



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 5, 2023 – 05:32 PM EDT

PDB ID : 2MB4  
BMRB ID : 19389  
Title : Solution structure of a stacked dimeric G-quadruplex formed by a segment of the human CEB1 minisatellite  
Authors : Adrian, M.; Ang, D.J.; Lech, C.; Heddi, B.; Nicolas, A.; Phan, A.T.  
Deposited on : 2013-07-25

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/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>.

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

MolProbity : 4.02b-467  
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

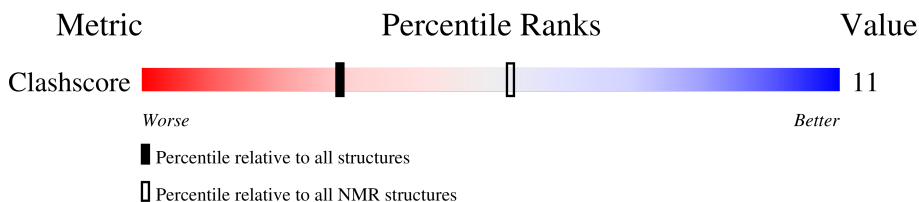
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*



The overall completeness of chemical shifts assignment is 18%.

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  $\geq 3$ , 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  $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	18	
1	B	18	

## 2 Ensemble composition and analysis

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

There is only 1 type of molecule in this entry. The entry contains 1176 atoms, of which 400 are hydrogens and 0 are deuteriums.

- Molecule 1 is a DNA chain called DNA\_<sub>1</sub> (5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*TP\*GP\*G)-3').

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		P
1	A	18	Total	C	H	N	O	P	0
			588	180	200	87	104	17	
1	B	18	Total	C	H	N	O	P	0
			588	180	200	87	104	17	

## 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(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain A: 



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain B: 



### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

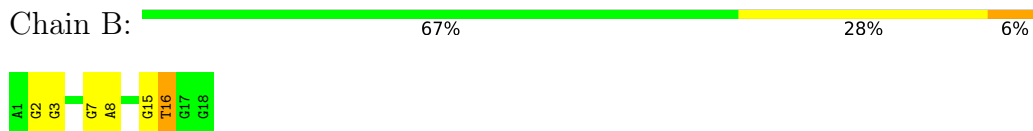
#### 4.2.1 Score per residue for model 1

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain A: 



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

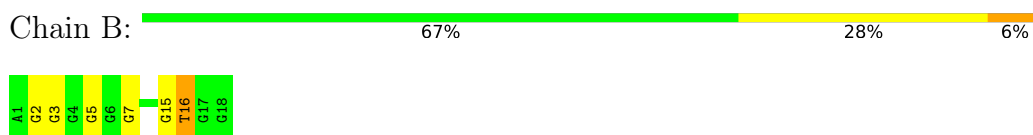


#### 4.2.2 Score per residue for model 2

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T  
P\*GP\*G)-3')



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T  
P\*GP\*G)-3')

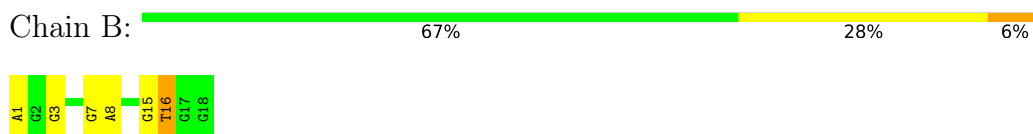


#### 4.2.3 Score per residue for model 3

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T  
P\*GP\*G)-3')



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T  
P\*GP\*G)-3')



#### 4.2.4 Score per residue for model 4

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T  
P\*GP\*G)-3')

Chain A:  56% 44%



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain B:  67% 33%



#### 4.2.5 Score per residue for model 5

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain A:  61% 39%



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

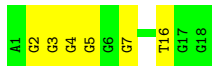
Chain B:  44% 56%



#### 4.2.6 Score per residue for model 6

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain A:  67% 33%



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain B:  72% 28%



#### 4.2.7 Score per residue for model 7

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain A:  56% 44%



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain B:  67% 28% 6%



#### 4.2.8 Score per residue for model 8

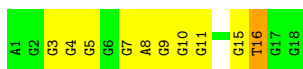
- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain A:  50% 44% 6%



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

Chain B:  44% 50% 6%



#### 4.2.9 Score per residue for model 9

- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')

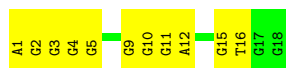
Chain A:  50% 50%



- Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T P\*GP\*G)-3')



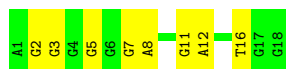
Chain B:  39% 61%



#### 4.2.10 Score per residue for model 10

• Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T  
P\*GP\*G)-3')

Chain A:  56% 44%



• Molecule 1: DNA\_(5'-D(\*AP\*GP\*GP\*GP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*AP\*GP\*GP\*GP\*T  
P\*GP\*G)-3')

Chain B:  56% 44%



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *DGSA-distance geometry simulated annealing, molecular dynamics*.

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	structure solution	
Amber	refinement	
X-PLOR NIH	refinement	

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	134
Number of shifts mapped to atoms	134
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	18%

## 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	0.96±0.01	0±0/440 ( 0.0± 0.1%)	1.18±0.01	1±0/683 ( 0.2± 0.0%)
1	B	0.97±0.01	0±0/440 ( 0.0± 0.0%)	1.18±0.01	1±0/683 ( 0.2± 0.0%)
All	All	0.96	1/8800 ( 0.0%)	1.18	22/13660 ( 0.2%)

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	16	DT	C5-C7	5.00	1.53	1.50	6	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(°)	Ideal(°)	Models	
								Worst	Total
1	A	16	DT	C6-C5-C7	-6.52	118.99	122.90	4	10
1	B	16	DT	C6-C5-C7	-6.44	119.03	122.90	10	10
1	B	16	DT	C4-C5-C6	5.09	121.05	118.00	10	1
1	A	16	DT	C4-C5-C6	5.01	121.01	118.00	1	1

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts i

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in 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	388	200	201	6±1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	B	388	200	201	6±3
All	All	7760	4000	4020	124

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 11.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:4:DG:H4'	1:A:5:DG:OP2	0.74	1.81	7	7
1:B:15:DG:H4'	1:B:16:DT:O5'	0.69	1.87	7	3
1:A:11:DG:H1'	1:A:12:DA:OP2	0.68	1.89	9	5
1:B:11:DG:H1'	1:B:12:DA:OP2	0.64	1.93	7	2
1:A:7:DG:H1'	1:A:8:DA:OP2	0.61	1.94	4	4
1:A:15:DG:H4'	1:A:16:DT:O5'	0.61	1.93	2	3
1:B:11:DG:H4'	1:B:12:DA:O5'	0.60	1.96	9	1
1:A:3:DG:N3	1:A:3:DG:H2'	0.60	2.11	1	10
1:B:4:DG:H4'	1:B:5:DG:OP2	0.59	1.97	9	4
1:B:7:DG:H1'	1:B:8:DA:OP2	0.57	1.99	3	3
1:B:3:DG:N3	1:B:3:DG:H2'	0.57	2.14	1	10
1:A:15:DG:H1'	1:A:16:DT:OP2	0.56	2.01	8	3
1:B:15:DG:H1'	1:B:16:DT:OP2	0.56	2.01	8	5
1:A:11:DG:H4'	1:A:12:DA:O5'	0.55	2.01	8	3
1:B:5:DG:OP1	1:B:5:DG:H8	0.54	1.86	2	1
1:B:9:DG:OP1	1:B:9:DG:H3'	0.54	2.01	8	1
1:B:11:DG:C1'	1:B:12:DA:OP2	0.52	2.57	7	1
1:B:3:DG:H1'	1:B:4:DG:OP1	0.52	2.05	8	2
1:B:7:DG:H4'	1:B:8:DA:O5'	0.50	2.07	1	1
1:A:2:DG:H4'	1:A:3:DG:O5'	0.49	2.07	1	3
1:B:1:DA:H5'	1:B:15:DG:C4	0.49	2.43	3	1
1:A:3:DG:H1'	1:A:4:DG:O5'	0.48	2.08	1	1
1:B:2:DG:N2	1:B:7:DG:H2'	0.47	2.24	5	2
1:A:3:DG:H4'	1:A:4:DG:OP1	0.47	2.09	4	1
1:B:3:DG:C1'	1:B:4:DG:OP1	0.47	2.62	5	2
1:B:1:DA:N7	1:B:11:DG:C6	0.47	2.83	10	2
1:B:15:DG:C1'	1:B:16:DT:OP2	0.46	2.63	8	1
1:A:11:DG:C1'	1:A:12:DA:OP2	0.46	2.63	9	3
1:B:9:DG:H2''	1:B:10:DG:H5'	0.46	1.87	9	1
1:A:1:DA:N7	1:A:11:DG:C6	0.46	2.84	3	2
1:B:5:DG:H3'	1:B:5:DG:OP2	0.45	2.10	5	1
1:A:2:DG:H1'	1:A:3:DG:OP2	0.45	2.11	6	2
1:A:4:DG:OP2	1:A:5:DG:H3'	0.45	2.12	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:7:DG:C1'	1:B:8:DA:OP2	0.45	2.63	8	2
1:A:2:DG:N2	1:A:7:DG:H2'	0.44	2.27	4	4
1:B:2:DG:H4'	1:B:3:DG:O5'	0.44	2.12	2	3
1:B:1:DA:C6	1:B:11:DG:C2	0.43	3.05	7	2
1:A:2:DG:N2	1:A:7:DG:C2'	0.43	2.82	1	2
1:A:7:DG:H4'	1:A:8:DA:O5'	0.43	2.14	5	1
1:B:2:DG:H21	1:B:7:DG:C2'	0.43	2.27	10	1
1:B:2:DG:N2	1:B:7:DG:C2'	0.42	2.82	2	1
1:B:1:DA:H5'	1:B:15:DG:N3	0.42	2.29	5	1
1:B:1:DA:H4'	1:B:15:DG:C2	0.42	2.49	3	1
1:B:2:DG:H1'	1:B:3:DG:OP2	0.42	2.14	6	2
1:A:5:DG:OP1	1:A:5:DG:C8	0.42	2.72	10	1
1:A:9:DG:OP2	1:B:4:DG:N2	0.42	2.52	5	1
1:A:2:DG:C1'	1:A:3:DG:OP2	0.41	2.68	2	1
1:A:4:DG:C4	1:A:18:DG:O3'	0.41	2.67	4	1
1:B:4:DG:C8	1:B:18:DG:O3'	0.41	2.71	5	1
1:B:1:DA:O4'	1:B:15:DG:C6	0.41	2.73	9	1
1:A:2:DG:H21	1:A:7:DG:H2'	0.41	1.76	9	1
1:A:1:DA:O4'	1:A:15:DG:N1	0.41	2.53	7	1
1:A:4:DG:OP2	1:A:4:DG:H8	0.41	1.99	1	1
1:B:8:DA:H4'	1:B:9:DG:OP1	0.40	2.16	8	1
1:B:10:DG:H2''	1:B:11:DG:O5'	0.40	2.16	8	1
1:A:7:DG:C1'	1:A:8:DA:OP2	0.40	2.66	4	1

## 6.3 Torsion angles [\(i\)](#)

### 6.3.1 Protein backbone [\(i\)](#)

There are no protein molecules in this entry.

### 6.3.2 Protein sidechains [\(i\)](#)

There are no protein molecules in this entry.

### 6.3.3 RNA [\(i\)](#)

There are no RNA molecules in this entry.

## 6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

## 6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

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

There are no chain breaks in this entry.

## 7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 18% for the well-defined parts and 18% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *assigned\_chem\_shift\_list\_1*

#### 7.1.1 Bookkeeping [i](#)

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	134
Number of shifts mapped to atoms	134
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

#### 7.1.2 Chemical shift referencing [i](#)

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

#### 7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 18%, i.e. 131 atoms were assigned a chemical shift out of a possible 744. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Sugar	98/432 (23%)	98/252 (39%)	0/180 (0%)	0/0 (—%)
Base	33/312 (11%)	33/204 (16%)	0/44 (0%)	0/64 (0%)
Overall	131/744 (18%)	131/456 (29%)	0/224 (0%)	0/64 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 18%, i.e. 131 atoms were assigned a chemical shift out of a possible 744. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Sugar	98/432 (23%)	98/252 (39%)	0/180 (0%)	0/0 (—%)
Base	33/312 (11%)	33/204 (16%)	0/44 (0%)	0/64 (0%)
Overall	131/744 (18%)	131/456 (29%)	0/224 (0%)	0/64 (0%)

#### 7.1.4 Statistically unusual chemical shifts [i](#)

The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	2	DG	H5'	2.83	2.99 – 5.28	-5.7

#### 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	1190
Intra-residue ( $ i-j =0$ )	600
Sequential ( $ i-j =1$ )	274
Medium range ( $ i-j >1$ and $ i-j <5$ )	176
Long range ( $ i-j \geq 5$ )	140
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	62
Number of unmapped restraints	0
Number of restraints per residue	34.8
Number of long range restraints per residue <sup>1</sup>	3.9

<sup>1</sup>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)	79.2	0.2
0.2-0.5 (Medium)	169.0	0.5
>0.5 (Large)	3.8	0.72

### 8.2.2 Average number of dihedral-angle violations per model

Dihedral-angle violations less than  $1^\circ$  are not included in the calculation. There are no dihedral-angle violations

## 9 Distance violation analysis [i](#)

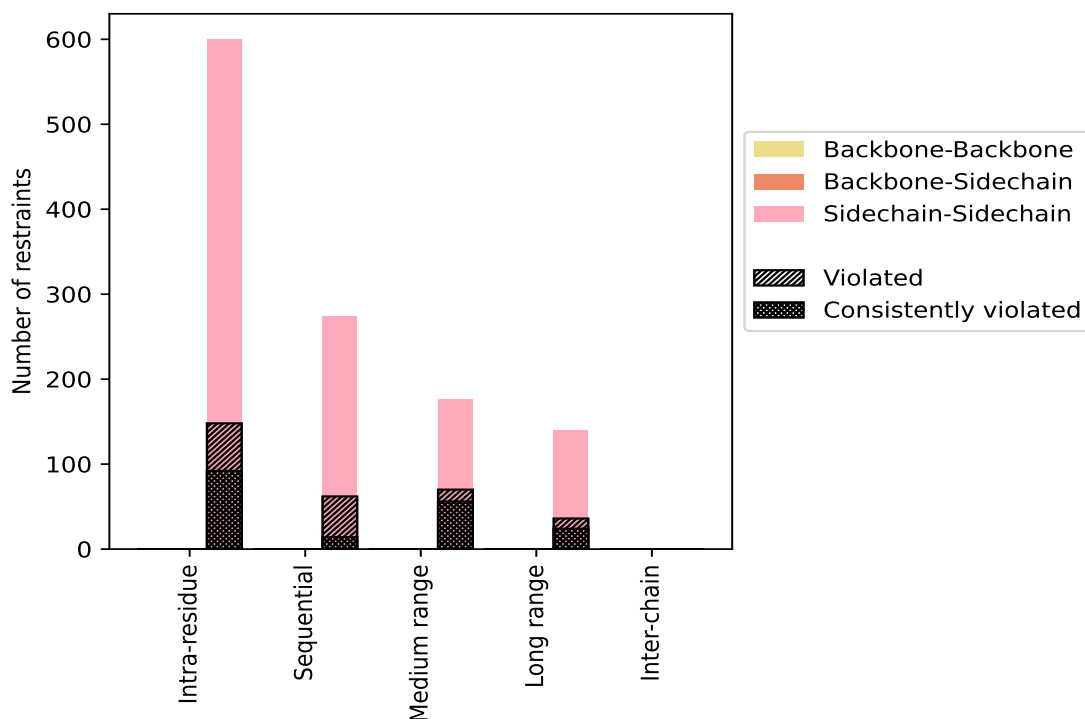
### 9.1 Summary of distance violations [i](#)

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.

Restrains type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>600</b>	<b>50.4</b>	<b>148</b>	<b>24.7</b>	<b>12.4</b>	<b>92</b>	<b>15.3</b>	<b>7.7</b>
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	600	50.4	148	24.7	12.4	92	15.3	7.7
<b>Sequential (<math> i-j =1</math>)</b>	<b>274</b>	<b>23.0</b>	<b>62</b>	<b>22.6</b>	<b>5.2</b>	<b>14</b>	<b>5.1</b>	<b>1.2</b>
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	274	23.0	62	22.6	5.2	14	5.1	1.2
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>176</b>	<b>14.8</b>	<b>70</b>	<b>39.8</b>	<b>5.9</b>	<b>56</b>	<b>31.8</b>	<b>4.7</b>
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	176	14.8	70	39.8	5.9	56	31.8	4.7
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>140</b>	<b>11.8</b>	<b>36</b>	<b>25.7</b>	<b>3.0</b>	<b>24</b>	<b>17.1</b>	<b>2.0</b>
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	140	11.8	36	25.7	3.0	24	17.1	2.0
<b>Inter-chain</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
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
<b>Hydrogen bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>1190</b>	<b>100.0</b>	<b>316</b>	<b>26.6</b>	<b>26.6</b>	<b>186</b>	<b>15.6</b>	<b>15.6</b>
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	1190	100.0	316	26.6	26.6	186	15.6	15.6

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

### 9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



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

## 9.2 Distance violation statistics for each model [i](#)

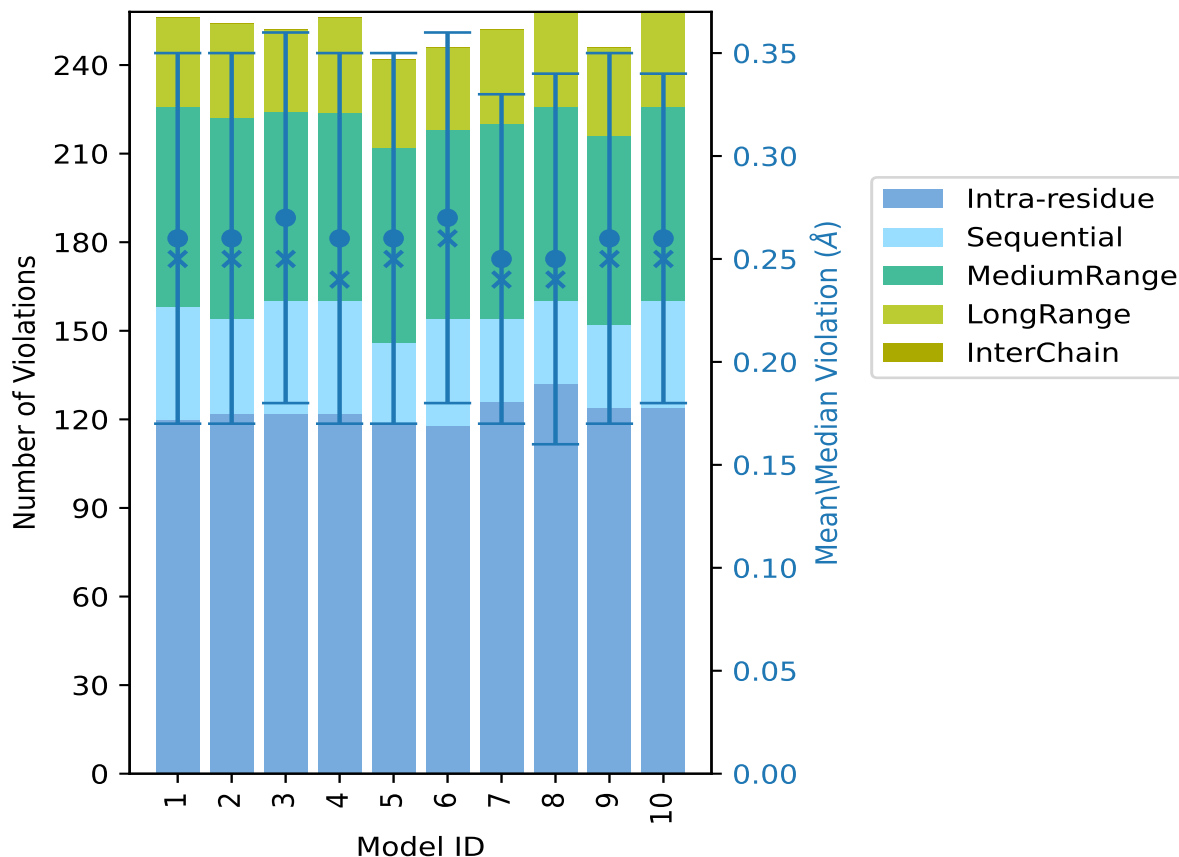
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	120	38	68	30	0	256	0.26	0.53	0.09	0.25
2	122	32	68	32	0	254	0.26	0.61	0.09	0.25
3	122	38	64	28	0	252	0.27	0.71	0.09	0.25
4	122	38	64	32	0	256	0.26	0.54	0.09	0.24
5	118	28	66	30	0	242	0.26	0.72	0.09	0.25
6	118	36	64	28	0	246	0.27	0.53	0.09	0.26
7	126	28	66	32	0	252	0.25	0.5	0.08	0.24
8	132	28	66	32	0	258	0.25	0.65	0.09	0.24
9	124	28	64	30	0	246	0.26	0.64	0.09	0.25
10	124	36	66	32	0	258	0.26	0.54	0.08	0.25

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints,

<sup>5</sup>Inter-chain restraints, <sup>6</sup>Standard deviation

### 9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



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 [i](#)

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, 874(IR:452, SQ:212, MR:106, LR:104, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
6	12	0	4	0	22	1	10.0
6	10	0	0	0	16	2	20.0
6	4	0	0	0	10	3	30.0
6	2	4	0	0	12	4	40.0

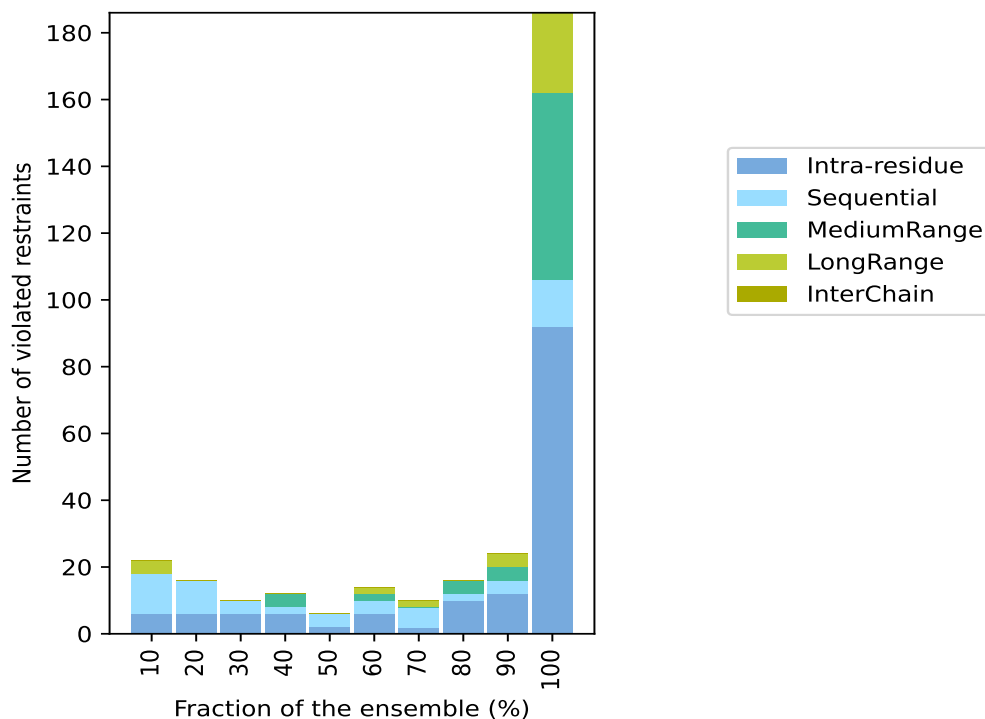
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Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
2	4	0	0	0	6	5	50.0
6	4	2	2	0	14	6	60.0
2	6	0	2	0	10	7	70.0
10	2	4	0	0	16	8	80.0
12	4	4	4	0	24	9	90.0
92	14	56	24	0	186	10	100.0

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints, <sup>5</sup>Inter-chain restraints, <sup>6</sup> Number of models with violations

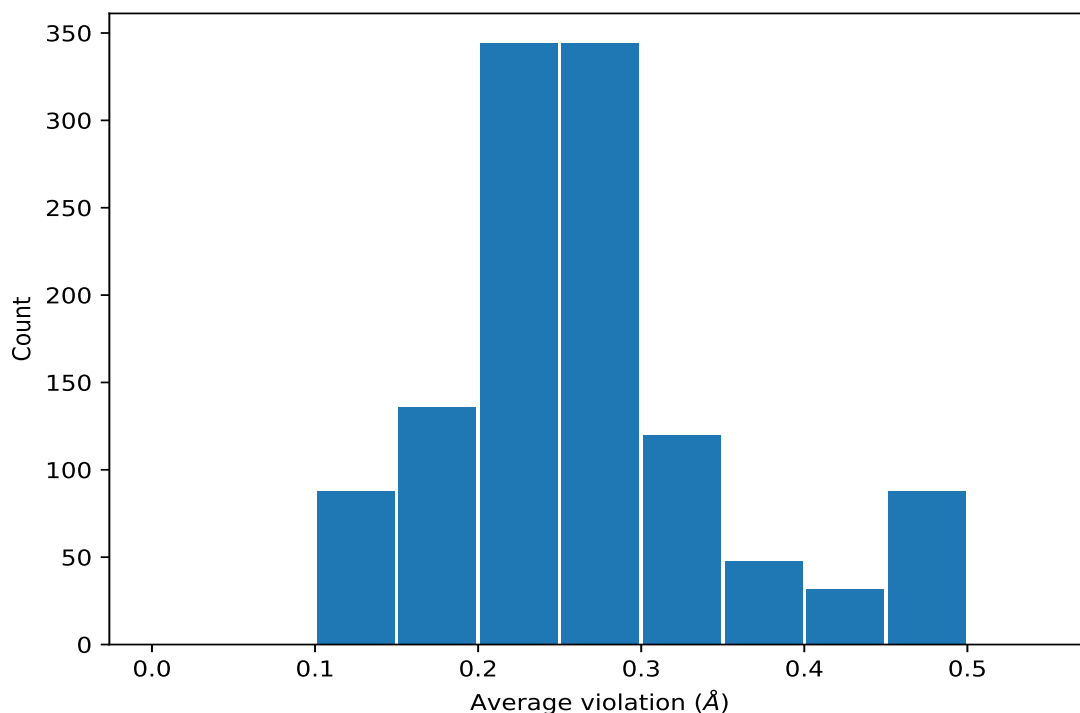
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 9.4 Most violated distance restraints in the ensemble [i](#)

### 9.4.1 Histogram : Distribution of mean distance violations [i](#)

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 [i](#)

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 <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	10	0.49	0.09	0.5
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	10	0.49	0.09	0.5
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	10	0.49	0.09	0.5
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	10	0.49	0.09	0.5
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	10	0.49	0.09	0.5
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	10	0.49	0.09	0.5
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	10	0.49	0.09	0.5
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	10	0.49	0.09	0.5
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	10	0.47	0.08	0.48
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	10	0.47	0.08	0.48
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	10	0.47	0.08	0.48
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	10	0.47	0.08	0.48
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	10	0.47	0.08	0.48
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	10	0.47	0.08	0.48
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	10	0.47	0.08	0.48
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	10	0.47	0.08	0.48

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	10	0.45	0.05	0.46
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	10	0.45	0.05	0.46
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	10	0.45	0.05	0.46
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	10	0.45	0.05	0.46
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	10	0.45	0.05	0.46
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	10	0.45	0.05	0.46
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	10	0.45	0.05	0.46
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	10	0.45	0.05	0.46
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	10	0.45	0.01	0.45
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	10	0.45	0.01	0.45
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	10	0.45	0.01	0.45
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	10	0.45	0.01	0.45
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	10	0.45	0.01	0.45
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	10	0.45	0.01	0.45
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	10	0.45	0.01	0.45
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	10	0.45	0.01	0.45
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	10	0.41	0.04	0.39
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	10	0.41	0.04	0.39
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	10	0.41	0.04	0.39
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	10	0.41	0.04	0.39
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	10	0.41	0.04	0.39
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	10	0.41	0.04	0.39
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	10	0.41	0.04	0.39
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	10	0.41	0.04	0.39
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	10	0.4	0.07	0.4
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	10	0.4	0.07	0.4
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	10	0.4	0.07	0.4
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	10	0.4	0.07	0.4
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	10	0.4	0.07	0.4
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	10	0.4	0.07	0.4
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	10	0.4	0.07	0.4
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	10	0.4	0.07	0.4
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	10	0.4	0.05	0.4
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	10	0.4	0.05	0.4
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	10	0.4	0.05	0.4
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	10	0.4	0.05	0.4
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	10	0.4	0.05	0.4
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	10	0.4	0.05	0.4
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	10	0.4	0.05	0.4
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	10	0.4	0.05	0.4
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	10	0.39	0.02	0.39
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	10	0.39	0.02	0.39

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	10	0.39	0.02	0.39
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	10	0.39	0.02	0.39
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	10	0.39	0.02	0.39
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	10	0.39	0.02	0.39
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	10	0.39	0.02	0.39
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	10	0.39	0.02	0.39
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	10	0.38	0.01	0.38
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	10	0.38	0.01	0.38
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	10	0.38	0.01	0.38
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	10	0.38	0.01	0.38
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	10	0.38	0.01	0.38
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	10	0.38	0.01	0.38
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	10	0.38	0.01	0.38
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	10	0.38	0.01	0.38
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	10	0.37	0.02	0.38
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	10	0.37	0.02	0.38
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	10	0.37	0.02	0.38
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	10	0.37	0.02	0.38
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	10	0.37	0.02	0.38
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	10	0.37	0.02	0.38
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	10	0.37	0.02	0.38
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	10	0.37	0.02	0.38
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	10	0.36	0.01	0.36
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	10	0.36	0.01	0.36
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	10	0.36	0.01	0.36
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	10	0.36	0.01	0.36
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	10	0.36	0.01	0.36
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	10	0.36	0.01	0.36
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	10	0.36	0.01	0.36
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	10	0.36	0.01	0.36
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	10	0.36	0.05	0.36
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	10	0.36	0.05	0.36
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	10	0.36	0.05	0.36
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	10	0.36	0.05	0.36
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	10	0.36	0.05	0.36
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	10	0.36	0.05	0.36
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	10	0.36	0.05	0.36
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	10	0.36	0.05	0.36
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	10	0.34	0.02	0.34
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	10	0.34	0.02	0.34
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	10	0.34	0.02	0.34
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	10	0.34	0.02	0.34

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	10	0.34	0.02	0.34
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	10	0.34	0.02	0.34
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	10	0.34	0.02	0.34
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	10	0.34	0.02	0.34
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	10	0.34	0.02	0.34
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	10	0.34	0.02	0.34
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	10	0.34	0.02	0.34
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	10	0.34	0.02	0.34
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	10	0.34	0.02	0.34
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	10	0.34	0.02	0.34
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	10	0.34	0.02	0.34
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	10	0.34	0.02	0.34
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	10	0.34	0.01	0.34
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	10	0.34	0.01	0.34
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	10	0.34	0.01	0.34
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	10	0.34	0.01	0.34
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	10	0.34	0.01	0.34
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	10	0.34	0.01	0.34
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	10	0.34	0.01	0.34
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	10	0.34	0.01	0.34
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	10	0.33	0.0	0.33
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	10	0.33	0.0	0.33
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	10	0.33	0.0	0.33
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	10	0.33	0.0	0.33
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	10	0.33	0.0	0.33
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	10	0.33	0.0	0.33
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	10	0.33	0.0	0.33
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	10	0.33	0.0	0.33
(1,589)	1:A:15:DG:H1'	1:A:15:DG:H8	10	0.33	0.01	0.34
(1,589)	1:A:15:DG:H1'	1:B:15:DG:H8	10	0.33	0.01	0.34
(1,589)	1:B:15:DG:H1'	1:A:15:DG:H8	10	0.33	0.01	0.34
(1,589)	1:B:15:DG:H1'	1:B:15:DG:H8	10	0.33	0.01	0.34
(1,1024)	1:A:15:DG:H1'	1:A:15:DG:H8	10	0.33	0.01	0.34
(1,1024)	1:A:15:DG:H1'	1:B:15:DG:H8	10	0.33	0.01	0.34
(1,1024)	1:B:15:DG:H1'	1:A:15:DG:H8	10	0.33	0.01	0.34
(1,1024)	1:B:15:DG:H1'	1:B:15:DG:H8	10	0.33	0.01	0.34
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	10	0.32	0.0	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	10	0.32	0.0	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	10	0.32	0.0	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	10	0.32	0.0	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	10	0.32	0.0	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	10	0.32	0.0	0.32

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1002)	1:B:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	10	0.32	0.0	0.32
(1,1002)	1:B:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	10	0.32	0.0	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	10	0.32	0.0	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	10	0.31	0.0	0.31
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	10	0.31	0.03	0.32
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	10	0.31	0.03	0.32
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	10	0.31	0.03	0.32
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	10	0.31	0.03	0.32
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	10	0.31	0.03	0.32
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	10	0.31	0.03	0.32
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	10	0.31	0.03	0.32
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	10	0.31	0.03	0.32
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,1053)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,1053)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,1053)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,1053)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31	0.0	0.31
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	10	0.31	0.03	0.32
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	10	0.31	0.03	0.32
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	10	0.31	0.03	0.32
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	10	0.31	0.03	0.32
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	10	0.31	0.03	0.32
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	10	0.31	0.03	0.32
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	10	0.31	0.03	0.32
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	10	0.31	0.03	0.32

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	10	0.3	0.02	0.32
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	10	0.3	0.02	0.32
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	10	0.3	0.02	0.32
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	10	0.3	0.02	0.32
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	10	0.3	0.02	0.32
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	10	0.3	0.02	0.32
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	10	0.3	0.02	0.32
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	10	0.3	0.02	0.32
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	10	0.3	0.0	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	10	0.3	0.0	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	10	0.3	0.0	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	10	0.3	0.0	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	10	0.3	0.0	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	10	0.3	0.0	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	10	0.3	0.0	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	10	0.3	0.0	0.3
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	10	0.3	0.01	0.3
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	10	0.3	0.01	0.3
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	10	0.3	0.01	0.3
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	10	0.3	0.01	0.3
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	10	0.3	0.01	0.3
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	10	0.3	0.01	0.3
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	10	0.3	0.01	0.3
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	10	0.3	0.01	0.3
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	10	0.3	0.02	0.3
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	10	0.3	0.02	0.3
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	10	0.3	0.02	0.3
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	10	0.3	0.02	0.3
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	10	0.3	0.02	0.3
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	10	0.3	0.02	0.3
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	10	0.3	0.02	0.3
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	10	0.3	0.02	0.3
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	10	0.29	0.0	0.29
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	10	0.29	0.0	0.29
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	10	0.29	0.0	0.29
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	10	0.29	0.0	0.29
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	10	0.29	0.0	0.29
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	10	0.29	0.0	0.29
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	10	0.29	0.0	0.29
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	10	0.29	0.0	0.29
(1,581)	1:A:14:DG:H1'	1:A:15:DG:H8	10	0.29	0.05	0.3
(1,581)	1:A:14:DG:H1'	1:B:15:DG:H8	10	0.29	0.05	0.3

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,581)	1:B:14:DG:H1'	1:A:15:DG:H8	10	0.29	0.05	0.3
(1,581)	1:B:14:DG:H1'	1:B:15:DG:H8	10	0.29	0.05	0.3
(1,1016)	1:A:14:DG:H1'	1:A:15:DG:H8	10	0.29	0.05	0.3
(1,1016)	1:A:14:DG:H1'	1:B:15:DG:H8	10	0.29	0.05	0.3
(1,1016)	1:B:14:DG:H1'	1:A:15:DG:H8	10	0.29	0.05	0.3
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	10	0.29	0.05	0.3
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	10	0.29	0.02	0.29
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	10	0.29	0.02	0.29
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	10	0.29	0.02	0.29
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	10	0.29	0.02	0.29
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	10	0.29	0.02	0.29
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	10	0.29	0.02	0.29
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	10	0.29	0.02	0.29
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	10	0.29	0.02	0.29
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	10	0.29	0.03	0.29
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	10	0.29	0.03	0.29
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	10	0.29	0.03	0.29
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	10	0.29	0.03	0.29
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	10	0.29	0.03	0.29
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	10	0.29	0.03	0.29
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	10	0.29	0.03	0.29
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	10	0.29	0.03	0.29
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	10	0.29	0.01	0.29
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	10	0.29	0.01	0.29
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	10	0.29	0.01	0.29
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	10	0.29	0.01	0.29
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	10	0.29	0.01	0.29
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	10	0.29	0.01	0.29
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	10	0.29	0.01	0.29
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	10	0.29	0.01	0.29
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	10	0.28	0.01	0.28
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	10	0.28	0.01	0.28
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	10	0.28	0.01	0.28
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	10	0.28	0.01	0.28
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	10	0.28	0.01	0.28
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	10	0.28	0.01	0.28
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	10	0.28	0.01	0.28
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	10	0.28	0.01	0.28
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	10	0.28	0.01	0.28
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	10	0.28	0.01	0.28
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	10	0.28	0.01	0.28
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	10	0.28	0.01	0.28

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	10	0.28	0.01	0.28
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	10	0.28	0.01	0.28
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	10	0.28	0.01	0.28
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	10	0.28	0.01	0.28
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	10	0.28	0.01	0.28
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	10	0.28	0.01	0.28
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	10	0.28	0.01	0.28
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	10	0.28	0.01	0.28
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	10	0.28	0.01	0.28
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	10	0.28	0.01	0.28
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	10	0.28	0.01	0.28
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	10	0.28	0.01	0.28
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	10	0.27	0.05	0.26
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	10	0.27	0.05	0.26
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	10	0.27	0.05	0.26
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	10	0.27	0.05	0.26
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	10	0.27	0.05	0.26
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	10	0.27	0.05	0.26
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	10	0.27	0.05	0.26
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	10	0.27	0.05	0.26
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	10	0.27	0.01	0.28
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	10	0.27	0.01	0.28
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	10	0.27	0.01	0.28
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	10	0.27	0.01	0.28
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	10	0.27	0.01	0.28
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	10	0.27	0.01	0.28
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	10	0.27	0.01	0.28
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	10	0.27	0.01	0.28
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	10	0.27	0.01	0.27
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	10	0.27	0.01	0.27
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	10	0.27	0.01	0.27
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	10	0.27	0.01	0.27
(1,1044)	1:A:16:DT:H1'	1:A:16:DT:H2''	10	0.27	0.01	0.27
(1,1044)	1:A:16:DT:H1'	1:B:16:DT:H2''	10	0.27	0.01	0.27
(1,1044)	1:B:16:DT:H1'	1:A:16:DT:H2''	10	0.27	0.01	0.27
(1,1044)	1:B:16:DT:H1'	1:B:16:DT:H2''	10	0.27	0.01	0.27
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	10	0.27	0.01	0.27
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	10	0.27	0.01	0.27
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	10	0.27	0.01	0.27
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	10	0.27	0.01	0.27
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	10	0.27	0.01	0.27
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	10	0.27	0.01	0.27

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	10	0.27	0.01	0.27
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	10	0.27	0.01	0.27
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	10	0.27	0.12	0.2
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	10	0.27	0.12	0.2
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	10	0.27	0.12	0.2
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	10	0.27	0.12	0.2
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	10	0.27	0.12	0.2
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	10	0.27	0.12	0.2
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	10	0.27	0.12	0.2
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	10	0.27	0.12	0.2
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	10	0.27	0.01	0.26
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	10	0.27	0.01	0.26
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	10	0.27	0.01	0.26
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	10	0.27	0.01	0.26
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	10	0.27	0.01	0.26
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	10	0.27	0.01	0.26
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	10	0.27	0.01	0.26
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	10	0.27	0.01	0.26
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	10	0.27	0.02	0.26
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	10	0.27	0.02	0.26
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	10	0.27	0.02	0.26
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	10	0.27	0.02	0.26
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	10	0.27	0.02	0.26
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	10	0.27	0.02	0.26
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	10	0.27	0.02	0.26
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	10	0.27	0.02	0.26
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	10	0.26	0.03	0.26
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	10	0.26	0.03	0.26
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	10	0.26	0.03	0.26
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	10	0.26	0.03	0.26
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	10	0.26	0.03	0.26
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	10	0.26	0.03	0.26
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	10	0.26	0.03	0.26
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	10	0.26	0.03	0.26
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	10	0.26	0.01	0.26
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	10	0.26	0.01	0.26
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	10	0.26	0.01	0.26
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	10	0.26	0.01	0.26
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	10	0.26	0.01	0.26
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	10	0.26	0.01	0.26
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	10	0.26	0.01	0.26
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	10	0.26	0.01	0.26

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	10	0.26	0.01	0.26
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	10	0.26	0.01	0.26
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	10	0.26	0.01	0.26
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	10	0.26	0.01	0.26
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	10	0.26	0.01	0.26
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	10	0.26	0.01	0.26
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	10	0.26	0.01	0.26
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	10	0.26	0.01	0.26
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	10	0.26	0.01	0.26
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	10	0.26	0.01	0.26
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	10	0.26	0.01	0.26
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	10	0.26	0.01	0.26
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	10	0.26	0.01	0.26
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	10	0.26	0.01	0.26
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	10	0.26	0.01	0.26
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	10	0.26	0.01	0.26
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	10	0.26	0.01	0.26
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	10	0.26	0.01	0.26
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	10	0.26	0.01	0.26
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	10	0.26	0.01	0.26
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	10	0.26	0.01	0.26
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	10	0.26	0.01	0.26
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	10	0.26	0.01	0.26
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	10	0.26	0.01	0.26
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	10	0.26	0.01	0.26
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	10	0.26	0.01	0.26
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	10	0.26	0.01	0.26
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	10	0.26	0.01	0.26
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	10	0.26	0.01	0.26
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	10	0.26	0.01	0.26
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	10	0.26	0.01	0.26
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	10	0.26	0.01	0.26
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	10	0.25	0.04	0.26
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	10	0.25	0.04	0.26
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	10	0.25	0.04	0.26
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	10	0.25	0.04	0.26
(1,1091)	1:A:18:DG:H2''	1:A:18:DG:H3'	10	0.25	0.04	0.26
(1,1091)	1:A:18:DG:H2''	1:B:18:DG:H3'	10	0.25	0.04	0.26
(1,1091)	1:B:18:DG:H2''	1:A:18:DG:H3'	10	0.25	0.04	0.26
(1,1091)	1:B:18:DG:H2''	1:B:18:DG:H3'	10	0.25	0.04	0.26
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	10	0.25	0.01	0.25
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	10	0.25	0.01	0.25

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	10	0.25	0.01	0.25
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	10	0.25	0.01	0.25
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	10	0.25	0.01	0.25
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	10	0.25	0.01	0.25
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	10	0.25	0.01	0.25
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	10	0.25	0.01	0.25
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	10	0.25	0.02	0.24
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	10	0.25	0.02	0.24
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	10	0.25	0.02	0.24
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	10	0.25	0.02	0.24
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	10	0.25	0.02	0.24
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	10	0.25	0.02	0.24
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	10	0.25	0.02	0.24
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	10	0.25	0.02	0.24
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	10	0.25	0.01	0.24
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	10	0.25	0.01	0.24
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	10	0.25	0.01	0.24
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	10	0.25	0.01	0.24
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	10	0.25	0.01	0.24
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	10	0.25	0.01	0.24
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	10	0.25	0.01	0.24
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	10	0.25	0.01	0.24
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	10	0.24	0.01	0.24
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	10	0.24	0.01	0.24
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	10	0.24	0.01	0.24
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	10	0.24	0.01	0.24
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	10	0.24	0.01	0.24
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	10	0.24	0.01	0.24
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	10	0.24	0.01	0.24
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	10	0.24	0.01	0.24
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	10	0.24	0.01	0.24
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	10	0.24	0.01	0.24
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	10	0.24	0.01	0.24
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	10	0.24	0.01	0.24
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	10	0.24	0.01	0.24
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	10	0.24	0.01	0.24
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	10	0.24	0.01	0.24
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	10	0.24	0.01	0.24
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	10	0.24	0.06	0.26
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	10	0.24	0.06	0.26
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	10	0.24	0.06	0.26
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	10	0.24	0.06	0.26

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	10	0.24	0.06	0.26
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	10	0.24	0.06	0.26
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	10	0.24	0.06	0.26
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	10	0.24	0.06	0.26
(1,508)	1:A:11:DG:H1 <sup>7</sup>	1:A:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,508)	1:A:11:DG:H1 <sup>7</sup>	1:B:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,508)	1:B:11:DG:H1 <sup>7</sup>	1:A:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,508)	1:B:11:DG:H1 <sup>7</sup>	1:B:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,943)	1:A:11:DG:H1 <sup>7</sup>	1:A:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,943)	1:A:11:DG:H1 <sup>7</sup>	1:B:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,943)	1:B:11:DG:H1 <sup>7</sup>	1:A:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,943)	1:B:11:DG:H1 <sup>7</sup>	1:B:11:DG:H2 <sup>7</sup>	10	0.24	0.03	0.25
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	10	0.24	0.04	0.24
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	10	0.24	0.04	0.24
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	10	0.24	0.04	0.24
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	10	0.24	0.04	0.24
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	10	0.24	0.04	0.24
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	10	0.24	0.04	0.24
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	10	0.24	0.04	0.24
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	10	0.24	0.04	0.24
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	10	0.24	0.01	0.24
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	10	0.24	0.01	0.24
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	10	0.24	0.01	0.24
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	10	0.24	0.01	0.24
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	10	0.24	0.01	0.24
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	10	0.24	0.01	0.24
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	10	0.24	0.01	0.24
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	10	0.24	0.01	0.24
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	10	0.24	0.01	0.23
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	10	0.24	0.01	0.23
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	10	0.24	0.01	0.23
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	10	0.24	0.01	0.23
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	10	0.24	0.01	0.23
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	10	0.24	0.01	0.23
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	10	0.24	0.01	0.23
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	10	0.24	0.01	0.23
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	10	0.23	0.02	0.24
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	10	0.23	0.02	0.24
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	10	0.23	0.02	0.24
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	10	0.23	0.02	0.24
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	10	0.23	0.02	0.24
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	10	0.23	0.02	0.24

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	10	0.23	0.02	0.24
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	10	0.23	0.02	0.24
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	10	0.23	0.01	0.23
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	10	0.23	0.01	0.23
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	10	0.23	0.01	0.23
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	10	0.23	0.01	0.23
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	10	0.23	0.01	0.23
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	10	0.23	0.01	0.23
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	10	0.23	0.01	0.23
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	10	0.23	0.01	0.23
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	10	0.23	0.01	0.23
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	10	0.23	0.01	0.23
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	10	0.23	0.01	0.23
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	10	0.23	0.01	0.23
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	10	0.23	0.01	0.23
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	10	0.23	0.01	0.23
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	10	0.23	0.01	0.23
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	10	0.23	0.01	0.23
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	10	0.23	0.08	0.2
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	10	0.23	0.08	0.2
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	10	0.23	0.08	0.2
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	10	0.23	0.08	0.2
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	10	0.23	0.08	0.2
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	10	0.23	0.08	0.2
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	10	0.23	0.08	0.2
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	10	0.23	0.08	0.2
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	10	0.22	0.02	0.22
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	10	0.22	0.02	0.22
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	10	0.22	0.02	0.22
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	10	0.22	0.02	0.22
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	10	0.22	0.02	0.22
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	10	0.22	0.02	0.22
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	10	0.22	0.02	0.22
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	10	0.22	0.02	0.22
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	10	0.22	0.01	0.22
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	10	0.22	0.01	0.22
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	10	0.22	0.01	0.22
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	10	0.22	0.01	0.22
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	10	0.22	0.01	0.22
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	10	0.22	0.01	0.22
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	10	0.22	0.01	0.22
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	10	0.22	0.01	0.22

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	10	0.22	0.03	0.22
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	10	0.22	0.03	0.22
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	10	0.22	0.03	0.22
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	10	0.22	0.03	0.22
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	10	0.22	0.03	0.22
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	10	0.22	0.03	0.22
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	10	0.22	0.03	0.22
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	10	0.22	0.03	0.22
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	10	0.22	0.02	0.23
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	10	0.22	0.02	0.23
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	10	0.22	0.02	0.23
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	10	0.22	0.02	0.23
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	10	0.22	0.02	0.23
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	10	0.22	0.02	0.23
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	10	0.22	0.02	0.23
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	10	0.22	0.02	0.23
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	10	0.22	0.0	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	10	0.22	0.0	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	10	0.22	0.0	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	10	0.22	0.0	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	10	0.22	0.0	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	10	0.22	0.0	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	10	0.22	0.0	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	10	0.22	0.0	0.22
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	10	0.21	0.01	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	10	0.21	0.01	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	10	0.21	0.01	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	10	0.21	0.01	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	10	0.21	0.01	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	10	0.21	0.01	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	10	0.21	0.01	0.21
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	10	0.21	0.01	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	10	0.21	0.0	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	10	0.21	0.0	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	10	0.21	0.0	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	10	0.21	0.0	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	10	0.21	0.0	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	10	0.21	0.0	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	10	0.21	0.0	0.21
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	10	0.21	0.0	0.21
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	10	0.2	0.0	0.2
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	10	0.2	0.0	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	10	0.2	0.0	0.2
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	10	0.2	0.0	0.2
(1,880)	1:A:7:DG:H2'	1:A:7:DG:H2''	10	0.2	0.0	0.2
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	10	0.2	0.0	0.2
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	10	0.2	0.0	0.2
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	10	0.2	0.0	0.2
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	10	0.2	0.01	0.2
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	10	0.2	0.01	0.2
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	10	0.2	0.01	0.2
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	10	0.2	0.01	0.2
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	10	0.2	0.01	0.2
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	10	0.2	0.01	0.2
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	10	0.2	0.01	0.2
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	10	0.2	0.01	0.2
(1,517)	1:A:11:DG:H2'	1:A:11:DG:H2''	10	0.2	0.0	0.2
(1,517)	1:A:11:DG:H2'	1:B:11:DG:H2''	10	0.2	0.0	0.2
(1,517)	1:B:11:DG:H2'	1:A:11:DG:H2''	10	0.2	0.0	0.2
(1,517)	1:B:11:DG:H2'	1:B:11:DG:H2''	10	0.2	0.0	0.2
(1,952)	1:A:11:DG:H2'	1:A:11:DG:H2''	10	0.2	0.0	0.2
(1,952)	1:A:11:DG:H2'	1:B:11:DG:H2''	10	0.2	0.0	0.2
(1,952)	1:B:11:DG:H2'	1:A:11:DG:H2''	10	0.2	0.0	0.2
(1,952)	1:B:11:DG:H2'	1:B:11:DG:H2''	10	0.2	0.0	0.2
(1,599)	1:A:15:DG:H2'	1:A:15:DG:H2''	10	0.2	0.0	0.2
(1,599)	1:A:15:DG:H2'	1:B:15:DG:H2''	10	0.2	0.0	0.2
(1,599)	1:B:15:DG:H2'	1:A:15:DG:H2''	10	0.2	0.0	0.2
(1,599)	1:B:15:DG:H2'	1:B:15:DG:H2''	10	0.2	0.0	0.2
(1,1034)	1:A:15:DG:H2'	1:A:15:DG:H2''	10	0.2	0.0	0.2
(1,1034)	1:A:15:DG:H2'	1:B:15:DG:H2''	10	0.2	0.0	0.2
(1,1034)	1:B:15:DG:H2'	1:A:15:DG:H2''	10	0.2	0.0	0.2
(1,1034)	1:B:15:DG:H2'	1:B:15:DG:H2''	10	0.2	0.0	0.2
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	10	0.2	0.01	0.2
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	10	0.2	0.01	0.2
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	10	0.2	0.01	0.2
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	10	0.2	0.01	0.2
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	10	0.2	0.01	0.2
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	10	0.2	0.01	0.2
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	10	0.2	0.01	0.2
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	10	0.2	0.01	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	10	0.2	0.0	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	10	0.2	0.0	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	10	0.2	0.0	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	10	0.2	0.0	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	10	0.2	0.0	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	10	0.2	0.0	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	10	0.2	0.0	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	10	0.2	0.0	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	10	0.2	0.0	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	10	0.2	0.0	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	10	0.2	0.0	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	10	0.2	0.0	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	10	0.2	0.0	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	10	0.2	0.0	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	10	0.2	0.0	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	10	0.2	0.0	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	10	0.2	0.0	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	10	0.2	0.0	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	10	0.2	0.0	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	10	0.2	0.0	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	10	0.2	0.0	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	10	0.2	0.0	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	10	0.2	0.0	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	10	0.2	0.0	0.2
(1,559)	1:A:13:DG:H2'	1:A:13:DG:H2''	10	0.2	0.0	0.2
(1,559)	1:A:13:DG:H2'	1:B:13:DG:H2''	10	0.2	0.0	0.2
(1,559)	1:B:13:DG:H2'	1:A:13:DG:H2''	10	0.2	0.0	0.2
(1,559)	1:B:13:DG:H2'	1:B:13:DG:H2''	10	0.2	0.0	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	10	0.2	0.0	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	10	0.2	0.0	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	10	0.2	0.0	0.2
(1,578)	1:B:14:DG:H2'	1:B:14:DG:H2''	10	0.2	0.0	0.2
(1,636)	1:A:17:DG:H2'	1:A:17:DG:H2''	10	0.2	0.0	0.2
(1,636)	1:A:17:DG:H2'	1:B:17:DG:H2''	10	0.2	0.0	0.2
(1,636)	1:B:17:DG:H2'	1:A:17:DG:H2''	10	0.2	0.0	0.2
(1,636)	1:B:17:DG:H2'	1:B:17:DG:H2''	10	0.2	0.0	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	10	0.2	0.0	0.2
(1,658)	1:A:18:DG:H2'	1:B:18:DG:H2''	10	0.2	0.0	0.2
(1,658)	1:B:18:DG:H2'	1:A:18:DG:H2''	10	0.2	0.0	0.2
(1,658)	1:B:18:DG:H2'	1:B:18:DG:H2''	10	0.2	0.0	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	10	0.2	0.0	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	10	0.2	0.0	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	10	0.2	0.0	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	10	0.2	0.0	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	10	0.2	0.0	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	10	0.2	0.0	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	10	0.2	0.0	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	10	0.2	0.0	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	10	0.2	0.0	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	10	0.2	0.0	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	10	0.2	0.0	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	10	0.2	0.0	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	10	0.2	0.0	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	10	0.2	0.0	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	10	0.2	0.0	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	10	0.2	0.0	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	10	0.2	0.0	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	10	0.2	0.0	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	10	0.2	0.0	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	10	0.2	0.0	0.2
(1,934)	1:A:10:DG:H2'	1:A:10:DG:H2''	10	0.2	0.0	0.2
(1,934)	1:A:10:DG:H2'	1:B:10:DG:H2''	10	0.2	0.0	0.2
(1,934)	1:B:10:DG:H2'	1:A:10:DG:H2''	10	0.2	0.0	0.2
(1,934)	1:B:10:DG:H2'	1:B:10:DG:H2''	10	0.2	0.0	0.2
(1,994)	1:A:13:DG:H2'	1:A:13:DG:H2''	10	0.2	0.0	0.2
(1,994)	1:A:13:DG:H2'	1:B:13:DG:H2''	10	0.2	0.0	0.2
(1,994)	1:B:13:DG:H2'	1:A:13:DG:H2''	10	0.2	0.0	0.2
(1,994)	1:B:13:DG:H2'	1:B:13:DG:H2''	10	0.2	0.0	0.2
(1,1013)	1:A:14:DG:H2'	1:A:14:DG:H2''	10	0.2	0.0	0.2
(1,1013)	1:A:14:DG:H2'	1:B:14:DG:H2''	10	0.2	0.0	0.2
(1,1013)	1:B:14:DG:H2'	1:A:14:DG:H2''	10	0.2	0.0	0.2
(1,1013)	1:B:14:DG:H2'	1:B:14:DG:H2''	10	0.2	0.0	0.2
(1,1071)	1:A:17:DG:H2'	1:A:17:DG:H2''	10	0.2	0.0	0.2
(1,1071)	1:A:17:DG:H2'	1:B:17:DG:H2''	10	0.2	0.0	0.2
(1,1071)	1:B:17:DG:H2'	1:A:17:DG:H2''	10	0.2	0.0	0.2
(1,1071)	1:B:17:DG:H2'	1:B:17:DG:H2''	10	0.2	0.0	0.2
(1,1093)	1:A:18:DG:H2'	1:A:18:DG:H2''	10	0.2	0.0	0.2
(1,1093)	1:A:18:DG:H2'	1:B:18:DG:H2''	10	0.2	0.0	0.2
(1,1093)	1:B:18:DG:H2'	1:A:18:DG:H2''	10	0.2	0.0	0.2
(1,1093)	1:B:18:DG:H2'	1:B:18:DG:H2''	10	0.2	0.0	0.2
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	10	0.2	0.03	0.2
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	10	0.2	0.03	0.2
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	10	0.2	0.03	0.2
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	10	0.2	0.03	0.2
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	10	0.2	0.03	0.2
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	10	0.2	0.03	0.2
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	10	0.2	0.03	0.2
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	10	0.2	0.03	0.2

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	10	0.2	0.04	0.2
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	10	0.2	0.04	0.2
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	10	0.2	0.04	0.2
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	10	0.2	0.04	0.2
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	10	0.2	0.04	0.2
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	10	0.2	0.04	0.2
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	10	0.2	0.04	0.2
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	10	0.2	0.04	0.2
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	10	0.2	0.01	0.2
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	10	0.2	0.01	0.2
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	10	0.2	0.01	0.2
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	10	0.2	0.01	0.2
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	10	0.2	0.01	0.2
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	10	0.2	0.01	0.2
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	10	0.2	0.01	0.2
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	10	0.2	0.01	0.2
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	10	0.19	0.02	0.2
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	10	0.19	0.02	0.2
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	10	0.19	0.02	0.2
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	10	0.19	0.02	0.2
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	10	0.19	0.02	0.2
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	10	0.19	0.02	0.2
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	10	0.19	0.02	0.2
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	10	0.19	0.02	0.2
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	10	0.18	0.03	0.18
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	10	0.18	0.03	0.18
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	10	0.18	0.03	0.18
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	10	0.18	0.03	0.18
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	10	0.18	0.03	0.18
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	10	0.18	0.03	0.18
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	10	0.18	0.03	0.18
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	10	0.18	0.03	0.18
(1,654)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,654)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,654)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,654)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	10	0.16	0.04	0.15
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	10	0.16	0.02	0.16
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	10	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	10	0.16	0.02	0.16
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	10	0.16	0.02	0.16
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	10	0.16	0.02	0.16
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	10	0.16	0.02	0.16
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	10	0.16	0.02	0.16
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	10	0.16	0.02	0.16
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	10	0.12	0.0	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	10	0.12	0.0	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	10	0.12	0.0	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	10	0.12	0.0	0.12
(1,1043)	1:A:16:DT:H1'	1:A:16:DT:H2'	10	0.12	0.0	0.12
(1,1043)	1:A:16:DT:H1'	1:B:16:DT:H2'	10	0.12	0.0	0.12
(1,1043)	1:B:16:DT:H1'	1:A:16:DT:H2'	10	0.12	0.0	0.12
(1,1043)	1:B:16:DT:H1'	1:B:16:DT:H2'	10	0.12	0.0	0.12
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	9	0.32	0.08	0.36
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	9	0.32	0.08	0.36
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	9	0.32	0.08	0.36
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	9	0.32	0.08	0.36
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	9	0.32	0.08	0.36
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	9	0.32	0.08	0.36
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	9	0.32	0.08	0.36
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	9	0.32	0.08	0.36
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	9	0.31	0.06	0.34
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	9	0.31	0.06	0.34
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	9	0.31	0.06	0.34
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	9	0.31	0.06	0.34
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	9	0.31	0.06	0.34
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	9	0.31	0.06	0.34
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	9	0.31	0.06	0.34
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	9	0.31	0.06	0.34
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	9	0.3	0.05	0.3
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	9	0.3	0.05	0.3
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	9	0.3	0.05	0.3
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	9	0.3	0.05	0.3
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	9	0.3	0.05	0.3
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	9	0.3	0.05	0.3
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	9	0.3	0.05	0.3
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	9	0.3	0.05	0.3
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	9	0.28	0.1	0.3
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	9	0.28	0.1	0.3
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	9	0.28	0.1	0.3
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	9	0.28	0.1	0.3

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	9	0.28	0.1	0.3
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	9	0.28	0.1	0.3
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	9	0.28	0.1	0.3
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	9	0.28	0.1	0.3
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	9	0.25	0.01	0.26
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	9	0.25	0.01	0.26
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	9	0.25	0.01	0.26
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	9	0.25	0.01	0.26
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	9	0.25	0.01	0.26
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	9	0.25	0.01	0.26
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	9	0.25	0.01	0.26
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	9	0.25	0.01	0.26
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	9	0.25	0.07	0.25
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	9	0.25	0.07	0.25
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	9	0.25	0.07	0.25
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	9	0.25	0.07	0.25
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	9	0.25	0.07	0.25
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	9	0.25	0.07	0.25
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	9	0.25	0.07	0.25
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	9	0.25	0.07	0.25
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	9	0.21	0.05	0.24
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	9	0.21	0.05	0.24
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	9	0.21	0.05	0.24
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	9	0.21	0.05	0.24
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	9	0.21	0.05	0.24
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	9	0.21	0.05	0.24
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	9	0.21	0.05	0.24
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	9	0.21	0.05	0.24
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	9	0.18	0.03	0.19
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	9	0.18	0.03	0.19
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	9	0.18	0.03	0.19
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	9	0.18	0.03	0.19
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	9	0.18	0.03	0.19
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	9	0.18	0.03	0.19
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	9	0.18	0.03	0.19
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	9	0.18	0.03	0.19
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	9	0.18	0.02	0.17
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	9	0.18	0.02	0.17
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	9	0.18	0.02	0.17
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	9	0.18	0.02	0.17
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	9	0.18	0.02	0.17
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	9	0.18	0.02	0.17

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	9	0.18	0.02	0.17
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	9	0.18	0.02	0.17
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	9	0.17	0.03	0.17
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	9	0.17	0.03	0.17
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	9	0.17	0.03	0.17
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	9	0.17	0.03	0.17
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	9	0.17	0.03	0.17
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	9	0.17	0.03	0.17
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	9	0.17	0.03	0.17
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	9	0.17	0.03	0.17
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	9	0.17	0.03	0.18
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	9	0.17	0.03	0.18
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	9	0.17	0.03	0.18
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	9	0.17	0.03	0.18
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	9	0.17	0.03	0.18
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	9	0.17	0.03	0.18
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	9	0.17	0.03	0.18
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	9	0.17	0.03	0.18
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	9	0.15	0.03	0.13
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	9	0.15	0.03	0.13
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	9	0.15	0.03	0.13
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	9	0.15	0.03	0.13
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	9	0.15	0.03	0.13
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	9	0.15	0.03	0.13
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	9	0.15	0.03	0.13
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	9	0.15	0.03	0.13
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	8	0.28	0.09	0.26
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	8	0.28	0.09	0.26
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	8	0.28	0.09	0.26
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	8	0.28	0.09	0.26
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	8	0.28	0.09	0.26
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	8	0.28	0.09	0.26
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	8	0.28	0.09	0.26
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	8	0.28	0.09	0.26
(1,588)	1:A:15:DG:H1'	1:A:15:DG:H4'	8	0.28	0.06	0.3
(1,588)	1:A:15:DG:H1'	1:B:15:DG:H4'	8	0.28	0.06	0.3
(1,588)	1:B:15:DG:H1'	1:A:15:DG:H4'	8	0.28	0.06	0.3
(1,588)	1:B:15:DG:H1'	1:B:15:DG:H4'	8	0.28	0.06	0.3
(1,1023)	1:A:15:DG:H1'	1:A:15:DG:H4'	8	0.28	0.06	0.3
(1,1023)	1:A:15:DG:H1'	1:B:15:DG:H4'	8	0.28	0.06	0.3
(1,1023)	1:B:15:DG:H1'	1:A:15:DG:H4'	8	0.28	0.06	0.3
(1,1023)	1:B:15:DG:H1'	1:B:15:DG:H4'	8	0.28	0.06	0.3

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	8	0.26	0.09	0.31
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	8	0.26	0.09	0.31
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	8	0.26	0.09	0.31
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	8	0.26	0.09	0.31
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	8	0.26	0.09	0.31
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	8	0.26	0.09	0.31
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	8	0.26	0.09	0.31
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	8	0.26	0.09	0.31
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	8	0.26	0.09	0.28
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	8	0.26	0.09	0.28
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	8	0.26	0.09	0.28
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	8	0.26	0.09	0.28
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	8	0.26	0.09	0.28
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	8	0.26	0.09	0.28
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	8	0.26	0.09	0.28
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	8	0.26	0.09	0.28
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	8	0.23	0.04	0.22
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	8	0.23	0.04	0.22
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	8	0.23	0.04	0.22
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	8	0.23	0.04	0.22
(1,942)	1:A:11:DG:H1'	1:A:11:DG:H4'	8	0.23	0.04	0.22
(1,942)	1:A:11:DG:H1'	1:B:11:DG:H4'	8	0.23	0.04	0.22
(1,942)	1:B:11:DG:H1'	1:A:11:DG:H4'	8	0.23	0.04	0.22
(1,942)	1:B:11:DG:H1'	1:B:11:DG:H4'	8	0.23	0.04	0.22
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	8	0.2	0.05	0.22
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	8	0.2	0.05	0.22
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	8	0.2	0.05	0.22
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	8	0.2	0.05	0.22
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	8	0.2	0.05	0.22
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	8	0.2	0.05	0.22
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	8	0.2	0.05	0.22
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	8	0.2	0.05	0.22
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	8	0.16	0.04	0.16
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	8	0.16	0.04	0.16
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	8	0.16	0.04	0.16
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	8	0.16	0.04	0.16
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	8	0.16	0.04	0.16
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	8	0.16	0.04	0.16
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	8	0.16	0.04	0.16
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	8	0.16	0.04	0.16
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	8	0.14	0.03	0.15
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	8	0.14	0.03	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	8	0.14	0.03	0.15
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	8	0.14	0.03	0.15
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	8	0.14	0.03	0.15
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	8	0.14	0.03	0.15
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	8	0.14	0.03	0.15
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	8	0.14	0.03	0.15
(1,535)	1:A:12:DA:H1'	1:A:12:DA:H4'	7	0.28	0.07	0.3
(1,535)	1:A:12:DA:H1'	1:B:12:DA:H4'	7	0.28	0.07	0.3
(1,535)	1:B:12:DA:H1'	1:A:12:DA:H4'	7	0.28	0.07	0.3
(1,535)	1:B:12:DA:H1'	1:B:12:DA:H4'	7	0.28	0.07	0.3
(1,970)	1:A:12:DA:H1'	1:A:12:DA:H4'	7	0.28	0.07	0.3
(1,970)	1:A:12:DA:H1'	1:B:12:DA:H4'	7	0.28	0.07	0.3
(1,970)	1:B:12:DA:H1'	1:A:12:DA:H4'	7	0.28	0.07	0.3
(1,970)	1:B:12:DA:H1'	1:B:12:DA:H4'	7	0.28	0.07	0.3
(1,630)	1:A:16:DT:H4'	1:A:17:DG:H3'	7	0.28	0.08	0.3
(1,630)	1:A:16:DT:H4'	1:B:17:DG:H3'	7	0.28	0.08	0.3
(1,630)	1:B:16:DT:H4'	1:A:17:DG:H3'	7	0.28	0.08	0.3
(1,630)	1:B:16:DT:H4'	1:B:17:DG:H3'	7	0.28	0.08	0.3
(1,1065)	1:A:16:DT:H4'	1:A:17:DG:H3'	7	0.28	0.08	0.3
(1,1065)	1:A:16:DT:H4'	1:B:17:DG:H3'	7	0.28	0.08	0.3
(1,1065)	1:B:16:DT:H4'	1:A:17:DG:H3'	7	0.28	0.08	0.3
(1,1065)	1:B:16:DT:H4'	1:B:17:DG:H3'	7	0.28	0.08	0.3
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	7	0.27	0.08	0.33
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	7	0.27	0.08	0.33
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	7	0.27	0.08	0.33
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	7	0.27	0.08	0.33
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	7	0.27	0.08	0.33
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	7	0.27	0.08	0.33
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	7	0.27	0.08	0.33
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	7	0.27	0.08	0.33
(1,565)	1:A:13:DG:H2'	1:A:14:DG:H8	7	0.18	0.07	0.13
(1,565)	1:A:13:DG:H2'	1:B:14:DG:H8	7	0.18	0.07	0.13
(1,565)	1:B:13:DG:H2'	1:A:14:DG:H8	7	0.18	0.07	0.13
(1,565)	1:B:13:DG:H2'	1:B:14:DG:H8	7	0.18	0.07	0.13
(1,1000)	1:A:13:DG:H2'	1:A:14:DG:H8	7	0.18	0.07	0.13
(1,1000)	1:A:13:DG:H2'	1:B:14:DG:H8	7	0.18	0.07	0.13
(1,1000)	1:B:13:DG:H2'	1:A:14:DG:H8	7	0.18	0.07	0.13
(1,1000)	1:B:13:DG:H2'	1:B:14:DG:H8	7	0.18	0.07	0.13
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	7	0.17	0.05	0.16
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	7	0.17	0.05	0.16
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	7	0.17	0.05	0.16
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	7	0.17	0.05	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	7	0.17	0.05	0.16
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	7	0.17	0.05	0.16
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	7	0.17	0.05	0.16
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	7	0.17	0.05	0.16
(1,348)	1:A:3:DG:H4'	1:A:4:DG:H8	6	0.4	0.1	0.36
(1,348)	1:A:3:DG:H4'	1:B:4:DG:H8	6	0.4	0.1	0.36
(1,348)	1:B:3:DG:H4'	1:A:4:DG:H8	6	0.4	0.1	0.36
(1,348)	1:B:3:DG:H4'	1:B:4:DG:H8	6	0.4	0.1	0.36
(1,783)	1:A:3:DG:H4'	1:A:4:DG:H8	6	0.4	0.1	0.36
(1,783)	1:A:3:DG:H4'	1:B:4:DG:H8	6	0.4	0.1	0.36
(1,783)	1:B:3:DG:H4'	1:A:4:DG:H8	6	0.4	0.1	0.36
(1,783)	1:B:3:DG:H4'	1:B:4:DG:H8	6	0.4	0.1	0.36
(1,410)	1:A:5:DG:H8	1:A:6:DG:H8	6	0.23	0.07	0.26
(1,410)	1:A:5:DG:H8	1:B:6:DG:H8	6	0.23	0.07	0.26
(1,410)	1:B:5:DG:H8	1:A:6:DG:H8	6	0.23	0.07	0.26
(1,410)	1:B:5:DG:H8	1:B:6:DG:H8	6	0.23	0.07	0.26
(1,845)	1:A:5:DG:H8	1:A:6:DG:H8	6	0.23	0.07	0.26
(1,845)	1:A:5:DG:H8	1:B:6:DG:H8	6	0.23	0.07	0.26
(1,845)	1:B:5:DG:H8	1:A:6:DG:H8	6	0.23	0.07	0.26
(1,845)	1:B:5:DG:H8	1:B:6:DG:H8	6	0.23	0.07	0.26
(1,381)	1:A:4:DG:H2'	1:A:4:DG:H8	6	0.21	0.08	0.2
(1,381)	1:A:4:DG:H2'	1:B:4:DG:H8	6	0.21	0.08	0.2
(1,381)	1:B:4:DG:H2'	1:A:4:DG:H8	6	0.21	0.08	0.2
(1,381)	1:B:4:DG:H2'	1:B:4:DG:H8	6	0.21	0.08	0.2
(1,816)	1:A:4:DG:H2'	1:A:4:DG:H8	6	0.21	0.08	0.2
(1,816)	1:A:4:DG:H2'	1:B:4:DG:H8	6	0.21	0.08	0.2
(1,816)	1:B:4:DG:H2'	1:A:4:DG:H8	6	0.21	0.08	0.2
(1,816)	1:B:4:DG:H2'	1:B:4:DG:H8	6	0.21	0.08	0.2
(1,1129)	1:A:17:DG:H1	1:A:5:DG:O6	6	0.16	0.03	0.17
(1,1129)	1:A:17:DG:H1	1:B:5:DG:O6	6	0.16	0.03	0.17
(1,1129)	1:B:17:DG:H1	1:A:5:DG:O6	6	0.16	0.03	0.17
(1,1129)	1:B:17:DG:H1	1:B:5:DG:O6	6	0.16	0.03	0.17
(1,1177)	1:A:17:DG:H1	1:A:5:DG:O6	6	0.16	0.03	0.17
(1,1177)	1:A:17:DG:H1	1:B:5:DG:O6	6	0.16	0.03	0.17
(1,1177)	1:B:17:DG:H1	1:A:5:DG:O6	6	0.16	0.03	0.17
(1,1177)	1:B:17:DG:H1	1:B:5:DG:O6	6	0.16	0.03	0.17
(1,605)	1:A:16:DT:H1'	1:A:16:DT:H4'	6	0.16	0.04	0.16
(1,605)	1:A:16:DT:H1'	1:B:16:DT:H4'	6	0.16	0.04	0.16
(1,605)	1:B:16:DT:H1'	1:A:16:DT:H4'	6	0.16	0.04	0.16
(1,605)	1:B:16:DT:H1'	1:B:16:DT:H4'	6	0.16	0.04	0.16
(1,1040)	1:A:16:DT:H1'	1:A:16:DT:H4'	6	0.16	0.04	0.16
(1,1040)	1:A:16:DT:H1'	1:B:16:DT:H4'	6	0.16	0.04	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1040)	1:B:16:DT:H1'	1:A:16:DT:H4'	6	0.16	0.04	0.16
(1,1040)	1:B:16:DT:H1'	1:B:16:DT:H4'	6	0.16	0.04	0.16
(1,251)	1:A:1:DA:H2''	1:A:1:DA:H8	6	0.13	0.01	0.13
(1,251)	1:A:1:DA:H2''	1:B:1:DA:H8	6	0.13	0.01	0.13
(1,251)	1:B:1:DA:H2''	1:A:1:DA:H8	6	0.13	0.01	0.13
(1,251)	1:B:1:DA:H2''	1:B:1:DA:H8	6	0.13	0.01	0.13
(1,686)	1:A:1:DA:H2''	1:A:1:DA:H8	6	0.13	0.01	0.13
(1,686)	1:A:1:DA:H2''	1:B:1:DA:H8	6	0.13	0.01	0.13
(1,686)	1:B:1:DA:H2''	1:A:1:DA:H8	6	0.13	0.01	0.13
(1,686)	1:B:1:DA:H2''	1:B:1:DA:H8	6	0.13	0.01	0.13
(1,1097)	1:A:3:DG:H1	1:A:7:DG:O6	6	0.12	0.02	0.12
(1,1097)	1:A:3:DG:H1	1:B:7:DG:O6	6	0.12	0.02	0.12
(1,1097)	1:B:3:DG:H1	1:A:7:DG:O6	6	0.12	0.02	0.12
(1,1097)	1:B:3:DG:H1	1:B:7:DG:O6	6	0.12	0.02	0.12
(1,1145)	1:A:3:DG:H1	1:A:7:DG:O6	6	0.12	0.02	0.12
(1,1145)	1:A:3:DG:H1	1:B:7:DG:O6	6	0.12	0.02	0.12
(1,1145)	1:B:3:DG:H1	1:A:7:DG:O6	6	0.12	0.02	0.12
(1,1145)	1:B:3:DG:H1	1:B:7:DG:O6	6	0.12	0.02	0.12
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5'	5	0.47	0.21	0.42
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5''	5	0.47	0.21	0.42
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5'	5	0.47	0.21	0.42
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5''	5	0.47	0.21	0.42
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5'	5	0.47	0.21	0.42
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5''	5	0.47	0.21	0.42
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5'	5	0.47	0.21	0.42
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5''	5	0.47	0.21	0.42
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5'	5	0.47	0.21	0.42
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5''	5	0.47	0.21	0.42
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5'	5	0.47	0.21	0.42
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5''	5	0.47	0.21	0.42
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5'	5	0.47	0.21	0.42
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5''	5	0.47	0.21	0.42
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5'	5	0.47	0.21	0.42
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5''	5	0.47	0.21	0.42
(1,345)	1:A:3:DG:H8	1:A:4:DG:H3'	5	0.32	0.13	0.37
(1,345)	1:A:3:DG:H8	1:B:4:DG:H3'	5	0.32	0.13	0.37
(1,345)	1:B:3:DG:H8	1:A:4:DG:H3'	5	0.32	0.13	0.37
(1,345)	1:B:3:DG:H8	1:B:4:DG:H3'	5	0.32	0.13	0.37
(1,780)	1:A:3:DG:H8	1:A:4:DG:H3'	5	0.32	0.13	0.37
(1,780)	1:A:3:DG:H8	1:B:4:DG:H3'	5	0.32	0.13	0.37
(1,780)	1:B:3:DG:H8	1:A:4:DG:H3'	5	0.32	0.13	0.37
(1,780)	1:B:3:DG:H8	1:B:4:DG:H3'	5	0.32	0.13	0.37

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,288)	1:A:2:DG:H3'	1:A:2:DG:H5''	5	0.14	0.02	0.14
(1,288)	1:A:2:DG:H3'	1:B:2:DG:H5''	5	0.14	0.02	0.14
(1,288)	1:B:2:DG:H3'	1:A:2:DG:H5''	5	0.14	0.02	0.14
(1,288)	1:B:2:DG:H3'	1:B:2:DG:H5''	5	0.14	0.02	0.14
(1,723)	1:A:2:DG:H3'	1:A:2:DG:H5''	5	0.14	0.02	0.14
(1,723)	1:A:2:DG:H3'	1:B:2:DG:H5''	5	0.14	0.02	0.14
(1,723)	1:B:2:DG:H3'	1:A:2:DG:H5''	5	0.14	0.02	0.14
(1,723)	1:B:2:DG:H3'	1:B:2:DG:H5''	5	0.14	0.02	0.14
(1,401)	1:A:5:DG:H5'	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,401)	1:A:5:DG:H5'	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,401)	1:A:5:DG:H5''	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,401)	1:A:5:DG:H5''	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,401)	1:B:5:DG:H5'	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,401)	1:B:5:DG:H5'	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,401)	1:B:5:DG:H5''	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,401)	1:B:5:DG:H5''	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:A:5:DG:H5'	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:A:5:DG:H5'	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:A:5:DG:H5''	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:A:5:DG:H5''	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:B:5:DG:H5'	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:B:5:DG:H5'	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:B:5:DG:H5''	1:A:5:DG:H8	4	0.49	0.19	0.58
(1,836)	1:B:5:DG:H5''	1:B:5:DG:H8	4	0.49	0.19	0.58
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5'	4	0.48	0.13	0.47
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5''	4	0.48	0.13	0.47
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5'	4	0.48	0.13	0.47
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5''	4	0.48	0.13	0.47
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5'	4	0.48	0.13	0.47
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5''	4	0.48	0.13	0.47
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5'	4	0.48	0.13	0.47
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5''	4	0.48	0.13	0.47
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5'	4	0.48	0.13	0.47
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5''	4	0.48	0.13	0.47
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5'	4	0.48	0.13	0.47
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5''	4	0.48	0.13	0.47
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5'	4	0.48	0.13	0.47
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5''	4	0.48	0.13	0.47
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5'	4	0.48	0.13	0.47
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5''	4	0.48	0.13	0.47
(1,351)	1:A:3:DG:H1'	1:A:4:DG:H3'	4	0.36	0.13	0.36
(1,351)	1:A:3:DG:H1'	1:B:4:DG:H3'	4	0.36	0.13	0.36

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,351)	1:B:3:DG:H1'	1:A:4:DG:H3'	4	0.36	0.13	0.36
(1,351)	1:B:3:DG:H1'	1:B:4:DG:H3'	4	0.36	0.13	0.36
(1,786)	1:A:3:DG:H1'	1:A:4:DG:H3'	4	0.36	0.13	0.36
(1,786)	1:A:3:DG:H1'	1:B:4:DG:H3'	4	0.36	0.13	0.36
(1,786)	1:B:3:DG:H1'	1:A:4:DG:H3'	4	0.36	0.13	0.36
(1,786)	1:B:3:DG:H1'	1:B:4:DG:H3'	4	0.36	0.13	0.36
(1,278)	1:A:2:DG:H1'	1:A:2:DG:H4'	4	0.22	0.07	0.22
(1,278)	1:A:2:DG:H1'	1:B:2:DG:H4'	4	0.22	0.07	0.22
(1,278)	1:B:2:DG:H1'	1:A:2:DG:H4'	4	0.22	0.07	0.22
(1,278)	1:B:2:DG:H1'	1:B:2:DG:H4'	4	0.22	0.07	0.22
(1,713)	1:A:2:DG:H1'	1:A:2:DG:H4'	4	0.22	0.07	0.22
(1,713)	1:A:2:DG:H1'	1:B:2:DG:H4'	4	0.22	0.07	0.22
(1,713)	1:B:2:DG:H1'	1:A:2:DG:H4'	4	0.22	0.07	0.22
(1,713)	1:B:2:DG:H1'	1:B:2:DG:H4'	4	0.22	0.07	0.22
(1,1117)	1:A:6:DG:H1	1:A:10:DG:O6	4	0.14	0.03	0.13
(1,1117)	1:A:6:DG:H1	1:B:10:DG:O6	4	0.14	0.03	0.13
(1,1117)	1:B:6:DG:H1	1:A:10:DG:O6	4	0.14	0.03	0.13
(1,1117)	1:B:6:DG:H1	1:B:10:DG:O6	4	0.14	0.03	0.13
(1,1165)	1:A:6:DG:H1	1:A:10:DG:O6	4	0.14	0.03	0.13
(1,1165)	1:A:6:DG:H1	1:B:10:DG:O6	4	0.14	0.03	0.13
(1,1165)	1:B:6:DG:H1	1:A:10:DG:O6	4	0.14	0.03	0.13
(1,1165)	1:B:6:DG:H1	1:B:10:DG:O6	4	0.14	0.03	0.13
(1,1101)	1:A:7:DG:H1	1:A:11:DG:O6	4	0.14	0.02	0.13
(1,1101)	1:A:7:DG:H1	1:B:11:DG:O6	4	0.14	0.02	0.13
(1,1101)	1:B:7:DG:H1	1:A:11:DG:O6	4	0.14	0.02	0.13
(1,1101)	1:B:7:DG:H1	1:B:11:DG:O6	4	0.14	0.02	0.13
(1,1149)	1:A:7:DG:H1	1:A:11:DG:O6	4	0.14	0.02	0.13
(1,1149)	1:A:7:DG:H1	1:B:11:DG:O6	4	0.14	0.02	0.13
(1,1149)	1:B:7:DG:H1	1:A:11:DG:O6	4	0.14	0.02	0.13
(1,1149)	1:B:7:DG:H1	1:B:11:DG:O6	4	0.14	0.02	0.13
(1,311)	1:A:2:DG:H5''	1:A:3:DG:H5'	3	0.26	0.03	0.24
(1,311)	1:A:2:DG:H5''	1:B:3:DG:H5'	3	0.26	0.03	0.24
(1,311)	1:B:2:DG:H5''	1:A:3:DG:H5'	3	0.26	0.03	0.24
(1,311)	1:B:2:DG:H5''	1:B:3:DG:H5'	3	0.26	0.03	0.24
(1,746)	1:A:2:DG:H5''	1:A:3:DG:H5'	3	0.26	0.03	0.24
(1,746)	1:A:2:DG:H5''	1:B:3:DG:H5'	3	0.26	0.03	0.24
(1,746)	1:B:2:DG:H5''	1:A:3:DG:H5'	3	0.26	0.03	0.24
(1,746)	1:B:2:DG:H5''	1:B:3:DG:H5'	3	0.26	0.03	0.24
(1,601)	1:A:15:DG:H2'	1:A:15:DG:H8	3	0.19	0.05	0.21
(1,601)	1:A:15:DG:H2'	1:B:15:DG:H8	3	0.19	0.05	0.21
(1,601)	1:B:15:DG:H2'	1:A:15:DG:H8	3	0.19	0.05	0.21
(1,601)	1:B:15:DG:H2'	1:B:15:DG:H8	3	0.19	0.05	0.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1036)	1:A:15:DG:H2'	1:A:15:DG:H8	3	0.19	0.05	0.21
(1,1036)	1:A:15:DG:H2'	1:B:15:DG:H8	3	0.19	0.05	0.21
(1,1036)	1:B:15:DG:H2'	1:A:15:DG:H8	3	0.19	0.05	0.21
(1,1036)	1:B:15:DG:H2'	1:B:15:DG:H8	3	0.19	0.05	0.21
(1,639)	1:A:17:DG:H1'	1:A:17:DG:H4'	3	0.16	0.06	0.12
(1,639)	1:A:17:DG:H1'	1:B:17:DG:H4'	3	0.16	0.06	0.12
(1,639)	1:B:17:DG:H1'	1:A:17:DG:H4'	3	0.16	0.06	0.12
(1,639)	1:B:17:DG:H1'	1:B:17:DG:H4'	3	0.16	0.06	0.12
(1,1074)	1:A:17:DG:H1'	1:A:17:DG:H4'	3	0.16	0.06	0.12
(1,1074)	1:A:17:DG:H1'	1:B:17:DG:H4'	3	0.16	0.06	0.12
(1,1074)	1:B:17:DG:H1'	1:A:17:DG:H4'	3	0.16	0.06	0.12
(1,1074)	1:B:17:DG:H1'	1:B:17:DG:H4'	3	0.16	0.06	0.12
(1,486)	1:A:9:DG:H2'	1:A:10:DG:H8	3	0.15	0.02	0.14
(1,486)	1:A:9:DG:H2'	1:B:10:DG:H8	3	0.15	0.02	0.14
(1,486)	1:B:9:DG:H2'	1:A:10:DG:H8	3	0.15	0.02	0.14
(1,486)	1:B:9:DG:H2'	1:B:10:DG:H8	3	0.15	0.02	0.14
(1,921)	1:A:9:DG:H2'	1:A:10:DG:H8	3	0.15	0.02	0.14
(1,921)	1:A:9:DG:H2'	1:B:10:DG:H8	3	0.15	0.02	0.14
(1,921)	1:B:9:DG:H2'	1:A:10:DG:H8	3	0.15	0.02	0.14
(1,921)	1:B:9:DG:H2'	1:B:10:DG:H8	3	0.15	0.02	0.14
(1,519)	1:A:11:DG:H2'	1:A:11:DG:H8	3	0.14	0.03	0.14
(1,519)	1:A:11:DG:H2'	1:B:11:DG:H8	3	0.14	0.03	0.14
(1,519)	1:B:11:DG:H2'	1:A:11:DG:H8	3	0.14	0.03	0.14
(1,519)	1:B:11:DG:H2'	1:B:11:DG:H8	3	0.14	0.03	0.14
(1,954)	1:A:11:DG:H2'	1:A:11:DG:H8	3	0.14	0.03	0.14
(1,954)	1:A:11:DG:H2'	1:B:11:DG:H8	3	0.14	0.03	0.14
(1,954)	1:B:11:DG:H2'	1:A:11:DG:H8	3	0.14	0.03	0.14
(1,954)	1:B:11:DG:H2'	1:B:11:DG:H8	3	0.14	0.03	0.14
(1,383)	1:A:4:DG:H4'	1:A:5:DG:H2'	2	0.48	0.01	0.48
(1,383)	1:A:4:DG:H4'	1:B:5:DG:H2'	2	0.48	0.01	0.48
(1,383)	1:B:4:DG:H4'	1:A:5:DG:H2'	2	0.48	0.01	0.48
(1,383)	1:B:4:DG:H4'	1:B:5:DG:H2'	2	0.48	0.01	0.48
(1,818)	1:A:4:DG:H4'	1:A:5:DG:H2'	2	0.48	0.01	0.48
(1,818)	1:A:4:DG:H4'	1:B:5:DG:H2'	2	0.48	0.01	0.48
(1,818)	1:B:4:DG:H4'	1:A:5:DG:H2'	2	0.48	0.01	0.48
(1,818)	1:B:4:DG:H4'	1:B:5:DG:H2'	2	0.48	0.01	0.48
(1,346)	1:A:3:DG:H3'	1:A:4:DG:H3'	2	0.33	0.01	0.33
(1,346)	1:A:3:DG:H3'	1:B:4:DG:H3'	2	0.33	0.01	0.33
(1,346)	1:B:3:DG:H3'	1:A:4:DG:H3'	2	0.33	0.01	0.33
(1,346)	1:B:3:DG:H3'	1:B:4:DG:H3'	2	0.33	0.01	0.33
(1,781)	1:A:3:DG:H3'	1:A:4:DG:H3'	2	0.33	0.01	0.33
(1,781)	1:A:3:DG:H3'	1:B:4:DG:H3'	2	0.33	0.01	0.33

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,781)	1:B:3:DG:H3'	1:A:4:DG:H3'	2	0.33	0.01	0.33
(1,781)	1:B:3:DG:H3'	1:B:4:DG:H3'	2	0.33	0.01	0.33
(1,318)	1:A:2:DG:H5''	1:A:3:DG:H8	2	0.26	0.12	0.26
(1,318)	1:A:2:DG:H5''	1:B:3:DG:H8	2	0.26	0.12	0.26
(1,318)	1:B:2:DG:H5''	1:A:3:DG:H8	2	0.26	0.12	0.26
(1,318)	1:B:2:DG:H5''	1:B:3:DG:H8	2	0.26	0.12	0.26
(1,753)	1:A:2:DG:H5''	1:A:3:DG:H8	2	0.26	0.12	0.26
(1,753)	1:A:2:DG:H5''	1:B:3:DG:H8	2	0.26	0.12	0.26
(1,753)	1:B:2:DG:H5''	1:A:3:DG:H8	2	0.26	0.12	0.26
(1,753)	1:B:2:DG:H5''	1:B:3:DG:H8	2	0.26	0.12	0.26
(1,234)	1:A:1:DA:H2	1:A:1:DA:H5'	2	0.26	0.03	0.26
(1,234)	1:A:1:DA:H2	1:B:1:DA:H5'	2	0.26	0.03	0.26
(1,234)	1:B:1:DA:H2	1:A:1:DA:H5'	2	0.26	0.03	0.26
(1,234)	1:B:1:DA:H2	1:B:1:DA:H5'	2	0.26	0.03	0.26
(1,669)	1:A:1:DA:H2	1:A:1:DA:H5'	2	0.26	0.03	0.26
(1,669)	1:A:1:DA:H2	1:B:1:DA:H5'	2	0.26	0.03	0.26
(1,669)	1:B:1:DA:H2	1:A:1:DA:H5'	2	0.26	0.03	0.26
(1,669)	1:B:1:DA:H2	1:B:1:DA:H5'	2	0.26	0.03	0.26
(1,384)	1:A:4:DG:H4'	1:A:5:DG:H8	2	0.24	0.08	0.24
(1,384)	1:A:4:DG:H4'	1:B:5:DG:H8	2	0.24	0.08	0.24
(1,384)	1:B:4:DG:H4'	1:A:5:DG:H8	2	0.24	0.08	0.24
(1,384)	1:B:4:DG:H4'	1:B:5:DG:H8	2	0.24	0.08	0.24
(1,819)	1:A:4:DG:H4'	1:A:5:DG:H8	2	0.24	0.08	0.24
(1,819)	1:A:4:DG:H4'	1:B:5:DG:H8	2	0.24	0.08	0.24
(1,819)	1:B:4:DG:H4'	1:A:5:DG:H8	2	0.24	0.08	0.24
(1,819)	1:B:4:DG:H4'	1:B:5:DG:H8	2	0.24	0.08	0.24
(1,427)	1:A:6:DG:H1'	1:A:7:DG:H8	2	0.19	0.02	0.19
(1,427)	1:A:6:DG:H1'	1:B:7:DG:H8	2	0.19	0.02	0.19
(1,427)	1:B:6:DG:H1'	1:A:7:DG:H8	2	0.19	0.02	0.19
(1,427)	1:B:6:DG:H1'	1:B:7:DG:H8	2	0.19	0.02	0.19
(1,862)	1:A:6:DG:H1'	1:A:7:DG:H8	2	0.19	0.02	0.19
(1,862)	1:A:6:DG:H1'	1:B:7:DG:H8	2	0.19	0.02	0.19
(1,862)	1:B:6:DG:H1'	1:A:7:DG:H8	2	0.19	0.02	0.19
(1,862)	1:B:6:DG:H1'	1:B:7:DG:H8	2	0.19	0.02	0.19
(1,496)	1:A:10:DG:H1'	1:A:10:DG:H2''	2	0.16	0.06	0.16
(1,496)	1:A:10:DG:H1'	1:B:10:DG:H2''	2	0.16	0.06	0.16
(1,496)	1:B:10:DG:H1'	1:A:10:DG:H2''	2	0.16	0.06	0.16
(1,496)	1:B:10:DG:H1'	1:B:10:DG:H2''	2	0.16	0.06	0.16
(1,931)	1:A:10:DG:H1'	1:A:10:DG:H2''	2	0.16	0.06	0.16
(1,931)	1:A:10:DG:H1'	1:B:10:DG:H2''	2	0.16	0.06	0.16
(1,931)	1:B:10:DG:H1'	1:A:10:DG:H2''	2	0.16	0.06	0.16
(1,931)	1:B:10:DG:H1'	1:B:10:DG:H2''	2	0.16	0.06	0.16

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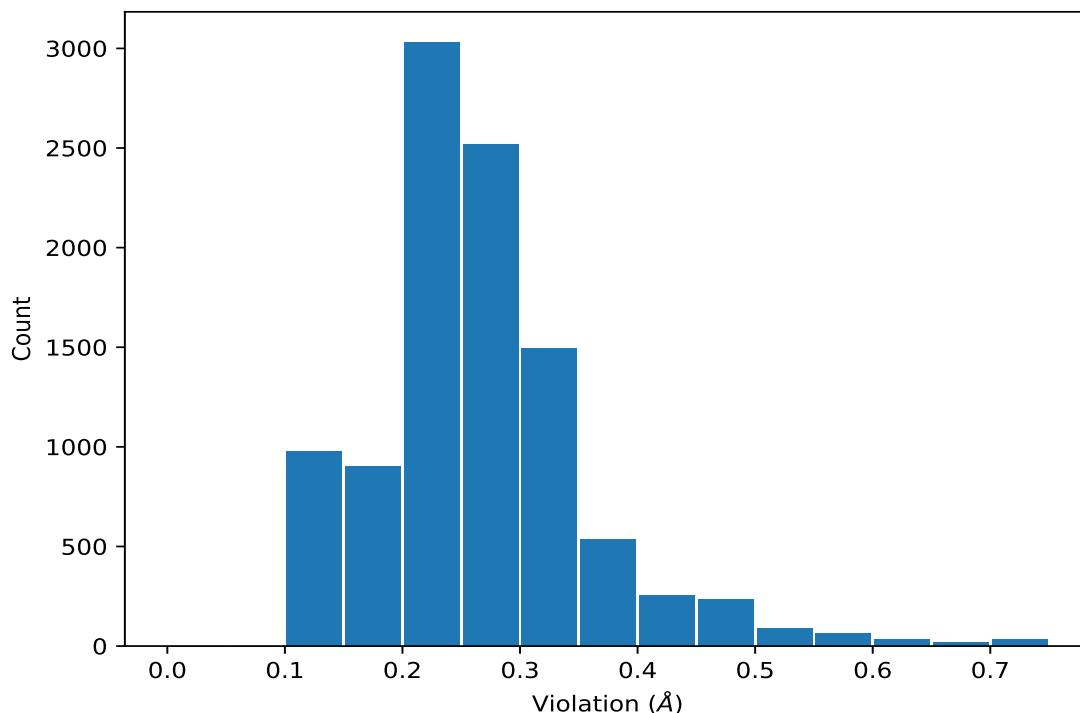
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,322)	1:A:3:DG:H1'	1:A:3:DG:H8	2	0.12	0.0	0.12
(1,322)	1:A:3:DG:H1'	1:B:3:DG:H8	2	0.12	0.0	0.12
(1,322)	1:B:3:DG:H1'	1:A:3:DG:H8	2	0.12	0.0	0.12
(1,322)	1:B:3:DG:H1'	1:B:3:DG:H8	2	0.12	0.0	0.12
(1,757)	1:A:3:DG:H1'	1:A:3:DG:H8	2	0.12	0.0	0.12
(1,757)	1:A:3:DG:H1'	1:B:3:DG:H8	2	0.12	0.0	0.12
(1,757)	1:B:3:DG:H1'	1:A:3:DG:H8	2	0.12	0.0	0.12
(1,757)	1:B:3:DG:H1'	1:B:3:DG:H8	2	0.12	0.0	0.12

<sup>1</sup>Number of violated models, <sup>2</sup>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)
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5'	5	0.72
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5''	5	0.72
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5'	5	0.72
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5''	5	0.72
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5'	5	0.72
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5''	5	0.72
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5'	5	0.72
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5''	5	0.72
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5'	5	0.72
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5''	5	0.72
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5'	5	0.72
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5''	5	0.72
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5'	5	0.72
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5''	5	0.72
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5'	5	0.72
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5''	5	0.72
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5'	3	0.71
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5''	3	0.71
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5'	3	0.71
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5''	3	0.71
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5'	3	0.71
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5''	3	0.71
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5'	3	0.71
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5''	3	0.71
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5'	3	0.71
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5''	3	0.71
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5'	3	0.71
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5''	3	0.71
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5'	3	0.71
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5''	3	0.71
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5'	3	0.71
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5''	3	0.71
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5'	8	0.65
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5''	8	0.65
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5'	8	0.65
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5''	8	0.65
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5'	8	0.65
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5''	8	0.65
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5'	8	0.65
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5''	8	0.65
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5'	8	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5''	8	0.65
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5'	8	0.65
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5''	8	0.65
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5'	8	0.65
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5''	8	0.65
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5'	8	0.65
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5''	8	0.65
(1,836)	1:A:5:DG:H5'	1:A:5:DG:H8	9	0.64
(1,836)	1:A:5:DG:H5'	1:B:5:DG:H8	9	0.64
(1,836)	1:A:5:DG:H5''	1:A:5:DG:H8	9	0.64
(1,836)	1:A:5:DG:H5''	1:B:5:DG:H8	9	0.64
(1,836)	1:B:5:DG:H5'	1:A:5:DG:H8	9	0.64
(1,836)	1:B:5:DG:H5'	1:B:5:DG:H8	9	0.64
(1,836)	1:B:5:DG:H5''	1:A:5:DG:H8	9	0.64
(1,836)	1:B:5:DG:H5''	1:B:5:DG:H8	9	0.64
(1,401)	1:A:5:DG:H5'	1:A:5:DG:H8	9	0.64
(1,401)	1:A:5:DG:H5'	1:B:5:DG:H8	9	0.64
(1,401)	1:A:5:DG:H5''	1:A:5:DG:H8	9	0.64
(1,401)	1:A:5:DG:H5''	1:B:5:DG:H8	9	0.64
(1,401)	1:B:5:DG:H5'	1:A:5:DG:H8	9	0.64
(1,401)	1:B:5:DG:H5'	1:B:5:DG:H8	9	0.64
(1,401)	1:B:5:DG:H5''	1:A:5:DG:H8	9	0.64
(1,401)	1:B:5:DG:H5''	1:B:5:DG:H8	9	0.64
(1,836)	1:A:5:DG:H5'	1:A:5:DG:H8	2	0.61
(1,836)	1:A:5:DG:H5'	1:B:5:DG:H8	2	0.61
(1,836)	1:A:5:DG:H5''	1:A:5:DG:H8	2	0.61
(1,836)	1:A:5:DG:H5''	1:B:5:DG:H8	2	0.61
(1,836)	1:B:5:DG:H5'	1:A:5:DG:H8	2	0.61
(1,836)	1:B:5:DG:H5'	1:B:5:DG:H8	2	0.61
(1,836)	1:B:5:DG:H5''	1:A:5:DG:H8	2	0.61
(1,836)	1:B:5:DG:H5''	1:B:5:DG:H8	2	0.61
(1,401)	1:A:5:DG:H5'	1:A:5:DG:H8	2	0.61
(1,401)	1:A:5:DG:H5'	1:B:5:DG:H8	2	0.61
(1,401)	1:A:5:DG:H5''	1:A:5:DG:H8	2	0.61
(1,401)	1:A:5:DG:H5''	1:B:5:DG:H8	2	0.61
(1,401)	1:B:5:DG:H5'	1:A:5:DG:H8	2	0.61
(1,401)	1:B:5:DG:H5'	1:B:5:DG:H8	2	0.61
(1,401)	1:B:5:DG:H5''	1:A:5:DG:H8	2	0.61
(1,401)	1:B:5:DG:H5''	1:B:5:DG:H8	2	0.61
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	5	0.6
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	5	0.6
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	5	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	5	0.6
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	9	0.6
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	9	0.6
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	9	0.6
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	9	0.6
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	5	0.6
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	5	0.6
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	5	0.6
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	5	0.6
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	9	0.6
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	9	0.6
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	9	0.6
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	9	0.6
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	9	0.58
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	9	0.58
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	9	0.58
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	9	0.58
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	8	0.58
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	8	0.58
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	8	0.58
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	8	0.58
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	9	0.58
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	9	0.58
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	9	0.58
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	9	0.58
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	8	0.58
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	8	0.58
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	8	0.58
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	8	0.58
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5'	2	0.57
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5''	2	0.57
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5'	2	0.57
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5''	2	0.57
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5'	2	0.57
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5''	2	0.57
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5'	2	0.57
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5''	2	0.57
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5'	2	0.57
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5''	2	0.57
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5'	2	0.57
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5''	2	0.57
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5'	2	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5''	2	0.57
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5'	2	0.57
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5''	2	0.57
(1,836)	1:A:5:DG:H5'	1:A:5:DG:H8	8	0.55
(1,836)	1:A:5:DG:H5'	1:B:5:DG:H8	8	0.55
(1,836)	1:A:5:DG:H5''	1:A:5:DG:H8	8	0.55
(1,836)	1:A:5:DG:H5''	1:B:5:DG:H8	8	0.55
(1,836)	1:B:5:DG:H5'	1:A:5:DG:H8	8	0.55
(1,836)	1:B:5:DG:H5'	1:B:5:DG:H8	8	0.55
(1,836)	1:B:5:DG:H5''	1:A:5:DG:H8	8	0.55
(1,836)	1:B:5:DG:H5''	1:B:5:DG:H8	8	0.55
(1,401)	1:A:5:DG:H5'	1:A:5:DG:H8	8	0.55
(1,401)	1:A:5:DG:H5'	1:B:5:DG:H8	8	0.55
(1,401)	1:A:5:DG:H5''	1:A:5:DG:H8	8	0.55
(1,401)	1:A:5:DG:H5''	1:B:5:DG:H8	8	0.55
(1,401)	1:B:5:DG:H5'	1:A:5:DG:H8	8	0.55
(1,401)	1:B:5:DG:H5'	1:B:5:DG:H8	8	0.55
(1,401)	1:B:5:DG:H5''	1:A:5:DG:H8	8	0.55
(1,401)	1:B:5:DG:H5''	1:B:5:DG:H8	8	0.55
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	3	0.54
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	3	0.54
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	3	0.54
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	3	0.54
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	10	0.54
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	10	0.54
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	10	0.54
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	10	0.54
(1,783)	1:A:3:DG:H4'	1:A:4:DG:H8	4	0.54
(1,783)	1:A:3:DG:H4'	1:B:4:DG:H8	4	0.54
(1,783)	1:B:3:DG:H4'	1:A:4:DG:H8	4	0.54
(1,783)	1:B:3:DG:H4'	1:B:4:DG:H8	4	0.54
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	3	0.54
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	3	0.54
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	3	0.54
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	3	0.54
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	10	0.54
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	10	0.54
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	10	0.54
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	10	0.54
(1,348)	1:A:3:DG:H4'	1:A:4:DG:H8	4	0.54
(1,348)	1:A:3:DG:H4'	1:B:4:DG:H8	4	0.54
(1,348)	1:B:3:DG:H4'	1:A:4:DG:H8	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:B:3:DG:H4'	1:B:4:DG:H8	4	0.54
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	1	0.53
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	1	0.53
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	1	0.53
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	1	0.53
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	10	0.53
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	10	0.53
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	10	0.53
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	10	0.53
(1,783)	1:A:3:DG:H4'	1:A:4:DG:H8	6	0.53
(1,783)	1:A:3:DG:H4'	1:B:4:DG:H8	6	0.53
(1,783)	1:B:3:DG:H4'	1:A:4:DG:H8	6	0.53
(1,783)	1:B:3:DG:H4'	1:B:4:DG:H8	6	0.53
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	1	0.53
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	1	0.53
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	1	0.53
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	1	0.53
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	10	0.53
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	10	0.53
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	10	0.53
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	10	0.53
(1,348)	1:A:3:DG:H4'	1:A:4:DG:H8	6	0.53
(1,348)	1:A:3:DG:H4'	1:B:4:DG:H8	6	0.53
(1,348)	1:B:3:DG:H4'	1:A:4:DG:H8	6	0.53
(1,348)	1:B:3:DG:H4'	1:B:4:DG:H8	6	0.53
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	4	0.52
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	4	0.52
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	4	0.52
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	4	0.52
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	4	0.52
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	4	0.52
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	4	0.52
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	4	0.52
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	6	0.51
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	6	0.51
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	6	0.51
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	6	0.51
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	6	0.51
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	6	0.51
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	6	0.51
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	6	0.51
(1,786)	1:A:3:DG:H1'	1:A:4:DG:H3'	4	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,786)	1:A:3:DG:H1'	1:B:4:DG:H3'	4	0.5
(1,786)	1:B:3:DG:H1'	1:A:4:DG:H3'	4	0.5
(1,786)	1:B:3:DG:H1'	1:B:4:DG:H3'	4	0.5
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	1	0.5
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	1	0.5
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	1	0.5
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	1	0.5
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	7	0.5
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	7	0.5
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	7	0.5
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	7	0.5
(1,351)	1:A:3:DG:H1'	1:A:4:DG:H3'	4	0.5
(1,351)	1:A:3:DG:H1'	1:B:4:DG:H3'	4	0.5
(1,351)	1:B:3:DG:H1'	1:A:4:DG:H3'	4	0.5
(1,351)	1:B:3:DG:H1'	1:B:4:DG:H3'	4	0.5
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	1	0.5
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	1	0.5
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	1	0.5
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	1	0.5
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	7	0.5
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	7	0.5
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	7	0.5
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	7	0.5
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	1	0.49
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	1	0.49
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	1	0.49
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	1	0.49
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	6	0.49
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	6	0.49
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	6	0.49
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	6	0.49
(1,786)	1:A:3:DG:H1'	1:A:4:DG:H3'	6	0.49
(1,786)	1:A:3:DG:H1'	1:B:4:DG:H3'	6	0.49
(1,786)	1:B:3:DG:H1'	1:A:4:DG:H3'	6	0.49
(1,786)	1:B:3:DG:H1'	1:B:4:DG:H3'	6	0.49
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	2	0.49
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	2	0.49
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	2	0.49
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	2	0.49
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	4	0.49
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	4	0.49
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	4	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	4	0.49
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	6	0.49
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	6	0.49
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	6	0.49
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	6	0.49
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	1	0.49
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	1	0.49
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	1	0.49
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	1	0.49
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	6	0.49
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	6	0.49
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	6	0.49
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	6	0.49
(1,351)	1:A:3:DG:H1'	1:A:4:DG:H3'	6	0.49
(1,351)	1:A:3:DG:H1'	1:B:4:DG:H3'	6	0.49
(1,351)	1:B:3:DG:H1'	1:A:4:DG:H3'	6	0.49
(1,351)	1:B:3:DG:H1'	1:B:4:DG:H3'	6	0.49
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	2	0.49
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	2	0.49
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	2	0.49
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	2	0.49
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	4	0.49
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	4	0.49
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	4	0.49
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	4	0.49
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	6	0.49
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	6	0.49
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	6	0.49
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	6	0.49
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	5	0.48
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	5	0.48
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	5	0.48
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	5	0.48
(1,818)	1:A:4:DG:H4'	1:A:5:DG:H2'	1	0.48
(1,818)	1:A:4:DG:H4'	1:B:5:DG:H2'	1	0.48
(1,818)	1:B:4:DG:H4'	1:A:5:DG:H2'	1	0.48
(1,818)	1:B:4:DG:H4'	1:B:5:DG:H2'	1	0.48
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	2	0.48
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	2	0.48
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	2	0.48
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	2	0.48
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	4	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	4	0.48
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	4	0.48
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	4	0.48
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	5	0.48
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	5	0.48
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	5	0.48
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	5	0.48
(1,383)	1:A:4:DG:H4'	1:A:5:DG:H2'	1	0.48
(1,383)	1:A:4:DG:H4'	1:B:5:DG:H2'	1	0.48
(1,383)	1:B:4:DG:H4'	1:A:5:DG:H2'	1	0.48
(1,383)	1:B:4:DG:H4'	1:B:5:DG:H2'	1	0.48
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	4	0.48
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	4	0.48
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	4	0.48
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	4	0.48
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	2	0.48
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	2	0.48
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	2	0.48
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	2	0.48
(1,818)	1:A:4:DG:H4'	1:A:5:DG:H2'	10	0.47
(1,818)	1:A:4:DG:H4'	1:B:5:DG:H2'	10	0.47
(1,818)	1:B:4:DG:H4'	1:A:5:DG:H2'	10	0.47
(1,818)	1:B:4:DG:H4'	1:B:5:DG:H2'	10	0.47
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	2	0.47
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	2	0.47
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	2	0.47
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	2	0.47
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	2	0.47
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	2	0.47
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	2	0.47
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	2	0.47
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	6	0.47
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	6	0.47
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	6	0.47
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	6	0.47
(1,383)	1:A:4:DG:H4'	1:A:5:DG:H2'	10	0.47
(1,383)	1:A:4:DG:H4'	1:B:5:DG:H2'	10	0.47
(1,383)	1:B:4:DG:H4'	1:A:5:DG:H2'	10	0.47
(1,383)	1:B:4:DG:H4'	1:B:5:DG:H2'	10	0.47
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	2	0.47
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	2	0.47
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	2	0.47
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	2	0.47
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	2	0.47
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	2	0.47
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	2	0.47
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	6	0.47
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	6	0.47
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	6	0.47
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	6	0.47
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	7	0.46
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	7	0.46
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	7	0.46
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	7	0.46
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	3	0.46
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	3	0.46
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	3	0.46
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	3	0.46
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	6	0.46
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	6	0.46
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	6	0.46
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	6	0.46
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	4	0.46
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	4	0.46
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	4	0.46
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	4	0.46
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	1	0.46
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	1	0.46
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	1	0.46
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	1	0.46
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	3	0.46
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	3	0.46
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	3	0.46
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	3	0.46
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	7	0.46
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	7	0.46
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	7	0.46
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	7	0.46
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	3	0.46
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	3	0.46
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	3	0.46
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	3	0.46
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	6	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	6	0.46
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	6	0.46
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	6	0.46
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	4	0.46
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	4	0.46
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	4	0.46
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	4	0.46
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	1	0.46
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	1	0.46
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	1	0.46
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	1	0.46
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	3	0.46
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	3	0.46
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	3	0.46
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	3	0.46
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	7	0.45
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	7	0.45
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	7	0.45
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	7	0.45
(1,780)	1:A:3:DG:H8	1:A:4:DG:H3'	3	0.45
(1,780)	1:A:3:DG:H8	1:B:4:DG:H3'	3	0.45
(1,780)	1:B:3:DG:H8	1:A:4:DG:H3'	3	0.45
(1,780)	1:B:3:DG:H8	1:B:4:DG:H3'	3	0.45
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	3	0.45
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	3	0.45
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	3	0.45
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	3	0.45
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	8	0.45
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	8	0.45
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	8	0.45
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	8	0.45
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	5	0.45
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	5	0.45
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	5	0.45
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	5	0.45
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	7	0.45
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	7	0.45
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	7	0.45
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	7	0.45
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	8	0.45
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	8	0.45
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	8	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	8	0.45
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	9	0.45
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	9	0.45
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	9	0.45
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	9	0.45
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	10	0.45
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	10	0.45
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	10	0.45
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	10	0.45
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	7	0.45
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	7	0.45
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	7	0.45
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	7	0.45
(1,345)	1:A:3:DG:H8	1:A:4:DG:H3'	3	0.45
(1,345)	1:A:3:DG:H8	1:B:4:DG:H3'	3	0.45
(1,345)	1:B:3:DG:H8	1:A:4:DG:H3'	3	0.45
(1,345)	1:B:3:DG:H8	1:B:4:DG:H3'	3	0.45
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	3	0.45
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	3	0.45
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	3	0.45
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	3	0.45
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	5	0.45
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	5	0.45
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	5	0.45
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	5	0.45
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	7	0.45
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	7	0.45
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	7	0.45
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	7	0.45
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	8	0.45
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	8	0.45
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	8	0.45
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	8	0.45
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	9	0.45
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	9	0.45
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	9	0.45
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	9	0.45
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	10	0.45
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	10	0.45
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	10	0.45
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	10	0.45
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	8	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	8	0.45
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	8	0.45
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	8	0.45
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	4	0.44
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	4	0.44
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	4	0.44
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	4	0.44
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	2	0.44
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	2	0.44
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	2	0.44
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	2	0.44
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	10	0.44
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	10	0.44
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	10	0.44
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	10	0.44
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	2	0.44
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	2	0.44
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	2	0.44
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	2	0.44
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	4	0.44
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	4	0.44
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	4	0.44
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	4	0.44
(1,697)	1:A:1:DA:H8	1:A:2:DG:H8	6	0.44
(1,697)	1:A:1:DA:H8	1:B:2:DG:H8	6	0.44
(1,697)	1:B:1:DA:H8	1:A:2:DG:H8	6	0.44
(1,697)	1:B:1:DA:H8	1:B:2:DG:H8	6	0.44
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	4	0.44
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	4	0.44
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	4	0.44
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	4	0.44
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	2	0.44
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	2	0.44
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	2	0.44
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	2	0.44
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	10	0.44
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	10	0.44
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	10	0.44
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	10	0.44
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	2	0.44
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	2	0.44
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	2	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	2	0.44
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	4	0.44
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	4	0.44
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	4	0.44
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	4	0.44
(1,262)	1:A:1:DA:H8	1:A:2:DG:H8	6	0.44
(1,262)	1:A:1:DA:H8	1:B:2:DG:H8	6	0.44
(1,262)	1:B:1:DA:H8	1:A:2:DG:H8	6	0.44
(1,262)	1:B:1:DA:H8	1:B:2:DG:H8	6	0.44
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	5	0.43
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	5	0.43
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	5	0.43
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	5	0.43
(1,780)	1:A:3:DG:H8	1:A:4:DG:H3'	1	0.43
(1,780)	1:A:3:DG:H8	1:B:4:DG:H3'	1	0.43
(1,780)	1:B:3:DG:H8	1:A:4:DG:H3'	1	0.43
(1,780)	1:B:3:DG:H8	1:B:4:DG:H3'	1	0.43
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	9	0.43
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	9	0.43
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	9	0.43
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	9	0.43
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	5	0.43
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	5	0.43
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	5	0.43
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	5	0.43
(1,345)	1:A:3:DG:H8	1:A:4:DG:H3'	1	0.43
(1,345)	1:A:3:DG:H8	1:B:4:DG:H3'	1	0.43
(1,345)	1:B:3:DG:H8	1:A:4:DG:H3'	1	0.43
(1,345)	1:B:3:DG:H8	1:B:4:DG:H3'	1	0.43
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	9	0.43
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	9	0.43
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	9	0.43
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	9	0.43
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	4	0.42
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	4	0.42
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	4	0.42
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	4	0.42
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	2	0.42
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	2	0.42
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	2	0.42
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	2	0.42
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	9	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	9	0.42
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	9	0.42
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	9	0.42
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	2	0.42
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	2	0.42
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	2	0.42
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	2	0.42
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	6	0.42
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	6	0.42
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	6	0.42
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	6	0.42
(1,604)	1:A:15:DG:H3'	1:A:16:DT:C7	2	0.42
(1,604)	1:A:15:DG:H3'	1:B:16:DT:C7	2	0.42
(1,604)	1:B:15:DG:H3'	1:A:16:DT:C7	2	0.42
(1,604)	1:B:15:DG:H3'	1:B:16:DT:C7	2	0.42
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5'	1	0.42
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5''	1	0.42
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5'	1	0.42
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5''	1	0.42
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5'	1	0.42
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5''	1	0.42
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5'	1	0.42
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5''	1	0.42
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	4	0.42
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	4	0.42
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	4	0.42
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	4	0.42
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	2	0.42
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	2	0.42
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	2	0.42
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	2	0.42
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	9	0.42
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	9	0.42
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	9	0.42
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	9	0.42
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	2	0.42
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	2	0.42
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	2	0.42
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	2	0.42
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	6	0.42
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	6	0.42
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	6	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	6	0.42
(1,1039)	1:A:15:DG:H3'	1:A:16:DT:C7	2	0.42
(1,1039)	1:A:15:DG:H3'	1:B:16:DT:C7	2	0.42
(1,1039)	1:B:15:DG:H3'	1:A:16:DT:C7	2	0.42
(1,1039)	1:B:15:DG:H3'	1:B:16:DT:C7	2	0.42
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5'	1	0.42
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5''	1	0.42
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5'	1	0.42
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5''	1	0.42
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5'	1	0.42
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5''	1	0.42
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5'	1	0.42
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5''	1	0.42
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	3	0.41
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	3	0.41
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	3	0.41
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	3	0.41
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	4	0.41
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	4	0.41
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	4	0.41
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	4	0.41
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	6	0.41
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	6	0.41
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	6	0.41
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	6	0.41
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	8	0.41
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	8	0.41
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	8	0.41
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	8	0.41
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	4	0.41
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	4	0.41
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	4	0.41
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	4	0.41
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	7	0.41
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	7	0.41
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	7	0.41
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	7	0.41
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	5	0.41
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	5	0.41
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	5	0.41
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	5	0.41
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	3	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	3	0.41
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	3	0.41
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	3	0.41
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	4	0.41
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	4	0.41
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	4	0.41
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	4	0.41
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	6	0.41
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	6	0.41
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	6	0.41
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	6	0.41
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	8	0.41
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	8	0.41
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	8	0.41
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	8	0.41
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	4	0.41
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	4	0.41
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	4	0.41
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	4	0.41
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	7	0.41
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	7	0.41
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	7	0.41
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	7	0.41
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	5	0.41
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	5	0.41
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	5	0.41
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	5	0.41
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	1	0.4
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	1	0.4
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	1	0.4
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	1	0.4
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	7	0.4
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	7	0.4
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	7	0.4
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	7	0.4
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	9	0.4
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	9	0.4
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	9	0.4
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	9	0.4
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	1	0.4
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	1	0.4
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	1	0.4
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	5	0.4
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	5	0.4
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	5	0.4
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	5	0.4
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	9	0.4
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	9	0.4
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	9	0.4
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	9	0.4
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	7	0.4
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	7	0.4
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	7	0.4
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	7	0.4
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	1	0.4
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	1	0.4
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	1	0.4
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	1	0.4
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	1	0.4
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	1	0.4
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	1	0.4
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	1	0.4
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	7	0.4
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	7	0.4
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	7	0.4
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	7	0.4
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	9	0.4
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	9	0.4
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	9	0.4
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	9	0.4
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	1	0.4
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	1	0.4
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	1	0.4
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	1	0.4
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	7	0.4
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	7	0.4
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	7	0.4
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	7	0.4
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	1	0.4
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	1	0.4
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	1	0.4
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	1	0.4
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	5	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	5	0.4
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	5	0.4
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	5	0.4
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	9	0.4
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	9	0.4
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	9	0.4
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	9	0.4
(1,987)	1:A:13:DG:H1'	1:A:13:DG:H4'	8	0.39
(1,987)	1:A:13:DG:H1'	1:B:13:DG:H4'	8	0.39
(1,987)	1:B:13:DG:H1'	1:A:13:DG:H4'	8	0.39
(1,987)	1:B:13:DG:H1'	1:B:13:DG:H4'	8	0.39
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	5	0.39
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	5	0.39
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	5	0.39
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	5	0.39
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	8	0.39
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	8	0.39
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	8	0.39
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	8	0.39
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	6	0.39
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	6	0.39
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	6	0.39
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	6	0.39
(1,783)	1:A:3:DG:H4'	1:A:4:DG:H8	3	0.39
(1,783)	1:A:3:DG:H4'	1:B:4:DG:H8	3	0.39
(1,783)	1:B:3:DG:H4'	1:A:4:DG:H8	3	0.39
(1,783)	1:B:3:DG:H4'	1:B:4:DG:H8	3	0.39
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	10	0.39
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	10	0.39
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	10	0.39
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	10	0.39
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	3	0.39
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	3	0.39
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	3	0.39
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	3	0.39
(1,552)	1:A:13:DG:H1'	1:A:13:DG:H4'	8	0.39
(1,552)	1:A:13:DG:H1'	1:B:13:DG:H4'	8	0.39
(1,552)	1:B:13:DG:H1'	1:A:13:DG:H4'	8	0.39
(1,552)	1:B:13:DG:H1'	1:B:13:DG:H4'	8	0.39
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	5	0.39
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	5	0.39
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	5	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	5	0.39
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	8	0.39
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	8	0.39
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	8	0.39
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	8	0.39
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	6	0.39
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	6	0.39
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	6	0.39
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	6	0.39
(1,348)	1:A:3:DG:H4'	1:A:4:DG:H8	3	0.39
(1,348)	1:A:3:DG:H4'	1:B:4:DG:H8	3	0.39
(1,348)	1:B:3:DG:H4'	1:A:4:DG:H8	3	0.39
(1,348)	1:B:3:DG:H4'	1:B:4:DG:H8	3	0.39
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	3	0.39
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	3	0.39
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	3	0.39
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	3	0.39
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	10	0.39
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	10	0.39
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	10	0.39
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	10	0.39
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	6	0.38
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	6	0.38
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	6	0.38
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	6	0.38
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	2	0.38
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	2	0.38
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	2	0.38
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	2	0.38
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	7	0.38
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	7	0.38
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	7	0.38
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	7	0.38
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	9	0.38
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	9	0.38
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	9	0.38
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	9	0.38
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	10	0.38
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	10	0.38
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	10	0.38
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	10	0.38
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	3	0.38
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	3	0.38
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	3	0.38
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	10	0.38
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	10	0.38
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	10	0.38
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	10	0.38
(1,753)	1:A:2:DG:H5''	1:A:3:DG:H8	6	0.38
(1,753)	1:A:2:DG:H5''	1:B:3:DG:H8	6	0.38
(1,753)	1:B:2:DG:H5''	1:A:3:DG:H8	6	0.38
(1,753)	1:B:2:DG:H5''	1:B:3:DG:H8	6	0.38
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	3	0.38
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	3	0.38
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	3	0.38
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	3	0.38
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	1	0.38
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	1	0.38
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	1	0.38
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	1	0.38
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	2	0.38
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	2	0.38
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	2	0.38
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	2	0.38
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	8	0.38
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	8	0.38
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	8	0.38
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	8	0.38
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	1	0.38
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	1	0.38
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	1	0.38
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	1	0.38
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	5	0.38
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	5	0.38
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	5	0.38
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	5	0.38
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	8	0.38
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	8	0.38
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	8	0.38
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	8	0.38
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	9	0.38
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	9	0.38
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	9	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	9	0.38
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	10	0.38
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	10	0.38
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	10	0.38
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	10	0.38
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	3	0.38
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	3	0.38
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	3	0.38
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	3	0.38
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	5	0.38
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	5	0.38
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	5	0.38
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	5	0.38
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	8	0.38
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	8	0.38
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	8	0.38
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	8	0.38
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	9	0.38
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	9	0.38
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	9	0.38
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	9	0.38
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	6	0.38
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	6	0.38
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	6	0.38
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	6	0.38
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	2	0.38
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	2	0.38
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	2	0.38
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	2	0.38
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	7	0.38
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	7	0.38
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	7	0.38
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	7	0.38
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	9	0.38
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	9	0.38
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	9	0.38
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	9	0.38
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	10	0.38
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	10	0.38
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	10	0.38
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	10	0.38
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	3	0.38
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	3	0.38
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	3	0.38
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	10	0.38
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	10	0.38
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	10	0.38
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	10	0.38
(1,318)	1:A:2:DG:H5''	1:A:3:DG:H8	6	0.38
(1,318)	1:A:2:DG:H5''	1:B:3:DG:H8	6	0.38
(1,318)	1:B:2:DG:H5''	1:A:3:DG:H8	6	0.38
(1,318)	1:B:2:DG:H5''	1:B:3:DG:H8	6	0.38
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	3	0.38
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	3	0.38
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	3	0.38
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	3	0.38
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	1	0.38
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	1	0.38
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	1	0.38
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	1	0.38
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	2	0.38
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	2	0.38
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	2	0.38
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	2	0.38
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	8	0.38
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	8	0.38
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	8	0.38
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	8	0.38
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	1	0.38
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	1	0.38
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	1	0.38
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	1	0.38
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	5	0.38
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	5	0.38
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	5	0.38
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	5	0.38
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	8	0.38
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	8	0.38
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	8	0.38
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	8	0.38
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	9	0.38
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	9	0.38
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	9	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	9	0.38
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	10	0.38
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	10	0.38
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	10	0.38
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	10	0.38
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	3	0.38
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	3	0.38
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	3	0.38
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	3	0.38
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	5	0.38
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	5	0.38
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	5	0.38
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	5	0.38
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	8	0.38
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	8	0.38
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	8	0.38
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	8	0.38
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	9	0.38
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	9	0.38
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	9	0.38
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	9	0.38
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	5	0.37
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	5	0.37
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	5	0.37
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	5	0.37
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	1	0.37
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	1	0.37
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	1	0.37
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	1	0.37
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	1	0.37
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	1	0.37
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	1	0.37
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	1	0.37
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	4	0.37
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	4	0.37
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	4	0.37
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	4	0.37
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	9	0.37
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	9	0.37
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	9	0.37
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	9	0.37
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5'	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5''	9	0.37
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5'	9	0.37
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5''	9	0.37
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5'	9	0.37
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5''	9	0.37
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5'	9	0.37
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5''	9	0.37
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	1	0.37
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	1	0.37
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	1	0.37
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	1	0.37
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	2	0.37
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	2	0.37
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	2	0.37
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	2	0.37
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	3	0.37
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	3	0.37
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	3	0.37
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	3	0.37
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	4	0.37
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	4	0.37
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	4	0.37
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	4	0.37
(1,826)	1:A:5:DG:H2'	1:A:5:DG:H3'	6	0.37
(1,826)	1:A:5:DG:H2'	1:B:5:DG:H3'	6	0.37
(1,826)	1:B:5:DG:H2'	1:A:5:DG:H3'	6	0.37
(1,826)	1:B:5:DG:H2'	1:B:5:DG:H3'	6	0.37
(1,780)	1:A:3:DG:H8	1:A:4:DG:H3'	10	0.37
(1,780)	1:A:3:DG:H8	1:B:4:DG:H3'	10	0.37
(1,780)	1:B:3:DG:H8	1:A:4:DG:H3'	10	0.37
(1,780)	1:B:3:DG:H8	1:B:4:DG:H3'	10	0.37
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	10	0.37
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	10	0.37
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	10	0.37
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	10	0.37
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	7	0.37
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	7	0.37
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	7	0.37
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	7	0.37
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	8	0.37
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	8	0.37
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	8	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	8	0.37
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	1	0.37
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	1	0.37
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	1	0.37
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	1	0.37
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	2	0.37
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	2	0.37
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	2	0.37
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	2	0.37
(1,74)	1:A:3:DG:H1	1:A:2:DG:H5'	3	0.37
(1,74)	1:A:3:DG:H1	1:B:2:DG:H5'	3	0.37
(1,74)	1:B:3:DG:H1	1:A:2:DG:H5'	3	0.37
(1,74)	1:B:3:DG:H1	1:B:2:DG:H5'	3	0.37
(1,717)	1:A:2:DG:H2''	1:A:2:DG:H4'	10	0.37
(1,717)	1:A:2:DG:H2''	1:B:2:DG:H4'	10	0.37
(1,717)	1:B:2:DG:H2''	1:A:2:DG:H4'	10	0.37
(1,717)	1:B:2:DG:H2''	1:B:2:DG:H4'	10	0.37
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	5	0.37
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	5	0.37
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	5	0.37
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	5	0.37
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	1	0.37
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	1	0.37
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	1	0.37
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	1	0.37
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	1	0.37
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	1	0.37
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	1	0.37
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	1	0.37
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	4	0.37
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	4	0.37
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	4	0.37
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	4	0.37
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	9	0.37
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	9	0.37
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	9	0.37
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	9	0.37
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5'	9	0.37
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5''	9	0.37
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5'	9	0.37
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5''	9	0.37
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5'	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5''	9	0.37
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5'	9	0.37
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5''	9	0.37
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	1	0.37
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	1	0.37
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	1	0.37
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	1	0.37
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	2	0.37
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	2	0.37
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	2	0.37
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	2	0.37
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	3	0.37
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	3	0.37
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	3	0.37
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	3	0.37
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	4	0.37
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	4	0.37
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	4	0.37
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	4	0.37
(1,391)	1:A:5:DG:H2'	1:A:5:DG:H3'	6	0.37
(1,391)	1:A:5:DG:H2'	1:B:5:DG:H3'	6	0.37
(1,391)	1:B:5:DG:H2'	1:A:5:DG:H3'	6	0.37
(1,391)	1:B:5:DG:H2'	1:B:5:DG:H3'	6	0.37
(1,345)	1:A:3:DG:H8	1:A:4:DG:H3'	10	0.37
(1,345)	1:A:3:DG:H8	1:B:4:DG:H3'	10	0.37
(1,345)	1:B:3:DG:H8	1:A:4:DG:H3'	10	0.37
(1,345)	1:B:3:DG:H8	1:B:4:DG:H3'	10	0.37
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	10	0.37
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	10	0.37
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	10	0.37
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	10	0.37
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	7	0.37
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	7	0.37
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	7	0.37
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	7	0.37
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	8	0.37
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	8	0.37
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	8	0.37
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	8	0.37
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	1	0.37
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	1	0.37
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	1	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	1	0.37
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	2	0.37
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	2	0.37
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	2	0.37
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	2	0.37
(1,282)	1:A:2:DG:H2''	1:A:2:DG:H4'	10	0.37
(1,282)	1:A:2:DG:H2''	1:B:2:DG:H4'	10	0.37
(1,282)	1:B:2:DG:H2''	1:A:2:DG:H4'	10	0.37
(1,282)	1:B:2:DG:H2''	1:B:2:DG:H4'	10	0.37
(1,184)	1:A:3:DG:H1	1:A:2:DG:H5'	3	0.37
(1,184)	1:A:3:DG:H1	1:B:2:DG:H5'	3	0.37
(1,184)	1:B:3:DG:H1	1:A:2:DG:H5'	3	0.37
(1,184)	1:B:3:DG:H1	1:B:2:DG:H5'	3	0.37
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	3	0.36
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	3	0.36
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	3	0.36
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	3	0.36
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	6	0.36
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	6	0.36
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	6	0.36
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	6	0.36
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	7	0.36
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	7	0.36
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	7	0.36
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	7	0.36
(1,970)	1:A:12:DA:H1'	1:A:12:DA:H4'	2	0.36
(1,970)	1:A:12:DA:H1'	1:B:12:DA:H4'	2	0.36
(1,970)	1:B:12:DA:H1'	1:A:12:DA:H4'	2	0.36
(1,970)	1:B:12:DA:H1'	1:B:12:DA:H4'	2	0.36
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	3	0.36
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	3	0.36
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	3	0.36
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	3	0.36
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	6	0.36
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	6	0.36
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	6	0.36
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	6	0.36
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	5	0.36
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	5	0.36
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	5	0.36
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	5	0.36
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	6	0.36
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	6	0.36
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	6	0.36
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	10	0.36
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	10	0.36
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	10	0.36
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	10	0.36
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	8	0.36
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	8	0.36
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	8	0.36
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	8	0.36
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	5	0.36
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	5	0.36
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	5	0.36
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	5	0.36
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	5	0.36
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	5	0.36
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	5	0.36
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	5	0.36
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	6	0.36
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	6	0.36
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	6	0.36
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	6	0.36
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	7	0.36
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	7	0.36
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	7	0.36
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	7	0.36
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	10	0.36
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	10	0.36
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	10	0.36
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	10	0.36
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	9	0.36
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	9	0.36
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	9	0.36
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	9	0.36
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	10	0.36
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	10	0.36
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	10	0.36
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	10	0.36
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	2	0.36
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	2	0.36
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	2	0.36
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	4	0.36
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	4	0.36
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	4	0.36
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	4	0.36
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	3	0.36
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	3	0.36
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	3	0.36
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	3	0.36
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	6	0.36
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	6	0.36
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	6	0.36
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	6	0.36
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	7	0.36
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	7	0.36
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	7	0.36
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	7	0.36
(1,535)	1:A:12:DA:H1'	1:A:12:DA:H4'	2	0.36
(1,535)	1:A:12:DA:H1'	1:B:12:DA:H4'	2	0.36
(1,535)	1:B:12:DA:H1'	1:A:12:DA:H4'	2	0.36
(1,535)	1:B:12:DA:H1'	1:B:12:DA:H4'	2	0.36
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	3	0.36
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	3	0.36
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	3	0.36
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	3	0.36
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	6	0.36
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	6	0.36
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	6	0.36
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	6	0.36
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	5	0.36
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	5	0.36
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	5	0.36
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	5	0.36
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	6	0.36
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	6	0.36
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	6	0.36
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	6	0.36
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	10	0.36
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	10	0.36
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	10	0.36
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	10	0.36
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	8	0.36
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	8	0.36
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	8	0.36
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	5	0.36
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	5	0.36
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	5	0.36
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	5	0.36
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	5	0.36
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	5	0.36
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	5	0.36
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	5	0.36
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	6	0.36
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	6	0.36
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	6	0.36
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	6	0.36
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	7	0.36
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	7	0.36
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	7	0.36
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	7	0.36
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	10	0.36
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	10	0.36
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	10	0.36
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	10	0.36
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	9	0.36
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	9	0.36
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	9	0.36
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	9	0.36
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	10	0.36
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	10	0.36
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	10	0.36
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	10	0.36
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	2	0.36
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	2	0.36
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	2	0.36
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	2	0.36
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	4	0.36
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	4	0.36
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	4	0.36
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	4	0.36
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	2	0.35
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	2	0.35
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	2	0.35
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	7	0.35
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	7	0.35
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	7	0.35
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	7	0.35
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	2	0.35
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	2	0.35
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	2	0.35
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	2	0.35
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	7	0.35
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	7	0.35
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	7	0.35
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	7	0.35
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	9	0.35
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	9	0.35
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	9	0.35
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	9	0.35
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	7	0.35
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	7	0.35
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	7	0.35
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	7	0.35
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	10	0.35
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	10	0.35
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	10	0.35
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	10	0.35
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	6	0.35
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	6	0.35
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	6	0.35
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	6	0.35
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	3	0.35
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	3	0.35
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	3	0.35
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	3	0.35
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	7	0.35
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	7	0.35
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	7	0.35
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	7	0.35
(1,877)	1:A:7:DG:H2'	1:A:7:DG:H8	8	0.35
(1,877)	1:A:7:DG:H2'	1:B:7:DG:H8	8	0.35
(1,877)	1:B:7:DG:H2'	1:A:7:DG:H8	8	0.35
(1,877)	1:B:7:DG:H2'	1:B:7:DG:H8	8	0.35
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	7	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	7	0.35
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	7	0.35
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	7	0.35
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	1	0.35
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	1	0.35
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	1	0.35
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	1	0.35
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	7	0.35
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	7	0.35
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	7	0.35
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	7	0.35
(1,764)	1:A:3:DG:H2'	1:A:3:DG:H4'	1	0.35
(1,764)	1:A:3:DG:H2'	1:B:3:DG:H4'	1	0.35
(1,764)	1:B:3:DG:H2'	1:A:3:DG:H4'	1	0.35
(1,764)	1:B:3:DG:H2'	1:B:3:DG:H4'	1	0.35
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	7	0.35
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	7	0.35
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	7	0.35
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	7	0.35
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	8	0.35
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	8	0.35
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	8	0.35
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	8	0.35
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	10	0.35
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	10	0.35
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	10	0.35
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	10	0.35
(1,630)	1:A:16:DT:H4'	1:A:17:DG:H3'	1	0.35
(1,630)	1:A:16:DT:H4'	1:B:17:DG:H3'	1	0.35
(1,630)	1:B:16:DT:H4'	1:A:17:DG:H3'	1	0.35
(1,630)	1:B:16:DT:H4'	1:B:17:DG:H3'	1	0.35
(1,630)	1:A:16:DT:H4'	1:A:17:DG:H3'	3	0.35
(1,630)	1:A:16:DT:H4'	1:B:17:DG:H3'	3	0.35
(1,630)	1:B:16:DT:H4'	1:A:17:DG:H3'	3	0.35
(1,630)	1:B:16:DT:H4'	1:B:17:DG:H3'	3	0.35
(1,630)	1:A:16:DT:H4'	1:A:17:DG:H3'	5	0.35
(1,630)	1:A:16:DT:H4'	1:B:17:DG:H3'	5	0.35
(1,630)	1:B:16:DT:H4'	1:A:17:DG:H3'	5	0.35
(1,630)	1:B:16:DT:H4'	1:B:17:DG:H3'	5	0.35
(1,589)	1:A:15:DG:H1'	1:A:15:DG:H8	2	0.35
(1,589)	1:A:15:DG:H1'	1:B:15:DG:H8	2	0.35
(1,589)	1:B:15:DG:H1'	1:A:15:DG:H8	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,589)	1:B:15:DG:H1'	1:B:15:DG:H8	2	0.35
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	2	0.35
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	2	0.35
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	2	0.35
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	2	0.35
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	7	0.35
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	7	0.35
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	7	0.35
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	7	0.35
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	2	0.35
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	2	0.35
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	2	0.35
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	2	0.35
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	7	0.35
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	7	0.35
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	7	0.35
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	7	0.35
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	9	0.35
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	9	0.35
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	9	0.35
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	9	0.35
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	7	0.35
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	7	0.35
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	7	0.35
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	7	0.35
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	10	0.35
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	10	0.35
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	10	0.35
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	10	0.35
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	6	0.35
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	6	0.35
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	6	0.35
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	6	0.35
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	3	0.35
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	3	0.35
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	3	0.35
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	3	0.35
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	7	0.35
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	7	0.35
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	7	0.35
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	7	0.35
(1,442)	1:A:7:DG:H2'	1:A:7:DG:H8	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,442)	1:A:7:DG:H2'	1:B:7:DG:H8	8	0.35
(1,442)	1:B:7:DG:H2'	1:A:7:DG:H8	8	0.35
(1,442)	1:B:7:DG:H2'	1:B:7:DG:H8	8	0.35
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	7	0.35
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	7	0.35
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	7	0.35
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	7	0.35
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	1	0.35
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	1	0.35
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	1	0.35
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	1	0.35
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	7	0.35
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	7	0.35
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	7	0.35
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	7	0.35
(1,329)	1:A:3:DG:H2'	1:A:3:DG:H4'	1	0.35
(1,329)	1:A:3:DG:H2'	1:B:3:DG:H4'	1	0.35
(1,329)	1:B:3:DG:H2'	1:A:3:DG:H4'	1	0.35
(1,329)	1:B:3:DG:H2'	1:B:3:DG:H4'	1	0.35
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	7	0.35
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	7	0.35
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	7	0.35
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	7	0.35
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	8	0.35
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	8	0.35
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	8	0.35
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	8	0.35
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	10	0.35
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	10	0.35
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	10	0.35
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	10	0.35
(1,1065)	1:A:16:DT:H4'	1:A:17:DG:H3'	1	0.35
(1,1065)	1:A:16:DT:H4'	1:B:17:DG:H3'	1	0.35
(1,1065)	1:B:16:DT:H4'	1:A:17:DG:H3'	1	0.35
(1,1065)	1:B:16:DT:H4'	1:B:17:DG:H3'	1	0.35
(1,1065)	1:A:16:DT:H4'	1:A:17:DG:H3'	3	0.35
(1,1065)	1:A:16:DT:H4'	1:B:17:DG:H3'	3	0.35
(1,1065)	1:B:16:DT:H4'	1:A:17:DG:H3'	3	0.35
(1,1065)	1:B:16:DT:H4'	1:B:17:DG:H3'	3	0.35
(1,1065)	1:A:16:DT:H4'	1:A:17:DG:H3'	5	0.35
(1,1065)	1:A:16:DT:H4'	1:B:17:DG:H3'	5	0.35
(1,1065)	1:B:16:DT:H4'	1:A:17:DG:H3'	5	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:B:16:DT:H4'	1:B:17:DG:H3'	5	0.35
(1,1024)	1:A:15:DG:H1'	1:A:15:DG:H8	2	0.35
(1,1024)	1:A:15:DG:H1'	1:B:15:DG:H8	2	0.35
(1,1024)	1:B:15:DG:H1'	1:A:15:DG:H8	2	0.35
(1,1024)	1:B:15:DG:H1'	1:B:15:DG:H8	2	0.35
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	1	0.34
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	1	0.34
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	1	0.34
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	1	0.34
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	4	0.34
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	4	0.34
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	4	0.34
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	4	0.34
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	9	0.34
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	9	0.34
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	9	0.34
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	9	0.34
(1,970)	1:A:12:DA:H1'	1:A:12:DA:H4'	8	0.34
(1,970)	1:A:12:DA:H1'	1:B:12:DA:H4'	8	0.34
(1,970)	1:B:12:DA:H1'	1:A:12:DA:H4'	8	0.34
(1,970)	1:B:12:DA:H1'	1:B:12:DA:H4'	8	0.34
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	1	0.34
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	1	0.34
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	1	0.34
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	1	0.34
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	3	0.34
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	3	0.34
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	3	0.34
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	3	0.34
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	4	0.34
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	4	0.34
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	4	0.34
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	4	0.34
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	10	0.34
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	10	0.34
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	10	0.34
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	10	0.34
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	6	0.34
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	6	0.34
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	6	0.34
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	6	0.34
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	8	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	8	0.34
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	8	0.34
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	8	0.34
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	9	0.34
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	9	0.34
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	9	0.34
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	9	0.34
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	7	0.34
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	7	0.34
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	7	0.34
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	7	0.34
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5'	7	0.34
(1,835)	1:A:5:DG:H2'	1:A:5:DG:H5''	7	0.34
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5'	7	0.34
(1,835)	1:A:5:DG:H2'	1:B:5:DG:H5''	7	0.34
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5'	7	0.34
(1,835)	1:B:5:DG:H2'	1:A:5:DG:H5''	7	0.34
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5'	7	0.34
(1,835)	1:B:5:DG:H2'	1:B:5:DG:H5''	7	0.34
(1,810)	1:A:4:DG:H4'	1:A:4:DG:H8	4	0.34
(1,810)	1:A:4:DG:H4'	1:B:4:DG:H8	4	0.34
(1,810)	1:B:4:DG:H4'	1:A:4:DG:H8	4	0.34
(1,810)	1:B:4:DG:H4'	1:B:4:DG:H8	4	0.34
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	9	0.34
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	9	0.34
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	9	0.34
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	9	0.34
(1,781)	1:A:3:DG:H3'	1:A:4:DG:H3'	4	0.34
(1,781)	1:A:3:DG:H3'	1:B:4:DG:H3'	4	0.34
(1,781)	1:B:3:DG:H3'	1:A:4:DG:H3'	4	0.34
(1,781)	1:B:3:DG:H3'	1:B:4:DG:H3'	4	0.34
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	3	0.34
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	3	0.34
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	3	0.34
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	3	0.34
(1,589)	1:A:15:DG:H1'	1:A:15:DG:H8	1	0.34
(1,589)	1:A:15:DG:H1'	1:B:15:DG:H8	1	0.34
(1,589)	1:B:15:DG:H1'	1:A:15:DG:H8	1	0.34
(1,589)	1:B:15:DG:H1'	1:B:15:DG:H8	1	0.34
(1,589)	1:A:15:DG:H1'	1:A:15:DG:H8	5	0.34
(1,589)	1:A:15:DG:H1'	1:B:15:DG:H8	5	0.34
(1,589)	1:B:15:DG:H1'	1:A:15:DG:H8	5	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	5	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	6	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	6	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	7	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	7	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	7	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	7	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	9	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	9	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	9	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	9	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	10	0.34
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	10	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	10	0.34
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	10	0.34
(1,588)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	2	0.34
(1,588)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	2	0.34
(1,588)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	2	0.34
(1,588)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	2	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	1	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	1	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	1	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	1	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	2	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	2	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	2	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	2	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	6	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	6	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	7	0.34
(1,581)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	7	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	7	0.34
(1,581)	1:B:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	7	0.34
(1,545)	1:A:12:DA:H4 <sup>?</sup>	1:A:13:DG:H3 <sup>?</sup>	1	0.34
(1,545)	1:A:12:DA:H4 <sup>?</sup>	1:B:13:DG:H3 <sup>?</sup>	1	0.34
(1,545)	1:B:12:DA:H4 <sup>?</sup>	1:A:13:DG:H3 <sup>?</sup>	1	0.34
(1,545)	1:B:12:DA:H4 <sup>?</sup>	1:B:13:DG:H3 <sup>?</sup>	1	0.34
(1,545)	1:A:12:DA:H4 <sup>?</sup>	1:A:13:DG:H3 <sup>?</sup>	4	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	4	0.34
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	4	0.34
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	4	0.34
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	9	0.34
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	9	0.34
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	9	0.34
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	9	0.34
(1,535)	1:A:12:DA:H1'	1:A:12:DA:H4'	8	0.34
(1,535)	1:A:12:DA:H1'	1:B:12:DA:H4'	8	0.34
(1,535)	1:B:12:DA:H1'	1:A:12:DA:H4'	8	0.34
(1,535)	1:B:12:DA:H1'	1:B:12:DA:H4'	8	0.34
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	1	0.34
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	1	0.34
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	1	0.34
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	1	0.34
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	3	0.34
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	3	0.34
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	3	0.34
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	3	0.34
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	4	0.34
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	4	0.34
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	4	0.34
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	4	0.34
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	10	0.34
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	10	0.34
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	10	0.34
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	10	0.34
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	6	0.34
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	6	0.34
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	6	0.34
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	6	0.34
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	8	0.34
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	8	0.34
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	8	0.34
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	8	0.34
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	9	0.34
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	9	0.34
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	9	0.34
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	9	0.34
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	7	0.34
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	7	0.34
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	7	0.34
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5'	7	0.34
(1,400)	1:A:5:DG:H2'	1:A:5:DG:H5''	7	0.34
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5'	7	0.34
(1,400)	1:A:5:DG:H2'	1:B:5:DG:H5''	7	0.34
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5'	7	0.34
(1,400)	1:B:5:DG:H2'	1:A:5:DG:H5''	7	0.34
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5'	7	0.34
(1,400)	1:B:5:DG:H2'	1:B:5:DG:H5''	7	0.34
(1,375)	1:A:4:DG:H4'	1:A:4:DG:H8	4	0.34
(1,375)	1:A:4:DG:H4'	1:B:4:DG:H8	4	0.34
(1,375)	1:B:4:DG:H4'	1:A:4:DG:H8	4	0.34
(1,375)	1:B:4:DG:H4'	1:B:4:DG:H8	4	0.34
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	9	0.34
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	9	0.34
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	9	0.34
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	9	0.34
(1,346)	1:A:3:DG:H3'	1:A:4:DG:H3'	4	0.34
(1,346)	1:A:3:DG:H3'	1:B:4:DG:H3'	4	0.34
(1,346)	1:B:3:DG:H3'	1:A:4:DG:H3'	4	0.34
(1,346)	1:B:3:DG:H3'	1:B:4:DG:H3'	4	0.34
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	3	0.34
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	3	0.34
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	3	0.34
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	3	0.34
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	5	0.34
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	5	0.34
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	5	0.34
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	5	0.34
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	7	0.34
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	7	0.34
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	7	0.34
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	7	0.34
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	8	0.34
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	8	0.34
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	8	0.34
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	8	0.34
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	9	0.34
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	9	0.34
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	9	0.34
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	9	0.34
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	7	0.34
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	7	0.34
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	7	0.34
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	4	0.34
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	4	0.34
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	4	0.34
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	4	0.34
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	9	0.34
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	9	0.34
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	9	0.34
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	9	0.34
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	8	0.34
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	8	0.34
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	8	0.34
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	8	0.34
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	4	0.34
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	4	0.34
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	4	0.34
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	4	0.34
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	6	0.34
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	6	0.34
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	6	0.34
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	6	0.34
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	7	0.34
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	7	0.34
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	7	0.34
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	7	0.34
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	8	0.34
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	8	0.34
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	8	0.34
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	8	0.34
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	9	0.34
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	9	0.34
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	9	0.34
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	9	0.34
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	5	0.34
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	5	0.34
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	5	0.34
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	5	0.34
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	7	0.34
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	7	0.34
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	7	0.34
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	8	0.34
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	8	0.34
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	8	0.34
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	8	0.34
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	9	0.34
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	9	0.34
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	9	0.34
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	9	0.34
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	7	0.34
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	7	0.34
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	7	0.34
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	7	0.34
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	4	0.34
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	4	0.34
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	4	0.34
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	4	0.34
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	9	0.34
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	9	0.34
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	9	0.34
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	9	0.34
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	8	0.34
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	8	0.34
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	8	0.34
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	8	0.34
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	4	0.34
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	4	0.34
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	4	0.34
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	4	0.34
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	6	0.34
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	6	0.34
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	6	0.34
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	6	0.34
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	7	0.34
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	7	0.34
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	7	0.34
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	7	0.34
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	8	0.34
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	8	0.34
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	8	0.34
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	8	0.34
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	9	0.34
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	9	0.34
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	9	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	1	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	1	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	1	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	1	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	5	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	5	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	5	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	5	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	6	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	6	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	7	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	7	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	7	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	7	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	9	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	9	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	9	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	9	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	10	0.34
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	10	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	10	0.34
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	10	0.34
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	2	0.34
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	2	0.34
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	2	0.34
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	2	0.34
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	1	0.34
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	1	0.34
(1,1016)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	1	0.34
(1,1016)	1:B:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	1	0.34
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	2	0.34
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	2	0.34
(1,1016)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	2	0.34
(1,1016)	1:B:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	2	0.34
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	6	0.34
(1,1016)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	6	0.34
(1,1016)	1:A:14:DG:H1'	1:A:15:DG:H8	7	0.34
(1,1016)	1:A:14:DG:H1'	1:B:15:DG:H8	7	0.34
(1,1016)	1:B:14:DG:H1'	1:A:15:DG:H8	7	0.34
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	7	0.34
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	8	0.33
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	8	0.33
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	8	0.33
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	8	0.33
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	7	0.33
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	7	0.33
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	7	0.33
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	7	0.33
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	3	0.33
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	3	0.33
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	3	0.33
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	3	0.33
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	5	0.33
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	5	0.33
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	5	0.33
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	5	0.33
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	3	0.33
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	3	0.33
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	3	0.33
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	3	0.33
(1,783)	1:A:3:DG:H4'	1:A:4:DG:H8	2	0.33
(1,783)	1:A:3:DG:H4'	1:B:4:DG:H8	2	0.33
(1,783)	1:B:3:DG:H4'	1:A:4:DG:H8	2	0.33
(1,783)	1:B:3:DG:H4'	1:B:4:DG:H8	2	0.33
(1,783)	1:A:3:DG:H4'	1:A:4:DG:H8	10	0.33
(1,783)	1:A:3:DG:H4'	1:B:4:DG:H8	10	0.33
(1,783)	1:B:3:DG:H4'	1:A:4:DG:H8	10	0.33
(1,783)	1:B:3:DG:H4'	1:B:4:DG:H8	10	0.33
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	3	0.33
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	3	0.33
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	3	0.33
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	3	0.33
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	9	0.33
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	9	0.33
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	9	0.33
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	9	0.33
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	4	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	4	0.33
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	4	0.33
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	4	0.33
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	5	0.33
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	5	0.33
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	5	0.33
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	5	0.33
(1,729)	1:A:2:DG:H2'	1:A:2:DG:H8	6	0.33
(1,729)	1:A:2:DG:H2'	1:B:2:DG:H8	6	0.33
(1,729)	1:B:2:DG:H2'	1:A:2:DG:H8	6	0.33
(1,729)	1:B:2:DG:H2'	1:B:2:DG:H8	6	0.33
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	8	0.33
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	8	0.33
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	8	0.33
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	8	0.33
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	7	0.33
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	7	0.33
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	7	0.33
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	7	0.33
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	3	0.33
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	3	0.33
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	3	0.33
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	3	0.33
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	5	0.33
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	5	0.33
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	5	0.33
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	5	0.33
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	3	0.33
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	3	0.33
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	3	0.33
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	3	0.33
(1,348)	1:A:3:DG:H4'	1:A:4:DG:H8	2	0.33
(1,348)	1:A:3:DG:H4'	1:B:4:DG:H8	2	0.33
(1,348)	1:B:3:DG:H4'	1:A:4:DG:H8	2	0.33
(1,348)	1:B:3:DG:H4'	1:B:4:DG:H8	2	0.33
(1,348)	1:A:3:DG:H4'	1:A:4:DG:H8	10	0.33
(1,348)	1:A:3:DG:H4'	1:B:4:DG:H8	10	0.33
(1,348)	1:B:3:DG:H4'	1:A:4:DG:H8	10	0.33
(1,348)	1:B:3:DG:H4'	1:B:4:DG:H8	10	0.33
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	3	0.33
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	3	0.33
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	3	0.33
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	9	0.33
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	9	0.33
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	9	0.33
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	9	0.33
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	4	0.33
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	4	0.33
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	4	0.33
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	4	0.33
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	5	0.33
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	5	0.33
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	5	0.33
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	5	0.33
(1,294)	1:A:2:DG:H2'	1:A:2:DG:H8	6	0.33
(1,294)	1:A:2:DG:H2'	1:B:2:DG:H8	6	0.33
(1,294)	1:B:2:DG:H2'	1:A:2:DG:H8	6	0.33
(1,294)	1:B:2:DG:H2'	1:B:2:DG:H8	6	0.33
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	1	0.33
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	1	0.33
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	1	0.33
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	1	0.33
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	2	0.33
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	2	0.33
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	2	0.33
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	2	0.33
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	3	0.33
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	3	0.33
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	3	0.33
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	3	0.33
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	4	0.33
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	4	0.33
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	4	0.33
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	4	0.33
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	6	0.33
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	6	0.33
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	6	0.33
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	6	0.33
(1,1190)	1:A:13:DG:N1	1:A:17:DG:O6	10	0.33
(1,1190)	1:A:13:DG:N1	1:B:17:DG:O6	10	0.33
(1,1190)	1:B:13:DG:N1	1:A:17:DG:O6	10	0.33
(1,1190)	1:B:13:DG:N1	1:B:17:DG:O6	10	0.33
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	1	0.33
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	1	0.33
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	1	0.33
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	9	0.33
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	9	0.33
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	9	0.33
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	9	0.33
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	10	0.33
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	10	0.33
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	10	0.33
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	10	0.33
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	2	0.33
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	2	0.33
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	2	0.33
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	2	0.33
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	6	0.33
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	6	0.33
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	6	0.33
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	6	0.33
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	8	0.33
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	8	0.33
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	8	0.33
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	8	0.33
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	5	0.33
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	5	0.33
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	5	0.33
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	5	0.33
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	7	0.33
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	7	0.33
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	7	0.33
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	7	0.33
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	3	0.33
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	3	0.33
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	3	0.33
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	3	0.33
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	7	0.33
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	7	0.33
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	7	0.33
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	7	0.33
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	6	0.33
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	6	0.33
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	6	0.33
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	1	0.33
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	1	0.33
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	1	0.33
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	1	0.33
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	1	0.33
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	1	0.33
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	1	0.33
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	1	0.33
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	2	0.33
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	2	0.33
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	2	0.33
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	2	0.33
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	3	0.33
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	3	0.33
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	3	0.33
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	3	0.33
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	5	0.33
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	5	0.33
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	5	0.33
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	5	0.33
(1,1158)	1:A:15:DG:N1	1:A:3:DG:O6	10	0.33
(1,1158)	1:A:15:DG:N1	1:B:3:DG:O6	10	0.33
(1,1158)	1:B:15:DG:N1	1:A:3:DG:O6	10	0.33
(1,1158)	1:B:15:DG:N1	1:B:3:DG:O6	10	0.33
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	3	0.33
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	3	0.33
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	3	0.33
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	3	0.33
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	1	0.33
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	1	0.33
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	1	0.33
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	1	0.33
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	2	0.33
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	2	0.33
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	2	0.33
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	2	0.33
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	3	0.33
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	3	0.33
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	3	0.33
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	3	0.33
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	4	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	4	0.33
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	4	0.33
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	4	0.33
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	6	0.33
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	6	0.33
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	6	0.33
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	6	0.33
(1,1142)	1:A:13:DG:N1	1:A:17:DG:O6	10	0.33
(1,1142)	1:A:13:DG:N1	1:B:17:DG:O6	10	0.33
(1,1142)	1:B:13:DG:N1	1:A:17:DG:O6	10	0.33
(1,1142)	1:B:13:DG:N1	1:B:17:DG:O6	10	0.33
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	1	0.33
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	1	0.33
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	1	0.33
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	1	0.33
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	9	0.33
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	9	0.33
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	9	0.33
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	9	0.33
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	10	0.33
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	10	0.33
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	10	0.33
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	10	0.33
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	2	0.33
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	2	0.33
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	2	0.33
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	2	0.33
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	6	0.33
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	6	0.33
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	6	0.33
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	6	0.33
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	8	0.33
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	8	0.33
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	8	0.33
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	8	0.33
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	5	0.33
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	5	0.33
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	5	0.33
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	5	0.33
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	7	0.33
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	7	0.33
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	7	0.33
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	3	0.33
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	3	0.33
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	3	0.33
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	3	0.33
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	7	0.33
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	7	0.33
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	7	0.33
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	7	0.33
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	6	0.33
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	6	0.33
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	6	0.33
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	6	0.33
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	1	0.33
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	1	0.33
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	1	0.33
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	1	0.33
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	1	0.33
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	1	0.33
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	1	0.33
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	1	0.33
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	2	0.33
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	2	0.33
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	2	0.33
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	2	0.33
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	3	0.33
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	3	0.33
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	3	0.33
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	3	0.33
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	5	0.33
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	5	0.33
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	5	0.33
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	5	0.33
(1,1110)	1:A:15:DG:N1	1:A:3:DG:O6	10	0.33
(1,1110)	1:A:15:DG:N1	1:B:3:DG:O6	10	0.33
(1,1110)	1:B:15:DG:N1	1:A:3:DG:O6	10	0.33
(1,1110)	1:B:15:DG:N1	1:B:3:DG:O6	10	0.33
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	3	0.33
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	3	0.33
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	3	0.33
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	3	0.33
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	4	0.32
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	4	0.32
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	4	0.32
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	6	0.32
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	6	0.32
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	6	0.32
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	6	0.32
(1,816)	1:A:4:DG:H2'	1:A:4:DG:H8	6	0.32
(1,816)	1:A:4:DG:H2'	1:B:4:DG:H8	6	0.32
(1,816)	1:B:4:DG:H2'	1:A:4:DG:H8	6	0.32
(1,816)	1:B:4:DG:H2'	1:B:4:DG:H8	6	0.32
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	3	0.32
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	3	0.32
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	3	0.32
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	3	0.32
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	5	0.32
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	5	0.32
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	5	0.32
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	5	0.32
(1,781)	1:A:3:DG:H3'	1:A:4:DG:H3'	6	0.32
(1,781)	1:A:3:DG:H3'	1:B:4:DG:H3'	6	0.32
(1,781)	1:B:3:DG:H3'	1:A:4:DG:H3'	6	0.32
(1,781)	1:B:3:DG:H3'	1:B:4:DG:H3'	6	0.32
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	2	0.32
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	2	0.32
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	2	0.32
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	2	0.32
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	4	0.32
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	4	0.32
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	4	0.32
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	4	0.32
(1,762)	1:A:3:DG:H2'	1:A:3:DG:H3'	6	0.32
(1,762)	1:A:3:DG:H2'	1:B:3:DG:H3'	6	0.32
(1,762)	1:B:3:DG:H2'	1:A:3:DG:H3'	6	0.32
(1,762)	1:B:3:DG:H2'	1:B:3:DG:H3'	6	0.32
(1,657)	1:A:18:DG:H2'	1:A:18:DG:H3'	1	0.32
(1,657)	1:A:18:DG:H2'	1:B:18:DG:H3'	1	0.32
(1,657)	1:B:18:DG:H2'	1:A:18:DG:H3'	1	0.32
(1,657)	1:B:18:DG:H2'	1:B:18:DG:H3'	1	0.32
(1,657)	1:A:18:DG:H2'	1:A:18:DG:H3'	2	0.32
(1,657)	1:A:18:DG:H2'	1:B:18:DG:H3'	2	0.32
(1,657)	1:B:18:DG:H2'	1:A:18:DG:H3'	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	2	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	3	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	3	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	3	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	3	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	5	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	5	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	5	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	5	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	7	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	7	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	7	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	7	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32
(1,657)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	10	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32
(1,657)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	10	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	6	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	6	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	6	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	6	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	7	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	7	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	7	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	7	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	8	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	8	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	8	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	8	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	9	0.32
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	9	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	9	0.32
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	9	0.32
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	8	0.32
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	8	0.32
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	8	0.32
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	8	0.32
(1,588)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	6	0.32
(1,588)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	6	0.32
(1,588)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	6	0.32
(1,588)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	6	0.32
(1,567)	1:A:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	1	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	1	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	1	0.32
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	3	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	3	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	3	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	3	0.32
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	4	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	4	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	4	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	4	0.32
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	5	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	5	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	5	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	5	0.32
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	7	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	7	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	7	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	7	0.32
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	8	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	8	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	8	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	8	0.32
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	9	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	9	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	9	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	9	0.32
(1,567)	1:A:14:DG:H1'	1:A:14:DG:H2''	10	0.32
(1,567)	1:A:14:DG:H1'	1:B:14:DG:H2''	10	0.32
(1,567)	1:B:14:DG:H1'	1:A:14:DG:H2''	10	0.32
(1,567)	1:B:14:DG:H1'	1:B:14:DG:H2''	10	0.32
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	4	0.32
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	4	0.32
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	4	0.32
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	4	0.32
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	6	0.32
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	6	0.32
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	6	0.32
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	6	0.32
(1,381)	1:A:4:DG:H2'	1:A:4:DG:H8	6	0.32
(1,381)	1:A:4:DG:H2'	1:B:4:DG:H8	6	0.32
(1,381)	1:B:4:DG:H2'	1:A:4:DG:H8	6	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,381)	1:B:4:DG:H2'	1:B:4:DG:H8	6	0.32
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	3	0.32
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	3	0.32
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	3	0.32
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	3	0.32
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	5	0.32
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	5	0.32
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	5	0.32
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	5	0.32
(1,346)	1:A:3:DG:H3'	1:A:4:DG:H3'	6	0.32
(1,346)	1:A:3:DG:H3'	1:B:4:DG:H3'	6	0.32
(1,346)	1:B:3:DG:H3'	1:A:4:DG:H3'	6	0.32
(1,346)	1:B:3:DG:H3'	1:B:4:DG:H3'	6	0.32
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	2	0.32
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	2	0.32
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	2	0.32
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	2	0.32
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	4	0.32
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	4	0.32
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	4	0.32
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	4	0.32
(1,327)	1:A:3:DG:H2'	1:A:3:DG:H3'	6	0.32
(1,327)	1:A:3:DG:H2'	1:B:3:DG:H3'	6	0.32
(1,327)	1:B:3:DG:H2'	1:A:3:DG:H3'	6	0.32
(1,327)	1:B:3:DG:H2'	1:B:3:DG:H3'	6	0.32
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	3	0.32
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	3	0.32
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	3	0.32
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	3	0.32
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	5	0.32
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	5	0.32
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	5	0.32
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	5	0.32
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	10	0.32
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	10	0.32
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	10	0.32
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	10	0.32
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	4	0.32
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	4	0.32
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	4	0.32
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	4	0.32
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	1	0.32
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	1	0.32
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	1	0.32
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	2	0.32
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	2	0.32
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	2	0.32
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	2	0.32
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	6	0.32
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	6	0.32
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	6	0.32
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	6	0.32
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	7	0.32
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	7	0.32
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	7	0.32
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	7	0.32
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	1	0.32
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	1	0.32
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	1	0.32
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	1	0.32
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	3	0.32
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	3	0.32
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	3	0.32
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	3	0.32
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	2	0.32
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	2	0.32
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	2	0.32
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	2	0.32
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	3	0.32
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	3	0.32
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	3	0.32
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	3	0.32
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	4	0.32
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	4	0.32
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	4	0.32
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	4	0.32
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	9	0.32
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	9	0.32
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	9	0.32
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	9	0.32
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	2	0.32
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	2	0.32
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	2	0.32
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	3	0.32
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	3	0.32
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	3	0.32
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	3	0.32
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	5	0.32
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	5	0.32
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	5	0.32
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	5	0.32
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	10	0.32
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	10	0.32
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	10	0.32
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	10	0.32
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	4	0.32
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	4	0.32
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	4	0.32
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	4	0.32
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	1	0.32
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	1	0.32
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	1	0.32
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	1	0.32
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	2	0.32
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	2	0.32
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	2	0.32
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	2	0.32
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	6	0.32
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	6	0.32
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	6	0.32
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	6	0.32
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	7	0.32
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	7	0.32
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	7	0.32
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	7	0.32
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	1	0.32
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	1	0.32
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	1	0.32
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	1	0.32
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	3	0.32
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	3	0.32
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	3	0.32
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	3	0.32
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	2	0.32
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	2	0.32
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	2	0.32
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	3	0.32
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	3	0.32
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	3	0.32
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	3	0.32
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	4	0.32
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	4	0.32
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	4	0.32
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	4	0.32
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	9	0.32
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	9	0.32
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	9	0.32
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	9	0.32
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	2	0.32
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	2	0.32
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	2	0.32
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	2	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	1	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	1	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	1	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	1	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	2	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	2	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	2	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	2	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	3	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	3	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	3	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	3	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	5	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	5	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	5	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	5	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	7	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	7	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	7	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	7	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	10	0.32
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1092)	1:B:18:DG:H2'	1:B:18:DG:H3'	10	0.32
(1,1069)	1:A:17:DG:H2'	1:A:17:DG:H3'	6	0.32
(1,1069)	1:A:17:DG:H2'	1:B:17:DG:H3'	6	0.32
(1,1069)	1:B:17:DG:H2'	1:A:17:DG:H3'	6	0.32
(1,1069)	1:B:17:DG:H2'	1:B:17:DG:H3'	6	0.32
(1,1069)	1:A:17:DG:H2'	1:A:17:DG:H3'	7	0.32
(1,1069)	1:A:17:DG:H2'	1:B:17:DG:H3'	7	0.32
(1,1069)	1:B:17:DG:H2'	1:A:17:DG:H3'	7	0.32
(1,1069)	1:B:17:DG:H2'	1:B:17:DG:H3'	7	0.32
(1,1069)	1:A:17:DG:H2'	1:A:17:DG:H3'	8	0.32
(1,1069)	1:A:17:DG:H2'	1:B:17:DG:H3'	8	0.32
(1,1069)	1:B:17:DG:H2'	1:A:17:DG:H3'	8	0.32
(1,1069)	1:B:17:DG:H2'	1:B:17:DG:H3'	8	0.32
(1,1069)	1:A:17:DG:H2'	1:A:17:DG:H3'	9	0.32
(1,1069)	1:A:17:DG:H2'	1:B:17:DG:H3'	9	0.32
(1,1069)	1:B:17:DG:H2'	1:A:17:DG:H3'	9	0.32
(1,1069)	1:B:17:DG:H2'	1:B:17:DG:H3'	9	0.32
(1,1024)	1:A:15:DG:H1'	1:A:15:DG:H8	8	0.32
(1,1024)	1:A:15:DG:H1'	1:B:15:DG:H8	8	0.32
(1,1024)	1:B:15:DG:H1'	1:A:15:DG:H8	8	0.32
(1,1024)	1:B:15:DG:H1'	1:B:15:DG:H8	8	0.32
(1,1023)	1:A:15:DG:H1'	1:A:15:DG:H4'	6	0.32
(1,1023)	1:A:15:DG:H1'	1:B:15:DG:H4'	6	0.32
(1,1023)	1:B:15:DG:H1'	1:A:15:DG:H4'	6	0.32
(1,1023)	1:B:15:DG:H1'	1:B:15:DG:H4'	6	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	1	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	1	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	1	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	1	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	3	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	3	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	3	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	3	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	4	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	4	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	4	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	4	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	5	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	5	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	5	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	5	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	7	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	7	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	7	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	8	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	8	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	8	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	8	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	9	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	9	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	9	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	9	0.32
(1,1002)	1:A:14:DG:H1'	1:A:14:DG:H2''	10	0.32
(1,1002)	1:A:14:DG:H1'	1:B:14:DG:H2''	10	0.32
(1,1002)	1:B:14:DG:H1'	1:A:14:DG:H2''	10	0.32
(1,1002)	1:B:14:DG:H1'	1:B:14:DG:H2''	10	0.32
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	8	0.31
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	8	0.31
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	8	0.31
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	8	0.31
(1,970)	1:A:12:DA:H1'	1:A:12:DA:H4'	9	0.31
(1,970)	1:A:12:DA:H1'	1:B:12:DA:H4'	9	0.31
(1,970)	1:B:12:DA:H1'	1:A:12:DA:H4'	9	0.31
(1,970)	1:B:12:DA:H1'	1:B:12:DA:H4'	9	0.31
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	1	0.31
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	1	0.31
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	1	0.31
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	1	0.31
(1,819)	1:A:4:DG:H4'	1:A:5:DG:H8	10	0.31
(1,819)	1:A:4:DG:H4'	1:B:5:DG:H8	10	0.31
(1,819)	1:B:4:DG:H4'	1:A:5:DG:H8	10	0.31
(1,819)	1:B:4:DG:H4'	1:B:5:DG:H8	10	0.31
(1,816)	1:A:4:DG:H2'	1:A:4:DG:H8	4	0.31
(1,816)	1:A:4:DG:H2'	1:B:4:DG:H8	4	0.31
(1,816)	1:B:4:DG:H2'	1:A:4:DG:H8	4	0.31
(1,816)	1:B:4:DG:H2'	1:B:4:DG:H8	4	0.31
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	2	0.31
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	2	0.31
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	2	0.31
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	2	0.31
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	5	0.31
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	5	0.31
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	5	0.31
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	9	0.31
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	9	0.31
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	9	0.31
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	9	0.31
(1,746)	1:A:2:DG:H5''	1:A:3:DG:H5'	5	0.31
(1,746)	1:A:2:DG:H5''	1:B:3:DG:H5'	5	0.31
(1,746)	1:B:2:DG:H5''	1:A:3:DG:H5'	5	0.31
(1,746)	1:B:2:DG:H5''	1:B:3:DG:H5'	5	0.31
(1,713)	1:A:2:DG:H1'	1:A:2:DG:H4'	6	0.31
(1,713)	1:A:2:DG:H1'	1:B:2:DG:H4'	6	0.31
(1,713)	1:B:2:DG:H1'	1:A:2:DG:H4'	6	0.31
(1,713)	1:B:2:DG:H1'	1:B:2:DG:H4'	6	0.31
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	1	0.31
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	1	0.31
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	1	0.31
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	1	0.31
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	3	0.31
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	3	0.31
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	3	0.31
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	3	0.31
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	5	0.31
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	5	0.31
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	5	0.31
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	5	0.31
(1,657)	1:A:18:DG:H2'	1:A:18:DG:H3'	4	0.31
(1,657)	1:A:18:DG:H2'	1:B:18:DG:H3'	4	0.31
(1,657)	1:B:18:DG:H2'	1:A:18:DG:H3'	4	0.31
(1,657)	1:B:18:DG:H2'	1:B:18:DG:H3'	4	0.31
(1,657)	1:A:18:DG:H2'	1:A:18:DG:H3'	6	0.31
(1,657)	1:A:18:DG:H2'	1:B:18:DG:H3'	6	0.31
(1,657)	1:B:18:DG:H2'	1:A:18:DG:H3'	6	0.31
(1,657)	1:B:18:DG:H2'	1:B:18:DG:H3'	6	0.31
(1,657)	1:A:18:DG:H2'	1:A:18:DG:H3'	8	0.31
(1,657)	1:A:18:DG:H2'	1:B:18:DG:H3'	8	0.31
(1,657)	1:B:18:DG:H2'	1:A:18:DG:H3'	8	0.31
(1,657)	1:B:18:DG:H2'	1:B:18:DG:H3'	8	0.31
(1,657)	1:A:18:DG:H2'	1:A:18:DG:H3'	9	0.31
(1,657)	1:A:18:DG:H2'	1:B:18:DG:H3'	9	0.31
(1,657)	1:B:18:DG:H2'	1:A:18:DG:H3'	9	0.31
(1,657)	1:B:18:DG:H2'	1:B:18:DG:H3'	9	0.31
(1,634)	1:A:17:DG:H2'	1:A:17:DG:H3'	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	1	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	1	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	1	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	2	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	2	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	2	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	2	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	3	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	3	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	3	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	3	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	4	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	4	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	4	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	4	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	5	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	5	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	5	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	5	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	10	0.31
(1,634)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	10	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	10	0.31
(1,634)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	10	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	1	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	1	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	1	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	1	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	2	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	2	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	2	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	2	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	3	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	3	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	3	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	3	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	4	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	4	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	4	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	4	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	5	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	5	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	5	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	6	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	6	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	6	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	6	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	7	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	7	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	7	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	7	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	8	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	8	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	8	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	8	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	9	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	9	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	9	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	9	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.31
(1,618)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.31
(1,618)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	3	0.31
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	3	0.31
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	3	0.31
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	3	0.31
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	4	0.31
(1,589)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	4	0.31
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	4	0.31
(1,589)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	4	0.31
(1,588)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	5	0.31
(1,588)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	5	0.31
(1,588)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	5	0.31
(1,588)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	5	0.31
(1,567)	1:A:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	2	0.31
(1,567)	1:A:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	2	0.31
(1,567)	1:B:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	2	0.31
(1,567)	1:B:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	2	0.31
(1,567)	1:A:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	6	0.31
(1,567)	1:A:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	6	0.31
(1,567)	1:B:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	6	0.31
(1,567)	1:B:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	6	0.31
(1,545)	1:A:12:DA:H4 <sup>?</sup>	1:A:13:DG:H3 <sup>?</sup>	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	8	0.31
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	8	0.31
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	8	0.31
(1,535)	1:A:12:DA:H1'	1:A:12:DA:H4'	9	0.31
(1,535)	1:A:12:DA:H1'	1:B:12:DA:H4'	9	0.31
(1,535)	1:B:12:DA:H1'	1:A:12:DA:H4'	9	0.31
(1,535)	1:B:12:DA:H1'	1:B:12:DA:H4'	9	0.31
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	1	0.31
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	1	0.31
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	1	0.31
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	1	0.31
(1,384)	1:A:4:DG:H4'	1:A:5:DG:H8	10	0.31
(1,384)	1:A:4:DG:H4'	1:B:5:DG:H8	10	0.31
(1,384)	1:B:4:DG:H4'	1:A:5:DG:H8	10	0.31
(1,384)	1:B:4:DG:H4'	1:B:5:DG:H8	10	0.31
(1,381)	1:A:4:DG:H2'	1:A:4:DG:H8	4	0.31
(1,381)	1:A:4:DG:H2'	1:B:4:DG:H8	4	0.31
(1,381)	1:B:4:DG:H2'	1:A:4:DG:H8	4	0.31
(1,381)	1:B:4:DG:H2'	1:B:4:DG:H8	4	0.31
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	2	0.31
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	2	0.31
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	2	0.31
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	2	0.31
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	5	0.31
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	5	0.31
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	5	0.31
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	5	0.31
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	9	0.31
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	9	0.31
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	9	0.31
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	9	0.31
(1,311)	1:A:2:DG:H5''	1:A:3:DG:H5'	5	0.31
(1,311)	1:A:2:DG:H5''	1:B:3:DG:H5'	5	0.31
(1,311)	1:B:2:DG:H5''	1:A:3:DG:H5'	5	0.31
(1,311)	1:B:2:DG:H5''	1:B:3:DG:H5'	5	0.31
(1,278)	1:A:2:DG:H1'	1:A:2:DG:H4'	6	0.31
(1,278)	1:A:2:DG:H1'	1:B:2:DG:H4'	6	0.31
(1,278)	1:B:2:DG:H1'	1:A:2:DG:H4'	6	0.31
(1,278)	1:B:2:DG:H1'	1:B:2:DG:H4'	6	0.31
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	1	0.31
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	1	0.31
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	1	0.31
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	3	0.31
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	3	0.31
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	3	0.31
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	3	0.31
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	5	0.31
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	5	0.31
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	5	0.31
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	5	0.31
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	10	0.31
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	10	0.31
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	10	0.31
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	10	0.31
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	2	0.31
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	2	0.31
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	2	0.31
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	2	0.31
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	3	0.31
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	3	0.31
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	3	0.31
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	3	0.31
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	8	0.31
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	8	0.31
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	8	0.31
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	8	0.31
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	10	0.31
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	10	0.31
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	10	0.31
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	10	0.31
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	10	0.31
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	10	0.31
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	10	0.31
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	10	0.31
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	2	0.31
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	2	0.31
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	2	0.31
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	2	0.31
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	3	0.31
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	3	0.31
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	3	0.31
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	3	0.31
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	8	0.31
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	8	0.31
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	8	0.31
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	10	0.31
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	10	0.31
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	10	0.31
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	10	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	4	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	4	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	4	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	4	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	6	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	6	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	6	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	6	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	8	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	8	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	8	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	8	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	9	0.31
(1,1092)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	9	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	9	0.31
(1,1092)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	9	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	1	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	1	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	1	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	1	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	2	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	2	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	2	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	2	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	3	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	3	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	3	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	3	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	4	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	4	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	4	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	4	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	5	0.31
(1,1069)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	5	0.31
(1,1069)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1069)	1:B:17:DG:H2'	1:B:17:DG:H3'	5	0.31
(1,1069)	1:A:17:DG:H2'	1:A:17:DG:H3'	10	0.31
(1,1069)	1:A:17:DG:H2'	1:B:17:DG:H3'	10	0.31
(1,1069)	1:B:17:DG:H2'	1:A:17:DG:H3'	10	0.31
(1,1069)	1:B:17:DG:H2'	1:B:17:DG:H3'	10	0.31
(1,1053)	1:A:16:DT:H2''	1:A:16:DT:H2''	1	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	1	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	1	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	1	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	2	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	2	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	2	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	2	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	3	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	3	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	3	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	3	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	4	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	4	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	4	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	4	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	5	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	5	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	5	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	5	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	6	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	6	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	6	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	6	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	7	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	7	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	7	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	7	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	8	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	8	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	8	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	8	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	9	0.31
(1,1053)	1:A:16:DT:H2'	1:B:16:DT:H2''	9	0.31
(1,1053)	1:B:16:DT:H2'	1:A:16:DT:H2''	9	0.31
(1,1053)	1:B:16:DT:H2'	1:B:16:DT:H2''	9	0.31
(1,1053)	1:A:16:DT:H2'	1:A:16:DT:H2''	10	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1053)	1:A:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31
(1,1053)	1:B:16:DT:H2 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.31
(1,1053)	1:B:16:DT:H2 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.31
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	3	0.31
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	3	0.31
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	3	0.31
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	3	0.31
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	4	0.31
(1,1024)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	4	0.31
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H8	4	0.31
(1,1024)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H8	4	0.31
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	5	0.31
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	5	0.31
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	5	0.31
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	5	0.31
(1,1002)	1:A:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	2	0.31
(1,1002)	1:A:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	2	0.31
(1,1002)	1:B:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	2	0.31
(1,1002)	1:B:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	2	0.31
(1,1002)	1:A:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	6	0.31
(1,1002)	1:A:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	6	0.31
(1,1002)	1:B:14:DG:H1 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	6	0.31
(1,1002)	1:B:14:DG:H1 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	6	0.31
(1,987)	1:A:13:DG:H1 <sup>?</sup>	1:A:13:DG:H4 <sup>?</sup>	2	0.3
(1,987)	1:A:13:DG:H1 <sup>?</sup>	1:B:13:DG:H4 <sup>?</sup>	2	0.3
(1,987)	1:B:13:DG:H1 <sup>?</sup>	1:A:13:DG:H4 <sup>?</sup>	2	0.3
(1,987)	1:B:13:DG:H1 <sup>?</sup>	1:B:13:DG:H4 <sup>?</sup>	2	0.3
(1,970)	1:A:12:DA:H1 <sup>?</sup>	1:A:12:DA:H4 <sup>?</sup>	10	0.3
(1,970)	1:A:12:DA:H1 <sup>?</sup>	1:B:12:DA:H4 <sup>?</sup>	10	0.3
(1,970)	1:B:12:DA:H1 <sup>?</sup>	1:A:12:DA:H4 <sup>?</sup>	10	0.3
(1,970)	1:B:12:DA:H1 <sup>?</sup>	1:B:12:DA:H4 <sup>?</sup>	10	0.3
(1,961)	1:A:11:DG:H4 <sup>?</sup>	1:A:12:DA:H3 <sup>?</sup>	4	0.3
(1,961)	1:A:11:DG:H4 <sup>?</sup>	1:B:12:DA:H3 <sup>?</sup>	4	0.3
(1,961)	1:B:11:DG:H4 <sup>?</sup>	1:A:12:DA:H3 <sup>?</sup>	4	0.3
(1,961)	1:B:11:DG:H4 <sup>?</sup>	1:B:12:DA:H3 <sup>?</sup>	4	0.3
(1,937)	1:A:10:DG:H2 <sup>?</sup>	1:A:11:DG:H8	1	0.3
(1,937)	1:A:10:DG:H2 <sup>?</sup>	1:B:11:DG:H8	1	0.3
(1,937)	1:B:10:DG:H2 <sup>?</sup>	1:A:11:DG:H8	1	0.3
(1,937)	1:B:10:DG:H2 <sup>?</sup>	1:B:11:DG:H8	1	0.3
(1,937)	1:A:10:DG:H2 <sup>?</sup>	1:A:11:DG:H8	2	0.3
(1,937)	1:A:10:DG:H2 <sup>?</sup>	1:B:11:DG:H8	2	0.3
(1,937)	1:B:10:DG:H2 <sup>?</sup>	1:A:11:DG:H8	2	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	2	0.3
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	6	0.3
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	6	0.3
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	6	0.3
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	6	0.3
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	8	0.3
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	8	0.3
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	8	0.3
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	8	0.3
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	9	0.3
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	9	0.3
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	9	0.3
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	9	0.3
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	5	0.3
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	5	0.3
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	5	0.3
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	5	0.3
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	5	0.3
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	5	0.3
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	5	0.3
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	5	0.3
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	9	0.3
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	9	0.3
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	9	0.3
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	9	0.3
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	1	0.3
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	1	0.3
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	1	0.3
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	1	0.3
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	8	0.3
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	8	0.3
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	8	0.3
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	8	0.3
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	8	0.3
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	8	0.3
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	8	0.3
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	8	0.3
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	9	0.3
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	9	0.3
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	9	0.3
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	9	0.3
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	5	0.3
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	5	0.3
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	5	0.3
(1,765)	1:A:3:DG:H2'	1:A:3:DG:H5'	8	0.3
(1,765)	1:A:3:DG:H2'	1:B:3:DG:H5'	8	0.3
(1,765)	1:B:3:DG:H2'	1:A:3:DG:H5'	8	0.3
(1,765)	1:B:3:DG:H2'	1:B:3:DG:H5'	8	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	1	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	1	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	1	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	1	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	2	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	2	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	2	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	2	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	4	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	4	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	4	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	4	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	6	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	6	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	6	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	6	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	7	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	7	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	7	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	7	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	8	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	8	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	8	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	8	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	9	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	9	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	9	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	9	0.3
(1,662)	1:A:1:DA:H2'	1:A:1:DA:H3'	10	0.3
(1,662)	1:A:1:DA:H2'	1:B:1:DA:H3'	10	0.3
(1,662)	1:B:1:DA:H2'	1:A:1:DA:H3'	10	0.3
(1,662)	1:B:1:DA:H2'	1:B:1:DA:H3'	10	0.3
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	3	0.3
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	3	0.3
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,656)	1:B:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	3	0.3
(1,630)	1:A:16:DT:H4 <sup>'</sup>	1:A:17:DG:H3 <sup>'</sup>	8	0.3
(1,630)	1:A:16:DT:H4 <sup>'</sup>	1:B:17:DG:H3 <sup>'</sup>	8	0.3
(1,630)	1:B:16:DT:H4 <sup>'</sup>	1:A:17:DG:H3 <sup>'</sup>	8	0.3
(1,630)	1:B:16:DT:H4 <sup>'</sup>	1:B:17:DG:H3 <sup>'</sup>	8	0.3
(1,588)	1:A:15:DG:H1 <sup>'</sup>	1:A:15:DG:H4 <sup>'</sup>	1	0.3
(1,588)	1:A:15:DG:H1 <sup>'</sup>	1:B:15:DG:H4 <sup>'</sup>	1	0.3
(1,588)	1:B:15:DG:H1 <sup>'</sup>	1:A:15:DG:H4 <sup>'</sup>	1	0.3
(1,588)	1:B:15:DG:H1 <sup>'</sup>	1:B:15:DG:H4 <sup>'</sup>	1	0.3
(1,588)	1:A:15:DG:H1 <sup>'</sup>	1:A:15:DG:H4 <sup>'</sup>	9	0.3
(1,588)	1:A:15:DG:H1 <sup>'</sup>	1:B:15:DG:H4 <sup>'</sup>	9	0.3
(1,588)	1:B:15:DG:H1 <sup>'</sup>	1:A:15:DG:H4 <sup>'</sup>	9	0.3
(1,588)	1:B:15:DG:H1 <sup>'</sup>	1:B:15:DG:H4 <sup>'</sup>	9	0.3
(1,581)	1:A:14:DG:H1 <sup>'</sup>	1:A:15:DG:H8	9	0.3
(1,581)	1:A:14:DG:H1 <sup>'</sup>	1:B:15:DG:H8	9	0.3
(1,581)	1:B:14:DG:H1 <sup>'</sup>	1:A:15:DG:H8	9	0.3
(1,581)	1:B:14:DG:H1 <sup>'</sup>	1:B:15:DG:H8	9	0.3
(1,565)	1:A:13:DG:H2 <sup>'</sup>	1:A:14:DG:H8	6	0.3
(1,565)	1:A:13:DG:H2 <sup>'</sup>	1:B:14:DG:H8	6	0.3
(1,565)	1:B:13:DG:H2 <sup>'</sup>	1:A:14:DG:H8	6	0.3
(1,565)	1:B:13:DG:H2 <sup>'</sup>	1:B:14:DG:H8	6	0.3
(1,552)	1:A:13:DG:H1 <sup>'</sup>	1:A:13:DG:H4 <sup>'</sup>	2	0.3
(1,552)	1:A:13:DG:H1 <sup>'</sup>	1:B:13:DG:H4 <sup>'</sup>	2	0.3
(1,552)	1:B:13:DG:H1 <sup>'</sup>	1:A:13:DG:H4 <sup>'</sup>	2	0.3
(1,552)	1:B:13:DG:H1 <sup>'</sup>	1:B:13:DG:H4 <sup>'</sup>	2	0.3
(1,535)	1:A:12:DA:H1 <sup>'</sup>	1:A:12:DA:H4 <sup>'</sup>	10	0.3
(1,535)	1:A:12:DA:H1 <sup>'</sup>	1:B:12:DA:H4 <sup>'</sup>	10	0.3
(1,535)	1:B:12:DA:H1 <sup>'</sup>	1:A:12:DA:H4 <sup>'</sup>	10	0.3
(1,535)	1:B:12:DA:H1 <sup>'</sup>	1:B:12:DA:H4 <sup>'</sup>	10	0.3
(1,526)	1:A:11:DG:H4 <sup>'</sup>	1:A:12:DA:H3 <sup>'</sup>	4	0.3
(1,526)	1:A:11:DG:H4 <sup>'</sup>	1:B:12:DA:H3 <sup>'</sup>	4	0.3
(1,526)	1:B:11:DG:H4 <sup>'</sup>	1:A:12:DA:H3 <sup>'</sup>	4	0.3
(1,526)	1:B:11:DG:H4 <sup>'</sup>	1:B:12:DA:H3 <sup>'</sup>	4	0.3
(1,502)	1:A:10:DG:H2 <sup>''</sup>	1:A:11:DG:H8	1	0.3
(1,502)	1:A:10:DG:H2 <sup>''</sup>	1:B:11:DG:H8	1	0.3
(1,502)	1:B:10:DG:H2 <sup>''</sup>	1:A:11:DG:H8	1	0.3
(1,502)	1:B:10:DG:H2 <sup>''</sup>	1:B:11:DG:H8	1	0.3
(1,502)	1:A:10:DG:H2 <sup>''</sup>	1:A:11:DG:H8	2	0.3
(1,502)	1:A:10:DG:H2 <sup>''</sup>	1:B:11:DG:H8	2	0.3
(1,502)	1:B:10:DG:H2 <sup>''</sup>	1:A:11:DG:H8	2	0.3
(1,502)	1:B:10:DG:H2 <sup>''</sup>	1:B:11:DG:H8	2	0.3
(1,502)	1:A:10:DG:H2 <sup>''</sup>	1:A:11:DG:H8	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	6	0.3
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	6	0.3
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	6	0.3
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	8	0.3
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	8	0.3
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	8	0.3
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	8	0.3
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	9	0.3
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	9	0.3
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	9	0.3
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	9	0.3
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	5	0.3
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	5	0.3
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	5	0.3
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	5	0.3
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	5	0.3
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	5	0.3
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	5	0.3
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	5	0.3
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	9	0.3
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	9	0.3
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	9	0.3
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	9	0.3
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	1	0.3
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	1	0.3
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	1	0.3
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	1	0.3
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	8	0.3
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	8	0.3
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	8	0.3
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	8	0.3
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	8	0.3
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	8	0.3
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	8	0.3
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	8	0.3
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	9	0.3
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	9	0.3
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	9	0.3
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	9	0.3
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	5	0.3
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	5	0.3
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	5	0.3
(1,330)	1:A:3:DG:H2'	1:A:3:DG:H5'	8	0.3
(1,330)	1:A:3:DG:H2'	1:B:3:DG:H5'	8	0.3
(1,330)	1:B:3:DG:H2'	1:A:3:DG:H5'	8	0.3
(1,330)	1:B:3:DG:H2'	1:B:3:DG:H5'	8	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	1	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	1	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	1	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	1	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	2	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	2	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	2	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	2	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	4	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	4	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	4	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	4	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	6	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	6	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	6	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	6	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	7	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	7	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	7	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	7	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	8	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	8	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	8	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	8	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	9	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	9	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	9	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	9	0.3
(1,227)	1:A:1:DA:H2'	1:A:1:DA:H3'	10	0.3
(1,227)	1:A:1:DA:H2'	1:B:1:DA:H3'	10	0.3
(1,227)	1:B:1:DA:H2'	1:A:1:DA:H3'	10	0.3
(1,227)	1:B:1:DA:H2'	1:B:1:DA:H3'	10	0.3
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	6	0.3
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	6	0.3
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	6	0.3
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	6	0.3
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	1	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	1	0.3
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	1	0.3
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	1	0.3
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	5	0.3
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	5	0.3
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	5	0.3
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	5	0.3
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	1	0.3
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	1	0.3
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	1	0.3
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	1	0.3
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	1	0.3
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	1	0.3
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	1	0.3
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	1	0.3
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	8	0.3
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	8	0.3
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	8	0.3
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	8	0.3
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	5	0.3
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	5	0.3
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	5	0.3
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	5	0.3
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	8	0.3
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	8	0.3
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	8	0.3
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	8	0.3
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	1	0.3
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	1	0.3
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	1	0.3
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	1	0.3
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	10	0.3
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	10	0.3
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	10	0.3
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	10	0.3
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	6	0.3
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	6	0.3
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	6	0.3
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	6	0.3
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	1	0.3
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	1	0.3
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	1	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	1	0.3
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	5	0.3
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	5	0.3
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	5	0.3
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	5	0.3
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	1	0.3
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	1	0.3
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	1	0.3
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	1	0.3
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	1	0.3
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	1	0.3
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	1	0.3
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	1	0.3
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	8	0.3
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	8	0.3
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	8	0.3
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	8	0.3
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	5	0.3
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	5	0.3
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	5	0.3
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	5	0.3
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	8	0.3
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	8	0.3
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	8	0.3
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	8	0.3
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	1	0.3
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	1	0.3
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	1	0.3
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	1	0.3
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	10	0.3
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	10	0.3
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	10	0.3
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	10	0.3
(1,1091)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	3	0.3
(1,1091)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	3	0.3
(1,1091)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	3	0.3
(1,1091)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	3	0.3
(1,1065)	1:A:16:DT:H4 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	8	0.3
(1,1065)	1:A:16:DT:H4 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	8	0.3
(1,1065)	1:B:16:DT:H4 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	8	0.3
(1,1065)	1:B:16:DT:H4 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	8	0.3
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	1	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1023)	1:A:15:DG:H1'	1:B:15:DG:H4'	1	0.3
(1,1023)	1:B:15:DG:H1'	1:A:15:DG:H4'	1	0.3
(1,1023)	1:B:15:DG:H1'	1:B:15:DG:H4'	1	0.3
(1,1023)	1:A:15:DG:H1'	1:A:15:DG:H4'	9	0.3
(1,1023)	1:A:15:DG:H1'	1:B:15:DG:H4'	9	0.3
(1,1023)	1:B:15:DG:H1'	1:A:15:DG:H4'	9	0.3
(1,1023)	1:B:15:DG:H1'	1:B:15:DG:H4'	9	0.3
(1,1016)	1:A:14:DG:H1'	1:A:15:DG:H8	9	0.3
(1,1016)	1:A:14:DG:H1'	1:B:15:DG:H8	9	0.3
(1,1016)	1:B:14:DG:H1'	1:A:15:DG:H8	9	0.3
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	9	0.3
(1,1000)	1:A:13:DG:H2'	1:A:14:DG:H8	6	0.3
(1,1000)	1:A:13:DG:H2'	1:B:14:DG:H8	6	0.3
(1,1000)	1:B:13:DG:H2'	1:A:14:DG:H8	6	0.3
(1,1000)	1:B:13:DG:H2'	1:B:14:DG:H8	6	0.3
(1,980)	1:A:12:DA:H4'	1:A:13:DG:H3'	10	0.29
(1,980)	1:A:12:DA:H4'	1:B:13:DG:H3'	10	0.29
(1,980)	1:B:12:DA:H4'	1:A:13:DG:H3'	10	0.29
(1,980)	1:B:12:DA:H4'	1:B:13:DG:H3'	10	0.29
(1,970)	1:A:12:DA:H1'	1:A:12:DA:H4'	5	0.29
(1,970)	1:A:12:DA:H1'	1:B:12:DA:H4'	5	0.29
(1,970)	1:B:12:DA:H1'	1:A:12:DA:H4'	5	0.29
(1,970)	1:B:12:DA:H1'	1:B:12:DA:H4'	5	0.29
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	9	0.29
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	9	0.29
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	9	0.29
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	9	0.29
(1,942)	1:A:11:DG:H1'	1:A:11:DG:H4'	9	0.29
(1,942)	1:A:11:DG:H1'	1:B:11:DG:H4'	9	0.29
(1,942)	1:B:11:DG:H1'	1:A:11:DG:H4'	9	0.29
(1,942)	1:B:11:DG:H1'	1:B:11:DG:H4'	9	0.29
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	3	0.29
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	3	0.29
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	3	0.29
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	3	0.29
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	4	0.29
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	4	0.29
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	4	0.29
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	4	0.29
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	5	0.29
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	5	0.29
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	5	0.29
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	7	0.29
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	7	0.29
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	7	0.29
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	7	0.29
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	9	0.29
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	9	0.29
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	9	0.29
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	9	0.29
(1,937)	1:A:10:DG:H2''	1:A:11:DG:H8	10	0.29
(1,937)	1:A:10:DG:H2''	1:B:11:DG:H8	10	0.29
(1,937)	1:B:10:DG:H2''	1:A:11:DG:H8	10	0.29
(1,937)	1:B:10:DG:H2''	1:B:11:DG:H8	10	0.29
(1,845)	1:A:5:DG:H8	1:A:6:DG:H8	7	0.29
(1,845)	1:A:5:DG:H8	1:B:6:DG:H8	7	0.29
(1,845)	1:B:5:DG:H8	1:A:6:DG:H8	7	0.29
(1,845)	1:B:5:DG:H8	1:B:6:DG:H8	7	0.29
(1,845)	1:A:5:DG:H8	1:A:6:DG:H8	10	0.29
(1,845)	1:A:5:DG:H8	1:B:6:DG:H8	10	0.29
(1,845)	1:B:5:DG:H8	1:A:6:DG:H8	10	0.29
(1,845)	1:B:5:DG:H8	1:B:6:DG:H8	10	0.29
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	2	0.29
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	2	0.29
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	2	0.29
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	2	0.29
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	3	0.29
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	3	0.29
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	3	0.29
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	3	0.29
(1,797)	1:A:3:DG:H1'	1:A:18:DG:H1'	8	0.29
(1,797)	1:A:3:DG:H1'	1:B:18:DG:H1'	8	0.29
(1,797)	1:B:3:DG:H1'	1:A:18:DG:H1'	8	0.29
(1,797)	1:B:3:DG:H1'	1:B:18:DG:H1'	8	0.29
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	4	0.29
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	4	0.29
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	4	0.29
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	4	0.29
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	6	0.29
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	6	0.29
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	6	0.29
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	6	0.29
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	7	0.29
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	7	0.29
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	7	0.29
(1,796)	1:A:3:DG:H8	1:A:18:DG:H2''	10	0.29
(1,796)	1:A:3:DG:H8	1:B:18:DG:H2''	10	0.29
(1,796)	1:B:3:DG:H8	1:A:18:DG:H2''	10	0.29
(1,796)	1:B:3:DG:H8	1:B:18:DG:H2''	10	0.29
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	2	0.29
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	2	0.29
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	2	0.29
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	2	0.29
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	4	0.29
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	4	0.29
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	4	0.29
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	4	0.29
(1,669)	1:A:1:DA:H2	1:A:1:DA:H5'	7	0.29
(1,669)	1:A:1:DA:H2	1:B:1:DA:H5'	7	0.29
(1,669)	1:B:1:DA:H2	1:A:1:DA:H5'	7	0.29
(1,669)	1:B:1:DA:H2	1:B:1:DA:H5'	7	0.29
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	5	0.29
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	5	0.29
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	5	0.29
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	5	0.29
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	8	0.29
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	8	0.29
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	8	0.29
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	8	0.29
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	9	0.29
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	9	0.29
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	9	0.29
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	9	0.29
(1,581)	1:A:14:DG:H1'	1:A:15:DG:H8	5	0.29
(1,581)	1:A:14:DG:H1'	1:B:15:DG:H8	5	0.29
(1,581)	1:B:14:DG:H1'	1:A:15:DG:H8	5	0.29
(1,581)	1:B:14:DG:H1'	1:B:15:DG:H8	5	0.29
(1,581)	1:A:14:DG:H1'	1:A:15:DG:H8	10	0.29
(1,581)	1:A:14:DG:H1'	1:B:15:DG:H8	10	0.29
(1,581)	1:B:14:DG:H1'	1:A:15:DG:H8	10	0.29
(1,581)	1:B:14:DG:H1'	1:B:15:DG:H8	10	0.29
(1,545)	1:A:12:DA:H4'	1:A:13:DG:H3'	10	0.29
(1,545)	1:A:12:DA:H4'	1:B:13:DG:H3'	10	0.29
(1,545)	1:B:12:DA:H4'	1:A:13:DG:H3'	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:B:12:DA:H4'	1:B:13:DG:H3'	10	0.29
(1,535)	1:A:12:DA:H1'	1:A:12:DA:H4'	5	0.29
(1,535)	1:A:12:DA:H1'	1:B:12:DA:H4'	5	0.29
(1,535)	1:B:12:DA:H1'	1:A:12:DA:H4'	5	0.29
(1,535)	1:B:12:DA:H1'	1:B:12:DA:H4'	5	0.29
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	9	0.29
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	9	0.29
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	9	0.29
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	9	0.29
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	9	0.29
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	9	0.29
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	9	0.29
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	9	0.29
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	3	0.29
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	3	0.29
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	3	0.29
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	3	0.29
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	4	0.29
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	4	0.29
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	4	0.29
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	4	0.29
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	5	0.29
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	5	0.29
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	5	0.29
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	5	0.29
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	7	0.29
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	7	0.29
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	7	0.29
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	7	0.29
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	9	0.29
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	9	0.29
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	9	0.29
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	9	0.29
(1,502)	1:A:10:DG:H2''	1:A:11:DG:H8	10	0.29
(1,502)	1:A:10:DG:H2''	1:B:11:DG:H8	10	0.29
(1,502)	1:B:10:DG:H2''	1:A:11:DG:H8	10	0.29
(1,502)	1:B:10:DG:H2''	1:B:11:DG:H8	10	0.29
(1,410)	1:A:5:DG:H8	1:A:6:DG:H8	7	0.29
(1,410)	1:A:5:DG:H8	1:B:6:DG:H8	7	0.29
(1,410)	1:B:5:DG:H8	1:A:6:DG:H8	7	0.29
(1,410)	1:B:5:DG:H8	1:B:6:DG:H8	7	0.29
(1,410)	1:A:5:DG:H8	1:A:6:DG:H8	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,410)	1:A:5:DG:H8	1:B:6:DG:H8	10	0.29
(1,410)	1:B:5:DG:H8	1:A:6:DG:H8	10	0.29
(1,410)	1:B:5:DG:H8	1:B:6:DG:H8	10	0.29
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	2	0.29
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	2	0.29
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	2	0.29
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	2	0.29
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	3	0.29
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	3	0.29
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	3	0.29
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	3	0.29
(1,362)	1:A:3:DG:H1'	1:A:18:DG:H1'	8	0.29
(1,362)	1:A:3:DG:H1'	1:B:18:DG:H1'	8	0.29
(1,362)	1:B:3:DG:H1'	1:A:18:DG:H1'	8	0.29
(1,362)	1:B:3:DG:H1'	1:B:18:DG:H1'	8	0.29
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	4	0.29
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	4	0.29
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	4	0.29
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	4	0.29
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	6	0.29
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	6	0.29
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	6	0.29
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	6	0.29
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	7	0.29
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	7	0.29
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	7	0.29
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	7	0.29
(1,361)	1:A:3:DG:H8	1:A:18:DG:H2''	10	0.29
(1,361)	1:A:3:DG:H8	1:B:18:DG:H2''	10	0.29
(1,361)	1:B:3:DG:H8	1:A:18:DG:H2''	10	0.29
(1,361)	1:B:3:DG:H8	1:B:18:DG:H2''	10	0.29
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	2	0.29
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	2	0.29
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	2	0.29
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	2	0.29
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	4	0.29
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	4	0.29
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	4	0.29
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	4	0.29
(1,234)	1:A:1:DA:H2	1:A:1:DA:H5'	7	0.29
(1,234)	1:A:1:DA:H2	1:B:1:DA:H5'	7	0.29
(1,234)	1:B:1:DA:H2	1:A:1:DA:H5'	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:B:1:DA:H2	1:B:1:DA:H5'	7	0.29
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	4	0.29
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	4	0.29
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	4	0.29
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	4	0.29
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	3	0.29
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	3	0.29
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	3	0.29
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	3	0.29
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	9	0.29
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	9	0.29
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	9	0.29
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	9	0.29
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	10	0.29
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	10	0.29
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	10	0.29
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	10	0.29
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	4	0.29
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	4	0.29
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	4	0.29
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	4	0.29
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	8	0.29
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	8	0.29
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	8	0.29
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	8	0.29
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	10	0.29
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	10	0.29
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	10	0.29
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	10	0.29
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	5	0.29
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	5	0.29
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	5	0.29
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	5	0.29
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	6	0.29
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	6	0.29
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	6	0.29
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	6	0.29
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	7	0.29
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	7	0.29
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	7	0.29
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	7	0.29
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	8	0.29
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	8	0.29
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	8	0.29
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	9	0.29
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	9	0.29
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	9	0.29
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	9	0.29
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	10	0.29
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	10	0.29
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	10	0.29
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	10	0.29
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	6	0.29
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	6	0.29
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	6	0.29
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	6	0.29
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	9	0.29
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	9	0.29
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	9	0.29
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	9	0.29
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	4	0.29
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	4	0.29
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	4	0.29
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	4	0.29
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	9	0.29
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	9	0.29
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	9	0.29
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	9	0.29
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	8	0.29
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	8	0.29
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	8	0.29
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	8	0.29
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	6	0.29
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	6	0.29
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	6	0.29
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	6	0.29
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	4	0.29
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	4	0.29
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	4	0.29
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	4	0.29
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	3	0.29
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	3	0.29
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	3	0.29
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	9	0.29
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	9	0.29
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	9	0.29
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	9	0.29
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	10	0.29
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	10	0.29
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	10	0.29
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	10	0.29
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	4	0.29
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	4	0.29
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	4	0.29
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	4	0.29
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	8	0.29
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	8	0.29
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	8	0.29
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	8	0.29
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	10	0.29
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	10	0.29
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	10	0.29
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	10	0.29
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	5	0.29
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	5	0.29
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	5	0.29
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	5	0.29
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	6	0.29
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	6	0.29
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	6	0.29
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	6	0.29
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	7	0.29
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	7	0.29
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	7	0.29
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	7	0.29
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	8	0.29
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	8	0.29
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	8	0.29
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	8	0.29
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	9	0.29
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	9	0.29
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	9	0.29
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	9	0.29
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	10	0.29
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	10	0.29
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	10	0.29
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	6	0.29
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	6	0.29
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	6	0.29
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	6	0.29
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	9	0.29
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	9	0.29
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	9	0.29
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	9	0.29
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	4	0.29
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	4	0.29
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	4	0.29
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	4	0.29
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	9	0.29
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	9	0.29
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	9	0.29
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	9	0.29
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	8	0.29
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	8	0.29
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	8	0.29
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	8	0.29
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	6	0.29
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	6	0.29
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	6	0.29
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	6	0.29
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	5	0.29
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	5	0.29
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	5	0.29
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	5	0.29
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	8	0.29
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	8	0.29
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	8	0.29
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	8	0.29
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	9	0.29
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	9	0.29
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	9	0.29
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	9	0.29
(1,1016)	1:A:14:DG:H1 <sup>'</sup>	1:A:15:DG:H8	5	0.29
(1,1016)	1:A:14:DG:H1 <sup>'</sup>	1:B:15:DG:H8	5	0.29
(1,1016)	1:B:14:DG:H1 <sup>'</sup>	1:A:15:DG:H8	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	5	0.29
(1,1016)	1:A:14:DG:H1'	1:A:15:DG:H8	10	0.29
(1,1016)	1:A:14:DG:H1'	1:B:15:DG:H8	10	0.29
(1,1016)	1:B:14:DG:H1'	1:A:15:DG:H8	10	0.29
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	10	0.29
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	2	0.28
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	2	0.28
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	2	0.28
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	2	0.28
(1,942)	1:A:11:DG:H1'	1:A:11:DG:H4'	3	0.28
(1,942)	1:A:11:DG:H1'	1:B:11:DG:H4'	3	0.28
(1,942)	1:B:11:DG:H1'	1:A:11:DG:H4'	3	0.28
(1,942)	1:B:11:DG:H1'	1:B:11:DG:H4'	3	0.28
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	4	0.28
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	4	0.28
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	4	0.28
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	4	0.28
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	6	0.28
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	6	0.28
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	6	0.28
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	6	0.28
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	7	0.28
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	7	0.28
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	7	0.28
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	7	0.28
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	3	0.28
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	3	0.28
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	3	0.28
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	3	0.28
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	6	0.28
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	6	0.28
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	6	0.28
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	6	0.28
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	7	0.28
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	7	0.28
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	7	0.28
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	7	0.28
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	8	0.28
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	8	0.28
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	8	0.28
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	8	0.28
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	9	0.28
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	9	0.28
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	9	0.28
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	6	0.28
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	6	0.28
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	6	0.28
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	6	0.28
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	3	0.28
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	3	0.28
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	3	0.28
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	3	0.28
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	8	0.28
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	8	0.28
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	8	0.28
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	8	0.28
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	9	0.28
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	9	0.28
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	9	0.28
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	9	0.28
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	10	0.28
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	10	0.28
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	10	0.28
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	10	0.28
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	2	0.28
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	2	0.28
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	2	0.28
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	2	0.28
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	1	0.28
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	1	0.28
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	1	0.28
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	1	0.28
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	3	0.28
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	3	0.28
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	3	0.28
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	3	0.28
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	10	0.28
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	10	0.28
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	10	0.28
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	10	0.28
(1,588)	1:A:15:DG:H1'	1:A:15:DG:H4'	7	0.28
(1,588)	1:A:15:DG:H1'	1:B:15:DG:H4'	7	0.28
(1,588)	1:B:15:DG:H1'	1:A:15:DG:H4'	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,588)	1:B:15:DG:H1'	1:B:15:DG:H4'	7	0.28
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	2	0.28
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	2	0.28
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	2	0.28
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	2	0.28
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	3	0.28
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	3	0.28
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	3	0.28
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	3	0.28
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	4	0.28
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	4	0.28
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	4	0.28
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	4	0.28
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	6	0.28
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	6	0.28
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	6	0.28
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	6	0.28
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	7	0.28
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	7	0.28
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	7	0.28
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	7	0.28
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	3	0.28
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	3	0.28
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	3	0.28
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	3	0.28
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	6	0.28
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	6	0.28
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	6	0.28
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	6	0.28
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	7	0.28
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	7	0.28
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	7	0.28
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	7	0.28
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	8	0.28
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	8	0.28
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	8	0.28
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	8	0.28
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	9	0.28
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	9	0.28
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	9	0.28
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	9	0.28
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	6	0.28
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	6	0.28
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	6	0.28
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	3	0.28
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	3	0.28
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	3	0.28
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	3	0.28
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	8	0.28
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	8	0.28
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	8	0.28
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	8	0.28
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	9	0.28
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	9	0.28
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	9	0.28
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	9	0.28
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	10	0.28
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	10	0.28
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	10	0.28
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	10	0.28
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	6	0.28
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	6	0.28
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	6	0.28
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	6	0.28
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	3	0.28
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	3	0.28
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	3	0.28
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	3	0.28
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	7	0.28
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	7	0.28
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	7	0.28
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	7	0.28
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	6	0.28
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	6	0.28
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	6	0.28
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	6	0.28
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	8	0.28
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	8	0.28
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	8	0.28
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	8	0.28
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	7	0.28
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	7	0.28
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	7	0.28
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	9	0.28
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	9	0.28
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	9	0.28
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	9	0.28
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	2	0.28
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	2	0.28
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	2	0.28
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	2	0.28
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	2	0.28
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	2	0.28
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	2	0.28
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	2	0.28
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	2	0.28
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	2	0.28
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	2	0.28
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	2	0.28
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	4	0.28
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	4	0.28
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	4	0.28
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	4	0.28
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	6	0.28
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	6	0.28
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	6	0.28
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	6	0.28
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	8	0.28
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	8	0.28
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	8	0.28
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	8	0.28
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	7	0.28
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	7	0.28
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	7	0.28
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	7	0.28
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	3	0.28
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	3	0.28
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	3	0.28
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	3	0.28
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	8	0.28
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	8	0.28
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	8	0.28
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	8	0.28
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	9	0.28
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	9	0.28
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	9	0.28
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	4	0.28
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	4	0.28
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	4	0.28
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	4	0.28
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	5	0.28
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	5	0.28
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	5	0.28
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	5	0.28
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	9	0.28
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	9	0.28
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	9	0.28
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	9	0.28
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	2	0.28
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	2	0.28
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	2	0.28
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	2	0.28
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	6	0.28
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	6	0.28
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	6	0.28
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	6	0.28
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	3	0.28
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	3	0.28
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	3	0.28
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	3	0.28
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	7	0.28
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	7	0.28
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	7	0.28
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	7	0.28
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	6	0.28
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	6	0.28
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	6	0.28
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	6	0.28
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	8	0.28
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	8	0.28
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	8	0.28
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	8	0.28
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	7	0.28
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	7	0.28
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	7	0.28
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	9	0.28
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	9	0.28
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	9	0.28
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	9	0.28
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	2	0.28
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	2	0.28
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	2	0.28
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	2	0.28
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	2	0.28
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	2	0.28
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	2	0.28
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	2	0.28
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	2	0.28
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	2	0.28
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	2	0.28
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	2	0.28
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	4	0.28
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	4	0.28
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	4	0.28
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	4	0.28
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	6	0.28
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	6	0.28
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	6	0.28
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	6	0.28
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	8	0.28
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	8	0.28
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	8	0.28
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	8	0.28
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	7	0.28
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	7	0.28
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	7	0.28
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	7	0.28
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	3	0.28
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	3	0.28
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	3	0.28
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	3	0.28
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	8	0.28
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	8	0.28
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	8	0.28
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	8	0.28
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	9	0.28
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	9	0.28
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	9	0.28
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	4	0.28
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	4	0.28
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	4	0.28
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	4	0.28
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	5	0.28
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	5	0.28
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	5	0.28
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	5	0.28
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	9	0.28
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	9	0.28
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	9	0.28
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	9	0.28
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	2	0.28
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	2	0.28
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	2	0.28
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	2	0.28
(1,1091)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	2	0.28
(1,1091)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	2	0.28
(1,1091)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	2	0.28
(1,1091)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	2	0.28
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	1	0.28
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	1	0.28
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	1	0.28
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	1	0.28
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	3	0.28
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	3	0.28
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	3	0.28
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	3	0.28
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.28
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.28
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	10	0.28
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	10	0.28
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	7	0.28
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	7	0.28
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	7	0.28
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	7	0.28
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	3	0.27
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	3	0.27
(1,943)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	3	0.27
(1,943)	1:A:11:DG:H1'	1:A:11:DG:H2''	6	0.27
(1,943)	1:A:11:DG:H1'	1:B:11:DG:H2''	6	0.27
(1,943)	1:B:11:DG:H1'	1:A:11:DG:H2''	6	0.27
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	6	0.27
(1,943)	1:A:11:DG:H1'	1:A:11:DG:H2''	9	0.27
(1,943)	1:A:11:DG:H1'	1:B:11:DG:H2''	9	0.27
(1,943)	1:B:11:DG:H1'	1:A:11:DG:H2''	9	0.27
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	9	0.27
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	2	0.27
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	2	0.27
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	2	0.27
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	2	0.27
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	1	0.27
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	1	0.27
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	1	0.27
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	1	0.27
(1,845)	1:A:5:DG:H8	1:A:6:DG:H8	3	0.27
(1,845)	1:A:5:DG:H8	1:B:6:DG:H8	3	0.27
(1,845)	1:B:5:DG:H8	1:A:6:DG:H8	3	0.27
(1,845)	1:B:5:DG:H8	1:B:6:DG:H8	3	0.27
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	4	0.27
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	4	0.27
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	4	0.27
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	4	0.27
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	1	0.27
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	1	0.27
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	1	0.27
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	1	0.27
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	8	0.27
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	8	0.27
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	8	0.27
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	8	0.27
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	3	0.27
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	3	0.27
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	3	0.27
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	3	0.27
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	7	0.27
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	7	0.27
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	7	0.27
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	7	0.27
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	4	0.27
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	4	0.27
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	4	0.27
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	1	0.27
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	1	0.27
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	1	0.27
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	1	0.27
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	5	0.27
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	5	0.27
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	5	0.27
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	5	0.27
(1,716)	1:A:2:DG:H1'	1:A:2:DG:H2''	10	0.27
(1,716)	1:A:2:DG:H1'	1:B:2:DG:H2''	10	0.27
(1,716)	1:B:2:DG:H1'	1:A:2:DG:H2''	10	0.27
(1,716)	1:B:2:DG:H1'	1:B:2:DG:H2''	10	0.27
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	2	0.27
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	2	0.27
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	2	0.27
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	2	0.27
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	4	0.27
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	4	0.27
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	4	0.27
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	4	0.27
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	4	0.27
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	4	0.27
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	4	0.27
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	4	0.27
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	1	0.27
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	1	0.27
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	1	0.27
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	1	0.27
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	2	0.27
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	2	0.27
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	2	0.27
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	2	0.27
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	4	0.27
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	4	0.27
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	4	0.27
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	4	0.27
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	5	0.27
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	5	0.27
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	5	0.27
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	2	0.27
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	2	0.27
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	2	0.27
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	2	0.27
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	4	0.27
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	4	0.27
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	4	0.27
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	4	0.27
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	5	0.27
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	5	0.27
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	5	0.27
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	5	0.27
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	6	0.27
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	6	0.27
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	6	0.27
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	6	0.27
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	7	0.27
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	7	0.27
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	7	0.27
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	7	0.27
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	9	0.27
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	9	0.27
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	9	0.27
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	9	0.27
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5'	4	0.27
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5''	4	0.27
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5'	4	0.27
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5''	4	0.27
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5'	4	0.27
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5''	4	0.27
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5'	4	0.27
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5''	4	0.27
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	3	0.27
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	3	0.27
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	3	0.27
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	3	0.27
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	6	0.27
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	6	0.27
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	6	0.27
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	6	0.27
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	9	0.27
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	9	0.27
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	9	0.27
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	2	0.27
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	2	0.27
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	2	0.27
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	2	0.27
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	1	0.27
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	1	0.27
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	1	0.27
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	1	0.27
(1,410)	1:A:5:DG:H8	1:A:6:DG:H8	3	0.27
(1,410)	1:A:5:DG:H8	1:B:6:DG:H8	3	0.27
(1,410)	1:B:5:DG:H8	1:A:6:DG:H8	3	0.27
(1,410)	1:B:5:DG:H8	1:B:6:DG:H8	3	0.27
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	4	0.27
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	4	0.27
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	4	0.27
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	4	0.27
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	1	0.27
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	1	0.27
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	1	0.27
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	1	0.27
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	8	0.27
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	8	0.27
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	8	0.27
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	8	0.27
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	3	0.27
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	3	0.27
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	3	0.27
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	3	0.27
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	7	0.27
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	7	0.27
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	7	0.27
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	7	0.27
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	4	0.27
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	4	0.27
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	4	0.27
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	4	0.27
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	1	0.27
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	1	0.27
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	1	0.27
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	5	0.27
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	5	0.27
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	5	0.27
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	5	0.27
(1,281)	1:A:2:DG:H1'	1:A:2:DG:H2''	10	0.27
(1,281)	1:A:2:DG:H1'	1:B:2:DG:H2''	10	0.27
(1,281)	1:B:2:DG:H1'	1:A:2:DG:H2''	10	0.27
(1,281)	1:B:2:DG:H1'	1:B:2:DG:H2''	10	0.27
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	2	0.27
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	2	0.27
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	2	0.27
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	2	0.27
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	4	0.27
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	4	0.27
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	4	0.27
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	4	0.27
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	4	0.27
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	4	0.27
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	4	0.27
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	4	0.27
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	1	0.27
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	1	0.27
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	1	0.27
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	1	0.27
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	2	0.27
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	2	0.27
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	2	0.27
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	2	0.27
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	4	0.27
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	4	0.27
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	4	0.27
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	4	0.27
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	5	0.27
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	5	0.27
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	5	0.27
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	5	0.27
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	2	0.27
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	2	0.27
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	2	0.27
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	2	0.27
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	8	0.27
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	8	0.27
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	8	0.27
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	2	0.27
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	2	0.27
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	2	0.27
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	2	0.27
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	6	0.27
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	6	0.27
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	6	0.27
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	6	0.27
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	8	0.27
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	8	0.27
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	8	0.27
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	8	0.27
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	3	0.27
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	3	0.27
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	3	0.27
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	3	0.27
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	7	0.27
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	7	0.27
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	7	0.27
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	7	0.27
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	10	0.27
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	10	0.27
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	10	0.27
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	10	0.27
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	5	0.27
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	5	0.27
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	5	0.27
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	5	0.27
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	6	0.27
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	6	0.27
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	6	0.27
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	6	0.27
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	3	0.27
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	3	0.27
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	3	0.27
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	3	0.27
(1,1172)	1:A:14:DG:N2	1:A:18:DG:N7	4	0.27
(1,1172)	1:A:14:DG:N2	1:B:18:DG:N7	4	0.27
(1,1172)	1:B:14:DG:N2	1:A:18:DG:N7	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1172)	1:B:14:DG:N2	1:B:18:DG:N7	4	0.27
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	10	0.27
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	10	0.27
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	10	0.27
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	10	0.27
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	1	0.27
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	1	0.27
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	1	0.27
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	1	0.27
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	10	0.27
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	10	0.27
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	10	0.27
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	10	0.27
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	7	0.27
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	7	0.27
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	7	0.27
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	7	0.27
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	1	0.27
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	1	0.27
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	1	0.27
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	1	0.27
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	2	0.27
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	2	0.27
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	2	0.27
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	2	0.27
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	10	0.27
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	10	0.27
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	10	0.27
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	10	0.27
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	4	0.27
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	4	0.27
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	4	0.27
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	4	0.27
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	6	0.27
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	6	0.27
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	6	0.27
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	6	0.27
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	7	0.27
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	7	0.27
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	7	0.27
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	7	0.27
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	9	0.27
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	9	0.27
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	9	0.27
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	5	0.27
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	5	0.27
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	5	0.27
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	5	0.27
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	6	0.27
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	6	0.27
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	6	0.27
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	6	0.27
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	5	0.27
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	5	0.27
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	5	0.27
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	5	0.27
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	8	0.27
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	8	0.27
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	8	0.27
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	8	0.27
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	2	0.27
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	2	0.27
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	2	0.27
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	2	0.27
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	8	0.27
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	8	0.27
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	8	0.27
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	8	0.27
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	2	0.27
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	2	0.27
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	2	0.27
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	2	0.27
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	6	0.27
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	6	0.27
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	6	0.27
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	6	0.27
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	8	0.27
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	8	0.27
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	8	0.27
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	8	0.27
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	3	0.27
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	3	0.27
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	3	0.27
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	7	0.27
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	7	0.27
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	7	0.27
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	7	0.27
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	10	0.27
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	10	0.27
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	10	0.27
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	10	0.27
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	5	0.27
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	5	0.27
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	5	0.27
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	5	0.27
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	6	0.27
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	6	0.27
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	6	0.27
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	6	0.27
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	3	0.27
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	3	0.27
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	3	0.27
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	3	0.27
(1,1124)	1:A:14:DG:N2	1:A:18:DG:N7	4	0.27
(1,1124)	1:A:14:DG:N2	1:B:18:DG:N7	4	0.27
(1,1124)	1:B:14:DG:N2	1:A:18:DG:N7	4	0.27
(1,1124)	1:B:14:DG:N2	1:B:18:DG:N7	4	0.27
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	10	0.27
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	10	0.27
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	10	0.27
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	10	0.27
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	1	0.27
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	1	0.27
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	1	0.27
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	1	0.27
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	10	0.27
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	10	0.27
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	10	0.27
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	10	0.27
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	7	0.27
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	7	0.27
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	7	0.27
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	7	0.27
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	1	0.27
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	1	0.27
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	1	0.27
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	2	0.27
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	2	0.27
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	2	0.27
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	2	0.27
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	10	0.27
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	10	0.27
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	10	0.27
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	10	0.27
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	4	0.27
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	4	0.27
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	4	0.27
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	4	0.27
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	6	0.27
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	6	0.27
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	6	0.27
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	6	0.27
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	7	0.27
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	7	0.27
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	7	0.27
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	7	0.27
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	9	0.27
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	9	0.27
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	9	0.27
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	9	0.27
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	5	0.27
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	5	0.27
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	5	0.27
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	5	0.27
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	6	0.27
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	6	0.27
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	6	0.27
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	6	0.27
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	5	0.27
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	5	0.27
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	5	0.27
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	5	0.27
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	8	0.27
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	8	0.27
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	8	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	2	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	2	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	2	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	2	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	4	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	4	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	4	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	4	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	5	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	5	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	5	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	5	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	6	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	6	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	6	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	6	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	7	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	7	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	7	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	7	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	9	0.27
(1,1044)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	9	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>??</sup>	9	0.27
(1,1044)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>??</sup>	9	0.27
(1,1038)	1:A:15:DG:H1 <sup>?</sup>	1:A:16:DT:H5 <sup>?</sup>	4	0.27
(1,1038)	1:A:15:DG:H1 <sup>?</sup>	1:A:16:DT:H5 <sup>??</sup>	4	0.27
(1,1038)	1:A:15:DG:H1 <sup>?</sup>	1:B:16:DT:H5 <sup>?</sup>	4	0.27
(1,1038)	1:A:15:DG:H1 <sup>?</sup>	1:B:16:DT:H5 <sup>??</sup>	4	0.27
(1,1038)	1:B:15:DG:H1 <sup>?</sup>	1:A:16:DT:H5 <sup>?</sup>	4	0.27
(1,1038)	1:B:15:DG:H1 <sup>?</sup>	1:A:16:DT:H5 <sup>??</sup>	4	0.27
(1,1038)	1:B:15:DG:H1 <sup>?</sup>	1:B:16:DT:H5 <sup>?</sup>	4	0.27
(1,1038)	1:B:15:DG:H1 <sup>?</sup>	1:B:16:DT:H5 <sup>??</sup>	4	0.27
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>??</sup>	10	0.26
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H2 <sup>??</sup>	10	0.26
(1,943)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>??</sup>	10	0.26
(1,943)	1:B:11:DG:H1 <sup>?</sup>	1:B:11:DG:H2 <sup>??</sup>	10	0.26
(1,942)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	8	0.26
(1,942)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H4 <sup>?</sup>	8	0.26
(1,942)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	8	0.26
(1,942)	1:B:11:DG:H1 <sup>?</sup>	1:B:11:DG:H4 <sup>?</sup>	8	0.26
(1,872)	1:A:7:DG:H1 <sup>?</sup>	1:A:7:DG:H2 <sup>??</sup>	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	6	0.26
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	6	0.26
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	6	0.26
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	1	0.26
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	1	0.26
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	1	0.26
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	1	0.26
(1,783)	1:A:3:DG:H4'	1:A:4:DG:H8	1	0.26
(1,783)	1:A:3:DG:H4'	1:B:4:DG:H8	1	0.26
(1,783)	1:B:3:DG:H4'	1:A:4:DG:H8	1	0.26
(1,783)	1:B:3:DG:H4'	1:B:4:DG:H8	1	0.26
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	1	0.26
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	1	0.26
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	1	0.26
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	1	0.26
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	2	0.26
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	2	0.26
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	2	0.26
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	2	0.26
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	5	0.26
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	5	0.26
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	5	0.26
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	5	0.26
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	8	0.26
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	8	0.26
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	8	0.26
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	8	0.26
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	9	0.26
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	9	0.26
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	9	0.26
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	9	0.26
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	10	0.26
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	10	0.26
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	10	0.26
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	10	0.26
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	3	0.26
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	3	0.26
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	3	0.26
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	3	0.26
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	3	0.26
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	3	0.26
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	3	0.26
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	10	0.26
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	10	0.26
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	10	0.26
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	10	0.26
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	1	0.26
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	1	0.26
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	1	0.26
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	1	0.26
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	8	0.26
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	8	0.26
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	8	0.26
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	8	0.26
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	9	0.26
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	9	0.26
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	9	0.26
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	9	0.26
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	1	0.26
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	1	0.26
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	1	0.26
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	1	0.26
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	2	0.26
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	2	0.26
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	2	0.26
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	2	0.26
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	7	0.26
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	7	0.26
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	7	0.26
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	7	0.26
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	6	0.26
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	6	0.26
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	6	0.26
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	6	0.26
(1,609)	1:A:16:DT:H1'	1:A:16:DT:H2''	8	0.26
(1,609)	1:A:16:DT:H1'	1:B:16:DT:H2''	8	0.26
(1,609)	1:B:16:DT:H1'	1:A:16:DT:H2''	8	0.26
(1,609)	1:B:16:DT:H1'	1:B:16:DT:H2''	8	0.26
(1,581)	1:A:14:DG:H1'	1:A:15:DG:H8	3	0.26
(1,581)	1:A:14:DG:H1'	1:B:15:DG:H8	3	0.26
(1,581)	1:B:14:DG:H1'	1:A:15:DG:H8	3	0.26
(1,581)	1:B:14:DG:H1'	1:B:15:DG:H8	3	0.26
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	1	0.26
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	1	0.26
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	1	0.26
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	5	0.26
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	5	0.26
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	5	0.26
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	5	0.26
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	10	0.26
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	10	0.26
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	10	0.26
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	10	0.26
(1,565)	1:A:13:DG:H2'	1:A:14:DG:H8	3	0.26
(1,565)	1:A:13:DG:H2'	1:B:14:DG:H8	3	0.26
(1,565)	1:B:13:DG:H2'	1:A:14:DG:H8	3	0.26
(1,565)	1:B:13:DG:H2'	1:B:14:DG:H8	3	0.26
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	10	0.26
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	10	0.26
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	10	0.26
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	10	0.26
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	8	0.26
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	8	0.26
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	8	0.26
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	8	0.26
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	6	0.26
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	6	0.26
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	6	0.26
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	6	0.26
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	1	0.26
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	1	0.26
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	1	0.26
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	1	0.26
(1,348)	1:A:3:DG:H4'	1:A:4:DG:H8	1	0.26
(1,348)	1:A:3:DG:H4'	1:B:4:DG:H8	1	0.26
(1,348)	1:B:3:DG:H4'	1:A:4:DG:H8	1	0.26
(1,348)	1:B:3:DG:H4'	1:B:4:DG:H8	1	0.26
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	1	0.26
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	1	0.26
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	1	0.26
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	1	0.26
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	2	0.26
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	2	0.26
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	2	0.26
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	5	0.26
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	5	0.26
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	5	0.26
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	5	0.26
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	8	0.26
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	8	0.26
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	8	0.26
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	8	0.26
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	9	0.26
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	9	0.26
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	9	0.26
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	9	0.26
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	10	0.26
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	10	0.26
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	10	0.26
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	10	0.26
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	3	0.26
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	3	0.26
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	3	0.26
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	3	0.26
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	3	0.26
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	3	0.26
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	3	0.26
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	3	0.26
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	10	0.26
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	10	0.26
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	10	0.26
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	10	0.26
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	1	0.26
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	1	0.26
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	1	0.26
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	1	0.26
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	8	0.26
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	8	0.26
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	8	0.26
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	8	0.26
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	9	0.26
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	9	0.26
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	9	0.26
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	9	0.26
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	1	0.26
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	1	0.26
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	1	0.26
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	2	0.26
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	2	0.26
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	2	0.26
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	2	0.26
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	7	0.26
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	7	0.26
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	7	0.26
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	7	0.26
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	6	0.26
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	6	0.26
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	6	0.26
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	6	0.26
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	1	0.26
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	1	0.26
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	1	0.26
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	1	0.26
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	2	0.26
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	2	0.26
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	2	0.26
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	2	0.26
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	4	0.26
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	4	0.26
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	4	0.26
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	4	0.26
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	10	0.26
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	10	0.26
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	10	0.26
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	10	0.26
(1,1186)	1:A:9:DG:N1	1:A:13:DG:O6	4	0.26
(1,1186)	1:A:9:DG:N1	1:B:13:DG:O6	4	0.26
(1,1186)	1:B:9:DG:N1	1:A:13:DG:O6	4	0.26
(1,1186)	1:B:9:DG:N1	1:B:13:DG:O6	4	0.26
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	1	0.26
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	1	0.26
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	1	0.26
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	1	0.26
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	9	0.26
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	9	0.26
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	9	0.26
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	10	0.26
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	10	0.26
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	10	0.26
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	10	0.26
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	4	0.26
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	4	0.26
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	4	0.26
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	4	0.26
(1,1182)	1:A:5:DG:N1	1:A:9:DG:O6	5	0.26
(1,1182)	1:A:5:DG:N1	1:B:9:DG:O6	5	0.26
(1,1182)	1:B:5:DG:N1	1:A:9:DG:O6	5	0.26
(1,1182)	1:B:5:DG:N1	1:B:9:DG:O6	5	0.26
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	1	0.26
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	1	0.26
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	1	0.26
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	1	0.26
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	2	0.26
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	2	0.26
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	2	0.26
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	2	0.26
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	9	0.26
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	9	0.26
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	9	0.26
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	9	0.26
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	10	0.26
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	10	0.26
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	10	0.26
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	10	0.26
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	1	0.26
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	1	0.26
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	1	0.26
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	1	0.26
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	2	0.26
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	2	0.26
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	2	0.26
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	2	0.26
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	4	0.26
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	4	0.26
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	4	0.26
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	4	0.26
(1,1176)	1:A:17:DG:N2	1:A:5:DG:N7	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1176)	1:A:17:DG:N2	1:B:5:DG:N7	8	0.26
(1,1176)	1:B:17:DG:N2	1:A:5:DG:N7	8	0.26
(1,1176)	1:B:17:DG:N2	1:B:5:DG:N7	8	0.26
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	5	0.26
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	5	0.26
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	5	0.26
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	5	0.26
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	4	0.26
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	4	0.26
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	4	0.26
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	4	0.26
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	5	0.26
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	5	0.26
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	5	0.26
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	5	0.26
(1,1170)	1:A:10:DG:N1	1:A:14:DG:O6	9	0.26
(1,1170)	1:A:10:DG:N1	1:B:14:DG:O6	9	0.26
(1,1170)	1:B:10:DG:N1	1:A:14:DG:O6	9	0.26
(1,1170)	1:B:10:DG:N1	1:B:14:DG:O6	9	0.26
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	3	0.26
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	3	0.26
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	3	0.26
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	3	0.26
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	5	0.26
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	5	0.26
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	5	0.26
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	5	0.26
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	1	0.26
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	1	0.26
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	1	0.26
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	1	0.26
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	2	0.26
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	2	0.26
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	2	0.26
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	2	0.26
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	9	0.26
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	9	0.26
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	9	0.26
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	9	0.26
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	4	0.26
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	4	0.26
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	4	0.26
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	6	0.26
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	6	0.26
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	6	0.26
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	6	0.26
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	7	0.26
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	7	0.26
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	7	0.26
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	7	0.26
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	10	0.26
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	10	0.26
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	10	0.26
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	10	0.26
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	3	0.26
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	3	0.26
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	3	0.26
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	3	0.26
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	5	0.26
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	5	0.26
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	5	0.26
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	5	0.26
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	6	0.26
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	6	0.26
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	6	0.26
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	6	0.26
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	9	0.26
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	9	0.26
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	9	0.26
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	9	0.26
(1,1148)	1:A:7:DG:N2	1:A:11:DG:N7	7	0.26
(1,1148)	1:A:7:DG:N2	1:B:11:DG:N7	7	0.26
(1,1148)	1:B:7:DG:N2	1:A:11:DG:N7	7	0.26
(1,1148)	1:B:7:DG:N2	1:B:11:DG:N7	7	0.26
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	3	0.26
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	3	0.26
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	3	0.26
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	3	0.26
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	4	0.26
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	4	0.26
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	4	0.26
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	4	0.26
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	8	0.26
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	8	0.26
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	8	0.26
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	1	0.26
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	1	0.26
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	1	0.26
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	1	0.26
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	1	0.26
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	1	0.26
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	1	0.26
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	1	0.26
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	2	0.26
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	2	0.26
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	2	0.26
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	2	0.26
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	4	0.26
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	4	0.26
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	4	0.26
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	4	0.26
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	10	0.26
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	10	0.26
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	10	0.26
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	10	0.26
(1,1138)	1:A:9:DG:N1	1:A:13:DG:O6	4	0.26
(1,1138)	1:A:9:DG:N1	1:B:13:DG:O6	4	0.26
(1,1138)	1:B:9:DG:N1	1:A:13:DG:O6	4	0.26
(1,1138)	1:B:9:DG:N1	1:B:13:DG:O6	4	0.26
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	1	0.26
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	1	0.26
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	1	0.26
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	1	0.26
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	9	0.26
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	9	0.26
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	9	0.26
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	9	0.26
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	10	0.26
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	10	0.26
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	10	0.26
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	10	0.26
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	4	0.26
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	4	0.26
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	4	0.26
(1,1134)	1:A:5:DG:N1	1:A:9:DG:O6	5	0.26
(1,1134)	1:A:5:DG:N1	1:B:9:DG:O6	5	0.26
(1,1134)	1:B:5:DG:N1	1:A:9:DG:O6	5	0.26
(1,1134)	1:B:5:DG:N1	1:B:9:DG:O6	5	0.26
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	1	0.26
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	1	0.26
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	1	0.26
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	1	0.26
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	2	0.26
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	2	0.26
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	2	0.26
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	2	0.26
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	9	0.26
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	9	0.26
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	9	0.26
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	9	0.26
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	10	0.26
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	10	0.26
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	10	0.26
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	10	0.26
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	1	0.26
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	1	0.26
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	1	0.26
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	1	0.26
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	2	0.26
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	2	0.26
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	2	0.26
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	2	0.26
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	4	0.26
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	4	0.26
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	4	0.26
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	4	0.26
(1,1128)	1:A:17:DG:N2	1:A:5:DG:N7	8	0.26
(1,1128)	1:A:17:DG:N2	1:B:5:DG:N7	8	0.26
(1,1128)	1:B:17:DG:N2	1:A:5:DG:N7	8	0.26
(1,1128)	1:B:17:DG:N2	1:B:5:DG:N7	8	0.26
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	5	0.26
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	5	0.26
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	5	0.26
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	5	0.26
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	4	0.26
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	4	0.26
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	4	0.26
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	5	0.26
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	5	0.26
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	5	0.26
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	5	0.26
(1,1122)	1:A:10:DG:N1	1:A:14:DG:O6	9	0.26
(1,1122)	1:A:10:DG:N1	1:B:14:DG:O6	9	0.26
(1,1122)	1:B:10:DG:N1	1:A:14:DG:O6	9	0.26
(1,1122)	1:B:10:DG:N1	1:B:14:DG:O6	9	0.26
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	3	0.26
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	3	0.26
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	3	0.26
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	3	0.26
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	5	0.26
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	5	0.26
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	5	0.26
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	5	0.26
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	1	0.26
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	1	0.26
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	1	0.26
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	1	0.26
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	2	0.26
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	2	0.26
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	2	0.26
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	2	0.26
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	9	0.26
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	9	0.26
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	9	0.26
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	9	0.26
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	4	0.26
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	4	0.26
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	4	0.26
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	4	0.26
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	6	0.26
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	6	0.26
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	6	0.26
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	6	0.26
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	7	0.26
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	7	0.26
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	7	0.26
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	10	0.26
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	10	0.26
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	10	0.26
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	10	0.26
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	3	0.26
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	3	0.26
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	3	0.26
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	3	0.26
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	5	0.26
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	5	0.26
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	5	0.26
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	5	0.26
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	6	0.26
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	6	0.26
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	6	0.26
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	6	0.26
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	9	0.26
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	9	0.26
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	9	0.26
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	9	0.26
(1,1100)	1:A:7:DG:N2	1:A:11:DG:N7	7	0.26
(1,1100)	1:A:7:DG:N2	1:B:11:DG:N7	7	0.26
(1,1100)	1:B:7:DG:N2	1:A:11:DG:N7	7	0.26
(1,1100)	1:B:7:DG:N2	1:B:11:DG:N7	7	0.26
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	3	0.26
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	3	0.26
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	3	0.26
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	3	0.26
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	4	0.26
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	4	0.26
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	4	0.26
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	4	0.26
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	8	0.26
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	8	0.26
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	8	0.26
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	8	0.26
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	1	0.26
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	1	0.26
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	1	0.26
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	1	0.26
(1,1044)	1:A:16:DT:H1'	1:A:16:DT:H2''	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1044)	1:A:16:DT:H1'	1:B:16:DT:H2''	8	0.26
(1,1044)	1:B:16:DT:H1'	1:A:16:DT:H2''	8	0.26
(1,1044)	1:B:16:DT:H1'	1:B:16:DT:H2''	8	0.26
(1,1016)	1:A:14:DG:H1'	1:A:15:DG:H8	3	0.26
(1,1016)	1:A:14:DG:H1'	1:B:15:DG:H8	3	0.26
(1,1016)	1:B:14:DG:H1'	1:A:15:DG:H8	3	0.26
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	3	0.26
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	1	0.26
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	1	0.26
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	1	0.26
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	1	0.26
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	5	0.26
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	5	0.26
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	5	0.26
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	5	0.26
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	10	0.26
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	10	0.26
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	10	0.26
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	10	0.26
(1,1000)	1:A:13:DG:H2'	1:A:14:DG:H8	3	0.26
(1,1000)	1:A:13:DG:H2'	1:B:14:DG:H8	3	0.26
(1,1000)	1:B:13:DG:H2'	1:A:14:DG:H8	3	0.26
(1,1000)	1:B:13:DG:H2'	1:B:14:DG:H8	3	0.26
(1,943)	1:A:11:DG:H1'	1:A:11:DG:H2''	7	0.25
(1,943)	1:A:11:DG:H1'	1:B:11:DG:H2''	7	0.25
(1,943)	1:B:11:DG:H1'	1:A:11:DG:H2''	7	0.25
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	7	0.25
(1,943)	1:A:11:DG:H1'	1:A:11:DG:H2''	8	0.25
(1,943)	1:A:11:DG:H1'	1:B:11:DG:H2''	8	0.25
(1,943)	1:B:11:DG:H1'	1:A:11:DG:H2''	8	0.25
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	8	0.25
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	4	0.25
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	4	0.25
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	4	0.25
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	4	0.25
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	5	0.25
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	5	0.25
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	5	0.25
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	5	0.25
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	7	0.25
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	7	0.25
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	7	0.25
(1,845)	1:A:5:DG:H8	1:A:6:DG:H8	1	0.25
(1,845)	1:A:5:DG:H8	1:B:6:DG:H8	1	0.25
(1,845)	1:B:5:DG:H8	1:A:6:DG:H8	1	0.25
(1,845)	1:B:5:DG:H8	1:B:6:DG:H8	1	0.25
(1,800)	1:A:4:DG:H1'	1:A:4:DG:H2''	10	0.25
(1,800)	1:A:4:DG:H1'	1:B:4:DG:H2''	10	0.25
(1,800)	1:B:4:DG:H1'	1:A:4:DG:H2''	10	0.25
(1,800)	1:B:4:DG:H1'	1:B:4:DG:H2''	10	0.25
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	1	0.25
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	1	0.25
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	1	0.25
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	1	0.25
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	6	0.25
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	6	0.25
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	6	0.25
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	6	0.25
(1,747)	1:A:2:DG:H4'	1:A:3:DG:H2'	1	0.25
(1,747)	1:A:2:DG:H4'	1:B:3:DG:H2'	1	0.25
(1,747)	1:B:2:DG:H4'	1:A:3:DG:H2'	1	0.25
(1,747)	1:B:2:DG:H4'	1:B:3:DG:H2'	1	0.25
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	7	0.25
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	7	0.25
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	7	0.25
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	7	0.25
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	2	0.25
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	2	0.25
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	2	0.25
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	2	0.25
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	3	0.25
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	3	0.25
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	3	0.25
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	3	0.25
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	8	0.25
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	8	0.25
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	8	0.25
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	8	0.25
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	9	0.25
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	9	0.25
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	9	0.25
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	9	0.25
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	9	0.25
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	9	0.25
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	9	0.25
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	10	0.25
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	10	0.25
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	10	0.25
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	10	0.25
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	3	0.25
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	3	0.25
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	3	0.25
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	3	0.25
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	9	0.25
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	9	0.25
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	9	0.25
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	9	0.25
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	10	0.25
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	10	0.25
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	10	0.25
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	10	0.25
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	10	0.25
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	10	0.25
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	10	0.25
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	10	0.25
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	5	0.25
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	5	0.25
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	5	0.25
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	5	0.25
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	8	0.25
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	8	0.25
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	8	0.25
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	8	0.25
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	9	0.25
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	9	0.25
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	9	0.25
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	9	0.25
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	4	0.25
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	4	0.25
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	4	0.25
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	4	0.25
(1,630)	1:A:16:DT:H4'	1:A:17:DG:H3'	4	0.25
(1,630)	1:A:16:DT:H4'	1:B:17:DG:H3'	4	0.25
(1,630)	1:B:16:DT:H4'	1:A:17:DG:H3'	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,630)	1:B:16:DT:H4'	1:B:17:DG:H3'	4	0.25
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5'	10	0.25
(1,603)	1:A:15:DG:H1'	1:A:16:DT:H5''	10	0.25
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5'	10	0.25
(1,603)	1:A:15:DG:H1'	1:B:16:DT:H5''	10	0.25
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5'	10	0.25
(1,603)	1:B:15:DG:H1'	1:A:16:DT:H5''	10	0.25
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5'	10	0.25
(1,603)	1:B:15:DG:H1'	1:B:16:DT:H5''	10	0.25
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	2	0.25
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	2	0.25
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	2	0.25
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	2	0.25
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	7	0.25
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	7	0.25
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	7	0.25
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	7	0.25
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	9	0.25
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	9	0.25
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	9	0.25
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	9	0.25
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	7	0.25
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	7	0.25
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	7	0.25
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	7	0.25
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	8	0.25
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	8	0.25
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	8	0.25
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	8	0.25
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	4	0.25
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	4	0.25
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	4	0.25
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	4	0.25
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	5	0.25
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	5	0.25
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	5	0.25
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	5	0.25
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	7	0.25
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	7	0.25
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	7	0.25
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	7	0.25
(1,410)	1:A:5:DG:H8	1:A:6:DG:H8	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,410)	1:A:5:DG:H8	1:B:6:DG:H8	1	0.25
(1,410)	1:B:5:DG:H8	1:A:6:DG:H8	1	0.25
(1,410)	1:B:5:DG:H8	1:B:6:DG:H8	1	0.25
(1,365)	1:A:4:DG:H1'	1:A:4:DG:H2''	10	0.25
(1,365)	1:A:4:DG:H1'	1:B:4:DG:H2''	10	0.25
(1,365)	1:B:4:DG:H1'	1:A:4:DG:H2''	10	0.25
(1,365)	1:B:4:DG:H1'	1:B:4:DG:H2''	10	0.25
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	1	0.25
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	1	0.25
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	1	0.25
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	1	0.25
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	6	0.25
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	6	0.25
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	6	0.25
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	6	0.25
(1,312)	1:A:2:DG:H4'	1:A:3:DG:H2'	1	0.25
(1,312)	1:A:2:DG:H4'	1:B:3:DG:H2'	1	0.25
(1,312)	1:B:2:DG:H4'	1:A:3:DG:H2'	1	0.25
(1,312)	1:B:2:DG:H4'	1:B:3:DG:H2'	1	0.25
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	7	0.25
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	7	0.25
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	7	0.25
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	7	0.25
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	2	0.25
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	2	0.25
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	2	0.25
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	2	0.25
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	3	0.25
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	3	0.25
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	3	0.25
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	3	0.25
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	8	0.25
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	8	0.25
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	8	0.25
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	8	0.25
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	9	0.25
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	9	0.25
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	9	0.25
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	9	0.25
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	9	0.25
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	9	0.25
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	9	0.25
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	10	0.25
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	10	0.25
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	10	0.25
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	10	0.25
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	3	0.25
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	3	0.25
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	3	0.25
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	3	0.25
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	9	0.25
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	9	0.25
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	9	0.25
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	9	0.25
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	10	0.25
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	10	0.25
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	10	0.25
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	10	0.25
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	10	0.25
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	10	0.25
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	10	0.25
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	10	0.25
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	5	0.25
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	5	0.25
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	5	0.25
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	5	0.25
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	8	0.25
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	8	0.25
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	8	0.25
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	8	0.25
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	9	0.25
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	9	0.25
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	9	0.25
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	9	0.25
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	5	0.25
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	5	0.25
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	5	0.25
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	5	0.25
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	7	0.25
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	7	0.25
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	7	0.25
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	7	0.25
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	9	0.25
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	9	0.25
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	9	0.25
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	3	0.25
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	3	0.25
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	3	0.25
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	3	0.25
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	2	0.25
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	2	0.25
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	2	0.25
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	2	0.25
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	6	0.25
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	6	0.25
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	6	0.25
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	6	0.25
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	8	0.25
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	8	0.25
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	8	0.25
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	8	0.25
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	5	0.25
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	5	0.25
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	5	0.25
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	5	0.25
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	7	0.25
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	7	0.25
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	7	0.25
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	7	0.25
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	1	0.25
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	1	0.25
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	1	0.25
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	1	0.25
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	3	0.25
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	3	0.25
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	3	0.25
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	3	0.25
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	6	0.25
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	6	0.25
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	6	0.25
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	6	0.25
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	9	0.25
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	9	0.25
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	9	0.25
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	10	0.25
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	10	0.25
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	10	0.25
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	10	0.25
(1,1174)	1:A:14:DG:N1	1:A:18:DG:O6	5	0.25
(1,1174)	1:A:14:DG:N1	1:B:18:DG:O6	5	0.25
(1,1174)	1:B:14:DG:N1	1:A:18:DG:O6	5	0.25
(1,1174)	1:B:14:DG:N1	1:B:18:DG:O6	5	0.25
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	1	0.25
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	1	0.25
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	1	0.25
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	1	0.25
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	4	0.25
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	4	0.25
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	4	0.25
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	4	0.25
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	9	0.25
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	9	0.25
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	9	0.25
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	9	0.25
(1,1168)	1:A:10:DG:N2	1:A:14:DG:N7	7	0.25
(1,1168)	1:A:10:DG:N2	1:B:14:DG:N7	7	0.25
(1,1168)	1:B:10:DG:N2	1:A:14:DG:N7	7	0.25
(1,1168)	1:B:10:DG:N2	1:B:14:DG:N7	7	0.25
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	8	0.25
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	8	0.25
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	8	0.25
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	8	0.25
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	10	0.25
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	10	0.25
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	10	0.25
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	10	0.25
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	7	0.25
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	7	0.25
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	7	0.25
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	7	0.25
(1,1162)	1:A:18:DG:N1	1:A:6:DG:O6	6	0.25
(1,1162)	1:A:18:DG:N1	1:B:6:DG:O6	6	0.25
(1,1162)	1:B:18:DG:N1	1:A:6:DG:O6	6	0.25
(1,1162)	1:B:18:DG:N1	1:B:6:DG:O6	6	0.25
(1,1160)	1:A:18:DG:N2	1:A:6:DG:N7	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1160)	1:A:18:DG:N2	1:B:6:DG:N7	5	0.25
(1,1160)	1:B:18:DG:N2	1:A:6:DG:N7	5	0.25
(1,1160)	1:B:18:DG:N2	1:B:6:DG:N7	5	0.25
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	1	0.25
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	1	0.25
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	1	0.25
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	1	0.25
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	1	0.25
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	1	0.25
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	1	0.25
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	1	0.25
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	2	0.25
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	2	0.25
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	2	0.25
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	2	0.25
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	8	0.25
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	8	0.25
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	8	0.25
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	8	0.25
(1,1152)	1:A:11:DG:N2	1:A:15:DG:N7	10	0.25
(1,1152)	1:A:11:DG:N2	1:B:15:DG:N7	10	0.25
(1,1152)	1:B:11:DG:N2	1:A:15:DG:N7	10	0.25
(1,1152)	1:B:11:DG:N2	1:B:15:DG:N7	10	0.25
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	4	0.25
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	4	0.25
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	4	0.25
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	4	0.25
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	7	0.25
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	7	0.25
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	7	0.25
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	7	0.25
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	6	0.25
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	6	0.25
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	6	0.25
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	6	0.25
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	5	0.25
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	5	0.25
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	5	0.25
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	5	0.25
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	7	0.25
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	7	0.25
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	7	0.25
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	9	0.25
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	9	0.25
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	9	0.25
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	9	0.25
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	3	0.25
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	3	0.25
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	3	0.25
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	3	0.25
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	2	0.25
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	2	0.25
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	2	0.25
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	2	0.25
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	6	0.25
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	6	0.25
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	6	0.25
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	6	0.25
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	8	0.25
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	8	0.25
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	8	0.25
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	8	0.25
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	5	0.25
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	5	0.25
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	5	0.25
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	5	0.25
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	7	0.25
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	7	0.25
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	7	0.25
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	7	0.25
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	1	0.25
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	1	0.25
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	1	0.25
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	1	0.25
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	3	0.25
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	3	0.25
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	3	0.25
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	3	0.25
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	6	0.25
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	6	0.25
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	6	0.25
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	6	0.25
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	9	0.25
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	9	0.25
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	9	0.25
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	10	0.25
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	10	0.25
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	10	0.25
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	10	0.25
(1,1126)	1:A:14:DG:N1	1:A:18:DG:O6	5	0.25
(1,1126)	1:A:14:DG:N1	1:B:18:DG:O6	5	0.25
(1,1126)	1:B:14:DG:N1	1:A:18:DG:O6	5	0.25
(1,1126)	1:B:14:DG:N1	1:B:18:DG:O6	5	0.25
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	1	0.25
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	1	0.25
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	1	0.25
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	1	0.25
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	4	0.25
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	4	0.25
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	4	0.25
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	4	0.25
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	9	0.25
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	9	0.25
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	9	0.25
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	9	0.25
(1,1120)	1:A:10:DG:N2	1:A:14:DG:N7	7	0.25
(1,1120)	1:A:10:DG:N2	1:B:14:DG:N7	7	0.25
(1,1120)	1:B:10:DG:N2	1:A:14:DG:N7	7	0.25
(1,1120)	1:B:10:DG:N2	1:B:14:DG:N7	7	0.25
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	8	0.25
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	8	0.25
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	8	0.25
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	8	0.25
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	10	0.25
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	10	0.25
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	10	0.25
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	10	0.25
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	7	0.25
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	7	0.25
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	7	0.25
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	7	0.25
(1,1114)	1:A:18:DG:N1	1:A:6:DG:O6	6	0.25
(1,1114)	1:A:18:DG:N1	1:B:6:DG:O6	6	0.25
(1,1114)	1:B:18:DG:N1	1:A:6:DG:O6	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1114)	1:B:18:DG:N1	1:B:6:DG:O6	6	0.25
(1,1112)	1:A:18:DG:N2	1:A:6:DG:N7	5	0.25
(1,1112)	1:A:18:DG:N2	1:B:6:DG:N7	5	0.25
(1,1112)	1:B:18:DG:N2	1:A:6:DG:N7	5	0.25
(1,1112)	1:B:18:DG:N2	1:B:6:DG:N7	5	0.25
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	1	0.25
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	1	0.25
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	1	0.25
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	1	0.25
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	1	0.25
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	1	0.25
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	1	0.25
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	1	0.25
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	2	0.25
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	2	0.25
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	2	0.25
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	2	0.25
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	8	0.25
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	8	0.25
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	8	0.25
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	8	0.25
(1,1104)	1:A:11:DG:N2	1:A:15:DG:N7	10	0.25
(1,1104)	1:A:11:DG:N2	1:B:15:DG:N7	10	0.25
(1,1104)	1:B:11:DG:N2	1:A:15:DG:N7	10	0.25
(1,1104)	1:B:11:DG:N2	1:B:15:DG:N7	10	0.25
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	4	0.25
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	4	0.25
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	4	0.25
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	4	0.25
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	7	0.25
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	7	0.25
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	7	0.25
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	7	0.25
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	6	0.25
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	6	0.25
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	6	0.25
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	6	0.25
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	4	0.25
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	4	0.25
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	4	0.25
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	4	0.25
(1,1065)	1:A:16:DT:H4 <sup>'</sup>	1:A:17:DG:H3 <sup>'</sup>	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:A:16:DT:H4'	1:B:17:DG:H3'	4	0.25
(1,1065)	1:B:16:DT:H4'	1:A:17:DG:H3'	4	0.25
(1,1065)	1:B:16:DT:H4'	1:B:17:DG:H3'	4	0.25
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5'	10	0.25
(1,1038)	1:A:15:DG:H1'	1:A:16:DT:H5''	10	0.25
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5'	10	0.25
(1,1038)	1:A:15:DG:H1'	1:B:16:DT:H5''	10	0.25
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5'	10	0.25
(1,1038)	1:B:15:DG:H1'	1:A:16:DT:H5''	10	0.25
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5'	10	0.25
(1,1038)	1:B:15:DG:H1'	1:B:16:DT:H5''	10	0.25
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	2	0.25
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	2	0.25
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	2	0.25
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	2	0.25
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	7	0.25
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	7	0.25
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	7	0.25
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	7	0.25
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	9	0.25
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	9	0.25
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	9	0.25
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	9	0.25
(1,943)	1:A:11:DG:H1'	1:A:11:DG:H2''	1	0.24
(1,943)	1:A:11:DG:H1'	1:B:11:DG:H2''	1	0.24
(1,943)	1:B:11:DG:H1'	1:A:11:DG:H2''	1	0.24
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	1	0.24
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	5	0.24
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	5	0.24
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	5	0.24
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	5	0.24
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	1	0.24
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	1	0.24
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	1	0.24
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	1	0.24
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	2	0.24
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	2	0.24
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	2	0.24
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	2	0.24
(1,816)	1:A:4:DG:H2'	1:A:4:DG:H8	3	0.24
(1,816)	1:A:4:DG:H2'	1:B:4:DG:H8	3	0.24
(1,816)	1:B:4:DG:H2'	1:A:4:DG:H8	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,816)	1:B:4:DG:H2'	1:B:4:DG:H8	3	0.24
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	2	0.24
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	2	0.24
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	2	0.24
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	2	0.24
(1,786)	1:A:3:DG:H1'	1:A:4:DG:H3'	2	0.24
(1,786)	1:A:3:DG:H1'	1:B:4:DG:H3'	2	0.24
(1,786)	1:B:3:DG:H1'	1:A:4:DG:H3'	2	0.24
(1,786)	1:B:3:DG:H1'	1:B:4:DG:H3'	2	0.24
(1,758)	1:A:3:DG:H1'	1:A:3:DG:H2''	4	0.24
(1,758)	1:A:3:DG:H1'	1:B:3:DG:H2''	4	0.24
(1,758)	1:B:3:DG:H1'	1:A:3:DG:H2''	4	0.24
(1,758)	1:B:3:DG:H1'	1:B:3:DG:H2''	4	0.24
(1,746)	1:A:2:DG:H5''	1:A:3:DG:H5'	3	0.24
(1,746)	1:A:2:DG:H5''	1:B:3:DG:H5'	3	0.24
(1,746)	1:B:2:DG:H5''	1:A:3:DG:H5'	3	0.24
(1,746)	1:B:2:DG:H5''	1:B:3:DG:H5'	3	0.24
(1,746)	1:A:2:DG:H5''	1:A:3:DG:H5'	9	0.24
(1,746)	1:A:2:DG:H5''	1:B:3:DG:H5'	9	0.24
(1,746)	1:B:2:DG:H5''	1:A:3:DG:H5'	9	0.24
(1,746)	1:B:2:DG:H5''	1:B:3:DG:H5'	9	0.24
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	10	0.24
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	10	0.24
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	10	0.24
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	10	0.24
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	8	0.24
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	8	0.24
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	8	0.24
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	8	0.24
(1,713)	1:A:2:DG:H1'	1:A:2:DG:H4'	5	0.24
(1,713)	1:A:2:DG:H1'	1:B:2:DG:H4'	5	0.24
(1,713)	1:B:2:DG:H1'	1:A:2:DG:H4'	5	0.24
(1,713)	1:B:2:DG:H1'	1:B:2:DG:H4'	5	0.24
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	3	0.24
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	3	0.24
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	3	0.24
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	3	0.24
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	5	0.24
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	5	0.24
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	5	0.24
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	5	0.24
(1,672)	1:A:1:DA:H3'	1:A:1:DA:H5''	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,672)	1:A:1:DA:H3'	1:B:1:DA:H5''	6	0.24
(1,672)	1:B:1:DA:H3'	1:A:1:DA:H5''	6	0.24
(1,672)	1:B:1:DA:H3'	1:B:1:DA:H5''	6	0.24
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	3	0.24
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	3	0.24
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	3	0.24
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	3	0.24
(1,664)	1:A:1:DA:H3'	1:A:1:DA:H4'	10	0.24
(1,664)	1:A:1:DA:H3'	1:B:1:DA:H4'	10	0.24
(1,664)	1:B:1:DA:H3'	1:A:1:DA:H4'	10	0.24
(1,664)	1:B:1:DA:H3'	1:B:1:DA:H4'	10	0.24
(1,661)	1:A:1:DA:H1'	1:A:1:DA:H2''	7	0.24
(1,661)	1:A:1:DA:H1'	1:B:1:DA:H2''	7	0.24
(1,661)	1:B:1:DA:H1'	1:A:1:DA:H2''	7	0.24
(1,661)	1:B:1:DA:H1'	1:B:1:DA:H2''	7	0.24
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	1	0.24
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	1	0.24
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	1	0.24
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	1	0.24
(1,639)	1:A:17:DG:H1'	1:A:17:DG:H4'	9	0.24
(1,639)	1:A:17:DG:H1'	1:B:17:DG:H4'	9	0.24
(1,639)	1:B:17:DG:H1'	1:A:17:DG:H4'	9	0.24
(1,639)	1:B:17:DG:H1'	1:B:17:DG:H4'	9	0.24
(1,588)	1:A:15:DG:H1'	1:A:15:DG:H4'	10	0.24
(1,588)	1:A:15:DG:H1'	1:B:15:DG:H4'	10	0.24
(1,588)	1:B:15:DG:H1'	1:A:15:DG:H4'	10	0.24
(1,588)	1:B:15:DG:H1'	1:B:15:DG:H4'	10	0.24
(1,581)	1:A:14:DG:H1'	1:A:15:DG:H8	8	0.24
(1,581)	1:A:14:DG:H1'	1:B:15:DG:H8	8	0.24
(1,581)	1:B:14:DG:H1'	1:A:15:DG:H8	8	0.24
(1,581)	1:B:14:DG:H1'	1:B:15:DG:H8	8	0.24
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	3	0.24
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	3	0.24
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	3	0.24
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	3	0.24
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	4	0.24
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	4	0.24
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	4	0.24
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	4	0.24
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	6	0.24
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	6	0.24
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	6	0.24
(1,571)	1:A:14:DG:H2'	1:A:14:DG:H3'	8	0.24
(1,571)	1:A:14:DG:H2'	1:B:14:DG:H3'	8	0.24
(1,571)	1:B:14:DG:H2'	1:A:14:DG:H3'	8	0.24
(1,571)	1:B:14:DG:H2'	1:B:14:DG:H3'	8	0.24
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	1	0.24
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	1	0.24
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	1	0.24
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	1	0.24
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	5	0.24
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	5	0.24
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	5	0.24
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	5	0.24
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	1	0.24
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	1	0.24
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	1	0.24
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	1	0.24
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	2	0.24
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	2	0.24
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	2	0.24
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	2	0.24
(1,381)	1:A:4:DG:H2'	1:A:4:DG:H8	3	0.24
(1,381)	1:A:4:DG:H2'	1:B:4:DG:H8	3	0.24
(1,381)	1:B:4:DG:H2'	1:A:4:DG:H8	3	0.24
(1,381)	1:B:4:DG:H2'	1:B:4:DG:H8	3	0.24
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	2	0.24
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	2	0.24
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	2	0.24
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	2	0.24
(1,351)	1:A:3:DG:H1'	1:A:4:DG:H3'	2	0.24
(1,351)	1:A:3:DG:H1'	1:B:4:DG:H3'	2	0.24
(1,351)	1:B:3:DG:H1'	1:A:4:DG:H3'	2	0.24
(1,351)	1:B:3:DG:H1'	1:B:4:DG:H3'	2	0.24
(1,323)	1:A:3:DG:H1'	1:A:3:DG:H2''	4	0.24
(1,323)	1:A:3:DG:H1'	1:B:3:DG:H2''	4	0.24
(1,323)	1:B:3:DG:H1'	1:A:3:DG:H2''	4	0.24
(1,323)	1:B:3:DG:H1'	1:B:3:DG:H2''	4	0.24
(1,311)	1:A:2:DG:H5''	1:A:3:DG:H5'	3	0.24
(1,311)	1:A:2:DG:H5''	1:B:3:DG:H5'	3	0.24
(1,311)	1:B:2:DG:H5''	1:A:3:DG:H5'	3	0.24
(1,311)	1:B:2:DG:H5''	1:B:3:DG:H5'	3	0.24
(1,311)	1:A:2:DG:H5''	1:A:3:DG:H5'	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:A:2:DG:H5''	1:B:3:DG:H5'	9	0.24
(1,311)	1:B:2:DG:H5''	1:A:3:DG:H5'	9	0.24
(1,311)	1:B:2:DG:H5''	1:B:3:DG:H5'	9	0.24
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	10	0.24
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	10	0.24
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	10	0.24
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	10	0.24
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	8	0.24
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	8	0.24
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	8	0.24
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	8	0.24
(1,278)	1:A:2:DG:H1'	1:A:2:DG:H4'	5	0.24
(1,278)	1:A:2:DG:H1'	1:B:2:DG:H4'	5	0.24
(1,278)	1:B:2:DG:H1'	1:A:2:DG:H4'	5	0.24
(1,278)	1:B:2:DG:H1'	1:B:2:DG:H4'	5	0.24
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	3	0.24
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	3	0.24
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	3	0.24
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	3	0.24
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	5	0.24
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	5	0.24
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	5	0.24
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	5	0.24
(1,237)	1:A:1:DA:H3'	1:A:1:DA:H5''	6	0.24
(1,237)	1:A:1:DA:H3'	1:B:1:DA:H5''	6	0.24
(1,237)	1:B:1:DA:H3'	1:A:1:DA:H5''	6	0.24
(1,237)	1:B:1:DA:H3'	1:B:1:DA:H5''	6	0.24
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	3	0.24
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	3	0.24
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	3	0.24
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	3	0.24
(1,229)	1:A:1:DA:H3'	1:A:1:DA:H4'	10	0.24
(1,229)	1:A:1:DA:H3'	1:B:1:DA:H4'	10	0.24
(1,229)	1:B:1:DA:H3'	1:A:1:DA:H4'	10	0.24
(1,229)	1:B:1:DA:H3'	1:B:1:DA:H4'	10	0.24
(1,226)	1:A:1:DA:H1'	1:A:1:DA:H2''	7	0.24
(1,226)	1:A:1:DA:H1'	1:B:1:DA:H2''	7	0.24
(1,226)	1:B:1:DA:H1'	1:A:1:DA:H2''	7	0.24
(1,226)	1:B:1:DA:H1'	1:B:1:DA:H2''	7	0.24
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	3	0.24
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	3	0.24
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	3	0.24
(1,1188)	1:A:13:DG:N2	1:A:17:DG:N7	8	0.24
(1,1188)	1:A:13:DG:N2	1:B:17:DG:N7	8	0.24
(1,1188)	1:B:13:DG:N2	1:A:17:DG:N7	8	0.24
(1,1188)	1:B:13:DG:N2	1:B:17:DG:N7	8	0.24
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	1	0.24
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	1	0.24
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	1	0.24
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	1	0.24
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	5	0.24
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	5	0.24
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	5	0.24
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	5	0.24
(1,1184)	1:A:9:DG:N2	1:A:13:DG:N7	7	0.24
(1,1184)	1:A:9:DG:N2	1:B:13:DG:N7	7	0.24
(1,1184)	1:B:9:DG:N2	1:A:13:DG:N7	7	0.24
(1,1184)	1:B:9:DG:N2	1:B:13:DG:N7	7	0.24
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	1	0.24
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	1	0.24
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	1	0.24
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	1	0.24
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	3	0.24
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	3	0.24
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	3	0.24
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	3	0.24
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	6	0.24
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	6	0.24
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	6	0.24
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	6	0.24
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	2	0.24
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	2	0.24
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	2	0.24
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	2	0.24
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	2	0.24
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	2	0.24
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	2	0.24
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	2	0.24
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	4	0.24
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	4	0.24
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	4	0.24
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	4	0.24
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	2	0.24
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	2	0.24
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	2	0.24
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	3	0.24
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	3	0.24
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	3	0.24
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	3	0.24
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	7	0.24
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	7	0.24
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	7	0.24
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	7	0.24
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	8	0.24
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	8	0.24
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	8	0.24
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	8	0.24
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	10	0.24
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	10	0.24
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	10	0.24
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	10	0.24
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	2	0.24
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	2	0.24
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	2	0.24
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	2	0.24
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	8	0.24
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	8	0.24
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	8	0.24
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	8	0.24
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	3	0.24
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	3	0.24
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	3	0.24
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	3	0.24
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	3	0.24
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	3	0.24
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	3	0.24
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	3	0.24
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	9	0.24
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	9	0.24
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	9	0.24
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	9	0.24
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	3	0.24
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	3	0.24
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	3	0.24
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	2	0.24
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	2	0.24
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	2	0.24
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	2	0.24
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	9	0.24
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	9	0.24
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	9	0.24
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	9	0.24
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	10	0.24
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	10	0.24
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	10	0.24
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	10	0.24
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	1	0.24
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	1	0.24
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	1	0.24
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	1	0.24
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	2	0.24
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	2	0.24
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	2	0.24
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	2	0.24
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	6	0.24
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	6	0.24
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	6	0.24
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	6	0.24
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	7	0.24
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	7	0.24
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	7	0.24
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	7	0.24
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	9	0.24
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	9	0.24
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	9	0.24
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	9	0.24
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	10	0.24
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	10	0.24
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	10	0.24
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	10	0.24
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	4	0.24
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	4	0.24
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	4	0.24
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	4	0.24
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	7	0.24
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	7	0.24
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	7	0.24
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	8	0.24
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	8	0.24
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	8	0.24
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	8	0.24
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	3	0.24
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	3	0.24
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	3	0.24
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	3	0.24
(1,1140)	1:A:13:DG:N2	1:A:17:DG:N7	8	0.24
(1,1140)	1:A:13:DG:N2	1:B:17:DG:N7	8	0.24
(1,1140)	1:B:13:DG:N2	1:A:17:DG:N7	8	0.24
(1,1140)	1:B:13:DG:N2	1:B:17:DG:N7	8	0.24
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	1	0.24
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	1	0.24
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	1	0.24
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	1	0.24
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	5	0.24
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	5	0.24
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	5	0.24
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	5	0.24
(1,1136)	1:A:9:DG:N2	1:A:13:DG:N7	7	0.24
(1,1136)	1:A:9:DG:N2	1:B:13:DG:N7	7	0.24
(1,1136)	1:B:9:DG:N2	1:A:13:DG:N7	7	0.24
(1,1136)	1:B:9:DG:N2	1:B:13:DG:N7	7	0.24
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	1	0.24
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	1	0.24
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	1	0.24
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	1	0.24
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	3	0.24
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	3	0.24
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	3	0.24
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	3	0.24
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	6	0.24
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	6	0.24
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	6	0.24
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	6	0.24
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	2	0.24
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	2	0.24
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	2	0.24
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	2	0.24
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	2	0.24
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	2	0.24
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	2	0.24
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	4	0.24
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	4	0.24
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	4	0.24
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	4	0.24
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	2	0.24
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	2	0.24
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	2	0.24
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	2	0.24
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	3	0.24
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	3	0.24
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	3	0.24
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	3	0.24
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	7	0.24
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	7	0.24
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	7	0.24
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	7	0.24
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	8	0.24
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	8	0.24
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	8	0.24
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	8	0.24
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	10	0.24
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	10	0.24
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	10	0.24
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	10	0.24
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	2	0.24
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	2	0.24
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	2	0.24
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	2	0.24
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	8	0.24
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	8	0.24
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	8	0.24
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	8	0.24
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	3	0.24
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	3	0.24
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	3	0.24
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	3	0.24
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	3	0.24
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	3	0.24
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	3	0.24
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	9	0.24
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	9	0.24
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	9	0.24
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	9	0.24
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	3	0.24
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	3	0.24
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	3	0.24
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	3	0.24
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	2	0.24
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	2	0.24
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	2	0.24
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	2	0.24
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	9	0.24
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	9	0.24
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	9	0.24
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	9	0.24
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	10	0.24
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	10	0.24
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	10	0.24
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	10	0.24
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	1	0.24
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	1	0.24
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	1	0.24
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	1	0.24
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	2	0.24
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	2	0.24
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	2	0.24
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	2	0.24
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	6	0.24
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	6	0.24
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	6	0.24
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	6	0.24
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	7	0.24
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	7	0.24
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	7	0.24
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	7	0.24
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	9	0.24
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	9	0.24
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	9	0.24
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	10	0.24
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	10	0.24
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	10	0.24
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	10	0.24
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	4	0.24
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	4	0.24
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	4	0.24
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	4	0.24
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	7	0.24
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	7	0.24
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	7	0.24
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	7	0.24
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	8	0.24
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	8	0.24
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	8	0.24
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	8	0.24
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	1	0.24
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	1	0.24
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	1	0.24
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	1	0.24
(1,1074)	1:A:17:DG:H1 <sup>?</sup>	1:A:17:DG:H4 <sup>?</sup>	9	0.24
(1,1074)	1:A:17:DG:H1 <sup>?</sup>	1:B:17:DG:H4 <sup>?</sup>	9	0.24
(1,1074)	1:B:17:DG:H1 <sup>?</sup>	1:A:17:DG:H4 <sup>?</sup>	9	0.24
(1,1074)	1:B:17:DG:H1 <sup>?</sup>	1:B:17:DG:H4 <sup>?</sup>	9	0.24
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	10	0.24
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	10	0.24
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	10	0.24
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	10	0.24
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	8	0.24
(1,1016)	1:A:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	8	0.24
(1,1016)	1:B:14:DG:H1 <sup>?</sup>	1:A:15:DG:H8	8	0.24
(1,1016)	1:B:14:DG:H1 <sup>?</sup>	1:B:15:DG:H8	8	0.24
(1,1006)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H3 <sup>?</sup>	3	0.24
(1,1006)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H3 <sup>?</sup>	3	0.24
(1,1006)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H3 <sup>?</sup>	3	0.24
(1,1006)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H3 <sup>?</sup>	3	0.24
(1,1006)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H3 <sup>?</sup>	4	0.24
(1,1006)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H3 <sup>?</sup>	4	0.24
(1,1006)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H3 <sup>?</sup>	4	0.24
(1,1006)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H3 <sup>?</sup>	4	0.24
(1,1006)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H3 <sup>?</sup>	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	6	0.24
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	6	0.24
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	6	0.24
(1,1006)	1:A:14:DG:H2'	1:A:14:DG:H3'	8	0.24
(1,1006)	1:A:14:DG:H2'	1:B:14:DG:H3'	8	0.24
(1,1006)	1:B:14:DG:H2'	1:A:14:DG:H3'	8	0.24
(1,1006)	1:B:14:DG:H2'	1:B:14:DG:H3'	8	0.24
(1,970)	1:A:12:DA:H1'	1:A:12:DA:H4'	1	0.23
(1,970)	1:A:12:DA:H1'	1:B:12:DA:H4'	1	0.23
(1,970)	1:B:12:DA:H1'	1:A:12:DA:H4'	1	0.23
(1,970)	1:B:12:DA:H1'	1:B:12:DA:H4'	1	0.23
(1,961)	1:A:11:DG:H4'	1:A:12:DA:H3'	10	0.23
(1,961)	1:A:11:DG:H4'	1:B:12:DA:H3'	10	0.23
(1,961)	1:B:11:DG:H4'	1:A:12:DA:H3'	10	0.23
(1,961)	1:B:11:DG:H4'	1:B:12:DA:H3'	10	0.23
(1,942)	1:A:11:DG:H1'	1:A:11:DG:H4'	6	0.23
(1,942)	1:A:11:DG:H1'	1:B:11:DG:H4'	6	0.23
(1,942)	1:B:11:DG:H1'	1:A:11:DG:H4'	6	0.23
(1,942)	1:B:11:DG:H1'	1:B:11:DG:H4'	6	0.23
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	4	0.23
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	4	0.23
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	4	0.23
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	4	0.23
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	9	0.23
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	9	0.23
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	9	0.23
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	9	0.23
(1,786)	1:A:3:DG:H1'	1:A:4:DG:H3'	3	0.23
(1,786)	1:A:3:DG:H1'	1:B:4:DG:H3'	3	0.23
(1,786)	1:B:3:DG:H1'	1:A:4:DG:H3'	3	0.23
(1,786)	1:B:3:DG:H1'	1:B:4:DG:H3'	3	0.23
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	5	0.23
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	5	0.23
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	5	0.23
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	5	0.23
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	4	0.23
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	4	0.23
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	4	0.23
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	4	0.23
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	8	0.23
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	8	0.23
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	8	0.23
(1,669)	1:A:1:DA:H2	1:A:1:DA:H5'	6	0.23
(1,669)	1:A:1:DA:H2	1:B:1:DA:H5'	6	0.23
(1,669)	1:B:1:DA:H2	1:A:1:DA:H5'	6	0.23
(1,669)	1:B:1:DA:H2	1:B:1:DA:H5'	6	0.23
(1,601)	1:A:15:DG:H2'	1:A:15:DG:H8	3	0.23
(1,601)	1:A:15:DG:H2'	1:B:15:DG:H8	3	0.23
(1,601)	1:B:15:DG:H2'	1:A:15:DG:H8	3	0.23
(1,601)	1:B:15:DG:H2'	1:B:15:DG:H8	3	0.23
(1,565)	1:A:13:DG:H2'	1:A:14:DG:H8	2	0.23
(1,565)	1:A:13:DG:H2'	1:B:14:DG:H8	2	0.23
(1,565)	1:B:13:DG:H2'	1:A:14:DG:H8	2	0.23
(1,565)	1:B:13:DG:H2'	1:B:14:DG:H8	2	0.23
(1,535)	1:A:12:DA:H1'	1:A:12:DA:H4'	1	0.23
(1,535)	1:A:12:DA:H1'	1:B:12:DA:H4'	1	0.23
(1,535)	1:B:12:DA:H1'	1:A:12:DA:H4'	1	0.23
(1,535)	1:B:12:DA:H1'	1:B:12:DA:H4'	1	0.23
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	10	0.23
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	10	0.23
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	10	0.23
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	10	0.23
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	6	0.23
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	6	0.23
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	6	0.23
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	6	0.23
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	4	0.23
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	4	0.23
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	4	0.23
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	4	0.23
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	9	0.23
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	9	0.23
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	9	0.23
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	9	0.23
(1,351)	1:A:3:DG:H1'	1:A:4:DG:H3'	3	0.23
(1,351)	1:A:3:DG:H1'	1:B:4:DG:H3'	3	0.23
(1,351)	1:B:3:DG:H1'	1:A:4:DG:H3'	3	0.23
(1,351)	1:B:3:DG:H1'	1:B:4:DG:H3'	3	0.23
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	5	0.23
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	5	0.23
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	5	0.23
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	5	0.23
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	4	0.23
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	4	0.23
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	4	0.23
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	8	0.23
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	8	0.23
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	8	0.23
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	8	0.23
(1,234)	1:A:1:DA:H2	1:A:1:DA:H5'	6	0.23
(1,234)	1:A:1:DA:H2	1:B:1:DA:H5'	6	0.23
(1,234)	1:B:1:DA:H2	1:A:1:DA:H5'	6	0.23
(1,234)	1:B:1:DA:H2	1:B:1:DA:H5'	6	0.23
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	2	0.23
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	2	0.23
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	2	0.23
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	2	0.23
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	4	0.23
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	4	0.23
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	4	0.23
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	4	0.23
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	6	0.23
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	6	0.23
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	6	0.23
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	6	0.23
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	10	0.23
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	10	0.23
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	10	0.23
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	10	0.23
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	1	0.23
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	1	0.23
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	1	0.23
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	1	0.23
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	3	0.23
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	3	0.23
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	3	0.23
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	3	0.23
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	9	0.23
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	9	0.23
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	9	0.23
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	9	0.23
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	10	0.23
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	10	0.23
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	10	0.23
(1,1180)	1:A:5:DG:N2	1:A:9:DG:N7	4	0.23
(1,1180)	1:A:5:DG:N2	1:B:9:DG:N7	4	0.23
(1,1180)	1:B:5:DG:N2	1:A:9:DG:N7	4	0.23
(1,1180)	1:B:5:DG:N2	1:B:9:DG:N7	4	0.23
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	2	0.23
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	2	0.23
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	2	0.23
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	2	0.23
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	8	0.23
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	8	0.23
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	8	0.23
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	8	0.23
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	9	0.23
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	9	0.23
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	9	0.23
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	9	0.23
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	10	0.23
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	10	0.23
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	10	0.23
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	10	0.23
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	6	0.23
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	6	0.23
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	6	0.23
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	6	0.23
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	5	0.23
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	5	0.23
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	5	0.23
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	5	0.23
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	7	0.23
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	7	0.23
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	7	0.23
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	7	0.23
(1,1175)	1:A:17:DG:H21	1:A:5:DG:N7	8	0.23
(1,1175)	1:A:17:DG:H21	1:B:5:DG:N7	8	0.23
(1,1175)	1:B:17:DG:H21	1:A:5:DG:N7	8	0.23
(1,1175)	1:B:17:DG:H21	1:B:5:DG:N7	8	0.23
(1,1171)	1:A:14:DG:H21	1:A:18:DG:N7	6	0.23
(1,1171)	1:A:14:DG:H21	1:B:18:DG:N7	6	0.23
(1,1171)	1:B:14:DG:H21	1:A:18:DG:N7	6	0.23
(1,1171)	1:B:14:DG:H21	1:B:18:DG:N7	6	0.23
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	1	0.23
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	1	0.23
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	1	0.23
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	4	0.23
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	4	0.23
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	4	0.23
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	4	0.23
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	5	0.23
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	5	0.23
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	5	0.23
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	5	0.23
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	9	0.23
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	9	0.23
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	9	0.23
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	9	0.23
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	10	0.23
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	10	0.23
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	10	0.23
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	10	0.23
(1,1166)	1:A:6:DG:N1	1:A:10:DG:O6	5	0.23
(1,1166)	1:A:6:DG:N1	1:B:10:DG:O6	5	0.23
(1,1166)	1:B:6:DG:N1	1:A:10:DG:O6	5	0.23
(1,1166)	1:B:6:DG:N1	1:B:10:DG:O6	5	0.23
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	1	0.23
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	1	0.23
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	1	0.23
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	1	0.23
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	7	0.23
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	7	0.23
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	7	0.23
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	7	0.23
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	1	0.23
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	1	0.23
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	1	0.23
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	1	0.23
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	3	0.23
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	3	0.23
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	3	0.23
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	3	0.23
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	5	0.23
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	5	0.23
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	5	0.23
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	6	0.23
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	6	0.23
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	6	0.23
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	6	0.23
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	8	0.23
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	8	0.23
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	8	0.23
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	8	0.23
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	10	0.23
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	10	0.23
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	10	0.23
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	10	0.23
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	2	0.23
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	2	0.23
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	2	0.23
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	2	0.23
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	5	0.23
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	5	0.23
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	5	0.23
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	5	0.23
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	7	0.23
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	7	0.23
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	7	0.23
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	7	0.23
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	1	0.23
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	1	0.23
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	1	0.23
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	1	0.23
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	3	0.23
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	3	0.23
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	3	0.23
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	3	0.23
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	5	0.23
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	5	0.23
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	5	0.23
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	5	0.23
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	10	0.23
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	10	0.23
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	10	0.23
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	10	0.23
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	1	0.23
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	1	0.23
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	1	0.23
(1,1147)	1:A:7:DG:H21	1:A:11:DG:N7	5	0.23
(1,1147)	1:A:7:DG:H21	1:B:11:DG:N7	5	0.23
(1,1147)	1:B:7:DG:H21	1:A:11:DG:N7	5	0.23
(1,1147)	1:B:7:DG:H21	1:B:11:DG:N7	5	0.23
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	1	0.23
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	1	0.23
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	1	0.23
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	1	0.23
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	2	0.23
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	2	0.23
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	2	0.23
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	2	0.23
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	6	0.23
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	6	0.23
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	6	0.23
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	6	0.23
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	2	0.23
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	2	0.23
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	2	0.23
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	2	0.23
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	4	0.23
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	4	0.23
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	4	0.23
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	4	0.23
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	6	0.23
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	6	0.23
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	6	0.23
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	6	0.23
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	10	0.23
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	10	0.23
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	10	0.23
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	10	0.23
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	1	0.23
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	1	0.23
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	1	0.23
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	1	0.23
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	3	0.23
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	3	0.23
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	3	0.23
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	9	0.23
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	9	0.23
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	9	0.23
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	9	0.23
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	10	0.23
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	10	0.23
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	10	0.23
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	10	0.23
(1,1132)	1:A:5:DG:N2	1:A:9:DG:N7	4	0.23
(1,1132)	1:A:5:DG:N2	1:B:9:DG:N7	4	0.23
(1,1132)	1:B:5:DG:N2	1:A:9:DG:N7	4	0.23
(1,1132)	1:B:5:DG:N2	1:B:9:DG:N7	4	0.23
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	2	0.23
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	2	0.23
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	2	0.23
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	2	0.23
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	8	0.23
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	8	0.23
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	8	0.23
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	8	0.23
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	9	0.23
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	9	0.23
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	9	0.23
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	9	0.23
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	10	0.23
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	10	0.23
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	10	0.23
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	10	0.23
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	6	0.23
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	6	0.23
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	6	0.23
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	6	0.23
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	5	0.23
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	5	0.23
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	5	0.23
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	5	0.23
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	7	0.23
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	7	0.23
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	7	0.23
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	7	0.23
(1,1127)	1:A:17:DG:H21	1:A:5:DG:N7	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1127)	1:A:17:DG:H21	1:B:5:DG:N7	8	0.23
(1,1127)	1:B:17:DG:H21	1:A:5:DG:N7	8	0.23
(1,1127)	1:B:17:DG:H21	1:B:5:DG:N7	8	0.23
(1,1123)	1:A:14:DG:H21	1:A:18:DG:N7	6	0.23
(1,1123)	1:A:14:DG:H21	1:B:18:DG:N7	6	0.23
(1,1123)	1:B:14:DG:H21	1:A:18:DG:N7	6	0.23
(1,1123)	1:B:14:DG:H21	1:B:18:DG:N7	6	0.23
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	1	0.23
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	1	0.23
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	1	0.23
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	1	0.23
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	4	0.23
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	4	0.23
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	4	0.23
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	4	0.23
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	5	0.23
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	5	0.23
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	5	0.23
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	5	0.23
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	9	0.23
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	9	0.23
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	9	0.23
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	9	0.23
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	10	0.23
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	10	0.23
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	10	0.23
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	10	0.23
(1,1118)	1:A:6:DG:N1	1:A:10:DG:O6	5	0.23
(1,1118)	1:A:6:DG:N1	1:B:10:DG:O6	5	0.23
(1,1118)	1:B:6:DG:N1	1:A:10:DG:O6	5	0.23
(1,1118)	1:B:6:DG:N1	1:B:10:DG:O6	5	0.23
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	1	0.23
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	1	0.23
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	1	0.23
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	1	0.23
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	7	0.23
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	7	0.23
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	7	0.23
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	7	0.23
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	1	0.23
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	1	0.23
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	1	0.23
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	3	0.23
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	3	0.23
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	3	0.23
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	3	0.23
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	5	0.23
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	5	0.23
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	5	0.23
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	5	0.23
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	6	0.23
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	6	0.23
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	6	0.23
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	6	0.23
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	8	0.23
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	8	0.23
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	8	0.23
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	8	0.23
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	10	0.23
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	10	0.23
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	10	0.23
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	10	0.23
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	2	0.23
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	2	0.23
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	2	0.23
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	2	0.23
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	5	0.23
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	5	0.23
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	5	0.23
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	5	0.23
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	7	0.23
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	7	0.23
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	7	0.23
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	7	0.23
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	1	0.23
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	1	0.23
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	1	0.23
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	1	0.23
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	3	0.23
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	3	0.23
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	3	0.23
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	3	0.23
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	5	0.23
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	5	0.23
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	5	0.23
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	10	0.23
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	10	0.23
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	10	0.23
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	10	0.23
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	1	0.23
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	1	0.23
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	1	0.23
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	1	0.23
(1,1099)	1:A:7:DG:H21	1:A:11:DG:N7	5	0.23
(1,1099)	1:A:7:DG:H21	1:B:11:DG:N7	5	0.23
(1,1099)	1:B:7:DG:H21	1:A:11:DG:N7	5	0.23
(1,1099)	1:B:7:DG:H21	1:B:11:DG:N7	5	0.23
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	1	0.23
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	1	0.23
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	1	0.23
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	1	0.23
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	2	0.23
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	2	0.23
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	2	0.23
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	2	0.23
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	6	0.23
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	6	0.23
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	6	0.23
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	6	0.23
(1,1036)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H8	3	0.23
(1,1036)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H8	3	0.23
(1,1036)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H8	3	0.23
(1,1036)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H8	3	0.23
(1,1000)	1:A:13:DG:H2 <sup>?</sup>	1:A:14:DG:H8	2	0.23
(1,1000)	1:A:13:DG:H2 <sup>?</sup>	1:B:14:DG:H8	2	0.23
(1,1000)	1:B:13:DG:H2 <sup>?</sup>	1:A:14:DG:H8	2	0.23
(1,1000)	1:B:13:DG:H2 <sup>?</sup>	1:B:14:DG:H8	2	0.23
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	5	0.22
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	5	0.22
(1,943)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	5	0.22
(1,943)	1:B:11:DG:H1 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	5	0.22
(1,942)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	1	0.22
(1,942)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H4 <sup>?</sup>	1	0.22
(1,942)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,942)	1:B:11:DG:H1'	1:B:11:DG:H4'	1	0.22
(1,931)	1:A:10:DG:H1'	1:A:10:DG:H2''	2	0.22
(1,931)	1:A:10:DG:H1'	1:B:10:DG:H2''	2	0.22
(1,931)	1:B:10:DG:H1'	1:A:10:DG:H2''	2	0.22
(1,931)	1:B:10:DG:H1'	1:B:10:DG:H2''	2	0.22
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	8	0.22
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	8	0.22
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	8	0.22
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	8	0.22
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	10	0.22
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	10	0.22
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	10	0.22
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	10	0.22
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	10	0.22
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	10	0.22
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	10	0.22
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	10	0.22
(1,780)	1:A:3:DG:H8	1:A:4:DG:H3'	6	0.22
(1,780)	1:A:3:DG:H8	1:B:4:DG:H3'	6	0.22
(1,780)	1:B:3:DG:H8	1:A:4:DG:H3'	6	0.22
(1,780)	1:B:3:DG:H8	1:B:4:DG:H3'	6	0.22
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	8	0.22
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	8	0.22
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	8	0.22
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	8	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	1	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	1	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	1	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	1	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	2	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	2	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	2	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	2	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	3	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	3	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	3	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	3	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	4	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	4	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	4	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	4	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	5	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	5	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	5	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	6	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	6	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	6	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	6	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	7	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	7	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	7	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	7	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	8	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	8	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	8	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	8	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	9	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	9	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	9	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	9	0.22
(1,730)	1:A:2:DG:H5'	1:A:2:DG:H5''	10	0.22
(1,730)	1:A:2:DG:H5'	1:B:2:DG:H5''	10	0.22
(1,730)	1:B:2:DG:H5'	1:A:2:DG:H5''	10	0.22
(1,730)	1:B:2:DG:H5'	1:B:2:DG:H5''	10	0.22
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	7	0.22
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	7	0.22
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	7	0.22
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	7	0.22
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	10	0.22
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	10	0.22
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	10	0.22
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	10	0.22
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	10	0.22
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	10	0.22
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	10	0.22
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	10	0.22
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	5	0.22
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	5	0.22
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	5	0.22
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	5	0.22
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	1	0.22
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	1	0.22
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	1	0.22
(1,496)	1:A:10:DG:H1'	1:A:10:DG:H2''	2	0.22
(1,496)	1:A:10:DG:H1'	1:B:10:DG:H2''	2	0.22
(1,496)	1:B:10:DG:H1'	1:A:10:DG:H2''	2	0.22
(1,496)	1:B:10:DG:H1'	1:B:10:DG:H2''	2	0.22
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	8	0.22
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	8	0.22
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	8	0.22
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	8	0.22
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	10	0.22
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	10	0.22
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	10	0.22
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	10	0.22
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	10	0.22
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	10	0.22
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	10	0.22
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	10	0.22
(1,345)	1:A:3:DG:H8	1:A:4:DG:H3'	6	0.22
(1,345)	1:A:3:DG:H8	1:B:4:DG:H3'	6	0.22
(1,345)	1:B:3:DG:H8	1:A:4:DG:H3'	6	0.22
(1,345)	1:B:3:DG:H8	1:B:4:DG:H3'	6	0.22
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	8	0.22
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	8	0.22
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	8	0.22
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	8	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	1	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	1	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	1	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	1	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	2	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	2	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	2	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	2	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	3	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	3	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	3	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	3	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	4	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	4	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	4	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	4	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	5	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	5	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	5	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	6	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	6	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	6	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	6	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	7	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	7	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	7	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	7	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	8	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	8	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	8	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	8	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	9	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	9	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	9	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	9	0.22
(1,295)	1:A:2:DG:H5'	1:A:2:DG:H5''	10	0.22
(1,295)	1:A:2:DG:H5'	1:B:2:DG:H5''	10	0.22
(1,295)	1:B:2:DG:H5'	1:A:2:DG:H5''	10	0.22
(1,295)	1:B:2:DG:H5'	1:B:2:DG:H5''	10	0.22
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	7	0.22
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	7	0.22
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	7	0.22
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	7	0.22
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	10	0.22
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	10	0.22
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	10	0.22
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	10	0.22
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	5	0.22
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	5	0.22
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	5	0.22
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	5	0.22
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	7	0.22
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	7	0.22
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	7	0.22
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	7	0.22
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	8	0.22
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	8	0.22
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	8	0.22
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	5	0.22
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	5	0.22
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	5	0.22
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	5	0.22
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	9	0.22
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	9	0.22
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	9	0.22
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	9	0.22
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	3	0.22
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	3	0.22
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	3	0.22
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	3	0.22
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	6	0.22
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	6	0.22
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	6	0.22
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	6	0.22
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	2	0.22
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	2	0.22
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	2	0.22
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	2	0.22
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	3	0.22
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	3	0.22
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	3	0.22
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	3	0.22
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	2	0.22
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	2	0.22
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	2	0.22
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	2	0.22
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	4	0.22
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	4	0.22
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	4	0.22
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	4	0.22
(1,1159)	1:A:18:DG:H21	1:A:6:DG:N7	7	0.22
(1,1159)	1:A:18:DG:H21	1:B:6:DG:N7	7	0.22
(1,1159)	1:B:18:DG:H21	1:A:6:DG:N7	7	0.22
(1,1159)	1:B:18:DG:H21	1:B:6:DG:N7	7	0.22
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	8	0.22
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	8	0.22
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	8	0.22
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	8	0.22
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	10	0.22
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	10	0.22
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	10	0.22
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	4	0.22
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	4	0.22
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	4	0.22
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	4	0.22
(1,1154)	1:A:11:DG:N1	1:A:15:DG:O6	6	0.22
(1,1154)	1:A:11:DG:N1	1:B:15:DG:O6	6	0.22
(1,1154)	1:B:11:DG:N1	1:A:15:DG:O6	6	0.22
(1,1154)	1:B:11:DG:N1	1:B:15:DG:O6	6	0.22
(1,1151)	1:A:11:DG:H21	1:A:15:DG:N7	8	0.22
(1,1151)	1:A:11:DG:H21	1:B:15:DG:N7	8	0.22
(1,1151)	1:B:11:DG:H21	1:A:15:DG:N7	8	0.22
(1,1151)	1:B:11:DG:H21	1:B:15:DG:N7	8	0.22
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	7	0.22
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	7	0.22
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	7	0.22
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	7	0.22
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	8	0.22
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	8	0.22
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	8	0.22
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	8	0.22
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	3	0.22
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	3	0.22
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	3	0.22
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	3	0.22
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	10	0.22
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	10	0.22
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	10	0.22
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	10	0.22
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	4	0.22
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	4	0.22
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	4	0.22
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	4	0.22
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	7	0.22
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	7	0.22
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	7	0.22
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	7	0.22
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	8	0.22
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	8	0.22
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	8	0.22
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	5	0.22
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	5	0.22
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	5	0.22
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	5	0.22
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	7	0.22
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	7	0.22
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	7	0.22
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	7	0.22
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	8	0.22
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	8	0.22
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	8	0.22
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	8	0.22
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	5	0.22
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	5	0.22
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	5	0.22
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	5	0.22
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	9	0.22
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	9	0.22
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	9	0.22
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	9	0.22
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	3	0.22
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	3	0.22
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	3	0.22
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	3	0.22
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	6	0.22
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	6	0.22
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	6	0.22
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	6	0.22
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	2	0.22
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	2	0.22
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	2	0.22
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	2	0.22
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	3	0.22
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	3	0.22
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	3	0.22
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	3	0.22
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	2	0.22
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	2	0.22
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	2	0.22
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	2	0.22
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	4	0.22
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	4	0.22
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	4	0.22
(1,1111)	1:A:18:DG:H21	1:A:6:DG:N7	7	0.22
(1,1111)	1:A:18:DG:H21	1:B:6:DG:N7	7	0.22
(1,1111)	1:B:18:DG:H21	1:A:6:DG:N7	7	0.22
(1,1111)	1:B:18:DG:H21	1:B:6:DG:N7	7	0.22
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	8	0.22
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	8	0.22
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	8	0.22
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	8	0.22
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	10	0.22
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	10	0.22
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	10	0.22
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	10	0.22
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	4	0.22
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	4	0.22
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	4	0.22
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	4	0.22
(1,1106)	1:A:11:DG:N1	1:A:15:DG:O6	6	0.22
(1,1106)	1:A:11:DG:N1	1:B:15:DG:O6	6	0.22
(1,1106)	1:B:11:DG:N1	1:A:15:DG:O6	6	0.22
(1,1106)	1:B:11:DG:N1	1:B:15:DG:O6	6	0.22
(1,1103)	1:A:11:DG:H21	1:A:15:DG:N7	8	0.22
(1,1103)	1:A:11:DG:H21	1:B:15:DG:N7	8	0.22
(1,1103)	1:B:11:DG:H21	1:A:15:DG:N7	8	0.22
(1,1103)	1:B:11:DG:H21	1:B:15:DG:N7	8	0.22
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	7	0.22
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	7	0.22
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	7	0.22
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	7	0.22
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	8	0.22
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	8	0.22
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	8	0.22
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	8	0.22
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	3	0.22
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	3	0.22
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	3	0.22
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	3	0.22
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	10	0.22
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	10	0.22
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	10	0.22
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	4	0.22
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	4	0.22
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	4	0.22
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	4	0.22
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	7	0.22
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	7	0.22
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	7	0.22
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	7	0.22
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	8	0.22
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	8	0.22
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	8	0.22
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	8	0.22
(1,1091)	1:A:18:DG:H2''	1:A:18:DG:H3''	10	0.22
(1,1091)	1:A:18:DG:H2''	1:B:18:DG:H3''	10	0.22
(1,1091)	1:B:18:DG:H2''	1:A:18:DG:H3''	10	0.22
(1,1091)	1:B:18:DG:H2''	1:B:18:DG:H3''	10	0.22
(1,952)	1:A:11:DG:H2''	1:A:11:DG:H2''	3	0.21
(1,952)	1:A:11:DG:H2''	1:B:11:DG:H2''	3	0.21
(1,952)	1:B:11:DG:H2''	1:A:11:DG:H2''	3	0.21
(1,952)	1:B:11:DG:H2''	1:B:11:DG:H2''	3	0.21
(1,952)	1:A:11:DG:H2''	1:A:11:DG:H2''	7	0.21
(1,952)	1:A:11:DG:H2''	1:B:11:DG:H2''	7	0.21
(1,952)	1:B:11:DG:H2''	1:A:11:DG:H2''	7	0.21
(1,952)	1:B:11:DG:H2''	1:B:11:DG:H2''	7	0.21
(1,952)	1:A:11:DG:H2''	1:A:11:DG:H2''	9	0.21
(1,952)	1:A:11:DG:H2''	1:B:11:DG:H2''	9	0.21
(1,952)	1:B:11:DG:H2''	1:A:11:DG:H2''	9	0.21
(1,952)	1:B:11:DG:H2''	1:B:11:DG:H2''	9	0.21
(1,880)	1:A:7:DG:H2''	1:A:7:DG:H2''	1	0.21
(1,880)	1:A:7:DG:H2''	1:B:7:DG:H2''	1	0.21
(1,880)	1:B:7:DG:H2''	1:A:7:DG:H2''	1	0.21
(1,880)	1:B:7:DG:H2''	1:B:7:DG:H2''	1	0.21
(1,880)	1:A:7:DG:H2''	1:A:7:DG:H2''	5	0.21
(1,880)	1:A:7:DG:H2''	1:B:7:DG:H2''	5	0.21
(1,880)	1:B:7:DG:H2''	1:A:7:DG:H2''	5	0.21
(1,880)	1:B:7:DG:H2''	1:B:7:DG:H2''	5	0.21
(1,880)	1:A:7:DG:H2''	1:A:7:DG:H2''	6	0.21
(1,880)	1:A:7:DG:H2''	1:B:7:DG:H2''	6	0.21
(1,880)	1:B:7:DG:H2''	1:A:7:DG:H2''	6	0.21
(1,880)	1:B:7:DG:H2''	1:B:7:DG:H2''	6	0.21
(1,880)	1:A:7:DG:H2''	1:A:7:DG:H2''	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	9	0.21
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	9	0.21
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	9	0.21
(1,880)	1:A:7:DG:H2'	1:A:7:DG:H2''	10	0.21
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	10	0.21
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	10	0.21
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	10	0.21
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	8	0.21
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	8	0.21
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	8	0.21
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	8	0.21
(1,862)	1:A:6:DG:H1'	1:A:7:DG:H8	6	0.21
(1,862)	1:A:6:DG:H1'	1:B:7:DG:H8	6	0.21
(1,862)	1:B:6:DG:H1'	1:A:7:DG:H8	6	0.21
(1,862)	1:B:6:DG:H1'	1:B:7:DG:H8	6	0.21
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	3	0.21
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	3	0.21
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	3	0.21
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	3	0.21
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	5	0.21
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	5	0.21
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	5	0.21
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	5	0.21
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	9	0.21
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	9	0.21
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	9	0.21
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	9	0.21
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	10	0.21
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	10	0.21
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	10	0.21
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	10	0.21
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	1	0.21
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	1	0.21
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	1	0.21
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	1	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	1	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	1	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	1	0.21
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	1	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	2	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	2	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	2	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	3	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	3	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	3	0.21
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	3	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	4	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	4	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	4	0.21
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	4	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	7	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	7	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	7	0.21
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	7	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	9	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	9	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	9	0.21
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	9	0.21
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	10	0.21
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	10	0.21
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	10	0.21
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	10	0.21
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	1	0.21
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	1	0.21
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	1	0.21
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	1	0.21
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	2	0.21
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	2	0.21
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	2	0.21
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	2	0.21
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	5	0.21
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	5	0.21
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	5	0.21
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	5	0.21
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	5	0.21
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	5	0.21
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	5	0.21
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	5	0.21
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	1	0.21
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	1	0.21
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	1	0.21
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	1	0.21
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	3	0.21
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	3	0.21
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	3	0.21
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	7	0.21
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	7	0.21
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	7	0.21
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	7	0.21
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	8	0.21
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	8	0.21
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	8	0.21
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	8	0.21
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	6	0.21
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	6	0.21
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	6	0.21
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	6	0.21
(1,630)	1:A:16:DT:H4'	1:A:17:DG:H3'	10	0.21
(1,630)	1:A:16:DT:H4'	1:B:17:DG:H3'	10	0.21
(1,630)	1:B:16:DT:H4'	1:A:17:DG:H3'	10	0.21
(1,630)	1:B:16:DT:H4'	1:B:17:DG:H3'	10	0.21
(1,605)	1:A:16:DT:H1'	1:A:16:DT:H4'	3	0.21
(1,605)	1:A:16:DT:H1'	1:B:16:DT:H4'	3	0.21
(1,605)	1:B:16:DT:H1'	1:A:16:DT:H4'	3	0.21
(1,605)	1:B:16:DT:H1'	1:B:16:DT:H4'	3	0.21
(1,601)	1:A:15:DG:H2'	1:A:15:DG:H8	4	0.21
(1,601)	1:A:15:DG:H2'	1:B:15:DG:H8	4	0.21
(1,601)	1:B:15:DG:H2'	1:A:15:DG:H8	4	0.21
(1,601)	1:B:15:DG:H2'	1:B:15:DG:H8	4	0.21
(1,599)	1:A:15:DG:H2'	1:A:15:DG:H2''	2	0.21
(1,599)	1:A:15:DG:H2'	1:B:15:DG:H2''	2	0.21
(1,599)	1:B:15:DG:H2'	1:A:15:DG:H2''	2	0.21
(1,599)	1:B:15:DG:H2'	1:B:15:DG:H2''	2	0.21
(1,599)	1:A:15:DG:H2'	1:A:15:DG:H2''	3	0.21
(1,599)	1:A:15:DG:H2'	1:B:15:DG:H2''	3	0.21
(1,599)	1:B:15:DG:H2'	1:A:15:DG:H2''	3	0.21
(1,599)	1:B:15:DG:H2'	1:B:15:DG:H2''	3	0.21
(1,517)	1:A:11:DG:H2'	1:A:11:DG:H2''	3	0.21
(1,517)	1:A:11:DG:H2'	1:B:11:DG:H2''	3	0.21
(1,517)	1:B:11:DG:H2'	1:A:11:DG:H2''	3	0.21
(1,517)	1:B:11:DG:H2'	1:B:11:DG:H2''	3	0.21
(1,517)	1:A:11:DG:H2'	1:A:11:DG:H2''	7	0.21
(1,517)	1:A:11:DG:H2'	1:B:11:DG:H2''	7	0.21
(1,517)	1:B:11:DG:H2'	1:A:11:DG:H2''	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,517)	1:B:11:DG:H2'	1:B:11:DG:H2''	7	0.21
(1,517)	1:A:11:DG:H2'	1:A:11:DG:H2''	9	0.21
(1,517)	1:A:11:DG:H2'	1:B:11:DG:H2''	9	0.21
(1,517)	1:B:11:DG:H2'	1:A:11:DG:H2''	9	0.21
(1,517)	1:B:11:DG:H2'	1:B:11:DG:H2''	9	0.21
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	1	0.21
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	1	0.21
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	1	0.21
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	1	0.21
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	5	0.21
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	5	0.21
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	5	0.21
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	5	0.21
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	6	0.21
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	6	0.21
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	6	0.21
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	6	0.21
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	9	0.21
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	9	0.21
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	9	0.21
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	9	0.21
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	10	0.21
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	10	0.21
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	10	0.21
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	10	0.21
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	8	0.21
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	8	0.21
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	8	0.21
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	8	0.21
(1,427)	1:A:6:DG:H1'	1:A:7:DG:H8	6	0.21
(1,427)	1:A:6:DG:H1'	1:B:7:DG:H8	6	0.21
(1,427)	1:B:6:DG:H1'	1:A:7:DG:H8	6	0.21
(1,427)	1:B:6:DG:H1'	1:B:7:DG:H8	6	0.21
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	3	0.21
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	3	0.21
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	3	0.21
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	3	0.21
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	5	0.21
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	5	0.21
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	5	0.21
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	5	0.21
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	9	0.21
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	9	0.21
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	9	0.21
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	10	0.21
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	10	0.21
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	10	0.21
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	10	0.21
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	1	0.21
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	1	0.21
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	1	0.21
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	1	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	1	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	1	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	1	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	1	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	2	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	2	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	2	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	2	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	3	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	3	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	3	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	3	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	4	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	4	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	4	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	4	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	7	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	7	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	7	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	7	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	9	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	9	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	9	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	9	0.21
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	10	0.21
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	10	0.21
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	10	0.21
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	10	0.21
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	1	0.21
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	1	0.21
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	1	0.21
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	2	0.21
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	2	0.21
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	2	0.21
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	2	0.21
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	5	0.21
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	5	0.21
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	5	0.21
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	5	0.21
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	5	0.21
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	5	0.21
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	5	0.21
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	5	0.21
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	1	0.21
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	1	0.21
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	1	0.21
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	1	0.21
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	3	0.21
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	3	0.21
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	3	0.21
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	3	0.21
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	7	0.21
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	7	0.21
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	7	0.21
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	7	0.21
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	8	0.21
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	8	0.21
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	8	0.21
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	8	0.21
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	5	0.21
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	5	0.21
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	5	0.21
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	5	0.21
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	9	0.21
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	9	0.21
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	9	0.21
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	9	0.21
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	3	0.21
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	3	0.21
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	3	0.21
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	3	0.21
(1,1187)	1:A:13:DG:H21	1:A:17:DG:N7	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1187)	1:A:13:DG:H21	1:B:17:DG:N7	9	0.21
(1,1187)	1:B:13:DG:H21	1:A:17:DG:N7	9	0.21
(1,1187)	1:B:13:DG:H21	1:B:17:DG:N7	9	0.21
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	7	0.21
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	7	0.21
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	7	0.21
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	7	0.21
(1,1183)	1:A:9:DG:H21	1:A:13:DG:N7	7	0.21
(1,1183)	1:A:9:DG:H21	1:B:13:DG:N7	7	0.21
(1,1183)	1:B:9:DG:H21	1:A:13:DG:N7	7	0.21
(1,1183)	1:B:9:DG:H21	1:B:13:DG:N7	7	0.21
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	4	0.21
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	4	0.21
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	4	0.21
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	4	0.21
(1,1167)	1:A:10:DG:H21	1:A:14:DG:N7	7	0.21
(1,1167)	1:A:10:DG:H21	1:B:14:DG:N7	7	0.21
(1,1167)	1:B:10:DG:H21	1:A:14:DG:N7	7	0.21
(1,1167)	1:B:10:DG:H21	1:B:14:DG:N7	7	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	1	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	1	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	1	0.21
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	1	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	2	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	2	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	2	0.21
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	2	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	4	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	4	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	4	0.21
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	4	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	5	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	5	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	5	0.21
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	5	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	7	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	7	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	7	0.21
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	7	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	9	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	9	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	9	0.21
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	10	0.21
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	10	0.21
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	10	0.21
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	10	0.21
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	2	0.21
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	2	0.21
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	2	0.21
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	2	0.21
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	6	0.21
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	6	0.21
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	6	0.21
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	6	0.21
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	7	0.21
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	7	0.21
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	7	0.21
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	7	0.21
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	2	0.21
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	2	0.21
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	2	0.21
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	2	0.21
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	5	0.21
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	5	0.21
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	5	0.21
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	5	0.21
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	9	0.21
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	9	0.21
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	9	0.21
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	9	0.21
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	3	0.21
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	3	0.21
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	3	0.21
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	3	0.21
(1,1139)	1:A:13:DG:H21	1:A:17:DG:N7	9	0.21
(1,1139)	1:A:13:DG:H21	1:B:17:DG:N7	9	0.21
(1,1139)	1:B:13:DG:H21	1:A:17:DG:N7	9	0.21
(1,1139)	1:B:13:DG:H21	1:B:17:DG:N7	9	0.21
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	7	0.21
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	7	0.21
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	7	0.21
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	7	0.21
(1,1135)	1:A:9:DG:H21	1:A:13:DG:N7	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	1:A:9:DG:H21	1:B:13:DG:N7	7	0.21
(1,1135)	1:B:9:DG:H21	1:A:13:DG:N7	7	0.21
(1,1135)	1:B:9:DG:H21	1:B:13:DG:N7	7	0.21
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	4	0.21
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	4	0.21
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	4	0.21
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	4	0.21
(1,1119)	1:A:10:DG:H21	1:A:14:DG:N7	7	0.21
(1,1119)	1:A:10:DG:H21	1:B:14:DG:N7	7	0.21
(1,1119)	1:B:10:DG:H21	1:A:14:DG:N7	7	0.21
(1,1119)	1:B:10:DG:H21	1:B:14:DG:N7	7	0.21
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	1	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	1	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	1	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	1	0.21
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	2	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	2	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	2	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	2	0.21
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	4	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	4	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	4	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	4	0.21
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	5	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	5	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	5	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	5	0.21
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	7	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	7	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	7	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	7	0.21
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	9	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	9	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	9	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	9	0.21
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	10	0.21
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	10	0.21
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	10	0.21
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	10	0.21
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	2	0.21
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	2	0.21
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	2	0.21
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	6	0.21
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	6	0.21
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	6	0.21
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	6	0.21
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	7	0.21
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	7	0.21
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	7	0.21
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	7	0.21
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	2	0.21
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	2	0.21
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	2	0.21
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	2	0.21
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	6	0.21
(1,1091)	1:A:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	6	0.21
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:A:18:DG:H3 <sup>'</sup>	6	0.21
(1,1091)	1:B:18:DG:H2 <sup>''</sup>	1:B:18:DG:H3 <sup>'</sup>	6	0.21
(1,1065)	1:A:16:DT:H4 <sup>'</sup>	1:A:17:DG:H3 <sup>'</sup>	10	0.21
(1,1065)	1:A:16:DT:H4 <sup>'</sup>	1:B:17:DG:H3 <sup>'</sup>	10	0.21
(1,1065)	1:B:16:DT:H4 <sup>'</sup>	1:A:17:DG:H3 <sup>'</sup>	10	0.21
(1,1065)	1:B:16:DT:H4 <sup>'</sup>	1:B:17:DG:H3 <sup>'</sup>	10	0.21
(1,1040)	1:A:16:DT:H1 <sup>'</sup>	1:A:16:DT:H4 <sup>'</sup>	3	0.21
(1,1040)	1:A:16:DT:H1 <sup>'</sup>	1:B:16:DT:H4 <sup>'</sup>	3	0.21
(1,1040)	1:B:16:DT:H1 <sup>'</sup>	1:A:16:DT:H4 <sup>'</sup>	3	0.21
(1,1040)	1:B:16:DT:H1 <sup>'</sup>	1:B:16:DT:H4 <sup>'</sup>	3	0.21
(1,1036)	1:A:15:DG:H2 <sup>'</sup>	1:A:15:DG:H8	4	0.21
(1,1036)	1:A:15:DG:H2 <sup>'</sup>	1:B:15:DG:H8	4	0.21
(1,1036)	1:B:15:DG:H2 <sup>'</sup>	1:A:15:DG:H8	4	0.21
(1,1036)	1:B:15:DG:H2 <sup>'</sup>	1:B:15:DG:H8	4	0.21
(1,1034)	1:A:15:DG:H2 <sup>'</sup>	1:A:15:DG:H2 <sup>''</sup>	2	0.21
(1,1034)	1:A:15:DG:H2 <sup>'</sup>	1:B:15:DG:H2 <sup>''</sup>	2	0.21
(1,1034)	1:B:15:DG:H2 <sup>'</sup>	1:A:15:DG:H2 <sup>''</sup>	2	0.21
(1,1034)	1:B:15:DG:H2 <sup>'</sup>	1:B:15:DG:H2 <sup>''</sup>	2	0.21
(1,1034)	1:A:15:DG:H2 <sup>'</sup>	1:A:15:DG:H2 <sup>''</sup>	3	0.21
(1,1034)	1:A:15:DG:H2 <sup>'</sup>	1:B:15:DG:H2 <sup>''</sup>	3	0.21
(1,1034)	1:B:15:DG:H2 <sup>'</sup>	1:A:15:DG:H2 <sup>''</sup>	3	0.21
(1,1034)	1:B:15:DG:H2 <sup>'</sup>	1:B:15:DG:H2 <sup>''</sup>	3	0.21
(1,994)	1:A:13:DG:H2 <sup>'</sup>	1:A:13:DG:H2 <sup>''</sup>	1	0.2
(1,994)	1:A:13:DG:H2 <sup>'</sup>	1:B:13:DG:H2 <sup>''</sup>	1	0.2
(1,994)	1:B:13:DG:H2 <sup>'</sup>	1:A:13:DG:H2 <sup>''</sup>	1	0.2
(1,994)	1:B:13:DG:H2 <sup>'</sup>	1:B:13:DG:H2 <sup>''</sup>	1	0.2
(1,994)	1:A:13:DG:H2 <sup>'</sup>	1:A:13:DG:H2 <sup>''</sup>	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	2	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	2	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	2	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	3	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	3	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	3	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	3	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	4	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	4	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	4	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	4	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	5	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	5	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	5	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	5	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	6	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	6	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	6	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	6	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	7	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	7	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	7	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	7	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	8	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	8	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	8	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	8	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	9	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	9	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	9	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	9	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	10	0.2
(1,994)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	10	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	10	0.2
(1,994)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	10	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	1	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	1	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	1	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	1	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	2	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	2	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	2	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	4	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	4	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	4	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	4	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	5	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	5	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	5	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	5	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	6	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	6	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	6	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	6	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	8	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	8	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	8	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	8	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	10	0.2
(1,952)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	10	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	10	0.2
(1,952)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	10	0.2
(1,942)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	10	0.2
(1,942)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H4 <sup>?</sup>	10	0.2
(1,942)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	10	0.2
(1,942)	1:B:11:DG:H1 <sup>?</sup>	1:B:11:DG:H4 <sup>?</sup>	10	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	1	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	1	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	1	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	1	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	2	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	2	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	2	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	2	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	3	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	3	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	3	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	3	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	4	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	4	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	4	0.2
(1,934)	1:B:10:DG:H2 <sup>?</sup>	1:B:10:DG:H2 <sup>?</sup>	4	0.2
(1,934)	1:A:10:DG:H2 <sup>?</sup>	1:A:10:DG:H2 <sup>?</sup>	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,934)	1:A:10:DG:H2'	1:B:10:DG:H2''	5	0.2
(1,934)	1:B:10:DG:H2'	1:A:10:DG:H2''	5	0.2
(1,934)	1:B:10:DG:H2'	1:B:10:DG:H2''	5	0.2
(1,934)	1:A:10:DG:H2'	1:A:10:DG:H2''	6	0.2
(1,934)	1:A:10:DG:H2'	1:B:10:DG:H2''	6	0.2
(1,934)	1:B:10:DG:H2'	1:A:10:DG:H2''	6	0.2
(1,934)	1:B:10:DG:H2'	1:B:10:DG:H2''	6	0.2
(1,934)	1:A:10:DG:H2'	1:A:10:DG:H2''	7	0.2
(1,934)	1:A:10:DG:H2'	1:B:10:DG:H2''	7	0.2
(1,934)	1:B:10:DG:H2'	1:A:10:DG:H2''	7	0.2
(1,934)	1:B:10:DG:H2'	1:B:10:DG:H2''	7	0.2
(1,934)	1:A:10:DG:H2'	1:A:10:DG:H2''	8	0.2
(1,934)	1:A:10:DG:H2'	1:B:10:DG:H2''	8	0.2
(1,934)	1:B:10:DG:H2'	1:A:10:DG:H2''	8	0.2
(1,934)	1:B:10:DG:H2'	1:B:10:DG:H2''	8	0.2
(1,934)	1:A:10:DG:H2'	1:A:10:DG:H2''	9	0.2
(1,934)	1:A:10:DG:H2'	1:B:10:DG:H2''	9	0.2
(1,934)	1:B:10:DG:H2'	1:A:10:DG:H2''	9	0.2
(1,934)	1:B:10:DG:H2'	1:B:10:DG:H2''	9	0.2
(1,934)	1:A:10:DG:H2'	1:A:10:DG:H2''	10	0.2
(1,934)	1:A:10:DG:H2'	1:B:10:DG:H2''	10	0.2
(1,934)	1:B:10:DG:H2'	1:A:10:DG:H2''	10	0.2
(1,934)	1:B:10:DG:H2'	1:B:10:DG:H2''	10	0.2
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	10	0.2
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	10	0.2
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	10	0.2
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	10	0.2
(1,880)	1:A:7:DG:H2'	1:A:7:DG:H2''	2	0.2
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	2	0.2
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	2	0.2
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	2	0.2
(1,880)	1:A:7:DG:H2'	1:A:7:DG:H2''	3	0.2
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	3	0.2
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	3	0.2
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	3	0.2
(1,880)	1:A:7:DG:H2'	1:A:7:DG:H2''	4	0.2
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	4	0.2
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	4	0.2
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	4	0.2
(1,880)	1:A:7:DG:H2'	1:A:7:DG:H2''	7	0.2
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	7	0.2
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	7	0.2
(1,880)	1:A:7:DG:H2'	1:A:7:DG:H2''	8	0.2
(1,880)	1:A:7:DG:H2'	1:B:7:DG:H2''	8	0.2
(1,880)	1:B:7:DG:H2'	1:A:7:DG:H2''	8	0.2
(1,880)	1:B:7:DG:H2'	1:B:7:DG:H2''	8	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	1	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	1	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	1	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	1	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	2	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	2	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	2	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	2	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	3	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	3	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	3	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	3	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	4	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	4	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	4	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	4	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	5	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	5	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	5	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	5	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	6	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	6	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	6	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	6	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	7	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	7	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	7	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	7	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	8	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	8	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	8	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	8	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	9	0.2
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	9	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	9	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	9	0.2
(1,860)	1:A:6:DG:H2'	1:A:6:DG:H2''	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,860)	1:A:6:DG:H2'	1:B:6:DG:H2''	10	0.2
(1,860)	1:B:6:DG:H2'	1:A:6:DG:H2''	10	0.2
(1,860)	1:B:6:DG:H2'	1:B:6:DG:H2''	10	0.2
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	3	0.2
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	3	0.2
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	3	0.2
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	3	0.2
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	9	0.2
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	9	0.2
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	9	0.2
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	9	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	1	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	1	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	1	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	1	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	2	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	2	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	2	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	2	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	3	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	3	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	3	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	3	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	4	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	4	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	4	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	4	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	5	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	5	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	5	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	5	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	6	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	6	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	6	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	6	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	7	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	7	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	7	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	7	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	8	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	8	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	8	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	9	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	9	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	9	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	9	0.2
(1,828)	1:A:5:DG:H2'	1:A:5:DG:H2''	10	0.2
(1,828)	1:A:5:DG:H2'	1:B:5:DG:H2''	10	0.2
(1,828)	1:B:5:DG:H2'	1:A:5:DG:H2''	10	0.2
(1,828)	1:B:5:DG:H2'	1:B:5:DG:H2''	10	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	1	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	1	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	1	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	1	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	2	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	2	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	2	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	2	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	3	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	3	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	3	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	3	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	4	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	4	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	4	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	4	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	5	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	5	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	5	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	5	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	6	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	6	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	6	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	6	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	7	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	7	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	7	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	7	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	8	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	8	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	8	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	8	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	9	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	9	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	9	0.2
(1,811)	1:A:4:DG:H2'	1:A:4:DG:H2''	10	0.2
(1,811)	1:A:4:DG:H2'	1:B:4:DG:H2''	10	0.2
(1,811)	1:B:4:DG:H2'	1:A:4:DG:H2''	10	0.2
(1,811)	1:B:4:DG:H2'	1:B:4:DG:H2''	10	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	1	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	1	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	1	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	1	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	2	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	2	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	2	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	2	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	3	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	3	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	3	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	3	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	4	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	4	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	4	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	4	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	5	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	5	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	5	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	5	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	6	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	6	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	6	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	6	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	7	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	7	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	7	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	7	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	8	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	8	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	8	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	8	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	9	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	9	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	9	0.2
(1,766)	1:A:3:DG:H2'	1:A:3:DG:H2''	10	0.2
(1,766)	1:A:3:DG:H2'	1:B:3:DG:H2''	10	0.2
(1,766)	1:B:3:DG:H2'	1:A:3:DG:H2''	10	0.2
(1,766)	1:B:3:DG:H2'	1:B:3:DG:H2''	10	0.2
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	2	0.2
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	2	0.2
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	2	0.2
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	2	0.2
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	3	0.2
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	3	0.2
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	3	0.2
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	3	0.2
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	5	0.2
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	5	0.2
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	5	0.2
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	5	0.2
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	6	0.2
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	6	0.2
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	6	0.2
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	6	0.2
(1,725)	1:A:2:DG:H2'	1:A:2:DG:H2''	8	0.2
(1,725)	1:A:2:DG:H2'	1:B:2:DG:H2''	8	0.2
(1,725)	1:B:2:DG:H2'	1:A:2:DG:H2''	8	0.2
(1,725)	1:B:2:DG:H2'	1:B:2:DG:H2''	8	0.2
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	10	0.2
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	10	0.2
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	10	0.2
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	10	0.2
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	6	0.2
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	6	0.2
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	6	0.2
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	6	0.2
(1,713)	1:A:2:DG:H1'	1:A:2:DG:H4'	4	0.2
(1,713)	1:A:2:DG:H1'	1:B:2:DG:H4'	4	0.2
(1,713)	1:B:2:DG:H1'	1:A:2:DG:H4'	4	0.2
(1,713)	1:B:2:DG:H1'	1:B:2:DG:H4'	4	0.2
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	2	0.2
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	2	0.2
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	2	0.2
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	2	0.2
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	4	0.2
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	4	0.2
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	4	0.2
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	5	0.2
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	5	0.2
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	5	0.2
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	5	0.2
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	9	0.2
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	9	0.2
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	9	0.2
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	9	0.2
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	8	0.2
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	8	0.2
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	8	0.2
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	8	0.2
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	9	0.2
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	9	0.2
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	9	0.2
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	9	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	1	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	1	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	1	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	1	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	2	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	2	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	2	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	2	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	3	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	3	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	3	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	3	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	4	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	4	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	4	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	4	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	5	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	5	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	5	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	5	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	6	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	6	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	6	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	7	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	7	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	7	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	7	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	8	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	8	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	8	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	8	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	9	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	9	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	9	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	9	0.2
(1,684)	1:A:1:DA:H2'	1:A:1:DA:H2''	10	0.2
(1,684)	1:A:1:DA:H2'	1:B:1:DA:H2''	10	0.2
(1,684)	1:B:1:DA:H2'	1:A:1:DA:H2''	10	0.2
(1,684)	1:B:1:DA:H2'	1:B:1:DA:H2''	10	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	1	0.2
(1,658)	1:A:18:DG:H2'	1:B:18:DG:H2''	1	0.2
(1,658)	1:B:18:DG:H2'	1:A:18:DG:H2''	1	0.2
(1,658)	1:B:18:DG:H2'	1:B:18:DG:H2''	1	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	2	0.2
(1,658)	1:A:18:DG:H2'	1:B:18:DG:H2''	2	0.2
(1,658)	1:B:18:DG:H2'	1:A:18:DG:H2''	2	0.2
(1,658)	1:B:18:DG:H2'	1:B:18:DG:H2''	2	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	3	0.2
(1,658)	1:A:18:DG:H2'	1:B:18:DG:H2''	3	0.2
(1,658)	1:B:18:DG:H2'	1:A:18:DG:H2''	3	0.2
(1,658)	1:B:18:DG:H2'	1:B:18:DG:H2''	3	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	4	0.2
(1,658)	1:A:18:DG:H2'	1:B:18:DG:H2''	4	0.2
(1,658)	1:B:18:DG:H2'	1:A:18:DG:H2''	4	0.2
(1,658)	1:B:18:DG:H2'	1:B:18:DG:H2''	4	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	5	0.2
(1,658)	1:A:18:DG:H2'	1:B:18:DG:H2''	5	0.2
(1,658)	1:B:18:DG:H2'	1:A:18:DG:H2''	5	0.2
(1,658)	1:B:18:DG:H2'	1:B:18:DG:H2''	5	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	6	0.2
(1,658)	1:A:18:DG:H2'	1:B:18:DG:H2''	6	0.2
(1,658)	1:B:18:DG:H2'	1:A:18:DG:H2''	6	0.2
(1,658)	1:B:18:DG:H2'	1:B:18:DG:H2''	6	0.2
(1,658)	1:A:18:DG:H2'	1:A:18:DG:H2''	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	7	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	7	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	7	0.2
(1,658)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	8	0.2
(1,658)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	8	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	8	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	8	0.2
(1,658)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	9	0.2
(1,658)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	9	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	9	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	9	0.2
(1,658)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	10	0.2
(1,658)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	10	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	10	0.2
(1,658)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	10	0.2
(1,656)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	7	0.2
(1,656)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	7	0.2
(1,656)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H3 <sup>?</sup>	7	0.2
(1,656)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H3 <sup>?</sup>	7	0.2
(1,654)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	6	0.2
(1,654)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	6	0.2
(1,654)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	6	0.2
(1,654)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	6	0.2
(1,654)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	7	0.2
(1,654)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	7	0.2
(1,654)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	7	0.2
(1,654)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	7	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	1	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	1	0.2
(1,636)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	1	0.2
(1,636)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	1	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	2	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	2	0.2
(1,636)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	2	0.2
(1,636)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	2	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	3	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	3	0.2
(1,636)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	3	0.2
(1,636)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	3	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	4	0.2
(1,636)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	4	0.2
(1,636)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	4	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	5	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	5	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	5	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	5	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	6	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	6	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	6	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	6	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	7	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	7	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	7	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	7	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	8	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	8	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	8	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	8	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	9	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	9	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	9	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	9	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	10	0.2
(1,636)	1:A:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	10	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:A:17:DG:H2 <sup>3</sup>	10	0.2
(1,636)	1:B:17:DG:H2 <sup>3</sup>	1:B:17:DG:H2 <sup>3</sup>	10	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	1	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	1	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	1	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	1	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	4	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	4	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	4	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	4	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	5	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	5	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	5	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	5	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	6	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	6	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	6	0.2
(1,599)	1:B:15:DG:H2 <sup>3</sup>	1:B:15:DG:H2 <sup>3</sup>	6	0.2
(1,599)	1:A:15:DG:H2 <sup>3</sup>	1:A:15:DG:H2 <sup>3</sup>	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,599)	1:A:15:DG:H2'	1:B:15:DG:H2''	7	0.2
(1,599)	1:B:15:DG:H2'	1:A:15:DG:H2''	7	0.2
(1,599)	1:B:15:DG:H2'	1:B:15:DG:H2''	7	0.2
(1,599)	1:A:15:DG:H2'	1:A:15:DG:H2''	8	0.2
(1,599)	1:A:15:DG:H2'	1:B:15:DG:H2''	8	0.2
(1,599)	1:B:15:DG:H2'	1:A:15:DG:H2''	8	0.2
(1,599)	1:B:15:DG:H2'	1:B:15:DG:H2''	8	0.2
(1,599)	1:A:15:DG:H2'	1:A:15:DG:H2''	9	0.2
(1,599)	1:A:15:DG:H2'	1:B:15:DG:H2''	9	0.2
(1,599)	1:B:15:DG:H2'	1:A:15:DG:H2''	9	0.2
(1,599)	1:B:15:DG:H2'	1:B:15:DG:H2''	9	0.2
(1,599)	1:A:15:DG:H2'	1:A:15:DG:H2''	10	0.2
(1,599)	1:A:15:DG:H2'	1:B:15:DG:H2''	10	0.2
(1,599)	1:B:15:DG:H2'	1:A:15:DG:H2''	10	0.2
(1,599)	1:B:15:DG:H2'	1:B:15:DG:H2''	10	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	1	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	1	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	1	0.2
(1,578)	1:B:14:DG:H2'	1:B:14:DG:H2''	1	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	2	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	2	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	2	0.2
(1,578)	1:B:14:DG:H2'	1:B:14:DG:H2''	2	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	3	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	3	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	3	0.2
(1,578)	1:B:14:DG:H2'	1:B:14:DG:H2''	3	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	4	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	4	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	4	0.2
(1,578)	1:B:14:DG:H2'	1:B:14:DG:H2''	4	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	5	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	5	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	5	0.2
(1,578)	1:B:14:DG:H2'	1:B:14:DG:H2''	5	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	6	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	6	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	6	0.2
(1,578)	1:B:14:DG:H2'	1:B:14:DG:H2''	6	0.2
(1,578)	1:A:14:DG:H2'	1:A:14:DG:H2''	7	0.2
(1,578)	1:A:14:DG:H2'	1:B:14:DG:H2''	7	0.2
(1,578)	1:B:14:DG:H2'	1:A:14:DG:H2''	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,578)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	7	0.2
(1,578)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	8	0.2
(1,578)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	8	0.2
(1,578)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	8	0.2
(1,578)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	8	0.2
(1,578)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	9	0.2
(1,578)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	9	0.2
(1,578)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	9	0.2
(1,578)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	9	0.2
(1,578)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	10	0.2
(1,578)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	10	0.2
(1,578)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	10	0.2
(1,578)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	10	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	1	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	1	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	1	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	1	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	2	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	2	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	2	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	2	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	3	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	3	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	3	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	3	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	4	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	4	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	4	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	4	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	5	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	5	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	5	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	5	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	6	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	6	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	6	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	6	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	7	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	7	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	7	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	7	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	8	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	8	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	8	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	9	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	9	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	9	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	9	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	10	0.2
(1,559)	1:A:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	10	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:A:13:DG:H2 <sup>?</sup>	10	0.2
(1,559)	1:B:13:DG:H2 <sup>?</sup>	1:B:13:DG:H2 <sup>?</sup>	10	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	1	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	1	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	1	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	1	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	2	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	2	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	2	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	2	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	4	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	4	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	4	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	4	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	5	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	5	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	5	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	5	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	6	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	6	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	6	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	6	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	8	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	8	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	8	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	8	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	10	0.2
(1,517)	1:A:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	10	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	10	0.2
(1,517)	1:B:11:DG:H2 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	10	0.2
(1,507)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	10	0.2
(1,507)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H4 <sup>?</sup>	10	0.2
(1,507)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H4 <sup>?</sup>	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	10	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	1	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	1	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	1	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	1	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	2	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	2	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	2	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	2	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	3	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	3	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	3	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	3	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	4	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	4	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	4	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	4	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	5	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	5	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	5	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	5	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	6	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	6	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	6	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	6	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	7	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	7	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	7	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	7	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	8	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	8	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	8	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	8	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	9	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	9	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	9	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	9	0.2
(1,499)	1:A:10:DG:H2'	1:A:10:DG:H2''	10	0.2
(1,499)	1:A:10:DG:H2'	1:B:10:DG:H2''	10	0.2
(1,499)	1:B:10:DG:H2'	1:A:10:DG:H2''	10	0.2
(1,499)	1:B:10:DG:H2'	1:B:10:DG:H2''	10	0.2
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	10	0.2
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	10	0.2
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	10	0.2
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	2	0.2
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	2	0.2
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	2	0.2
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	2	0.2
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	3	0.2
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	3	0.2
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	3	0.2
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	3	0.2
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	4	0.2
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	4	0.2
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	4	0.2
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	4	0.2
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	7	0.2
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	7	0.2
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	7	0.2
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	7	0.2
(1,445)	1:A:7:DG:H2'	1:A:7:DG:H2''	8	0.2
(1,445)	1:A:7:DG:H2'	1:B:7:DG:H2''	8	0.2
(1,445)	1:B:7:DG:H2'	1:A:7:DG:H2''	8	0.2
(1,445)	1:B:7:DG:H2'	1:B:7:DG:H2''	8	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	1	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	1	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	1	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	1	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	2	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	2	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	2	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	2	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	3	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	3	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	3	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	3	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	4	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	4	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	4	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	4	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	5	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	5	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	5	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	6	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	6	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	6	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	6	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	7	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	7	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	7	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	7	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	8	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	8	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	8	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	8	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	9	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	9	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	9	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	9	0.2
(1,425)	1:A:6:DG:H2'	1:A:6:DG:H2''	10	0.2
(1,425)	1:A:6:DG:H2'	1:B:6:DG:H2''	10	0.2
(1,425)	1:B:6:DG:H2'	1:A:6:DG:H2''	10	0.2
(1,425)	1:B:6:DG:H2'	1:B:6:DG:H2''	10	0.2
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	3	0.2
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	3	0.2
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	3	0.2
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	3	0.2
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	9	0.2
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	9	0.2
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	9	0.2
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	9	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	1	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	1	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	1	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	1	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	2	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	2	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	2	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	2	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	3	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	3	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	3	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	3	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	4	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	4	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	4	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	5	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	5	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	5	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	5	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	6	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	6	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	6	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	6	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	7	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	7	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	7	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	7	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	8	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	8	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	8	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	8	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	9	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	9	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	9	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	9	0.2
(1,393)	1:A:5:DG:H2'	1:A:5:DG:H2''	10	0.2
(1,393)	1:A:5:DG:H2'	1:B:5:DG:H2''	10	0.2
(1,393)	1:B:5:DG:H2'	1:A:5:DG:H2''	10	0.2
(1,393)	1:B:5:DG:H2'	1:B:5:DG:H2''	10	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	1	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	1	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	1	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	1	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	2	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	2	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	2	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	2	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	3	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	3	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	3	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	3	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	4	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	4	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	4	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	5	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	5	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	5	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	5	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	6	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	6	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	6	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	6	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	7	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	7	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	7	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	7	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	8	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	8	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	8	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	8	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	9	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	9	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	9	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	9	0.2
(1,376)	1:A:4:DG:H2'	1:A:4:DG:H2''	10	0.2
(1,376)	1:A:4:DG:H2'	1:B:4:DG:H2''	10	0.2
(1,376)	1:B:4:DG:H2'	1:A:4:DG:H2''	10	0.2
(1,376)	1:B:4:DG:H2'	1:B:4:DG:H2''	10	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	1	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	1	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	1	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	1	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	2	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	2	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	2	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	2	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	3	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	3	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	3	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	3	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	4	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	4	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	4	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	4	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	5	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	5	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	5	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	6	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	6	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	6	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	6	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	7	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	7	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	7	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	7	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	8	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	8	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	8	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	8	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	9	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	9	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	9	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	9	0.2
(1,331)	1:A:3:DG:H2'	1:A:3:DG:H2''	10	0.2
(1,331)	1:A:3:DG:H2'	1:B:3:DG:H2''	10	0.2
(1,331)	1:B:3:DG:H2'	1:A:3:DG:H2''	10	0.2
(1,331)	1:B:3:DG:H2'	1:B:3:DG:H2''	10	0.2
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	2	0.2
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	2	0.2
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	2	0.2
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	2	0.2
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	3	0.2
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	3	0.2
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	3	0.2
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	3	0.2
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	5	0.2
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	5	0.2
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	5	0.2
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	5	0.2
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	6	0.2
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	6	0.2
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	6	0.2
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	6	0.2
(1,290)	1:A:2:DG:H2'	1:A:2:DG:H2''	8	0.2
(1,290)	1:A:2:DG:H2'	1:B:2:DG:H2''	8	0.2
(1,290)	1:B:2:DG:H2'	1:A:2:DG:H2''	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,290)	1:B:2:DG:H2'	1:B:2:DG:H2''	8	0.2
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	10	0.2
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	10	0.2
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	10	0.2
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	10	0.2
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	6	0.2
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	6	0.2
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	6	0.2
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	6	0.2
(1,278)	1:A:2:DG:H1'	1:A:2:DG:H4'	4	0.2
(1,278)	1:A:2:DG:H1'	1:B:2:DG:H4'	4	0.2
(1,278)	1:B:2:DG:H1'	1:A:2:DG:H4'	4	0.2
(1,278)	1:B:2:DG:H1'	1:B:2:DG:H4'	4	0.2
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	2	0.2
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	2	0.2
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	2	0.2
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	2	0.2
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	4	0.2
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	4	0.2
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	4	0.2
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	4	0.2
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	5	0.2
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	5	0.2
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	5	0.2
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	5	0.2
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	9	0.2
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	9	0.2
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	9	0.2
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	9	0.2
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	8	0.2
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	8	0.2
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	8	0.2
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	8	0.2
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	9	0.2
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	9	0.2
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	9	0.2
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	9	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	1	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	1	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	1	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	1	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	2	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	2	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	2	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	3	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	3	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	3	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	3	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	4	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	4	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	4	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	4	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	5	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	5	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	5	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	5	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	6	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	6	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	6	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	6	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	7	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	7	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	7	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	7	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	8	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	8	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	8	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	8	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	9	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	9	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	9	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	9	0.2
(1,249)	1:A:1:DA:H2'	1:A:1:DA:H2''	10	0.2
(1,249)	1:A:1:DA:H2'	1:B:1:DA:H2''	10	0.2
(1,249)	1:B:1:DA:H2'	1:A:1:DA:H2''	10	0.2
(1,249)	1:B:1:DA:H2'	1:B:1:DA:H2''	10	0.2
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	4	0.2
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	4	0.2
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	4	0.2
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	4	0.2
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	6	0.2
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	6	0.2
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	6	0.2
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	7	0.2
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	7	0.2
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	7	0.2
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	7	0.2
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	8	0.2
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	8	0.2
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	8	0.2
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	8	0.2
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	10	0.2
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	10	0.2
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	10	0.2
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	10	0.2
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	6	0.2
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	6	0.2
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	6	0.2
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	6	0.2
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	8	0.2
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	8	0.2
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	8	0.2
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	8	0.2
(1,1178)	1:A:17:DG:N1	1:A:5:DG:O6	3	0.2
(1,1178)	1:A:17:DG:N1	1:B:5:DG:O6	3	0.2
(1,1178)	1:B:17:DG:N1	1:A:5:DG:O6	3	0.2
(1,1178)	1:B:17:DG:N1	1:B:5:DG:O6	3	0.2
(1,1177)	1:A:17:DG:H1	1:A:5:DG:O6	7	0.2
(1,1177)	1:A:17:DG:H1	1:B:5:DG:O6	7	0.2
(1,1177)	1:B:17:DG:H1	1:A:5:DG:O6	7	0.2
(1,1177)	1:B:17:DG:H1	1:B:5:DG:O6	7	0.2
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	5	0.2
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	5	0.2
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	5	0.2
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	5	0.2
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	1	0.2
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	1	0.2
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	1	0.2
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	1	0.2
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	2	0.2
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	2	0.2
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	2	0.2
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	2	0.2
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	2	0.2
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	2	0.2
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	2	0.2
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	4	0.2
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	4	0.2
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	4	0.2
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	4	0.2
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	9	0.2
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	9	0.2
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	9	0.2
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	9	0.2
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	3	0.2
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	3	0.2
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	3	0.2
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	3	0.2
(1,1157)	1:A:15:DG:H1	1:A:3:DG:O6	6	0.2
(1,1157)	1:A:15:DG:H1	1:B:3:DG:O6	6	0.2
(1,1157)	1:B:15:DG:H1	1:A:3:DG:O6	6	0.2
(1,1157)	1:B:15:DG:H1	1:B:3:DG:O6	6	0.2
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	9	0.2
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	9	0.2
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	9	0.2
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	9	0.2
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	4	0.2
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	4	0.2
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	4	0.2
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	4	0.2
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	1	0.2
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	1	0.2
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	1	0.2
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	1	0.2
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	10	0.2
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	10	0.2
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	10	0.2
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	10	0.2
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	4	0.2
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	4	0.2
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	4	0.2
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	4	0.2
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	6	0.2
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	6	0.2
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	6	0.2
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	7	0.2
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	7	0.2
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	7	0.2
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	7	0.2
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	8	0.2
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	8	0.2
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	8	0.2
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	8	0.2
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	10	0.2
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	10	0.2
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	10	0.2
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	10	0.2
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	6	0.2
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	6	0.2
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	6	0.2
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	6	0.2
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	8	0.2
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	8	0.2
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	8	0.2
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	8	0.2
(1,1130)	1:A:17:DG:N1	1:A:5:DG:O6	3	0.2
(1,1130)	1:A:17:DG:N1	1:B:5:DG:O6	3	0.2
(1,1130)	1:B:17:DG:N1	1:A:5:DG:O6	3	0.2
(1,1130)	1:B:17:DG:N1	1:B:5:DG:O6	3	0.2
(1,1129)	1:A:17:DG:H1	1:A:5:DG:O6	7	0.2
(1,1129)	1:A:17:DG:H1	1:B:5:DG:O6	7	0.2
(1,1129)	1:B:17:DG:H1	1:A:5:DG:O6	7	0.2
(1,1129)	1:B:17:DG:H1	1:B:5:DG:O6	7	0.2
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	5	0.2
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	5	0.2
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	5	0.2
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	5	0.2
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	1	0.2
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	1	0.2
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	1	0.2
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	1	0.2
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	2	0.2
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	2	0.2
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	2	0.2
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	2	0.2
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	2	0.2
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	2	0.2
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	2	0.2
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	4	0.2
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	4	0.2
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	4	0.2
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	4	0.2
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	9	0.2
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	9	0.2
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	9	0.2
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	9	0.2
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	3	0.2
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	3	0.2
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	3	0.2
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	3	0.2
(1,1109)	1:A:15:DG:H1	1:A:3:DG:O6	6	0.2
(1,1109)	1:A:15:DG:H1	1:B:3:DG:O6	6	0.2
(1,1109)	1:B:15:DG:H1	1:A:3:DG:O6	6	0.2
(1,1109)	1:B:15:DG:H1	1:B:3:DG:O6	6	0.2
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	9	0.2
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	9	0.2
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	9	0.2
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	9	0.2
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	4	0.2
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	4	0.2
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	4	0.2
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	4	0.2
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	1	0.2
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	1	0.2
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	1	0.2
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	1	0.2
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	10	0.2
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	10	0.2
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	10	0.2
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	10	0.2
(1,1093)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	1	0.2
(1,1093)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	1	0.2
(1,1093)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	1	0.2
(1,1093)	1:B:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	1	0.2
(1,1093)	1:A:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	2	0.2
(1,1093)	1:A:18:DG:H2 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	2	0.2
(1,1093)	1:B:18:DG:H2 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	2	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	3	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	3	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	3	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	3	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	4	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	4	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	4	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	4	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	5	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	5	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	5	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	5	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	6	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	6	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	6	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	6	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	7	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	7	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	7	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	7	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	8	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	8	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	8	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	8	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	9	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	9	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	9	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	9	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	10	0.2
(1,1093)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	10	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	10	0.2
(1,1093)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	10	0.2
(1,1091)	1:A:18:DG:H2 <sup>7</sup>	1:A:18:DG:H3 <sup>7</sup>	7	0.2
(1,1091)	1:A:18:DG:H2 <sup>7</sup>	1:B:18:DG:H3 <sup>7</sup>	7	0.2
(1,1091)	1:B:18:DG:H2 <sup>7</sup>	1:A:18:DG:H3 <sup>7</sup>	7	0.2
(1,1091)	1:B:18:DG:H2 <sup>7</sup>	1:B:18:DG:H3 <sup>7</sup>	7	0.2
(1,1089)	1:A:18:DG:H1 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	6	0.2
(1,1089)	1:A:18:DG:H1 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	6	0.2
(1,1089)	1:B:18:DG:H1 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	6	0.2
(1,1089)	1:B:18:DG:H1 <sup>7</sup>	1:B:18:DG:H2 <sup>7</sup>	6	0.2
(1,1089)	1:A:18:DG:H1 <sup>7</sup>	1:A:18:DG:H2 <sup>7</sup>	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	7	0.2
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	7	0.2
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	7	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	1	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	1	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	1	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	1	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	2	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	2	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	2	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	2	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	3	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	3	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	3	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	3	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	4	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	4	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	4	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	4	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	5	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	5	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	5	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	5	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	6	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	6	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	6	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	6	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	7	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	7	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	7	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	7	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	8	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	8	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	8	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	8	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	9	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	9	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	9	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	9	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	10	0.2
(1,1071)	1:A:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	10	0.2
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:A:17:DG:H2 <sup>?</sup>	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1071)	1:B:17:DG:H2 <sup>?</sup>	1:B:17:DG:H2 <sup>?</sup>	10	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	1	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	1	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	1	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	1	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	4	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	4	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	4	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	4	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	5	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	5	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	5	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	5	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	6	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	6	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	6	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	6	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	7	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	7	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	7	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	7	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	8	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	8	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	8	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	8	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	9	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	9	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	9	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	9	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	10	0.2
(1,1034)	1:A:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	10	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:A:15:DG:H2 <sup>?</sup>	10	0.2
(1,1034)	1:B:15:DG:H2 <sup>?</sup>	1:B:15:DG:H2 <sup>?</sup>	10	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	1	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	1	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	1	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	1	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	2	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	2	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	2	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	2	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	3	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	3	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	3	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	4	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	4	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	4	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	4	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	5	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	5	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	5	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	5	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	6	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	6	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	6	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	6	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	7	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	7	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	7	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	7	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	8	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	8	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	8	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	8	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	9	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	9	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	9	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	9	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	10	0.2
(1,1013)	1:A:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	10	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:A:14:DG:H2 <sup>?</sup>	10	0.2
(1,1013)	1:B:14:DG:H2 <sup>?</sup>	1:B:14:DG:H2 <sup>?</sup>	10	0.2
(1,961)	1:A:11:DG:H4 <sup>?</sup>	1:A:12:DA:H3 <sup>?</sup>	6	0.19
(1,961)	1:A:11:DG:H4 <sup>?</sup>	1:B:12:DA:H3 <sup>?</sup>	6	0.19
(1,961)	1:B:11:DG:H4 <sup>?</sup>	1:A:12:DA:H3 <sup>?</sup>	6	0.19
(1,961)	1:B:11:DG:H4 <sup>?</sup>	1:B:12:DA:H3 <sup>?</sup>	6	0.19
(1,957)	1:A:11:DG:H4 <sup>?</sup>	1:A:12:DA:H8	9	0.19
(1,957)	1:A:11:DG:H4 <sup>?</sup>	1:B:12:DA:H8	9	0.19
(1,957)	1:B:11:DG:H4 <sup>?</sup>	1:A:12:DA:H8	9	0.19
(1,957)	1:B:11:DG:H4 <sup>?</sup>	1:B:12:DA:H8	9	0.19
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	4	0.19
(1,943)	1:A:11:DG:H1 <sup>?</sup>	1:B:11:DG:H2 <sup>?</sup>	4	0.19
(1,943)	1:B:11:DG:H1 <sup>?</sup>	1:A:11:DG:H2 <sup>?</sup>	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	4	0.19
(1,942)	1:A:11:DG:H1'	1:A:11:DG:H4'	2	0.19
(1,942)	1:A:11:DG:H1'	1:B:11:DG:H4'	2	0.19
(1,942)	1:B:11:DG:H1'	1:A:11:DG:H4'	2	0.19
(1,942)	1:B:11:DG:H1'	1:B:11:DG:H4'	2	0.19
(1,942)	1:A:11:DG:H1'	1:A:11:DG:H4'	4	0.19
(1,942)	1:A:11:DG:H1'	1:B:11:DG:H4'	4	0.19
(1,942)	1:B:11:DG:H1'	1:A:11:DG:H4'	4	0.19
(1,942)	1:B:11:DG:H1'	1:B:11:DG:H4'	4	0.19
(1,881)	1:A:7:DG:H4'	1:A:8:DA:H8	4	0.19
(1,881)	1:A:7:DG:H4'	1:B:8:DA:H8	4	0.19
(1,881)	1:B:7:DG:H4'	1:A:8:DA:H8	4	0.19
(1,881)	1:B:7:DG:H4'	1:B:8:DA:H8	4	0.19
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	2	0.19
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	2	0.19
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	2	0.19
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	2	0.19
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	3	0.19
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	3	0.19
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	3	0.19
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	3	0.19
(1,829)	1:A:5:DG:H1'	1:A:5:DG:H4'	10	0.19
(1,829)	1:A:5:DG:H1'	1:B:5:DG:H4'	10	0.19
(1,829)	1:B:5:DG:H1'	1:A:5:DG:H4'	10	0.19
(1,829)	1:B:5:DG:H1'	1:B:5:DG:H4'	10	0.19
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	1	0.19
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	1	0.19
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	1	0.19
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	1	0.19
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	4	0.19
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	4	0.19
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	4	0.19
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	4	0.19
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	7	0.19
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	7	0.19
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	7	0.19
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	7	0.19
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	8	0.19
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	8	0.19
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	8	0.19
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	8	0.19
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	9	0.19
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	9	0.19
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	9	0.19
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	10	0.19
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	10	0.19
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	10	0.19
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	10	0.19
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	3	0.19
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	3	0.19
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	3	0.19
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	3	0.19
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	8	0.19
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	8	0.19
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	8	0.19
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	8	0.19
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	9	0.19
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	9	0.19
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	9	0.19
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	9	0.19
(1,719)	1:A:2:DG:H4'	1:A:2:DG:H5'	4	0.19
(1,719)	1:A:2:DG:H4'	1:B:2:DG:H5'	4	0.19
(1,719)	1:B:2:DG:H4'	1:A:2:DG:H5'	4	0.19
(1,719)	1:B:2:DG:H4'	1:B:2:DG:H5'	4	0.19
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	6	0.19
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	6	0.19
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	6	0.19
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	6	0.19
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	10	0.19
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	10	0.19
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	10	0.19
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	10	0.19
(1,605)	1:A:16:DT:H1'	1:A:16:DT:H4'	6	0.19
(1,605)	1:A:16:DT:H1'	1:B:16:DT:H4'	6	0.19
(1,605)	1:B:16:DT:H1'	1:A:16:DT:H4'	6	0.19
(1,605)	1:B:16:DT:H1'	1:B:16:DT:H4'	6	0.19
(1,605)	1:A:16:DT:H1'	1:A:16:DT:H4'	8	0.19
(1,605)	1:A:16:DT:H1'	1:B:16:DT:H4'	8	0.19
(1,605)	1:B:16:DT:H1'	1:A:16:DT:H4'	8	0.19
(1,605)	1:B:16:DT:H1'	1:B:16:DT:H4'	8	0.19
(1,581)	1:A:14:DG:H1'	1:A:15:DG:H8	4	0.19
(1,581)	1:A:14:DG:H1'	1:B:15:DG:H8	4	0.19
(1,581)	1:B:14:DG:H1'	1:A:15:DG:H8	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,581)	1:B:14:DG:H1'	1:B:15:DG:H8	4	0.19
(1,526)	1:A:11:DG:H4'	1:A:12:DA:H3'	6	0.19
(1,526)	1:A:11:DG:H4'	1:B:12:DA:H3'	6	0.19
(1,526)	1:B:11:DG:H4'	1:A:12:DA:H3'	6	0.19
(1,526)	1:B:11:DG:H4'	1:B:12:DA:H3'	6	0.19
(1,522)	1:A:11:DG:H4'	1:A:12:DA:H8	9	0.19
(1,522)	1:A:11:DG:H4'	1:B:12:DA:H8	9	0.19
(1,522)	1:B:11:DG:H4'	1:A:12:DA:H8	9	0.19
(1,522)	1:B:11:DG:H4'	1:B:12:DA:H8	9	0.19
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	4	0.19
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	4	0.19
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	4	0.19
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	4	0.19
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	2	0.19
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	2	0.19
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	2	0.19
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	2	0.19
(1,507)	1:A:11:DG:H1'	1:A:11:DG:H4'	4	0.19
(1,507)	1:A:11:DG:H1'	1:B:11:DG:H4'	4	0.19
(1,507)	1:B:11:DG:H1'	1:A:11:DG:H4'	4	0.19
(1,507)	1:B:11:DG:H1'	1:B:11:DG:H4'	4	0.19
(1,446)	1:A:7:DG:H4'	1:A:8:DA:H8	4	0.19
(1,446)	1:A:7:DG:H4'	1:B:8:DA:H8	4	0.19
(1,446)	1:B:7:DG:H4'	1:A:8:DA:H8	4	0.19
(1,446)	1:B:7:DG:H4'	1:B:8:DA:H8	4	0.19
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	2	0.19
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	2	0.19
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	2	0.19
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	2	0.19
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	3	0.19
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	3	0.19
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	3	0.19
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	3	0.19
(1,394)	1:A:5:DG:H1'	1:A:5:DG:H4'	10	0.19
(1,394)	1:A:5:DG:H1'	1:B:5:DG:H4'	10	0.19
(1,394)	1:B:5:DG:H1'	1:A:5:DG:H4'	10	0.19
(1,394)	1:B:5:DG:H1'	1:B:5:DG:H4'	10	0.19
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	1	0.19
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	1	0.19
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	1	0.19
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	1	0.19
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	4	0.19
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	4	0.19
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	4	0.19
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	7	0.19
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	7	0.19
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	7	0.19
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	7	0.19
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	8	0.19
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	8	0.19
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	8	0.19
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	8	0.19
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	9	0.19
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	9	0.19
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	9	0.19
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	9	0.19
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	10	0.19
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	10	0.19
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	10	0.19
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	10	0.19
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	3	0.19
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	3	0.19
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	3	0.19
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	3	0.19
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	8	0.19
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	8	0.19
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	8	0.19
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	8	0.19
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	9	0.19
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	9	0.19
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	9	0.19
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	9	0.19
(1,284)	1:A:2:DG:H4'	1:A:2:DG:H5'	4	0.19
(1,284)	1:A:2:DG:H4'	1:B:2:DG:H5'	4	0.19
(1,284)	1:B:2:DG:H4'	1:A:2:DG:H5'	4	0.19
(1,284)	1:B:2:DG:H4'	1:B:2:DG:H5'	4	0.19
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	6	0.19
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	6	0.19
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	6	0.19
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	6	0.19
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	2	0.19
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	2	0.19
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	2	0.19
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	3	0.19
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	3	0.19
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	3	0.19
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	3	0.19
(1,1179)	1:A:5:DG:H21	1:A:9:DG:N7	4	0.19
(1,1179)	1:A:5:DG:H21	1:B:9:DG:N7	4	0.19
(1,1179)	1:B:5:DG:H21	1:A:9:DG:N7	4	0.19
(1,1179)	1:B:5:DG:H21	1:B:9:DG:N7	4	0.19
(1,1177)	1:A:17:DG:H1	1:A:5:DG:O6	8	0.19
(1,1177)	1:A:17:DG:H1	1:B:5:DG:O6	8	0.19
(1,1177)	1:B:17:DG:H1	1:A:5:DG:O6	8	0.19
(1,1177)	1:B:17:DG:H1	1:B:5:DG:O6	8	0.19
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	3	0.19
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	3	0.19
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	3	0.19
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	3	0.19
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	7	0.19
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	7	0.19
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	7	0.19
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	7	0.19
(1,1165)	1:A:6:DG:H1	1:A:10:DG:O6	6	0.19
(1,1165)	1:A:6:DG:H1	1:B:10:DG:O6	6	0.19
(1,1165)	1:B:6:DG:H1	1:A:10:DG:O6	6	0.19
(1,1165)	1:B:6:DG:H1	1:B:10:DG:O6	6	0.19
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	4	0.19
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	4	0.19
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	4	0.19
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	4	0.19
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	8	0.19
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	8	0.19
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	8	0.19
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	8	0.19
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	5	0.19
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	5	0.19
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	5	0.19
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	5	0.19
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	1	0.19
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	1	0.19
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	1	0.19
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	1	0.19
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	3	0.19
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	3	0.19
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	3	0.19
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	5	0.19
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	5	0.19
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	5	0.19
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	5	0.19
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	8	0.19
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	8	0.19
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	8	0.19
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	8	0.19
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	6	0.19
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	6	0.19
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	6	0.19
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	6	0.19
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	5	0.19
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	5	0.19
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	5	0.19
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	5	0.19
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	3	0.19
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	3	0.19
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	3	0.19
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	3	0.19
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	2	0.19
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	2	0.19
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	2	0.19
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	2	0.19
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	3	0.19
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	3	0.19
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	3	0.19
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	3	0.19
(1,1131)	1:A:5:DG:H21	1:A:9:DG:N7	4	0.19
(1,1131)	1:A:5:DG:H21	1:B:9:DG:N7	4	0.19
(1,1131)	1:B:5:DG:H21	1:A:9:DG:N7	4	0.19
(1,1131)	1:B:5:DG:H21	1:B:9:DG:N7	4	0.19
(1,1129)	1:A:17:DG:H1	1:A:5:DG:O6	8	0.19
(1,1129)	1:A:17:DG:H1	1:B:5:DG:O6	8	0.19
(1,1129)	1:B:17:DG:H1	1:A:5:DG:O6	8	0.19
(1,1129)	1:B:17:DG:H1	1:B:5:DG:O6	8	0.19
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	3	0.19
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	3	0.19
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	3	0.19
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	7	0.19
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	7	0.19
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	7	0.19
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	7	0.19
(1,1117)	1:A:6:DG:H1	1:A:10:DG:O6	6	0.19
(1,1117)	1:A:6:DG:H1	1:B:10:DG:O6	6	0.19
(1,1117)	1:B:6:DG:H1	1:A:10:DG:O6	6	0.19
(1,1117)	1:B:6:DG:H1	1:B:10:DG:O6	6	0.19
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	4	0.19
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	4	0.19
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	4	0.19
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	4	0.19
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	8	0.19
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	8	0.19
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	8	0.19
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	8	0.19
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	5	0.19
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	5	0.19
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	5	0.19
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	5	0.19
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	1	0.19
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	1	0.19
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	1	0.19
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	1	0.19
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	3	0.19
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	3	0.19
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	3	0.19
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	3	0.19
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	5	0.19
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	5	0.19
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	5	0.19
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	5	0.19
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	8	0.19
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	8	0.19
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	8	0.19
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	8	0.19
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	6	0.19
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	6	0.19
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	6	0.19
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	6	0.19
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	5	0.19
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	5	0.19
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	5	0.19
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	3	0.19
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	3	0.19
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	3	0.19
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	3	0.19
(1,1089)	1:A:18:DG:H1'	1:A:18:DG:H2''	10	0.19
(1,1089)	1:A:18:DG:H1'	1:B:18:DG:H2''	10	0.19
(1,1089)	1:B:18:DG:H1'	1:A:18:DG:H2''	10	0.19
(1,1089)	1:B:18:DG:H1'	1:B:18:DG:H2''	10	0.19
(1,1040)	1:A:16:DT:H1'	1:A:16:DT:H4'	6	0.19
(1,1040)	1:A:16:DT:H1'	1:B:16:DT:H4'	6	0.19
(1,1040)	1:B:16:DT:H1'	1:A:16:DT:H4'	6	0.19
(1,1040)	1:B:16:DT:H1'	1:B:16:DT:H4'	6	0.19
(1,1040)	1:A:16:DT:H1'	1:A:16:DT:H4'	8	0.19
(1,1040)	1:A:16:DT:H1'	1:B:16:DT:H4'	8	0.19
(1,1040)	1:B:16:DT:H1'	1:A:16:DT:H4'	8	0.19
(1,1040)	1:B:16:DT:H1'	1:B:16:DT:H4'	8	0.19
(1,1016)	1:A:14:DG:H1'	1:A:15:DG:H8	4	0.19
(1,1016)	1:A:14:DG:H1'	1:B:15:DG:H8	4	0.19
(1,1016)	1:B:14:DG:H1'	1:A:15:DG:H8	4	0.19
(1,1016)	1:B:14:DG:H1'	1:B:15:DG:H8	4	0.19
(1,954)	1:A:11:DG:H2'	1:A:11:DG:H8	5	0.18
(1,954)	1:A:11:DG:H2'	1:B:11:DG:H8	5	0.18
(1,954)	1:B:11:DG:H2'	1:A:11:DG:H8	5	0.18
(1,954)	1:B:11:DG:H2'	1:B:11:DG:H8	5	0.18
(1,943)	1:A:11:DG:H1'	1:A:11:DG:H2''	2	0.18
(1,943)	1:A:11:DG:H1'	1:B:11:DG:H2''	2	0.18
(1,943)	1:B:11:DG:H1'	1:A:11:DG:H2''	2	0.18
(1,943)	1:B:11:DG:H1'	1:B:11:DG:H2''	2	0.18
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	10	0.18
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	10	0.18
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	10	0.18
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	10	0.18
(1,872)	1:A:7:DG:H1'	1:A:7:DG:H2''	1	0.18
(1,872)	1:A:7:DG:H1'	1:B:7:DG:H2''	1	0.18
(1,872)	1:B:7:DG:H1'	1:A:7:DG:H2''	1	0.18
(1,872)	1:B:7:DG:H1'	1:B:7:DG:H2''	1	0.18
(1,760)	1:A:3:DG:H4'	1:A:3:DG:H5'	6	0.18
(1,760)	1:A:3:DG:H4'	1:B:3:DG:H5'	6	0.18
(1,760)	1:B:3:DG:H4'	1:A:3:DG:H5'	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,760)	1:B:3:DG:H4'	1:B:3:DG:H5'	6	0.18
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	10	0.18
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	10	0.18
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	10	0.18
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	10	0.18
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	6	0.18
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	6	0.18
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	6	0.18
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	6	0.18
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	7	0.18
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	7	0.18
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	7	0.18
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	7	0.18
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	7	0.18
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	7	0.18
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	7	0.18
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	7	0.18
(1,690)	1:A:1:DA:H1'	1:A:1:DA:H3'	6	0.18
(1,690)	1:A:1:DA:H1'	1:B:1:DA:H3'	6	0.18
(1,690)	1:B:1:DA:H1'	1:A:1:DA:H3'	6	0.18
(1,690)	1:B:1:DA:H1'	1:B:1:DA:H3'	6	0.18
(1,519)	1:A:11:DG:H2''	1:A:11:DG:H8	5	0.18
(1,519)	1:A:11:DG:H2''	1:B:11:DG:H8	5	0.18
(1,519)	1:B:11:DG:H2''	1:A:11:DG:H8	5	0.18
(1,519)	1:B:11:DG:H2''	1:B:11:DG:H8	5	0.18
(1,508)	1:A:11:DG:H1'	1:A:11:DG:H2''	2	0.18
(1,508)	1:A:11:DG:H1'	1:B:11:DG:H2''	2	0.18
(1,508)	1:B:11:DG:H1'	1:A:11:DG:H2''	2	0.18
(1,508)	1:B:11:DG:H1'	1:B:11:DG:H2''	2	0.18
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	10	0.18
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	10	0.18
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	10	0.18
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	10	0.18
(1,437)	1:A:7:DG:H1'	1:A:7:DG:H2''	1	0.18
(1,437)	1:A:7:DG:H1'	1:B:7:DG:H2''	1	0.18
(1,437)	1:B:7:DG:H1'	1:A:7:DG:H2''	1	0.18
(1,437)	1:B:7:DG:H1'	1:B:7:DG:H2''	1	0.18
(1,325)	1:A:3:DG:H4'	1:A:3:DG:H5'	6	0.18
(1,325)	1:A:3:DG:H4'	1:B:3:DG:H5'	6	0.18
(1,325)	1:B:3:DG:H4'	1:A:3:DG:H5'	6	0.18
(1,325)	1:B:3:DG:H4'	1:B:3:DG:H5'	6	0.18
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	10	0.18
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	10	0.18
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	10	0.18
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	6	0.18
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	6	0.18
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	6	0.18
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	6	0.18
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	7	0.18
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	7	0.18
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	7	0.18
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	7	0.18
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	7	0.18
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	7	0.18
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	7	0.18
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	7	0.18
(1,255)	1:A:1:DA:H1'	1:A:1:DA:H3'	6	0.18
(1,255)	1:A:1:DA:H1'	1:B:1:DA:H3'	6	0.18
(1,255)	1:B:1:DA:H1'	1:A:1:DA:H3'	6	0.18
(1,255)	1:B:1:DA:H1'	1:B:1:DA:H3'	6	0.18
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	1	0.18
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	1	0.18
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	1	0.18
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	1	0.18
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	9	0.18
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	9	0.18
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	9	0.18
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	9	0.18
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	2	0.18
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	2	0.18
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	2	0.18
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	2	0.18
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	9	0.18
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	9	0.18
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	9	0.18
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	9	0.18
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	3	0.18
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	3	0.18
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	3	0.18
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	3	0.18
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	7	0.18
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	7	0.18
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	7	0.18
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	1	0.18
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	1	0.18
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	1	0.18
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	1	0.18
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	10	0.18
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	10	0.18
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	10	0.18
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	10	0.18
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	8	0.18
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	8	0.18
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	8	0.18
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	8	0.18
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	10	0.18
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	10	0.18
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	10	0.18
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	10	0.18
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	2	0.18
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	2	0.18
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	2	0.18
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	2	0.18
(1,1149)	1:A:7:DG:H1	1:A:11:DG:O6	2	0.18
(1,1149)	1:A:7:DG:H1	1:B:11:DG:O6	2	0.18
(1,1149)	1:B:7:DG:H1	1:A:11:DG:O6	2	0.18
(1,1149)	1:B:7:DG:H1	1:B:11:DG:O6	2	0.18
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	4	0.18
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	4	0.18
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	4	0.18
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	4	0.18
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	7	0.18
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	7	0.18
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	7	0.18
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	7	0.18
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	9	0.18
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	9	0.18
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	9	0.18
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	9	0.18
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	1	0.18
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	1	0.18
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	1	0.18
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	1	0.18
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	9	0.18
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	9	0.18
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	9	0.18
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	2	0.18
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	2	0.18
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	2	0.18
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	2	0.18
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	9	0.18
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	9	0.18
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	9	0.18
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	9	0.18
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	3	0.18
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	3	0.18
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	3	0.18
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	3	0.18
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	7	0.18
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	7	0.18
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	7	0.18
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	7	0.18
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	1	0.18
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	1	0.18
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	1	0.18
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	1	0.18
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	10	0.18
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	10	0.18
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	10	0.18
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	10	0.18
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	8	0.18
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	8	0.18
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	8	0.18
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	8	0.18
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	10	0.18
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	10	0.18
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	10	0.18
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	10	0.18
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	2	0.18
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	2	0.18
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	2	0.18
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	2	0.18
(1,1101)	1:A:7:DG:H1	1:A:11:DG:O6	2	0.18
(1,1101)	1:A:7:DG:H1	1:B:11:DG:O6	2	0.18
(1,1101)	1:B:7:DG:H1	1:A:11:DG:O6	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1101)	1:B:7:DG:H1	1:B:11:DG:O6	2	0.18
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	4	0.18
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	4	0.18
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	4	0.18
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	4	0.18
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	7	0.18
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	7	0.18
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	7	0.18
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	7	0.18
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	9	0.18
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	9	0.18
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	9	0.18
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	9	0.18
(1,921)	1:A:9:DG:H2'	1:A:10:DG:H8	4	0.17
(1,921)	1:A:9:DG:H2'	1:B:10:DG:H8	4	0.17
(1,921)	1:B:9:DG:H2'	1:A:10:DG:H8	4	0.17
(1,921)	1:B:9:DG:H2'	1:B:10:DG:H8	4	0.17
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	8	0.17
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	8	0.17
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	8	0.17
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	8	0.17
(1,862)	1:A:6:DG:H1'	1:A:7:DG:H8	2	0.17
(1,862)	1:A:6:DG:H1'	1:B:7:DG:H8	2	0.17
(1,862)	1:B:6:DG:H1'	1:A:7:DG:H8	2	0.17
(1,862)	1:B:6:DG:H1'	1:B:7:DG:H8	2	0.17
(1,846)	1:A:5:DG:H2'	1:A:6:DG:H8	8	0.17
(1,846)	1:A:5:DG:H2'	1:B:6:DG:H8	8	0.17
(1,846)	1:B:5:DG:H2'	1:A:6:DG:H8	8	0.17
(1,846)	1:B:5:DG:H2'	1:B:6:DG:H8	8	0.17
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	3	0.17
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	3	0.17
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	3	0.17
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	3	0.17
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	5	0.17
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	5	0.17
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	5	0.17
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	5	0.17
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	7	0.17
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	7	0.17
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	7	0.17
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	7	0.17
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	3	0.17
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	3	0.17
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	3	0.17
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	8	0.17
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	8	0.17
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	8	0.17
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	8	0.17
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	9	0.17
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	9	0.17
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	9	0.17
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	9	0.17
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	1	0.17
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	1	0.17
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	1	0.17
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	1	0.17
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	5	0.17
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	5	0.17
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	5	0.17
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	5	0.17
(1,656)	1:A:18:DG:H2''	1:A:18:DG:H3'	1	0.17
(1,656)	1:A:18:DG:H2''	1:B:18:DG:H3'	1	0.17
(1,656)	1:B:18:DG:H2''	1:A:18:DG:H3'	1	0.17
(1,656)	1:B:18:DG:H2''	1:B:18:DG:H3'	1	0.17
(1,486)	1:A:9:DG:H2'	1:A:10:DG:H8	4	0.17
(1,486)	1:A:9:DG:H2'	1:B:10:DG:H8	4	0.17
(1,486)	1:B:9:DG:H2'	1:A:10:DG:H8	4	0.17
(1,486)	1:B:9:DG:H2'	1:B:10:DG:H8	4	0.17
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	8	0.17
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	8	0.17
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	8	0.17
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	8	0.17
(1,427)	1:A:6:DG:H1'	1:A:7:DG:H8	2	0.17
(1,427)	1:A:6:DG:H1'	1:B:7:DG:H8	2	0.17
(1,427)	1:B:6:DG:H1'	1:A:7:DG:H8	2	0.17
(1,427)	1:B:6:DG:H1'	1:B:7:DG:H8	2	0.17
(1,411)	1:A:5:DG:H2'	1:A:6:DG:H8	8	0.17
(1,411)	1:A:5:DG:H2'	1:B:6:DG:H8	8	0.17
(1,411)	1:B:5:DG:H2'	1:A:6:DG:H8	8	0.17
(1,411)	1:B:5:DG:H2'	1:B:6:DG:H8	8	0.17
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	3	0.17
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	3	0.17
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	3	0.17
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	5	0.17
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	5	0.17
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	5	0.17
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	5	0.17
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	7	0.17
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	7	0.17
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	7	0.17
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	7	0.17
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	3	0.17
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	3	0.17
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	3	0.17
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	3	0.17
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	8	0.17
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	8	0.17
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	8	0.17
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	8	0.17
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	9	0.17
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	9	0.17
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	9	0.17
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	9	0.17
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	1	0.17
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	1	0.17
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	1	0.17
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	1	0.17
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	5	0.17
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	5	0.17
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	5	0.17
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	5	0.17
(1,1189)	1:A:13:DG:H1	1:A:17:DG:O6	10	0.17
(1,1189)	1:A:13:DG:H1	1:B:17:DG:O6	10	0.17
(1,1189)	1:B:13:DG:H1	1:A:17:DG:O6	10	0.17
(1,1189)	1:B:13:DG:H1	1:B:17:DG:O6	10	0.17
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	1	0.17
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	1	0.17
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	1	0.17
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	1	0.17
(1,1177)	1:A:17:DG:H1	1:A:5:DG:O6	4	0.17
(1,1177)	1:A:17:DG:H1	1:B:5:DG:O6	4	0.17
(1,1177)	1:B:17:DG:H1	1:A:5:DG:O6	4	0.17
(1,1177)	1:B:17:DG:H1	1:B:5:DG:O6	4	0.17
(1,1177)	1:A:17:DG:H1	1:A:5:DG:O6	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1177)	1:A:17:DG:H1	1:B:5:DG:O6	5	0.17
(1,1177)	1:B:17:DG:H1	1:A:5:DG:O6	5	0.17
(1,1177)	1:B:17:DG:H1	1:B:5:DG:O6	5	0.17
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	8	0.17
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	8	0.17
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	8	0.17
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	8	0.17
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	4	0.17
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	4	0.17
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	4	0.17
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	4	0.17
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	7	0.17
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	7	0.17
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	7	0.17
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	7	0.17
(1,1145)	1:A:3:DG:H1	1:A:7:DG:O6	3	0.17
(1,1145)	1:A:3:DG:H1	1:B:7:DG:O6	3	0.17
(1,1145)	1:B:3:DG:H1	1:A:7:DG:O6	3	0.17
(1,1145)	1:B:3:DG:H1	1:B:7:DG:O6	3	0.17
(1,1144)	1:A:3:DG:N2	1:A:7:DG:N7	9	0.17
(1,1144)	1:A:3:DG:N2	1:B:7:DG:N7	9	0.17
(1,1144)	1:B:3:DG:N2	1:A:7:DG:N7	9	0.17
(1,1144)	1:B:3:DG:N2	1:B:7:DG:N7	9	0.17
(1,1141)	1:A:13:DG:H1	1:A:17:DG:O6	10	0.17
(1,1141)	1:A:13:DG:H1	1:B:17:DG:O6	10	0.17
(1,1141)	1:B:13:DG:H1	1:A:17:DG:O6	10	0.17
(1,1141)	1:B:13:DG:H1	1:B:17:DG:O6	10	0.17
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	1	0.17
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	1	0.17
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	1	0.17
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	1	0.17
(1,1129)	1:A:17:DG:H1	1:A:5:DG:O6	4	0.17
(1,1129)	1:A:17:DG:H1	1:B:5:DG:O6	4	0.17
(1,1129)	1:B:17:DG:H1	1:A:5:DG:O6	4	0.17
(1,1129)	1:B:17:DG:H1	1:B:5:DG:O6	4	0.17
(1,1129)	1:A:17:DG:H1	1:A:5:DG:O6	5	0.17
(1,1129)	1:A:17:DG:H1	1:B:5:DG:O6	5	0.17
(1,1129)	1:B:17:DG:H1	1:A:5:DG:O6	5	0.17
(1,1129)	1:B:17:DG:H1	1:B:5:DG:O6	5	0.17
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	8	0.17
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	8	0.17
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	8	0.17
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	4	0.17
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	4	0.17
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	4	0.17
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	4	0.17
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	7	0.17
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	7	0.17
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	7	0.17
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	7	0.17
(1,1097)	1:A:3:DG:H1	1:A:7:DG:O6	3	0.17
(1,1097)	1:A:3:DG:H1	1:B:7:DG:O6	3	0.17
(1,1097)	1:B:3:DG:H1	1:A:7:DG:O6	3	0.17
(1,1097)	1:B:3:DG:H1	1:B:7:DG:O6	3	0.17
(1,1096)	1:A:3:DG:N2	1:A:7:DG:N7	9	0.17
(1,1096)	1:A:3:DG:N2	1:B:7:DG:N7	9	0.17
(1,1096)	1:B:3:DG:N2	1:A:7:DG:N7	9	0.17
(1,1096)	1:B:3:DG:N2	1:B:7:DG:N7	9	0.17
(1,1091)	1:A:18:DG:H2''	1:A:18:DG:H3'	1	0.17
(1,1091)	1:A:18:DG:H2''	1:B:18:DG:H3'	1	0.17
(1,1091)	1:B:18:DG:H2''	1:A:18:DG:H3'	1	0.17
(1,1091)	1:B:18:DG:H2''	1:B:18:DG:H3'	1	0.17
(1,902)	1:A:8:DA:H4'	1:A:9:DG:H3'	8	0.16
(1,902)	1:A:8:DA:H4'	1:B:9:DG:H3'	8	0.16
(1,902)	1:B:8:DA:H4'	1:A:9:DG:H3'	8	0.16
(1,902)	1:B:8:DA:H4'	1:B:9:DG:H3'	8	0.16
(1,836)	1:A:5:DG:H5'	1:A:5:DG:H8	7	0.16
(1,836)	1:A:5:DG:H5'	1:B:5:DG:H8	7	0.16
(1,836)	1:A:5:DG:H5''	1:A:5:DG:H8	7	0.16
(1,836)	1:A:5:DG:H5''	1:B:5:DG:H8	7	0.16
(1,836)	1:B:5:DG:H5'	1:A:5:DG:H8	7	0.16
(1,836)	1:B:5:DG:H5'	1:B:5:DG:H8	7	0.16
(1,836)	1:B:5:DG:H5''	1:A:5:DG:H8	7	0.16
(1,836)	1:B:5:DG:H5''	1:B:5:DG:H8	7	0.16
(1,819)	1:A:4:DG:H4'	1:A:5:DG:H8	1	0.16
(1,819)	1:A:4:DG:H4'	1:B:5:DG:H8	1	0.16
(1,819)	1:B:4:DG:H4'	1:A:5:DG:H8	1	0.16
(1,819)	1:B:4:DG:H4'	1:B:5:DG:H8	1	0.16
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	7	0.16
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	7	0.16
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	7	0.16
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	7	0.16
(1,735)	1:A:2:DG:H5'	1:A:2:DG:H8	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,735)	1:A:2:DG:H5'	1:B:2:DG:H8	5	0.16
(1,735)	1:B:2:DG:H5'	1:A:2:DG:H8	5	0.16
(1,735)	1:B:2:DG:H5'	1:B:2:DG:H8	5	0.16
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	4	0.16
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	4	0.16
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	4	0.16
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	4	0.16
(1,723)	1:A:2:DG:H3'	1:A:2:DG:H5''	3	0.16
(1,723)	1:A:2:DG:H3'	1:B:2:DG:H5''	3	0.16
(1,723)	1:B:2:DG:H3'	1:A:2:DG:H5''	3	0.16
(1,723)	1:B:2:DG:H3'	1:B:2:DG:H5''	3	0.16
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	7	0.16
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	7	0.16
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	7	0.16
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	7	0.16
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	4	0.16
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	4	0.16
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	4	0.16
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	4	0.16
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	4	0.16
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	4	0.16
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	4	0.16
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	4	0.16
(1,612)	1:A:16:DT:H2'	1:A:16:DT:H6	7	0.16
(1,612)	1:A:16:DT:H2'	1:B:16:DT:H6	7	0.16
(1,612)	1:B:16:DT:H2'	1:A:16:DT:H6	7	0.16
(1,612)	1:B:16:DT:H2'	1:B:16:DT:H6	7	0.16
(1,467)	1:A:8:DA:H4'	1:A:9:DG:H3'	8	0.16
(1,467)	1:A:8:DA:H4'	1:B:9:DG:H3'	8	0.16
(1,467)	1:B:8:DA:H4'	1:A:9:DG:H3'	8	0.16
(1,467)	1:B:8:DA:H4'	1:B:9:DG:H3'	8	0.16
(1,401)	1:A:5:DG:H5'	1:A:5:DG:H8	7	0.16
(1,401)	1:A:5:DG:H5'	1:B:5:DG:H8	7	0.16
(1,401)	1:A:5:DG:H5''	1:A:5:DG:H8	7	0.16
(1,401)	1:A:5:DG:H5''	1:B:5:DG:H8	7	0.16
(1,401)	1:B:5:DG:H5'	1:A:5:DG:H8	7	0.16
(1,401)	1:B:5:DG:H5'	1:B:5:DG:H8	7	0.16
(1,401)	1:B:5:DG:H5''	1:A:5:DG:H8	7	0.16
(1,401)	1:B:5:DG:H5''	1:B:5:DG:H8	7	0.16
(1,384)	1:A:4:DG:H4'	1:A:5:DG:H8	1	0.16
(1,384)	1:A:4:DG:H4'	1:B:5:DG:H8	1	0.16
(1,384)	1:B:4:DG:H4'	1:A:5:DG:H8	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:B:4:DG:H4'	1:B:5:DG:H8	1	0.16
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	7	0.16
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	7	0.16
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	7	0.16
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	7	0.16
(1,300)	1:A:2:DG:H5'	1:A:2:DG:H8	5	0.16
(1,300)	1:A:2:DG:H5'	1:B:2:DG:H8	5	0.16
(1,300)	1:B:2:DG:H5'	1:A:2:DG:H8	5	0.16
(1,300)	1:B:2:DG:H5'	1:B:2:DG:H8	5	0.16
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	4	0.16
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	4	0.16
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	4	0.16
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	4	0.16
(1,288)	1:A:2:DG:H3'	1:A:2:DG:H5''	3	0.16
(1,288)	1:A:2:DG:H3'	1:B:2:DG:H5''	3	0.16
(1,288)	1:B:2:DG:H3'	1:A:2:DG:H5''	3	0.16
(1,288)	1:B:2:DG:H3'	1:B:2:DG:H5''	3	0.16
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	7	0.16
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	7	0.16
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	7	0.16
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	7	0.16
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	4	0.16
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	4	0.16
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	4	0.16
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	4	0.16
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	3	0.16
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	3	0.16
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	3	0.16
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	3	0.16
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	1	0.16
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	1	0.16
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	1	0.16
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	1	0.16
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	6	0.16
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	6	0.16
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	6	0.16
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	6	0.16
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	2	0.16
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	2	0.16
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	2	0.16
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	2	0.16
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	6	0.16
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	6	0.16
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	6	0.16
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	8	0.16
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	8	0.16
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	8	0.16
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	8	0.16
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	10	0.16
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	10	0.16
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	10	0.16
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	10	0.16
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	5	0.16
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	5	0.16
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	5	0.16
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	5	0.16
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	1	0.16
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	1	0.16
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	1	0.16
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	1	0.16
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	3	0.16
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	3	0.16
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	3	0.16
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	3	0.16
(1,1156)	1:A:15:DG:N2	1:A:3:DG:N7	4	0.16
(1,1156)	1:A:15:DG:N2	1:B:3:DG:N7	4	0.16
(1,1156)	1:B:15:DG:N2	1:A:3:DG:N7	4	0.16
(1,1156)	1:B:15:DG:N2	1:B:3:DG:N7	4	0.16
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	10	0.16
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	10	0.16
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	10	0.16
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	10	0.16
(1,1146)	1:A:3:DG:N1	1:A:7:DG:O6	6	0.16
(1,1146)	1:A:3:DG:N1	1:B:7:DG:O6	6	0.16
(1,1146)	1:B:3:DG:N1	1:A:7:DG:O6	6	0.16
(1,1146)	1:B:3:DG:N1	1:B:7:DG:O6	6	0.16
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	3	0.16
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	3	0.16
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	3	0.16
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	3	0.16
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	1	0.16
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	1	0.16
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	1	0.16
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	6	0.16
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	6	0.16
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	6	0.16
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	6	0.16
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	2	0.16
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	2	0.16
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	2	0.16
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	2	0.16
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	6	0.16
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	6	0.16
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	6	0.16
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	6	0.16
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	8	0.16
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	8	0.16
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	8	0.16
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	8	0.16
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	10	0.16
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	10	0.16
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	10	0.16
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	10	0.16
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	5	0.16
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	5	0.16
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	5	0.16
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	5	0.16
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	1	0.16
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	1	0.16
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	1	0.16
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	1	0.16
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	3	0.16
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	3	0.16
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	3	0.16
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	3	0.16
(1,1108)	1:A:15:DG:N2	1:A:3:DG:N7	4	0.16
(1,1108)	1:A:15:DG:N2	1:B:3:DG:N7	4	0.16
(1,1108)	1:B:15:DG:N2	1:A:3:DG:N7	4	0.16
(1,1108)	1:B:15:DG:N2	1:B:3:DG:N7	4	0.16
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	10	0.16
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	10	0.16
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	10	0.16
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	10	0.16
(1,1098)	1:A:3:DG:N1	1:A:7:DG:O6	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1098)	1:A:3:DG:N1	1:B:7:DG:O6	6	0.16
(1,1098)	1:B:3:DG:N1	1:A:7:DG:O6	6	0.16
(1,1098)	1:B:3:DG:N1	1:B:7:DG:O6	6	0.16
(1,1089)	1:A:18:DG:H1'	1:A:18:DG:H2''	4	0.16
(1,1089)	1:A:18:DG:H1'	1:B:18:DG:H2''	4	0.16
(1,1089)	1:B:18:DG:H1'	1:A:18:DG:H2''	4	0.16
(1,1089)	1:B:18:DG:H1'	1:B:18:DG:H2''	4	0.16
(1,1047)	1:A:16:DT:H2'	1:A:16:DT:H6	7	0.16
(1,1047)	1:A:16:DT:H2'	1:B:16:DT:H6	7	0.16
(1,1047)	1:B:16:DT:H2'	1:A:16:DT:H6	7	0.16
(1,1047)	1:B:16:DT:H2'	1:B:16:DT:H6	7	0.16
(1,909)	1:A:9:DG:H1'	1:A:9:DG:H4'	3	0.15
(1,909)	1:A:9:DG:H1'	1:B:9:DG:H4'	3	0.15
(1,909)	1:B:9:DG:H1'	1:A:9:DG:H4'	3	0.15
(1,909)	1:B:9:DG:H1'	1:B:9:DG:H4'	3	0.15
(1,845)	1:A:5:DG:H8	1:A:6:DG:H8	5	0.15
(1,845)	1:A:5:DG:H8	1:B:6:DG:H8	5	0.15
(1,845)	1:B:5:DG:H8	1:A:6:DG:H8	5	0.15
(1,845)	1:B:5:DG:H8	1:B:6:DG:H8	5	0.15
(1,816)	1:A:4:DG:H2'	1:A:4:DG:H8	1	0.15
(1,816)	1:A:4:DG:H2'	1:B:4:DG:H8	1	0.15
(1,816)	1:B:4:DG:H2'	1:A:4:DG:H8	1	0.15
(1,816)	1:B:4:DG:H2'	1:B:4:DG:H8	1	0.15
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	9	0.15
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	9	0.15
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	9	0.15
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	9	0.15
(1,753)	1:A:2:DG:H5''	1:A:3:DG:H8	4	0.15
(1,753)	1:A:2:DG:H5''	1:B:3:DG:H8	4	0.15
(1,753)	1:B:2:DG:H5''	1:A:3:DG:H8	4	0.15
(1,753)	1:B:2:DG:H5''	1:B:3:DG:H8	4	0.15
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	1	0.15
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	1	0.15
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	1	0.15
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	1	0.15
(1,723)	1:A:2:DG:H3'	1:A:2:DG:H5''	10	0.15
(1,723)	1:A:2:DG:H3'	1:B:2:DG:H5''	10	0.15
(1,723)	1:B:2:DG:H3'	1:A:2:DG:H5''	10	0.15
(1,723)	1:B:2:DG:H3'	1:B:2:DG:H5''	10	0.15
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	1	0.15
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	1	0.15
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	1	0.15
(1,474)	1:A:9:DG:H1'	1:A:9:DG:H4'	3	0.15
(1,474)	1:A:9:DG:H1'	1:B:9:DG:H4'	3	0.15
(1,474)	1:B:9:DG:H1'	1:A:9:DG:H4'	3	0.15
(1,474)	1:B:9:DG:H1'	1:B:9:DG:H4'	3	0.15
(1,410)	1:A:5:DG:H8	1:A:6:DG:H8	5	0.15
(1,410)	1:A:5:DG:H8	1:B:6:DG:H8	5	0.15
(1,410)	1:B:5:DG:H8	1:A:6:DG:H8	5	0.15
(1,410)	1:B:5:DG:H8	1:B:6:DG:H8	5	0.15
(1,381)	1:A:4:DG:H2'	1:A:4:DG:H8	1	0.15
(1,381)	1:A:4:DG:H2'	1:B:4:DG:H8	1	0.15
(1,381)	1:B:4:DG:H2'	1:A:4:DG:H8	1	0.15
(1,381)	1:B:4:DG:H2'	1:B:4:DG:H8	1	0.15
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	9	0.15
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	9	0.15
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	9	0.15
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	9	0.15
(1,318)	1:A:2:DG:H5''	1:A:3:DG:H8	4	0.15
(1,318)	1:A:2:DG:H5''	1:B:3:DG:H8	4	0.15
(1,318)	1:B:2:DG:H5''	1:A:3:DG:H8	4	0.15
(1,318)	1:B:2:DG:H5''	1:B:3:DG:H8	4	0.15
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	1	0.15
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	1	0.15
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	1	0.15
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	1	0.15
(1,288)	1:A:2:DG:H3'	1:A:2:DG:H5''	10	0.15
(1,288)	1:A:2:DG:H3'	1:B:2:DG:H5''	10	0.15
(1,288)	1:B:2:DG:H3'	1:A:2:DG:H5''	10	0.15
(1,288)	1:B:2:DG:H3'	1:B:2:DG:H5''	10	0.15
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	1	0.15
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	1	0.15
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	1	0.15
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	1	0.15
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	10	0.15
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	10	0.15
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	10	0.15
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	10	0.15
(1,1150)	1:A:7:DG:N1	1:A:11:DG:O6	3	0.15
(1,1150)	1:A:7:DG:N1	1:B:11:DG:O6	3	0.15
(1,1150)	1:B:7:DG:N1	1:A:11:DG:O6	3	0.15
(1,1150)	1:B:7:DG:N1	1:B:11:DG:O6	3	0.15
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	5	0.15
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	5	0.15
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	5	0.15
(1,1143)	1:A:3:DG:H21	1:A:7:DG:N7	9	0.15
(1,1143)	1:A:3:DG:H21	1:B:7:DG:N7	9	0.15
(1,1143)	1:B:3:DG:H21	1:A:7:DG:N7	9	0.15
(1,1143)	1:B:3:DG:H21	1:B:7:DG:N7	9	0.15
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	10	0.15
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	10	0.15
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	10	0.15
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	10	0.15
(1,1102)	1:A:7:DG:N1	1:A:11:DG:O6	3	0.15
(1,1102)	1:A:7:DG:N1	1:B:11:DG:O6	3	0.15
(1,1102)	1:B:7:DG:N1	1:A:11:DG:O6	3	0.15
(1,1102)	1:B:7:DG:N1	1:B:11:DG:O6	3	0.15
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	5	0.15
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	5	0.15
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	5	0.15
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	5	0.15
(1,1095)	1:A:3:DG:H21	1:A:7:DG:N7	9	0.15
(1,1095)	1:A:3:DG:H21	1:B:7:DG:N7	9	0.15
(1,1095)	1:B:3:DG:H21	1:A:7:DG:N7	9	0.15
(1,1095)	1:B:3:DG:H21	1:B:7:DG:N7	9	0.15
(1,970)	1:A:12:DA:H1'	1:A:12:DA:H4'	3	0.14
(1,970)	1:A:12:DA:H1'	1:B:12:DA:H4'	3	0.14
(1,970)	1:B:12:DA:H1'	1:A:12:DA:H4'	3	0.14
(1,970)	1:B:12:DA:H1'	1:B:12:DA:H4'	3	0.14
(1,954)	1:A:11:DG:H2'	1:A:11:DG:H8	7	0.14
(1,954)	1:A:11:DG:H2'	1:B:11:DG:H8	7	0.14
(1,954)	1:B:11:DG:H2'	1:A:11:DG:H8	7	0.14
(1,954)	1:B:11:DG:H2'	1:B:11:DG:H8	7	0.14
(1,921)	1:A:9:DG:H2'	1:A:10:DG:H8	9	0.14
(1,921)	1:A:9:DG:H2'	1:B:10:DG:H8	9	0.14
(1,921)	1:B:9:DG:H2'	1:A:10:DG:H8	9	0.14
(1,921)	1:B:9:DG:H2'	1:B:10:DG:H8	9	0.14
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	4	0.14
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	4	0.14
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	4	0.14
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	4	0.14
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	7	0.14
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	7	0.14
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	7	0.14
(1,738)	1:A:2:DG:H1'	1:A:2:DG:H3'	4	0.14
(1,738)	1:A:2:DG:H1'	1:B:2:DG:H3'	4	0.14
(1,738)	1:B:2:DG:H1'	1:A:2:DG:H3'	4	0.14
(1,738)	1:B:2:DG:H1'	1:B:2:DG:H3'	4	0.14
(1,723)	1:A:2:DG:H3'	1:A:2:DG:H5''	9	0.14
(1,723)	1:A:2:DG:H3'	1:B:2:DG:H5''	9	0.14
(1,723)	1:B:2:DG:H3'	1:A:2:DG:H5''	9	0.14
(1,723)	1:B:2:DG:H3'	1:B:2:DG:H5''	9	0.14
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	2	0.14
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	2	0.14
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	2	0.14
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	2	0.14
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	2	0.14
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	2	0.14
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	2	0.14
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	2	0.14
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2'	2	0.14
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2'	2	0.14
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2'	2	0.14
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2'	2	0.14
(1,687)	1:A:1:DA:H2	1:A:1:DA:H2''	7	0.14
(1,687)	1:A:1:DA:H2	1:B:1:DA:H2''	7	0.14
(1,687)	1:B:1:DA:H2	1:A:1:DA:H2''	7	0.14
(1,687)	1:B:1:DA:H2	1:B:1:DA:H2''	7	0.14
(1,686)	1:A:1:DA:H2''	1:A:1:DA:H8	2	0.14
(1,686)	1:A:1:DA:H2''	1:B:1:DA:H8	2	0.14
(1,686)	1:B:1:DA:H2''	1:A:1:DA:H8	2	0.14
(1,686)	1:B:1:DA:H2''	1:B:1:DA:H8	2	0.14
(1,686)	1:A:1:DA:H2''	1:A:1:DA:H8	9	0.14
(1,686)	1:A:1:DA:H2''	1:B:1:DA:H8	9	0.14
(1,686)	1:B:1:DA:H2''	1:A:1:DA:H8	9	0.14
(1,686)	1:B:1:DA:H2''	1:B:1:DA:H8	9	0.14
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	9	0.14
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	9	0.14
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	9	0.14
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	9	0.14
(1,630)	1:A:16:DT:H4'	1:A:17:DG:H3'	7	0.14
(1,630)	1:A:16:DT:H4'	1:B:17:DG:H3'	7	0.14
(1,630)	1:B:16:DT:H4'	1:A:17:DG:H3'	7	0.14
(1,630)	1:B:16:DT:H4'	1:B:17:DG:H3'	7	0.14
(1,588)	1:A:15:DG:H1'	1:A:15:DG:H4'	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,588)	1:A:15:DG:H1'	1:B:15:DG:H4'	8	0.14
(1,588)	1:B:15:DG:H1'	1:A:15:DG:H4'	8	0.14
(1,588)	1:B:15:DG:H1'	1:B:15:DG:H4'	8	0.14
(1,535)	1:A:12:DA:H1'	1:A:12:DA:H4'	3	0.14
(1,535)	1:A:12:DA:H1'	1:B:12:DA:H4'	3	0.14
(1,535)	1:B:12:DA:H1'	1:A:12:DA:H4'	3	0.14
(1,535)	1:B:12:DA:H1'	1:B:12:DA:H4'	3	0.14
(1,519)	1:A:11:DG:H2'	1:A:11:DG:H8	7	0.14
(1,519)	1:A:11:DG:H2'	1:B:11:DG:H8	7	0.14
(1,519)	1:B:11:DG:H2'	1:A:11:DG:H8	7	0.14
(1,519)	1:B:11:DG:H2'	1:B:11:DG:H8	7	0.14
(1,486)	1:A:9:DG:H2'	1:A:10:DG:H8	9	0.14
(1,486)	1:A:9:DG:H2'	1:B:10:DG:H8	9	0.14
(1,486)	1:B:9:DG:H2'	1:A:10:DG:H8	9	0.14
(1,486)	1:B:9:DG:H2'	1:B:10:DG:H8	9	0.14
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	4	0.14
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	4	0.14
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	4	0.14
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	4	0.14
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	7	0.14
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	7	0.14
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	7	0.14
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	7	0.14
(1,303)	1:A:2:DG:H1'	1:A:2:DG:H3'	4	0.14
(1,303)	1:A:2:DG:H1'	1:B:2:DG:H3'	4	0.14
(1,303)	1:B:2:DG:H1'	1:A:2:DG:H3'	4	0.14
(1,303)	1:B:2:DG:H1'	1:B:2:DG:H3'	4	0.14
(1,288)	1:A:2:DG:H3'	1:A:2:DG:H5''	9	0.14
(1,288)	1:A:2:DG:H3'	1:B:2:DG:H5''	9	0.14
(1,288)	1:B:2:DG:H3'	1:A:2:DG:H5''	9	0.14
(1,288)	1:B:2:DG:H3'	1:B:2:DG:H5''	9	0.14
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	2	0.14
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	2	0.14
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	2	0.14
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	2	0.14
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	2	0.14
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	2	0.14
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	2	0.14
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	2	0.14
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	2	0.14
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	2	0.14
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	2	0.14
(1,252)	1:A:1:DA:H2	1:A:1:DA:H2'	7	0.14
(1,252)	1:A:1:DA:H2	1:B:1:DA:H2'	7	0.14
(1,252)	1:B:1:DA:H2	1:A:1:DA:H2'	7	0.14
(1,252)	1:B:1:DA:H2	1:B:1:DA:H2'	7	0.14
(1,251)	1:A:1:DA:H2''	1:A:1:DA:H8	2	0.14
(1,251)	1:A:1:DA:H2''	1:B:1:DA:H8	2	0.14
(1,251)	1:B:1:DA:H2''	1:A:1:DA:H8	2	0.14
(1,251)	1:B:1:DA:H2''	1:B:1:DA:H8	2	0.14
(1,251)	1:A:1:DA:H2''	1:A:1:DA:H8	9	0.14
(1,251)	1:A:1:DA:H2''	1:B:1:DA:H8	9	0.14
(1,251)	1:B:1:DA:H2''	1:A:1:DA:H8	9	0.14
(1,251)	1:B:1:DA:H2''	1:B:1:DA:H8	9	0.14
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	5	0.14
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	5	0.14
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	5	0.14
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	5	0.14
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	10	0.14
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	10	0.14
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	10	0.14
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	10	0.14
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	4	0.14
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	4	0.14
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	4	0.14
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	4	0.14
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	9	0.14
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	9	0.14
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	9	0.14
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	9	0.14
(1,1165)	1:A:6:DG:H1	1:A:10:DG:O6	4	0.14
(1,1165)	1:A:6:DG:H1	1:B:10:DG:O6	4	0.14
(1,1165)	1:B:6:DG:H1	1:A:10:DG:O6	4	0.14
(1,1165)	1:B:6:DG:H1	1:B:10:DG:O6	4	0.14
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	9	0.14
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	9	0.14
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	9	0.14
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	9	0.14
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	7	0.14
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	7	0.14
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	7	0.14
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	7	0.14
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	5	0.14
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	5	0.14
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	5	0.14
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	10	0.14
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	10	0.14
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	10	0.14
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	10	0.14
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	4	0.14
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	4	0.14
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	4	0.14
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	4	0.14
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	9	0.14
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	9	0.14
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	9	0.14
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	9	0.14
(1,1117)	1:A:6:DG:H1	1:A:10:DG:O6	4	0.14
(1,1117)	1:A:6:DG:H1	1:B:10:DG:O6	4	0.14
(1,1117)	1:B:6:DG:H1	1:A:10:DG:O6	4	0.14
(1,1117)	1:B:6:DG:H1	1:B:10:DG:O6	4	0.14
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	9	0.14
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	9	0.14
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	9	0.14
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	9	0.14
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	7	0.14
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	7	0.14
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	7	0.14
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	7	0.14
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	9	0.14
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	9	0.14
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	9	0.14
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	9	0.14
(1,1065)	1:A:16:DT:H4 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	7	0.14
(1,1065)	1:A:16:DT:H4 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	7	0.14
(1,1065)	1:B:16:DT:H4 <sup>?</sup>	1:A:17:DG:H3 <sup>?</sup>	7	0.14
(1,1065)	1:B:16:DT:H4 <sup>?</sup>	1:B:17:DG:H3 <sup>?</sup>	7	0.14
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	8	0.14
(1,1023)	1:A:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	8	0.14
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:A:15:DG:H4 <sup>?</sup>	8	0.14
(1,1023)	1:B:15:DG:H1 <sup>?</sup>	1:B:15:DG:H4 <sup>?</sup>	8	0.14
(1,921)	1:A:9:DG:H2 <sup>?</sup>	1:A:10:DG:H8	5	0.13
(1,921)	1:A:9:DG:H2 <sup>?</sup>	1:B:10:DG:H8	5	0.13
(1,921)	1:B:9:DG:H2 <sup>?</sup>	1:A:10:DG:H8	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	1:B:9:DG:H2'	1:B:10:DG:H8	5	0.13
(1,884)	1:A:7:DG:H4'	1:A:8:DA:H3'	1	0.13
(1,884)	1:A:7:DG:H4'	1:B:8:DA:H3'	1	0.13
(1,884)	1:B:7:DG:H4'	1:A:8:DA:H3'	1	0.13
(1,884)	1:B:7:DG:H4'	1:B:8:DA:H3'	1	0.13
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	9	0.13
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	9	0.13
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	9	0.13
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	9	0.13
(1,816)	1:A:4:DG:H2'	1:A:4:DG:H8	10	0.13
(1,816)	1:A:4:DG:H2'	1:B:4:DG:H8	10	0.13
(1,816)	1:B:4:DG:H2'	1:A:4:DG:H8	10	0.13
(1,816)	1:B:4:DG:H2'	1:B:4:DG:H8	10	0.13
(1,799)	1:A:4:DG:H1'	1:A:4:DG:H4'	7	0.13
(1,799)	1:A:4:DG:H1'	1:B:4:DG:H4'	7	0.13
(1,799)	1:B:4:DG:H1'	1:A:4:DG:H4'	7	0.13
(1,799)	1:B:4:DG:H1'	1:B:4:DG:H4'	7	0.13
(1,789)	1:A:3:DG:H8	1:A:18:DG:H1'	4	0.13
(1,789)	1:A:3:DG:H8	1:B:18:DG:H1'	4	0.13
(1,789)	1:B:3:DG:H8	1:A:18:DG:H1'	4	0.13
(1,789)	1:B:3:DG:H8	1:B:18:DG:H1'	4	0.13
(1,745)	1:A:2:DG:H4'	1:A:3:DG:H5'	8	0.13
(1,745)	1:A:2:DG:H4'	1:B:3:DG:H5'	8	0.13
(1,745)	1:B:2:DG:H4'	1:A:3:DG:H5'	8	0.13
(1,745)	1:B:2:DG:H4'	1:B:3:DG:H5'	8	0.13
(1,723)	1:A:2:DG:H3'	1:A:2:DG:H5''	8	0.13
(1,723)	1:A:2:DG:H3'	1:B:2:DG:H5''	8	0.13
(1,723)	1:B:2:DG:H3'	1:A:2:DG:H5''	8	0.13
(1,723)	1:B:2:DG:H3'	1:B:2:DG:H5''	8	0.13
(1,713)	1:A:2:DG:H1'	1:A:2:DG:H4'	7	0.13
(1,713)	1:A:2:DG:H1'	1:B:2:DG:H4'	7	0.13
(1,713)	1:B:2:DG:H1'	1:A:2:DG:H4'	7	0.13
(1,713)	1:B:2:DG:H1'	1:B:2:DG:H4'	7	0.13
(1,702)	1:A:1:DA:H1'	1:A:2:DG:H8	7	0.13
(1,702)	1:A:1:DA:H1'	1:B:2:DG:H8	7	0.13
(1,702)	1:B:1:DA:H1'	1:A:2:DG:H8	7	0.13
(1,702)	1:B:1:DA:H1'	1:B:2:DG:H8	7	0.13
(1,686)	1:A:1:DA:H2''	1:A:1:DA:H8	3	0.13
(1,686)	1:A:1:DA:H2''	1:B:1:DA:H8	3	0.13
(1,686)	1:B:1:DA:H2''	1:A:1:DA:H8	3	0.13
(1,686)	1:B:1:DA:H2''	1:B:1:DA:H8	3	0.13
(1,686)	1:A:1:DA:H2''	1:A:1:DA:H8	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,686)	1:A:1:DA:H2''	1:B:1:DA:H8	8	0.13
(1,686)	1:B:1:DA:H2''	1:A:1:DA:H8	8	0.13
(1,686)	1:B:1:DA:H2''	1:B:1:DA:H8	8	0.13
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	2	0.13
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	2	0.13
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	2	0.13
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	2	0.13
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	5	0.13
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	5	0.13
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	5	0.13
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	5	0.13
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	8	0.13
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	8	0.13
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	8	0.13
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	8	0.13
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	4	0.13
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	4	0.13
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	4	0.13
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	4	0.13
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	9	0.13
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	9	0.13
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	9	0.13
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	9	0.13
(1,565)	1:A:13:DG:H2'	1:A:14:DG:H8	5	0.13
(1,565)	1:A:13:DG:H2'	1:B:14:DG:H8	5	0.13
(1,565)	1:B:13:DG:H2'	1:A:14:DG:H8	5	0.13
(1,565)	1:B:13:DG:H2'	1:B:14:DG:H8	5	0.13
(1,565)	1:A:13:DG:H2'	1:A:14:DG:H8	7	0.13
(1,565)	1:A:13:DG:H2'	1:B:14:DG:H8	7	0.13
(1,565)	1:B:13:DG:H2'	1:A:14:DG:H8	7	0.13
(1,565)	1:B:13:DG:H2'	1:B:14:DG:H8	7	0.13
(1,486)	1:A:9:DG:H2'	1:A:10:DG:H8	5	0.13
(1,486)	1:A:9:DG:H2'	1:B:10:DG:H8	5	0.13
(1,486)	1:B:9:DG:H2'	1:A:10:DG:H8	5	0.13
(1,486)	1:B:9:DG:H2'	1:B:10:DG:H8	5	0.13
(1,449)	1:A:7:DG:H4'	1:A:8:DA:H3'	1	0.13
(1,449)	1:A:7:DG:H4'	1:B:8:DA:H3'	1	0.13
(1,449)	1:B:7:DG:H4'	1:A:8:DA:H3'	1	0.13
(1,449)	1:B:7:DG:H4'	1:B:8:DA:H3'	1	0.13
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	9	0.13
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	9	0.13
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	9	0.13
(1,381)	1:A:4:DG:H2'	1:A:4:DG:H8	10	0.13
(1,381)	1:A:4:DG:H2'	1:B:4:DG:H8	10	0.13
(1,381)	1:B:4:DG:H2'	1:A:4:DG:H8	10	0.13
(1,381)	1:B:4:DG:H2'	1:B:4:DG:H8	10	0.13
(1,364)	1:A:4:DG:H1'	1:A:4:DG:H4'	7	0.13
(1,364)	1:A:4:DG:H1'	1:B:4:DG:H4'	7	0.13
(1,364)	1:B:4:DG:H1'	1:A:4:DG:H4'	7	0.13
(1,364)	1:B:4:DG:H1'	1:B:4:DG:H4'	7	0.13
(1,354)	1:A:3:DG:H8	1:A:18:DG:H1'	4	0.13
(1,354)	1:A:3:DG:H8	1:B:18:DG:H1'	4	0.13
(1,354)	1:B:3:DG:H8	1:A:18:DG:H1'	4	0.13
(1,354)	1:B:3:DG:H8	1:B:18:DG:H1'	4	0.13
(1,310)	1:A:2:DG:H4'	1:A:3:DG:H5'	8	0.13
(1,310)	1:A:2:DG:H4'	1:B:3:DG:H5'	8	0.13
(1,310)	1:B:2:DG:H4'	1:A:3:DG:H5'	8	0.13
(1,310)	1:B:2:DG:H4'	1:B:3:DG:H5'	8	0.13
(1,288)	1:A:2:DG:H3'	1:A:2:DG:H5''	8	0.13
(1,288)	1:A:2:DG:H3'	1:B:2:DG:H5''	8	0.13
(1,288)	1:B:2:DG:H3'	1:A:2:DG:H5''	8	0.13
(1,288)	1:B:2:DG:H3'	1:B:2:DG:H5''	8	0.13
(1,278)	1:A:2:DG:H1'	1:A:2:DG:H4'	7	0.13
(1,278)	1:A:2:DG:H1'	1:B:2:DG:H4'	7	0.13
(1,278)	1:B:2:DG:H1'	1:A:2:DG:H4'	7	0.13
(1,278)	1:B:2:DG:H1'	1:B:2:DG:H4'	7	0.13
(1,267)	1:A:1:DA:H1'	1:A:2:DG:H8	7	0.13
(1,267)	1:A:1:DA:H1'	1:B:2:DG:H8	7	0.13
(1,267)	1:B:1:DA:H1'	1:A:2:DG:H8	7	0.13
(1,267)	1:B:1:DA:H1'	1:B:2:DG:H8	7	0.13
(1,251)	1:A:1:DA:H2''	1:A:1:DA:H8	3	0.13
(1,251)	1:A:1:DA:H2''	1:B:1:DA:H8	3	0.13
(1,251)	1:B:1:DA:H2''	1:A:1:DA:H8	3	0.13
(1,251)	1:B:1:DA:H2''	1:B:1:DA:H8	3	0.13
(1,251)	1:A:1:DA:H2''	1:A:1:DA:H8	8	0.13
(1,251)	1:A:1:DA:H2''	1:B:1:DA:H8	8	0.13
(1,251)	1:B:1:DA:H2''	1:A:1:DA:H8	8	0.13
(1,251)	1:B:1:DA:H2''	1:B:1:DA:H8	8	0.13
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	1	0.13
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	1	0.13
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	1	0.13
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	1	0.13
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	7	0.13
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	7	0.13
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	7	0.13
(1,1177)	1:A:17:DG:H1	1:A:5:DG:O6	10	0.13
(1,1177)	1:A:17:DG:H1	1:B:5:DG:O6	10	0.13
(1,1177)	1:B:17:DG:H1	1:A:5:DG:O6	10	0.13
(1,1177)	1:B:17:DG:H1	1:B:5:DG:O6	10	0.13
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	10	0.13
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	10	0.13
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	10	0.13
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	10	0.13
(1,1164)	1:A:6:DG:N2	1:A:10:DG:N7	6	0.13
(1,1164)	1:A:6:DG:N2	1:B:10:DG:N7	6	0.13
(1,1164)	1:B:6:DG:N2	1:A:10:DG:N7	6	0.13
(1,1164)	1:B:6:DG:N2	1:B:10:DG:N7	6	0.13
(1,1163)	1:A:6:DG:H21	1:A:10:DG:N7	9	0.13
(1,1163)	1:A:6:DG:H21	1:B:10:DG:N7	9	0.13
(1,1163)	1:B:6:DG:H21	1:A:10:DG:N7	9	0.13
(1,1163)	1:B:6:DG:H21	1:B:10:DG:N7	9	0.13
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	5	0.13
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	5	0.13
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	5	0.13
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	5	0.13
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	8	0.13
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	8	0.13
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	8	0.13
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	8	0.13
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	9	0.13
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	9	0.13
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	9	0.13
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	9	0.13
(1,1149)	1:A:7:DG:H1	1:A:11:DG:O6	5	0.13
(1,1149)	1:A:7:DG:H1	1:B:11:DG:O6	5	0.13
(1,1149)	1:B:7:DG:H1	1:A:11:DG:O6	5	0.13
(1,1149)	1:B:7:DG:H1	1:B:11:DG:O6	5	0.13
(1,1149)	1:A:7:DG:H1	1:A:11:DG:O6	6	0.13
(1,1149)	1:A:7:DG:H1	1:B:11:DG:O6	6	0.13
(1,1149)	1:B:7:DG:H1	1:A:11:DG:O6	6	0.13
(1,1149)	1:B:7:DG:H1	1:B:11:DG:O6	6	0.13
(1,1145)	1:A:3:DG:H1	1:A:7:DG:O6	10	0.13
(1,1145)	1:A:3:DG:H1	1:B:7:DG:O6	10	0.13
(1,1145)	1:B:3:DG:H1	1:A:7:DG:O6	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1145)	1:B:3:DG:H1	1:B:7:DG:O6	10	0.13
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	1	0.13
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	1	0.13
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	1	0.13
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	1	0.13
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	7	0.13
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	7	0.13
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	7	0.13
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	7	0.13
(1,1129)	1:A:17:DG:H1	1:A:5:DG:O6	10	0.13
(1,1129)	1:A:17:DG:H1	1:B:5:DG:O6	10	0.13
(1,1129)	1:B:17:DG:H1	1:A:5:DG:O6	10	0.13
(1,1129)	1:B:17:DG:H1	1:B:5:DG:O6	10	0.13
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	10	0.13
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	10	0.13
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	10	0.13
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	10	0.13
(1,1116)	1:A:6:DG:N2	1:A:10:DG:N7	6	0.13
(1,1116)	1:A:6:DG:N2	1:B:10:DG:N7	6	0.13
(1,1116)	1:B:6:DG:N2	1:A:10:DG:N7	6	0.13
(1,1116)	1:B:6:DG:N2	1:B:10:DG:N7	6	0.13
(1,1115)	1:A:6:DG:H21	1:A:10:DG:N7	9	0.13
(1,1115)	1:A:6:DG:H21	1:B:10:DG:N7	9	0.13
(1,1115)	1:B:6:DG:H21	1:A:10:DG:N7	9	0.13
(1,1115)	1:B:6:DG:H21	1:B:10:DG:N7	9	0.13
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	5	0.13
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	5	0.13
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	5	0.13
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	5	0.13
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	8	0.13
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	8	0.13
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	8	0.13
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	8	0.13
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	9	0.13
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	9	0.13
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	9	0.13
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	9	0.13
(1,1101)	1:A:7:DG:H1	1:A:11:DG:O6	5	0.13
(1,1101)	1:A:7:DG:H1	1:B:11:DG:O6	5	0.13
(1,1101)	1:B:7:DG:H1	1:A:11:DG:O6	5	0.13
(1,1101)	1:B:7:DG:H1	1:B:11:DG:O6	5	0.13
(1,1101)	1:A:7:DG:H1	1:A:11:DG:O6	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1101)	1:A:7:DG:H1	1:B:11:DG:O6	6	0.13
(1,1101)	1:B:7:DG:H1	1:A:11:DG:O6	6	0.13
(1,1101)	1:B:7:DG:H1	1:B:11:DG:O6	6	0.13
(1,1097)	1:A:3:DG:H1	1:A:7:DG:O6	10	0.13
(1,1097)	1:A:3:DG:H1	1:B:7:DG:O6	10	0.13
(1,1097)	1:B:3:DG:H1	1:A:7:DG:O6	10	0.13
(1,1097)	1:B:3:DG:H1	1:B:7:DG:O6	10	0.13
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	2	0.13
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	2	0.13
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	2	0.13
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	2	0.13
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	5	0.13
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	5	0.13
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	5	0.13
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	5	0.13
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	8	0.13
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	8	0.13
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	8	0.13
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	8	0.13
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	4	0.13
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	4	0.13
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	4	0.13
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	4	0.13
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	9	0.13
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	9	0.13
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	9	0.13
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	9	0.13
(1,1000)	1:A:13:DG:H2 <sup>?</sup>	1:A:14:DG:H8	5	0.13
(1,1000)	1:A:13:DG:H2 <sup>?</sup>	1:B:14:DG:H8	5	0.13
(1,1000)	1:B:13:DG:H2 <sup>?</sup>	1:A:14:DG:H8	5	0.13
(1,1000)	1:B:13:DG:H2 <sup>?</sup>	1:B:14:DG:H8	5	0.13
(1,1000)	1:A:13:DG:H2 <sup>?</sup>	1:A:14:DG:H8	7	0.13
(1,1000)	1:A:13:DG:H2 <sup>?</sup>	1:B:14:DG:H8	7	0.13
(1,1000)	1:B:13:DG:H2 <sup>?</sup>	1:A:14:DG:H8	7	0.13
(1,1000)	1:B:13:DG:H2 <sup>?</sup>	1:B:14:DG:H8	7	0.13
(1,845)	1:A:5:DG:H8	1:A:6:DG:H8	2	0.12
(1,845)	1:A:5:DG:H8	1:B:6:DG:H8	2	0.12
(1,845)	1:B:5:DG:H8	1:A:6:DG:H8	2	0.12
(1,845)	1:B:5:DG:H8	1:B:6:DG:H8	2	0.12
(1,816)	1:A:4:DG:H2 <sup>?</sup>	1:A:4:DG:H8	2	0.12
(1,816)	1:A:4:DG:H2 <sup>?</sup>	1:B:4:DG:H8	2	0.12
(1,816)	1:B:4:DG:H2 <sup>?</sup>	1:A:4:DG:H8	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,816)	1:B:4:DG:H2'	1:B:4:DG:H8	2	0.12
(1,757)	1:A:3:DG:H1'	1:A:3:DG:H8	6	0.12
(1,757)	1:A:3:DG:H1'	1:B:3:DG:H8	6	0.12
(1,757)	1:B:3:DG:H1'	1:A:3:DG:H8	6	0.12
(1,757)	1:B:3:DG:H1'	1:B:3:DG:H8	6	0.12
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	6	0.12
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	6	0.12
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	6	0.12
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	6	0.12
(1,734)	1:A:2:DG:H4'	1:A:2:DG:H8	5	0.12
(1,734)	1:A:2:DG:H4'	1:B:2:DG:H8	5	0.12
(1,734)	1:B:2:DG:H4'	1:A:2:DG:H8	5	0.12
(1,734)	1:B:2:DG:H4'	1:B:2:DG:H8	5	0.12
(1,654)	1:A:18:DG:H1'	1:A:18:DG:H2''	3	0.12
(1,654)	1:A:18:DG:H1'	1:B:18:DG:H2''	3	0.12
(1,654)	1:B:18:DG:H1'	1:A:18:DG:H2''	3	0.12
(1,654)	1:B:18:DG:H1'	1:B:18:DG:H2''	3	0.12
(1,639)	1:A:17:DG:H1'	1:A:17:DG:H4'	8	0.12
(1,639)	1:A:17:DG:H1'	1:B:17:DG:H4'	8	0.12
(1,639)	1:B:17:DG:H1'	1:A:17:DG:H4'	8	0.12
(1,639)	1:B:17:DG:H1'	1:B:17:DG:H4'	8	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	1	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	1	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	1	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	1	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	2	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	2	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	2	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	2	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	3	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	3	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	3	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	3	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	5	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	5	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	5	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	5	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	6	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	6	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	6	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	6	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	7	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	7	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	7	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	8	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	8	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	8	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	8	0.12
(1,608)	1:A:16:DT:H1'	1:A:16:DT:H2'	10	0.12
(1,608)	1:A:16:DT:H1'	1:B:16:DT:H2'	10	0.12
(1,608)	1:B:16:DT:H1'	1:A:16:DT:H2'	10	0.12
(1,608)	1:B:16:DT:H1'	1:B:16:DT:H2'	10	0.12
(1,605)	1:A:16:DT:H1'	1:A:16:DT:H4'	10	0.12
(1,605)	1:A:16:DT:H1'	1:B:16:DT:H4'	10	0.12
(1,605)	1:B:16:DT:H1'	1:A:16:DT:H4'	10	0.12
(1,605)	1:B:16:DT:H1'	1:B:16:DT:H4'	10	0.12
(1,601)	1:A:15:DG:H2'	1:A:15:DG:H8	8	0.12
(1,601)	1:A:15:DG:H2'	1:B:15:DG:H8	8	0.12
(1,601)	1:B:15:DG:H2'	1:A:15:DG:H8	8	0.12
(1,601)	1:B:15:DG:H2'	1:B:15:DG:H8	8	0.12
(1,565)	1:A:13:DG:H2'	1:A:14:DG:H8	1	0.12
(1,565)	1:A:13:DG:H2'	1:B:14:DG:H8	1	0.12
(1,565)	1:B:13:DG:H2'	1:A:14:DG:H8	1	0.12
(1,565)	1:B:13:DG:H2'	1:B:14:DG:H8	1	0.12
(1,565)	1:A:13:DG:H2'	1:A:14:DG:H8	8	0.12
(1,565)	1:A:13:DG:H2'	1:B:14:DG:H8	8	0.12
(1,565)	1:B:13:DG:H2'	1:A:14:DG:H8	8	0.12
(1,565)	1:B:13:DG:H2'	1:B:14:DG:H8	8	0.12
(1,410)	1:A:5:DG:H8	1:A:6:DG:H8	2	0.12
(1,410)	1:A:5:DG:H8	1:B:6:DG:H8	2	0.12
(1,410)	1:B:5:DG:H8	1:A:6:DG:H8	2	0.12
(1,410)	1:B:5:DG:H8	1:B:6:DG:H8	2	0.12
(1,381)	1:A:4:DG:H2'	1:A:4:DG:H8	2	0.12
(1,381)	1:A:4:DG:H2'	1:B:4:DG:H8	2	0.12
(1,381)	1:B:4:DG:H2'	1:A:4:DG:H8	2	0.12
(1,381)	1:B:4:DG:H2'	1:B:4:DG:H8	2	0.12
(1,322)	1:A:3:DG:H1'	1:A:3:DG:H8	6	0.12
(1,322)	1:A:3:DG:H1'	1:B:3:DG:H8	6	0.12
(1,322)	1:B:3:DG:H1'	1:A:3:DG:H8	6	0.12
(1,322)	1:B:3:DG:H1'	1:B:3:DG:H8	6	0.12
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	6	0.12
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	6	0.12
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	6	0.12
(1,299)	1:A:2:DG:H4'	1:A:2:DG:H8	5	0.12
(1,299)	1:A:2:DG:H4'	1:B:2:DG:H8	5	0.12
(1,299)	1:B:2:DG:H4'	1:A:2:DG:H8	5	0.12
(1,299)	1:B:2:DG:H4'	1:B:2:DG:H8	5	0.12
(1,1181)	1:A:5:DG:H1	1:A:9:DG:O6	5	0.12
(1,1181)	1:A:5:DG:H1	1:B:9:DG:O6	5	0.12
(1,1181)	1:B:5:DG:H1	1:A:9:DG:O6	5	0.12
(1,1181)	1:B:5:DG:H1	1:B:9:DG:O6	5	0.12
(1,1169)	1:A:10:DG:H1	1:A:14:DG:O6	5	0.12
(1,1169)	1:A:10:DG:H1	1:B:14:DG:O6	5	0.12
(1,1169)	1:B:10:DG:H1	1:A:14:DG:O6	5	0.12
(1,1169)	1:B:10:DG:H1	1:B:14:DG:O6	5	0.12
(1,1165)	1:A:6:DG:H1	1:A:10:DG:O6	1	0.12
(1,1165)	1:A:6:DG:H1	1:B:10:DG:O6	1	0.12
(1,1165)	1:B:6:DG:H1	1:A:10:DG:O6	1	0.12
(1,1165)	1:B:6:DG:H1	1:B:10:DG:O6	1	0.12
(1,1165)	1:A:6:DG:H1	1:A:10:DG:O6	7	0.12
(1,1165)	1:A:6:DG:H1	1:B:10:DG:O6	7	0.12
(1,1165)	1:B:6:DG:H1	1:A:10:DG:O6	7	0.12
(1,1165)	1:B:6:DG:H1	1:B:10:DG:O6	7	0.12
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	4	0.12
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	4	0.12
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	4	0.12
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	4	0.12
(1,1149)	1:A:7:DG:H1	1:A:11:DG:O6	9	0.12
(1,1149)	1:A:7:DG:H1	1:B:11:DG:O6	9	0.12
(1,1149)	1:B:7:DG:H1	1:A:11:DG:O6	9	0.12
(1,1149)	1:B:7:DG:H1	1:B:11:DG:O6	9	0.12
(1,1145)	1:A:3:DG:H1	1:A:7:DG:O6	5	0.12
(1,1145)	1:A:3:DG:H1	1:B:7:DG:O6	5	0.12
(1,1145)	1:B:3:DG:H1	1:A:7:DG:O6	5	0.12
(1,1145)	1:B:3:DG:H1	1:B:7:DG:O6	5	0.12
(1,1133)	1:A:5:DG:H1	1:A:9:DG:O6	5	0.12
(1,1133)	1:A:5:DG:H1	1:B:9:DG:O6	5	0.12
(1,1133)	1:B:5:DG:H1	1:A:9:DG:O6	5	0.12
(1,1133)	1:B:5:DG:H1	1:B:9:DG:O6	5	0.12
(1,1121)	1:A:10:DG:H1	1:A:14:DG:O6	5	0.12
(1,1121)	1:A:10:DG:H1	1:B:14:DG:O6	5	0.12
(1,1121)	1:B:10:DG:H1	1:A:14:DG:O6	5	0.12
(1,1121)	1:B:10:DG:H1	1:B:14:DG:O6	5	0.12
(1,1117)	1:A:6:DG:H1	1:A:10:DG:O6	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1117)	1:A:6:DG:H1	1:B:10:DG:O6	1	0.12
(1,1117)	1:B:6:DG:H1	1:A:10:DG:O6	1	0.12
(1,1117)	1:B:6:DG:H1	1:B:10:DG:O6	1	0.12
(1,1117)	1:A:6:DG:H1	1:A:10:DG:O6	7	0.12
(1,1117)	1:A:6:DG:H1	1:B:10:DG:O6	7	0.12
(1,1117)	1:B:6:DG:H1	1:A:10:DG:O6	7	0.12
(1,1117)	1:B:6:DG:H1	1:B:10:DG:O6	7	0.12
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	4	0.12
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	4	0.12
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	4	0.12
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	4	0.12
(1,1101)	1:A:7:DG:H1	1:A:11:DG:O6	9	0.12
(1,1101)	1:A:7:DG:H1	1:B:11:DG:O6	9	0.12
(1,1101)	1:B:7:DG:H1	1:A:11:DG:O6	9	0.12
(1,1101)	1:B:7:DG:H1	1:B:11:DG:O6	9	0.12
(1,1097)	1:A:3:DG:H1	1:A:7:DG:O6	5	0.12
(1,1097)	1:A:3:DG:H1	1:B:7:DG:O6	5	0.12
(1,1097)	1:B:3:DG:H1	1:A:7:DG:O6	5	0.12
(1,1097)	1:B:3:DG:H1	1:B:7:DG:O6	5	0.12
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	3	0.12
(1,1089)	1:A:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	3	0.12
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:A:18:DG:H2 <sup>?</sup>	3	0.12
(1,1089)	1:B:18:DG:H1 <sup>?</sup>	1:B:18:DG:H2 <sup>?</sup>	3	0.12
(1,1074)	1:A:17:DG:H1 <sup>?</sup>	1:A:17:DG:H4 <sup>?</sup>	8	0.12
(1,1074)	1:A:17:DG:H1 <sup>?</sup>	1:B:17:DG:H4 <sup>?</sup>	8	0.12
(1,1074)	1:B:17:DG:H1 <sup>?</sup>	1:A:17:DG:H4 <sup>?</sup>	8	0.12
(1,1074)	1:B:17:DG:H1 <sup>?</sup>	1:B:17:DG:H4 <sup>?</sup>	8	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	1	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	1	0.12
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	1	0.12
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	1	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	2	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	2	0.12
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	2	0.12
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	2	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	3	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	3	0.12
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	3	0.12
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	3	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	5	0.12
(1,1043)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H2 <sup>?</sup>	5	0.12
(1,1043)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H2 <sup>?</sup>	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	1:B:16:DT:H1'	1:B:16:DT:H2'	5	0.12
(1,1043)	1:A:16:DT:H1'	1:A:16:DT:H2'	6	0.12
(1,1043)	1:A:16:DT:H1'	1:B:16:DT:H2'	6	0.12
(1,1043)	1:B:16:DT:H1'	1:A:16:DT:H2'	6	0.12
(1,1043)	1:B:16:DT:H1'	1:B:16:DT:H2'	6	0.12
(1,1043)	1:A:16:DT:H1'	1:A:16:DT:H2'	7	0.12
(1,1043)	1:A:16:DT:H1'	1:B:16:DT:H2'	7	0.12
(1,1043)	1:B:16:DT:H1'	1:A:16:DT:H2'	7	0.12
(1,1043)	1:B:16:DT:H1'	1:B:16:DT:H2'	7	0.12
(1,1043)	1:A:16:DT:H1'	1:A:16:DT:H2'	8	0.12
(1,1043)	1:A:16:DT:H1'	1:B:16:DT:H2'	8	0.12
(1,1043)	1:B:16:DT:H1'	1:A:16:DT:H2'	8	0.12
(1,1043)	1:B:16:DT:H1'	1:B:16:DT:H2'	8	0.12
(1,1043)	1:A:16:DT:H1'	1:A:16:DT:H2'	10	0.12
(1,1043)	1:A:16:DT:H1'	1:B:16:DT:H2'	10	0.12
(1,1043)	1:B:16:DT:H1'	1:A:16:DT:H2'	10	0.12
(1,1043)	1:B:16:DT:H1'	1:B:16:DT:H2'	10	0.12
(1,1040)	1:A:16:DT:H1'	1:A:16:DT:H4'	10	0.12
(1,1040)	1:A:16:DT:H1'	1:B:16:DT:H4'	10	0.12
(1,1040)	1:B:16:DT:H1'	1:A:16:DT:H4'	10	0.12
(1,1040)	1:B:16:DT:H1'	1:B:16:DT:H4'	10	0.12
(1,1036)	1:A:15:DG:H2'	1:A:15:DG:H8	8	0.12
(1,1036)	1:A:15:DG:H2'	1:B:15:DG:H8	8	0.12
(1,1036)	1:B:15:DG:H2'	1:A:15:DG:H8	8	0.12
(1,1036)	1:B:15:DG:H2'	1:B:15:DG:H8	8	0.12
(1,1000)	1:A:13:DG:H2'	1:A:14:DG:H8	1	0.12
(1,1000)	1:A:13:DG:H2'	1:B:14:DG:H8	1	0.12
(1,1000)	1:B:13:DG:H2'	1:A:14:DG:H8	1	0.12
(1,1000)	1:B:13:DG:H2'	1:B:14:DG:H8	1	0.12
(1,1000)	1:A:13:DG:H2'	1:A:14:DG:H8	8	0.12
(1,1000)	1:A:13:DG:H2'	1:B:14:DG:H8	8	0.12
(1,1000)	1:B:13:DG:H2'	1:A:14:DG:H8	8	0.12
(1,1000)	1:B:13:DG:H2'	1:B:14:DG:H8	8	0.12
(1,954)	1:A:11:DG:H2'	1:A:11:DG:H8	4	0.11
(1,954)	1:A:11:DG:H2'	1:B:11:DG:H8	4	0.11
(1,954)	1:B:11:DG:H2'	1:A:11:DG:H8	4	0.11
(1,954)	1:B:11:DG:H2'	1:B:11:DG:H8	4	0.11
(1,931)	1:A:10:DG:H1'	1:A:10:DG:H2''	8	0.11
(1,931)	1:A:10:DG:H1'	1:B:10:DG:H2''	8	0.11
(1,931)	1:B:10:DG:H1'	1:A:10:DG:H2''	8	0.11
(1,931)	1:B:10:DG:H1'	1:B:10:DG:H2''	8	0.11
(1,893)	1:A:8:DA:H1'	1:A:8:DA:H4'	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:A:8:DA:H1'	1:B:8:DA:H4'	5	0.11
(1,893)	1:B:8:DA:H1'	1:A:8:DA:H4'	5	0.11
(1,893)	1:B:8:DA:H1'	1:B:8:DA:H4'	5	0.11
(1,870)	1:A:7:DG:H1'	1:A:7:DG:H4'	10	0.11
(1,870)	1:A:7:DG:H1'	1:B:7:DG:H4'	10	0.11
(1,870)	1:B:7:DG:H1'	1:A:7:DG:H4'	10	0.11
(1,870)	1:B:7:DG:H1'	1:B:7:DG:H4'	10	0.11
(1,865)	1:A:6:DG:H2''	1:A:7:DG:H8	3	0.11
(1,865)	1:A:6:DG:H2''	1:B:7:DG:H8	3	0.11
(1,865)	1:B:6:DG:H2''	1:A:7:DG:H8	3	0.11
(1,865)	1:B:6:DG:H2''	1:B:7:DG:H8	3	0.11
(1,823)	1:A:5:DG:H1'	1:A:5:DG:H2'	8	0.11
(1,823)	1:A:5:DG:H1'	1:B:5:DG:H2'	8	0.11
(1,823)	1:B:5:DG:H1'	1:A:5:DG:H2'	8	0.11
(1,823)	1:B:5:DG:H1'	1:B:5:DG:H2'	8	0.11
(1,780)	1:A:3:DG:H8	1:A:4:DG:H3'	4	0.11
(1,780)	1:A:3:DG:H8	1:B:4:DG:H3'	4	0.11
(1,780)	1:B:3:DG:H8	1:A:4:DG:H3'	4	0.11
(1,780)	1:B:3:DG:H8	1:B:4:DG:H3'	4	0.11
(1,757)	1:A:3:DG:H1'	1:A:3:DG:H8	4	0.11
(1,757)	1:A:3:DG:H1'	1:B:3:DG:H8	4	0.11
(1,757)	1:B:3:DG:H1'	1:A:3:DG:H8	4	0.11
(1,757)	1:B:3:DG:H1'	1:B:3:DG:H8	4	0.11
(1,754)	1:A:2:DG:H1'	1:A:7:DG:H8	10	0.11
(1,754)	1:A:2:DG:H1'	1:B:7:DG:H8	10	0.11
(1,754)	1:B:2:DG:H1'	1:A:7:DG:H8	10	0.11
(1,754)	1:B:2:DG:H1'	1:B:7:DG:H8	10	0.11
(1,751)	1:A:2:DG:H5'	1:A:3:DG:H8	6	0.11
(1,751)	1:A:2:DG:H5'	1:B:3:DG:H8	6	0.11
(1,751)	1:B:2:DG:H5'	1:A:3:DG:H8	6	0.11
(1,751)	1:B:2:DG:H5'	1:B:3:DG:H8	6	0.11
(1,723)	1:A:2:DG:H3'	1:A:2:DG:H5''	7	0.11
(1,723)	1:A:2:DG:H3'	1:B:2:DG:H5''	7	0.11
(1,723)	1:B:2:DG:H3'	1:A:2:DG:H5''	7	0.11
(1,723)	1:B:2:DG:H3'	1:B:2:DG:H5''	7	0.11
(1,722)	1:A:2:DG:H3'	1:A:2:DG:H4'	4	0.11
(1,722)	1:A:2:DG:H3'	1:B:2:DG:H4'	4	0.11
(1,722)	1:B:2:DG:H3'	1:A:2:DG:H4'	4	0.11
(1,722)	1:B:2:DG:H3'	1:B:2:DG:H4'	4	0.11
(1,712)	1:A:1:DA:H2	1:A:15:DG:H2'	2	0.11
(1,712)	1:A:1:DA:H2	1:B:15:DG:H2'	2	0.11
(1,712)	1:B:1:DA:H2	1:A:15:DG:H2'	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,712)	1:B:1:DA:H2	1:B:15:DG:H2'	2	0.11
(1,705)	1:A:1:DA:H2	1:A:15:DG:H8	2	0.11
(1,705)	1:A:1:DA:H2	1:B:15:DG:H8	2	0.11
(1,705)	1:B:1:DA:H2	1:A:15:DG:H8	2	0.11
(1,705)	1:B:1:DA:H2	1:B:15:DG:H8	2	0.11
(1,686)	1:A:1:DA:H2''	1:A:1:DA:H8	7	0.11
(1,686)	1:A:1:DA:H2''	1:B:1:DA:H8	7	0.11
(1,686)	1:B:1:DA:H2''	1:A:1:DA:H8	7	0.11
(1,686)	1:B:1:DA:H2''	1:B:1:DA:H8	7	0.11
(1,686)	1:A:1:DA:H2''	1:A:1:DA:H8	10	0.11
(1,686)	1:A:1:DA:H2''	1:B:1:DA:H8	10	0.11
(1,686)	1:B:1:DA:H2''	1:A:1:DA:H8	10	0.11
(1,686)	1:B:1:DA:H2''	1:B:1:DA:H8	10	0.11
(1,639)	1:A:17:DG:H1'	1:A:17:DG:H4'	6	0.11
(1,639)	1:A:17:DG:H1'	1:B:17:DG:H4'	6	0.11
(1,639)	1:B:17:DG:H1'	1:A:17:DG:H4'	6	0.11
(1,639)	1:B:17:DG:H1'	1:B:17:DG:H4'	6	0.11
(1,605)	1:A:16:DT:H1'	1:A:16:DT:H4'	1	0.11
(1,605)	1:A:16:DT:H1'	1:B:16:DT:H4'	1	0.11
(1,605)	1:B:16:DT:H1'	1:A:16:DT:H4'	1	0.11
(1,605)	1:B:16:DT:H1'	1:B:16:DT:H4'	1	0.11
(1,605)	1:A:16:DT:H1'	1:A:16:DT:H4'	2	0.11
(1,605)	1:A:16:DT:H1'	1:B:16:DT:H4'	2	0.11
(1,605)	1:B:16:DT:H1'	1:A:16:DT:H4'	2	0.11
(1,605)	1:B:16:DT:H1'	1:B:16:DT:H4'	2	0.11
(1,519)	1:A:11:DG:H2'	1:A:11:DG:H8	4	0.11
(1,519)	1:A:11:DG:H2'	1:B:11:DG:H8	4	0.11
(1,519)	1:B:11:DG:H2'	1:A:11:DG:H8	4	0.11
(1,519)	1:B:11:DG:H2'	1:B:11:DG:H8	4	0.11
(1,496)	1:A:10:DG:H1'	1:A:10:DG:H2''	8	0.11
(1,496)	1:A:10:DG:H1'	1:B:10:DG:H2''	8	0.11
(1,496)	1:B:10:DG:H1'	1:A:10:DG:H2''	8	0.11
(1,496)	1:B:10:DG:H1'	1:B:10:DG:H2''	8	0.11
(1,458)	1:A:8:DA:H1'	1:A:8:DA:H4'	5	0.11
(1,458)	1:A:8:DA:H1'	1:B:8:DA:H4'	5	0.11
(1,458)	1:B:8:DA:H1'	1:A:8:DA:H4'	5	0.11
(1,458)	1:B:8:DA:H1'	1:B:8:DA:H4'	5	0.11
(1,435)	1:A:7:DG:H1'	1:A:7:DG:H4'	10	0.11
(1,435)	1:A:7:DG:H1'	1:B:7:DG:H4'	10	0.11
(1,435)	1:B:7:DG:H1'	1:A:7:DG:H4'	10	0.11
(1,435)	1:B:7:DG:H1'	1:B:7:DG:H4'	10	0.11
(1,430)	1:A:6:DG:H2''	1:A:7:DG:H8	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:A:6:DG:H2''	1:B:7:DG:H8	3	0.11
(1,430)	1:B:6:DG:H2''	1:A:7:DG:H8	3	0.11
(1,430)	1:B:6:DG:H2''	1:B:7:DG:H8	3	0.11
(1,388)	1:A:5:DG:H1'	1:A:5:DG:H2'	8	0.11
(1,388)	1:A:5:DG:H1'	1:B:5:DG:H2'	8	0.11
(1,388)	1:B:5:DG:H1'	1:A:5:DG:H2'	8	0.11
(1,388)	1:B:5:DG:H1'	1:B:5:DG:H2'	8	0.11
(1,345)	1:A:3:DG:H8	1:A:4:DG:H3'	4	0.11
(1,345)	1:A:3:DG:H8	1:B:4:DG:H3'	4	0.11
(1,345)	1:B:3:DG:H8	1:A:4:DG:H3'	4	0.11
(1,345)	1:B:3:DG:H8	1:B:4:DG:H3'	4	0.11
(1,322)	1:A:3:DG:H1'	1:A:3:DG:H8	4	0.11
(1,322)	1:A:3:DG:H1'	1:B:3:DG:H8	4	0.11
(1,322)	1:B:3:DG:H1'	1:A:3:DG:H8	4	0.11
(1,322)	1:B:3:DG:H1'	1:B:3:DG:H8	4	0.11
(1,319)	1:A:2:DG:H1'	1:A:7:DG:H8	10	0.11
(1,319)	1:A:2:DG:H1'	1:B:7:DG:H8	10	0.11
(1,319)	1:B:2:DG:H1'	1:A:7:DG:H8	10	0.11
(1,319)	1:B:2:DG:H1'	1:B:7:DG:H8	10	0.11
(1,316)	1:A:2:DG:H5'	1:A:3:DG:H8	6	0.11
(1,316)	1:A:2:DG:H5'	1:B:3:DG:H8	6	0.11
(1,316)	1:B:2:DG:H5'	1:A:3:DG:H8	6	0.11
(1,316)	1:B:2:DG:H5'	1:B:3:DG:H8	6	0.11
(1,288)	1:A:2:DG:H3'	1:A:2:DG:H5''	7	0.11
(1,288)	1:A:2:DG:H3'	1:B:2:DG:H5''	7	0.11
(1,288)	1:B:2:DG:H3'	1:A:2:DG:H5''	7	0.11
(1,288)	1:B:2:DG:H3'	1:B:2:DG:H5''	7	0.11
(1,287)	1:A:2:DG:H3'	1:A:2:DG:H4'	4	0.11
(1,287)	1:A:2:DG:H3'	1:B:2:DG:H4'	4	0.11
(1,287)	1:B:2:DG:H3'	1:A:2:DG:H4'	4	0.11
(1,287)	1:B:2:DG:H3'	1:B:2:DG:H4'	4	0.11
(1,277)	1:A:1:DA:H2	1:A:15:DG:H2'	2	0.11
(1,277)	1:A:1:DA:H2	1:B:15:DG:H2'	2	0.11
(1,277)	1:B:1:DA:H2	1:A:15:DG:H2'	2	0.11
(1,277)	1:B:1:DA:H2	1:B:15:DG:H2'	2	0.11
(1,270)	1:A:1:DA:H2	1:A:15:DG:H8	2	0.11
(1,270)	1:A:1:DA:H2	1:B:15:DG:H8	2	0.11
(1,270)	1:B:1:DA:H2	1:A:15:DG:H8	2	0.11
(1,270)	1:B:1:DA:H2	1:B:15:DG:H8	2	0.11
(1,251)	1:A:1:DA:H2''	1:A:1:DA:H8	7	0.11
(1,251)	1:A:1:DA:H2''	1:B:1:DA:H8	7	0.11
(1,251)	1:B:1:DA:H2''	1:A:1:DA:H8	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:B:1:DA:H2''	1:B:1:DA:H8	7	0.11
(1,251)	1:A:1:DA:H2''	1:A:1:DA:H8	10	0.11
(1,251)	1:A:1:DA:H2''	1:B:1:DA:H8	10	0.11
(1,251)	1:B:1:DA:H2''	1:A:1:DA:H8	10	0.11
(1,251)	1:B:1:DA:H2''	1:B:1:DA:H8	10	0.11
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	2	0.11
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	2	0.11
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	2	0.11
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	2	0.11
(1,1185)	1:A:9:DG:H1	1:A:13:DG:O6	8	0.11
(1,1185)	1:A:9:DG:H1	1:B:13:DG:O6	8	0.11
(1,1185)	1:B:9:DG:H1	1:A:13:DG:O6	8	0.11
(1,1185)	1:B:9:DG:H1	1:B:13:DG:O6	8	0.11
(1,1177)	1:A:17:DG:H1	1:A:5:DG:O6	1	0.11
(1,1177)	1:A:17:DG:H1	1:B:5:DG:O6	1	0.11
(1,1177)	1:B:17:DG:H1	1:A:5:DG:O6	1	0.11
(1,1177)	1:B:17:DG:H1	1:B:5:DG:O6	1	0.11
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	2	0.11
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	2	0.11
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	2	0.11
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	2	0.11
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	4	0.11
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	4	0.11
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	4	0.11
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	4	0.11
(1,1173)	1:A:14:DG:H1	1:A:18:DG:O6	8	0.11
(1,1173)	1:A:14:DG:H1	1:B:18:DG:O6	8	0.11
(1,1173)	1:B:14:DG:H1	1:A:18:DG:O6	8	0.11
(1,1173)	1:B:14:DG:H1	1:B:18:DG:O6	8	0.11
(1,1161)	1:A:18:DG:H1	1:A:6:DG:O6	6	0.11
(1,1161)	1:A:18:DG:H1	1:B:6:DG:O6	6	0.11
(1,1161)	1:B:18:DG:H1	1:A:6:DG:O6	6	0.11
(1,1161)	1:B:18:DG:H1	1:B:6:DG:O6	6	0.11
(1,1155)	1:A:15:DG:H21	1:A:3:DG:N7	1	0.11
(1,1155)	1:A:15:DG:H21	1:B:3:DG:N7	1	0.11
(1,1155)	1:B:15:DG:H21	1:A:3:DG:N7	1	0.11
(1,1155)	1:B:15:DG:H21	1:B:3:DG:N7	1	0.11
(1,1145)	1:A:3:DG:H1	1:A:7:DG:O6	1	0.11
(1,1145)	1:A:3:DG:H1	1:B:7:DG:O6	1	0.11
(1,1145)	1:B:3:DG:H1	1:A:7:DG:O6	1	0.11
(1,1145)	1:B:3:DG:H1	1:B:7:DG:O6	1	0.11
(1,1145)	1:A:3:DG:H1	1:A:7:DG:O6	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1145)	1:A:3:DG:H1	1:B:7:DG:O6	2	0.11
(1,1145)	1:B:3:DG:H1	1:A:7:DG:O6	2	0.11
(1,1145)	1:B:3:DG:H1	1:B:7:DG:O6	2	0.11
(1,1145)	1:A:3:DG:H1	1:A:7:DG:O6	8	0.11
(1,1145)	1:A:3:DG:H1	1:B:7:DG:O6	8	0.11
(1,1145)	1:B:3:DG:H1	1:A:7:DG:O6	8	0.11
(1,1145)	1:B:3:DG:H1	1:B:7:DG:O6	8	0.11
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	2	0.11
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	2	0.11
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	2	0.11
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	2	0.11
(1,1137)	1:A:9:DG:H1	1:A:13:DG:O6	8	0.11
(1,1137)	1:A:9:DG:H1	1:B:13:DG:O6	8	0.11
(1,1137)	1:B:9:DG:H1	1:A:13:DG:O6	8	0.11
(1,1137)	1:B:9:DG:H1	1:B:13:DG:O6	8	0.11
(1,1129)	1:A:17:DG:H1	1:A:5:DG:O6	1	0.11
(1,1129)	1:A:17:DG:H1	1:B:5:DG:O6	1	0.11
(1,1129)	1:B:17:DG:H1	1:A:5:DG:O6	1	0.11
(1,1129)	1:B:17:DG:H1	1:B:5:DG:O6	1	0.11
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	2	0.11
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	2	0.11
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	2	0.11
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	2	0.11
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	4	0.11
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	4	0.11
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	4	0.11
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	4	0.11
(1,1125)	1:A:14:DG:H1	1:A:18:DG:O6	8	0.11
(1,1125)	1:A:14:DG:H1	1:B:18:DG:O6	8	0.11
(1,1125)	1:B:14:DG:H1	1:A:18:DG:O6	8	0.11
(1,1125)	1:B:14:DG:H1	1:B:18:DG:O6	8	0.11
(1,1113)	1:A:18:DG:H1	1:A:6:DG:O6	6	0.11
(1,1113)	1:A:18:DG:H1	1:B:6:DG:O6	6	0.11
(1,1113)	1:B:18:DG:H1	1:A:6:DG:O6	6	0.11
(1,1113)	1:B:18:DG:H1	1:B:6:DG:O6	6	0.11
(1,1107)	1:A:15:DG:H21	1:A:3:DG:N7	1	0.11
(1,1107)	1:A:15:DG:H21	1:B:3:DG:N7	1	0.11
(1,1107)	1:B:15:DG:H21	1:A:3:DG:N7	1	0.11
(1,1107)	1:B:15:DG:H21	1:B:3:DG:N7	1	0.11
(1,1097)	1:A:3:DG:H1	1:A:7:DG:O6	1	0.11
(1,1097)	1:A:3:DG:H1	1:B:7:DG:O6	1	0.11
(1,1097)	1:B:3:DG:H1	1:A:7:DG:O6	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1097)	1:B:3:DG:H1	1:B:7:DG:O6	1	0.11
(1,1097)	1:A:3:DG:H1	1:A:7:DG:O6	2	0.11
(1,1097)	1:A:3:DG:H1	1:B:7:DG:O6	2	0.11
(1,1097)	1:B:3:DG:H1	1:A:7:DG:O6	2	0.11
(1,1097)	1:B:3:DG:H1	1:B:7:DG:O6	2	0.11
(1,1097)	1:A:3:DG:H1	1:A:7:DG:O6	8	0.11
(1,1097)	1:A:3:DG:H1	1:B:7:DG:O6	8	0.11
(1,1097)	1:B:3:DG:H1	1:A:7:DG:O6	8	0.11
(1,1097)	1:B:3:DG:H1	1:B:7:DG:O6	8	0.11
(1,1074)	1:A:17:DG:H1 <sup>?</sup>	1:A:17:DG:H4 <sup>?</sup>	6	0.11
(1,1074)	1:A:17:DG:H1 <sup>?</sup>	1:B:17:DG:H4 <sup>?</sup>	6	0.11
(1,1074)	1:B:17:DG:H1 <sup>?</sup>	1:A:17:DG:H4 <sup>?</sup>	6	0.11
(1,1074)	1:B:17:DG:H1 <sup>?</sup>	1:B:17:DG:H4 <sup>?</sup>	6	0.11
(1,1040)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H4 <sup>?</sup>	1	0.11
(1,1040)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H4 <sup>?</sup>	1	0.11
(1,1040)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H4 <sup>?</sup>	1	0.11
(1,1040)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H4 <sup>?</sup>	1	0.11
(1,1040)	1:A:16:DT:H1 <sup>?</sup>	1:A:16:DT:H4 <sup>?</sup>	2	0.11
(1,1040)	1:A:16:DT:H1 <sup>?</sup>	1:B:16:DT:H4 <sup>?</sup>	2	0.11
(1,1040)	1:B:16:DT:H1 <sup>?</sup>	1:A:16:DT:H4 <sup>?</sup>	2	0.11
(1,1040)	1:B:16:DT:H1 <sup>?</sup>	1:B:16:DT:H4 <sup>?</sup>	2	0.11

## 10 Dihedral-angle violation analysis [i](#)

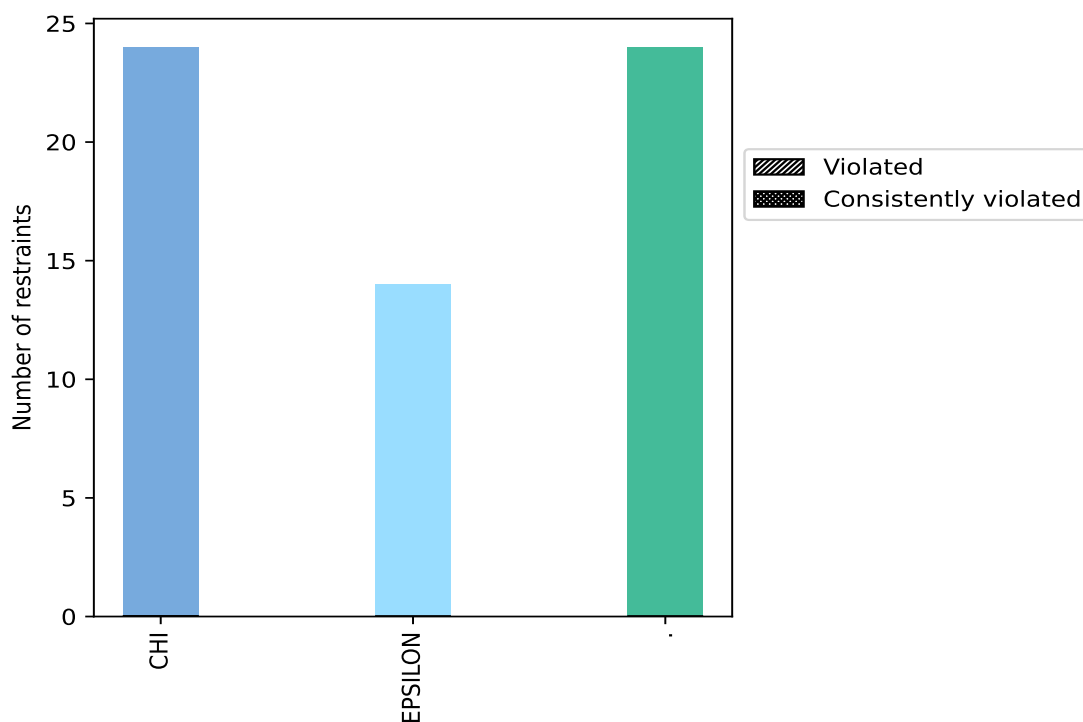
### 10.1 Summary of dihedral-angle violations [i](#)

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
CHI	24	38.7	0	0.0	0.0	0	0.0	0.0
EPSILON	14	22.6	0	0.0	0.0	0	0.0	0.0
.	24	38.7	0	0.0	0.0	0	0.0	0.0
Total	62	100.0	0	0.0	0.0	0	0.0	0.0

<sup>1</sup> percentage calculated with respect to total number of dihedral-angle restraints, <sup>2</sup> percentage calculated with respect to number of restraints in a particular dihedral-angle type, <sup>3</sup> violated in at least one model, <sup>4</sup> violated in all the models

#### 10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories



## 10.2 Dihedral-angle violation statistics for each model [i](#)

No violations found

## 10.3 Dihedral-angle violation statistics for the ensemble [i](#)

No violations found

## 10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

No violations found

## 10.5 All violated dihedral-angle restraints [i](#)

No violations found