	0.25
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	1	0.25
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	10	0.25
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	7	0.25
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	6	0.25
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	4	0.25
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	6	0.25
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	8	0.25
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	1	0.25
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	5	0.25
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	10	0.25
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	6	0.25
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	6	0.25
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	6	0.25
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	4	0.25
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	5	0.24
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	5	0.24
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	7	0.24
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	4	0.24
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	9	0.24
(1,42)	1:B:22:DG:H1'	1:B:23:DC:H6	6	0.24
(1,35)	1:A:7:DG:H1'	1:A:8:DA:H8	7	0.24
(1,290)	1:B:16:DG:H1	1:B:17:DT:H3	5	0.24
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	1	0.24
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	10	0.24
(1,271)	1:A:5:DT:H1'	1:A:5:DT:H4'	2	0.24
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	7	0.24
(1,245)	1:A:5:DT:H2'	1:A:6:DC:H5	3	0.24
(1,133)	1:A:11:DC:H2'	1:A:12:DG:H8	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:A:11:DC:H2"	1:A:12:DG:H8	1	0.24
(1,133)	1:A:11:DC:H2'	1:A:12:DG:H8	10	0.24
(1,133)	1:A:11:DC:H2"	1:A:12:DG:H8	10	0.24
(1,75)	1:A:4:DG:H2'	1:A:5:DT:H6	1	0.23
(1,75)	1:A:4:DG:H2'	1:A:5:DT:H6	10	0.23
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	2	0.23
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	5	0.23
(1,64)	1:B:22:DG:H8	1:B:22:DG:H2'	9	0.23
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	6	0.23
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	9	0.23
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	4	0.23
(1,279)	1:A:9:DC:H1'	1:A:9:DC:H4'	9	0.23
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	1	0.23
(1,275)	1:A:7:DG:H1'	1:A:7:DG:H4'	10	0.23
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	9	0.22
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	7	0.22
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	6	0.22
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	4	0.22
(1,54)	1:B:17:DT:H6	1:B:17:DT:H2'	6	0.22
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	5	0.22
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	1	0.22
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	10	0.22
(1,309)	1:A:6:DC:H41	1:B:19:DG:H1	3	0.22
(1,289)	1:A:4:DG:H1	1:A:5:DT:H3	6	0.22
(1,279)	1:A:9:DC:H1'	1:A:9:DC:H4'	7	0.22
(1,270)	1:B:16:DG:H1'	1:B:16:DG:H4'	6	0.22
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	7	0.22
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	4	0.22
(1,134)	1:B:23:DC:H2'	1:B:24:DG:H8	9	0.22
(1,134)	1:B:23:DC:H2"	1:B:24:DG:H8	9	0.22
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	6	0.22
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2'	1	0.21
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2"	1	0.21
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2'	10	0.21
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2"	10	0.21
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	8	0.21
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	1	0.21
(1,70)	1:B:13:DC:H2'	1:B:14:DG:H8	10	0.21
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	7	0.21
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	6	0.21
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	8	0.21
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	8	0.21
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	8	0.21
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	8	0.21
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	2	0.21
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	5	0.21
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	9	0.21
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	3	0.21
(1,80)	1:B:18:DC:H2'	1:B:19:DG:H8	9	0.2
(1,79)	1:A:6:DC:H2'	1:A:7:DG:H8	3	0.2
(1,74)	1:B:15:DC:H2'	1:B:16:DG:H8	8	0.2
(1,64)	1:B:22:DG:H8	1:B:22:DG:H2'	7	0.2
(1,59)	1:A:8:DA:H8	1:A:8:DA:H2'	5	0.2
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	1	0.2
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	10	0.2
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	6	0.2
(1,49)	1:A:3:DC:H6	1:A:3:DC:H2'	5	0.2
(1,47)	1:A:2:DG:H8	1:A:2:DG:H2'	9	0.2
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	9	0.2
(1,279)	1:A:9:DC:H1'	1:A:9:DC:H4'	8	0.2
(1,238)	1:B:16:DG:H1	1:A:9:DC:H41	2	0.2
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	9	0.2
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	2	0.2
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	4	0.2
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	7	0.2
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2'	8	0.19
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2"	8	0.19
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	6	0.19
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	2	0.19
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	9	0.19
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	9	0.19
(1,47)	1:A:2:DG:H8	1:A:2:DG:H2'	2	0.19
(1,42)	1:B:22:DG:H1'	1:B:23:DC:H6	9	0.19
(1,32)	1:B:17:DT:H1'	1:B:18:DC:H6	9	0.19
(1,284)	1:B:24:DG:H1'	1:B:24:DG:H4'	8	0.19
(1,272)	1:B:17:DT:H1'	1:B:17:DT:H4'	7	0.19
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	3	0.18
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	9	0.18
(1,65)	1:A:11:DC:H6	1:A:11:DC:H2'	6	0.18
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	2	0.18
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H71	9	0.18
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H72	9	0.18
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H73	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:B:13:DC:H41	1:A:12:DG:H1	6	0.18
(1,291)	1:A:5:DT:H3	1:B:19:DG:H1	5	0.18
(1,272)	1:B:17:DT:H1'	1:B:17:DT:H4'	9	0.18
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	3	0.18
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	5	0.18
(1,238)	1:B:16:DG:H1	1:A:9:DC:H41	4	0.18
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	1	0.18
(1,12)	1:B:18:DC:H1'	1:B:18:DC:H6	10	0.18
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	7	0.18
(1,92)	1:B:13:DC:H6	1:B:13:DC:H2'	5	0.17
(1,92)	1:B:13:DC:H6	1:B:13:DC:H2"	5	0.17
(1,66)	1:B:23:DC:H6	1:B:23:DC:H2'	8	0.17
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	1	0.17
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	5	0.17
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	10	0.17
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	9	0.17
(1,47)	1:A:2:DG:H8	1:A:2:DG:H2'	7	0.17
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	7	0.17
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	3	0.17
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	3	0.17
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	3	0.17
(1,297)	1:A:2:DG:H1	1:A:1:DC:H42	8	0.17
(1,258)	1:B:20:DA:H8	1:B:21:DC:H5	3	0.17
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	5	0.17
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2'	4	0.17
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2"	4	0.17
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	9	0.17
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	9	0.16
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	9	0.16
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2'	7	0.16
(1,96)	1:B:15:DC:H6	1:B:15:DC:H2"	7	0.16
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	5	0.16
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	6	0.16
(1,289)	1:A:4:DG:H1	1:A:5:DT:H3	4	0.16
(1,268)	1:B:15:DC:H1'	1:B:15:DC:H4'	9	0.16
(1,163)	1:A:3:DC:H3'	1:A:4:DG:H8	7	0.16
(1,133)	1:A:11:DC:H2'	1:A:12:DG:H8	6	0.16
(1,133)	1:A:11:DC:H2"	1:A:12:DG:H8	6	0.16
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2'	4	0.15
(1,97)	1:A:5:DT:H6	1:A:5:DT:H2"	4	0.15
(1,75)	1:A:4:DG:H2'	1:A:5:DT:H6	2	0.15
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	1	0.15
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	7	0.15
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	10	0.15
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	2	0.15
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	2	0.15
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	2	0.15
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	2	0.15
(1,246)	1:B:17:DT:H2'	1:B:18:DC:H5	9	0.15
(1,237)	1:A:4:DG:H1	1:B:21:DC:H41	7	0.15
(1,79)	1:A:6:DC:H2'	1:A:7:DG:H8	2	0.14
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	9	0.14
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	5	0.14
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	4	0.14
(1,48)	1:B:14:DG:H8	1:B:14:DG:H2'	7	0.14
(1,45)	1:A:1:DC:H6	1:A:1:DC:H2'	6	0.14
(1,314)	1:B:19:DG:H1	1:B:20:DA:H2	5	0.14
(1,304)	1:B:15:DC:H41	1:A:10:DG:H1	7	0.14
(1,279)	1:A:9:DC:H1'	1:A:9:DC:H4'	3	0.14
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2'	1	0.14
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2"	1	0.14
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2'	10	0.14
(1,110)	1:B:23:DC:H6	1:B:23:DC:H2"	10	0.14
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	4	0.13
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	4	0.13
(1,84)	1:B:20:DA:H2'	1:B:21:DC:H6	3	0.13
(1,64)	1:B:22:DG:H8	1:B:22:DG:H2'	2	0.13
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	1	0.13
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	10	0.13
(1,58)	1:B:19:DG:H8	1:B:19:DG:H2'	2	0.13
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	1	0.13
(1,57)	1:A:7:DG:H8	1:A:7:DG:H2'	10	0.13
(1,56)	1:B:18:DC:H6	1:B:18:DC:H2'	3	0.13
(1,43)	1:A:11:DC:H1'	1:A:12:DG:H8	4	0.13
(1,279)	1:A:9:DC:H1'	1:A:9:DC:H4'	2	0.13
(1,269)	1:A:4:DG:H1'	1:A:4:DG:H4'	8	0.13
(1,134)	1:B:23:DC:H2'	1:B:24:DG:H8	3	0.13
(1,134)	1:B:23:DC:H2"	1:B:24:DG:H8	3	0.13
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	6	0.13
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	8	0.13
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2'	6	0.12
(1,98)	1:B:17:DT:H6	1:B:17:DT:H2"	6	0.12
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,76)	1:B:16:DG:H2'	1:B:17:DT:H6	10	0.12
(1,61)	1:A:9:DC:H6	1:A:9:DC:H2'	7	0.12
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	1	0.12
(1,50)	1:B:15:DC:H6	1:B:15:DC:H2'	10	0.12
(1,42)	1:B:22:DG:H1'	1:B:23:DC:H6	7	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H71	2	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H72	2	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H73	2	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H71	3	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H72	3	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H73	3	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H71	4	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H72	4	0.12
(1,324)	1:B:16:DG:H2'	1:B:17:DT:H73	4	0.12
(1,317)	1:A:4:DG:H8	1:A:5:DT:H71	5	0.12
(1,317)	1:A:4:DG:H8	1:A:5:DT:H72	5	0.12
(1,317)	1:A:4:DG:H8	1:A:5:DT:H73	5	0.12
(1,238)	1:B:16:DG:H1	1:A:9:DC:H41	7	0.12
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	2	0.11
(1,63)	1:A:10:DG:H8	1:A:10:DG:H2'	6	0.11
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	3	0.11
(1,62)	1:B:21:DC:H6	1:B:21:DC:H2'	6	0.11
(1,53)	1:A:5:DT:H6	1:A:5:DT:H2'	3	0.11
(1,51)	1:A:4:DG:H8	1:A:4:DG:H2'	6	0.11
(1,49)	1:A:3:DC:H6	1:A:3:DC:H2'	1	0.11
(1,49)	1:A:3:DC:H6	1:A:3:DC:H2'	10	0.11
(1,274)	1:B:18:DC:H1'	1:B:18:DC:H4'	8	0.11
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	1	0.11
(1,261)	1:A:10:DG:H8	1:A:11:DC:H5	10	0.11
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	1	0.11
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	2	0.11
(1,11)	1:A:6:DC:H1'	1:A:6:DC:H6	10	0.11

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found