



Full wwPDB NMR Structure Validation Report ⓘ

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BMRB ID : 34796
Title : NMR structure determination of a dynamic and thermodynamically stable CUUG RNA tetraloop
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Deposited on : 2025-10-10

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.46

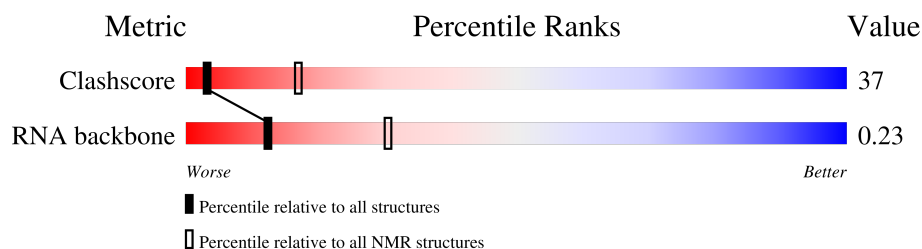
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 83%.

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	210492	14027
RNA backbone	6643	756

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	14	

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 [i](#)

There is only 1 type of molecule in this entry. The entry contains 451 atoms, of which 153 are hydrogens and 0 are deuteriums.

- Molecule 1 is a RNA chain called RNA hairpin with CUUG tetraloop.

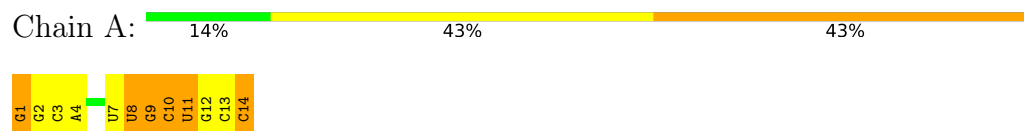
Mol	Chain	Residues	Atoms						Trace
1	A	14	Total	C	H	N	O	P	0
			451	132	153	51	101	14	

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: RNA hairpin with CUUG tetraloop

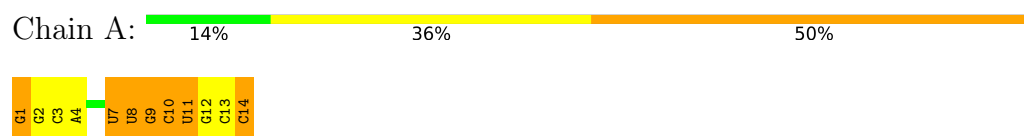


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

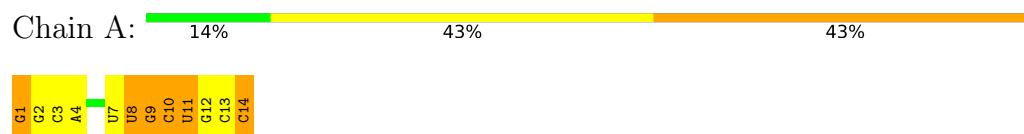
4.2.1 Score per residue for model 1

- Molecule 1: RNA hairpin with CUUG tetraloop



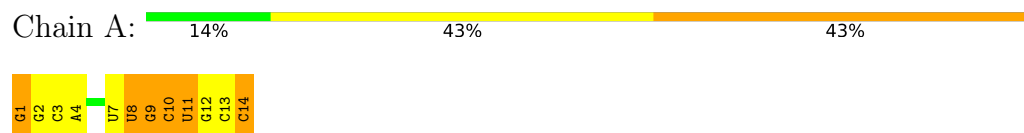
4.2.2 Score per residue for model 2

- Molecule 1: RNA hairpin with CUUG tetraloop



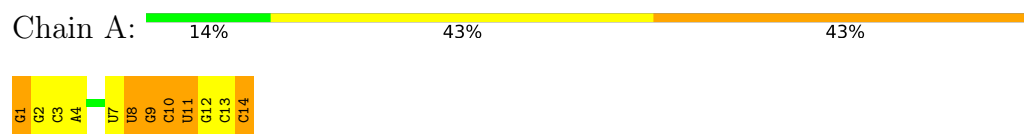
4.2.3 Score per residue for model 3

- Molecule 1: RNA hairpin with CUUG tetraloop



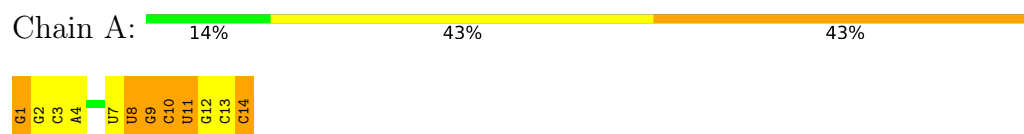
4.2.4 Score per residue for model 4

- Molecule 1: RNA hairpin with CUUG tetraloop



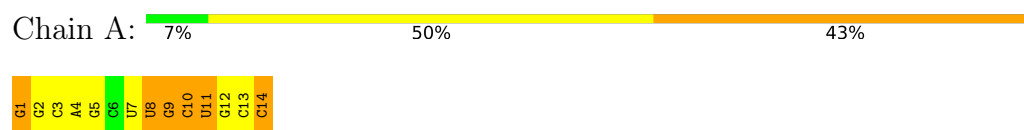
4.2.5 Score per residue for model 5

- Molecule 1: RNA hairpin with CUUG tetraloop



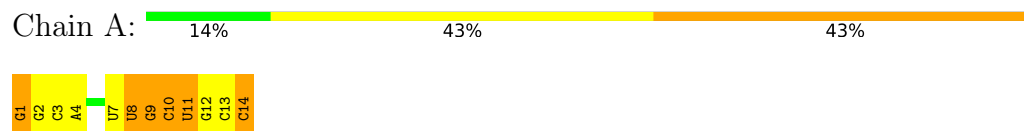
4.2.6 Score per residue for model 6

- Molecule 1: RNA hairpin with CUUG tetraloop



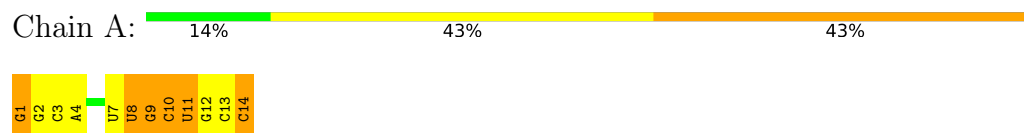
4.2.7 Score per residue for model 7

- Molecule 1: RNA hairpin with CUUG tetraloop



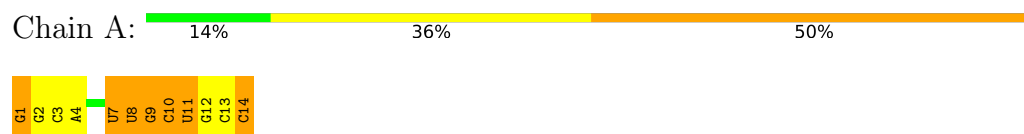
4.2.8 Score per residue for model 8

- Molecule 1: RNA hairpin with CUUG tetraloop



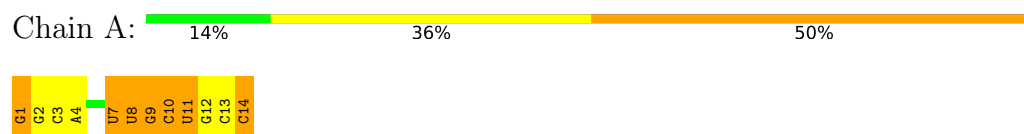
4.2.9 Score per residue for model 9

- Molecule 1: RNA hairpin with CUUG tetraloop



4.2.10 Score per residue for model 10

- Molecule 1: RNA hairpin with CUUG tetraloop



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 200 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
ARIA	structure calculation	
CNS	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	238
Number of shifts mapped to atoms	238
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	83%

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	0.40±0.00	1±0/331 (0.3± 0.0%)	0.64±0.00	0±0/512 (0.0± 0.0%)
All	All	0.40	10/3310 (0.3%)	0.64	0/5120 (0.0%)

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	1	G	OP3-P	5.69	1.59	1.48	10	10

There are no bond-angle outliers.

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	298	153	152	17±1
All	All	2980	1530	1520	166

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 37.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:U:H2'	1:A:12:G:O4'	0.80	1.75	8	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:1:G:H2'	1:A:2:G:O4'	0.74	1.83	4	10
1:A:14:C:H6	1:A:14:C:O5'	0.68	1.72	10	10
1:A:13:C:H2'	1:A:14:C:C6	0.65	2.27	2	10
1:A:10:C:H2'	1:A:11:U:C5	0.63	2.28	8	10
1:A:13:C:H2'	1:A:14:C:C5	0.60	2.32	3	10
1:A:3:C:H2'	1:A:4:A:C8	0.57	2.34	5	10
1:A:10:C:H4'	1:A:11:U:OP1	0.57	2.00	5	10
1:A:8:U:H1'	1:A:9:G:C8	0.55	2.36	6	10
1:A:9:G:N2	1:A:10:C:N3	0.51	2.50	1	7
1:A:9:G:O2'	1:A:10:C:C5	0.50	2.64	1	8
1:A:8:U:O2	1:A:9:G:N7	0.50	2.45	8	10
1:A:14:C:O5'	1:A:14:C:C6	0.49	2.60	10	3
1:A:8:U:C1'	1:A:9:G:C8	0.48	2.96	9	9
1:A:9:G:O2'	1:A:10:C:C6	0.47	2.68	9	9
1:A:14:C:C6	1:A:14:C:O5'	0.46	2.66	9	7
1:A:9:G:N2	1:A:10:C:C4	0.45	2.85	5	9
1:A:8:U:C2	1:A:9:G:N7	0.43	2.86	9	2
1:A:1:G:O5'	1:A:1:G:H8	0.43	1.97	8	1
1:A:4:A:H2'	1:A:5:G:O4'	0.43	2.14	6	1
1:A:7:U:O5'	1:A:7:U:H6	0.42	1.96	1	3
1:A:8:U:H4'	1:A:9:G:O5'	0.42	2.15	3	2
1:A:10:C:C2'	1:A:11:U:C5	0.41	3.03	6	3
1:A:12:G:O2'	1:A:13:C:H5'	0.41	2.15	8	1
1:A:11:U:C4	1:A:12:G:C5	0.41	3.08	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](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
1	A	13/14 (93%)	4±0 (31±0%)	2±0 (15±0%)	0.30±0.00

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
All	All	130/140 (93%)	40 (31%)	20 (15%)	0.30

The overall RNA backbone suiteness is 0.23.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	7	U	10
1	A	9	G	10
1	A	11	U	10
1	A	14	C	10

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	8	U	10
1	A	10	C	10

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 oligosaccharides 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

The completeness of assignment taking into account all chemical shift lists is 83% for the well-defined parts and 83% for the entire structure.

7.1 Chemical shift list 1

File name: `working_cs.cif`

Chemical shift list name: *starch_output*

7.1.1 Bookkeeping

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

Total number of shifts	238
Number of shifts mapped to atoms	238
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

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

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 83%, i.e. 219 atoms were assigned a chemical shift out of a possible 265. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Sugar	154/154 (100%)	84/84 (100%)	70/70 (100%)	0/0 (—%)
Base	65/111 (59%)	35/69 (51%)	20/23 (87%)	10/19 (53%)
Overall	219/265 (83%)	119/153 (78%)	90/93 (97%)	10/19 (53%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 83%, i.e. 219 atoms were assigned a chemical shift out of a possible 265. 0 out of 0 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Sugar	154/154 (100%)	84/84 (100%)	70/70 (100%)	0/0 (—%)
Base	65/111 (59%)	35/69 (51%)	20/23 (87%)	10/19 (53%)
Overall	219/265 (83%)	119/153 (78%)	90/93 (97%)	10/19 (53%)

7.1.4 Statistically unusual chemical shifts ⓘ

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots ⓘ

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	502
Intra-residue ($ i-j =0$)	307
Sequential ($ i-j =1$)	152
Medium range ($ i-j >1$ and $ i-j <5$)	6
Long range ($ i-j \geq 5$)	3
Inter-chain	0
Hydrogen bond restraints	34
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	35.9
Number of long range restraints per residue ¹	2.2

¹Long 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)	4.0	0.2
0.2-0.5 (Medium)	3.2	0.5
>0.5 (Large)	463.0	4.55

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

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

9 Distance violation analysis ⓘ

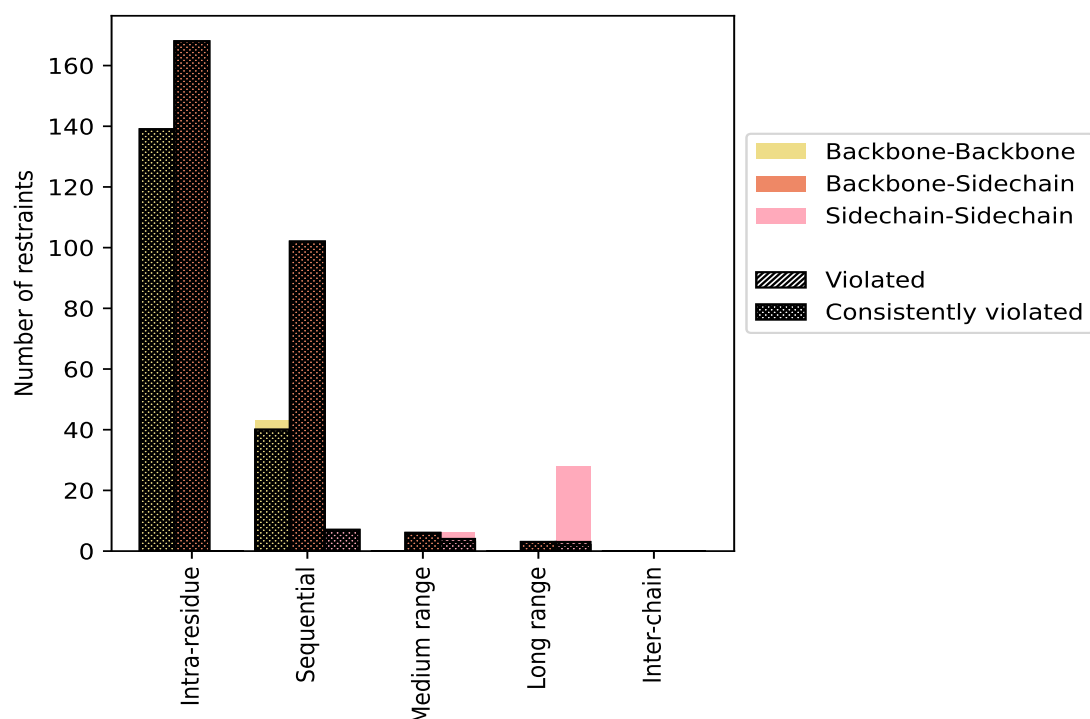
9.1 Summary of distance violations ⓘ

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	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	307	61.2	307	100.0	61.2	307	100.0	61.2
Backbone-Backbone	139	27.7	139	100.0	27.7	139	100.0	27.7
Backbone-Sidechain	168	33.5	168	100.0	33.5	168	100.0	33.5
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	152	30.3	149	98.0	29.7	149	98.0	29.7
Backbone-Backbone	43	8.6	40	93.0	8.0	40	93.0	8.0
Backbone-Sidechain	102	20.3	102	100.0	20.3	102	100.0	20.3
Sidechain-Sidechain	7	1.4	7	100.0	1.4	7	100.0	1.4
Medium range (i-j >1 & i-j <5)	6	1.2	6	100.0	1.2	6	100.0	1.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	6	1.2	6	100.0	1.2	6	100.0	1.2
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (i-j ≥5)	3	0.6	3	100.0	0.6	3	100.0	0.6
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	3	0.6	3	100.0	0.6	3	100.0	0.6
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	34	6.8	7	20.6	1.4	5	14.7	1.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	502	100.0	472	94.0	94.0	470	93.6	93.6
Backbone-Backbone	182	36.3	179	98.4	35.7	179	98.4	35.7
Backbone-Sidechain	279	55.6	279	100.0	55.6	279	100.0	55.6
Sidechain-Sidechain	41	8.2	14	34.1	2.8	12	29.3	2.4

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

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



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

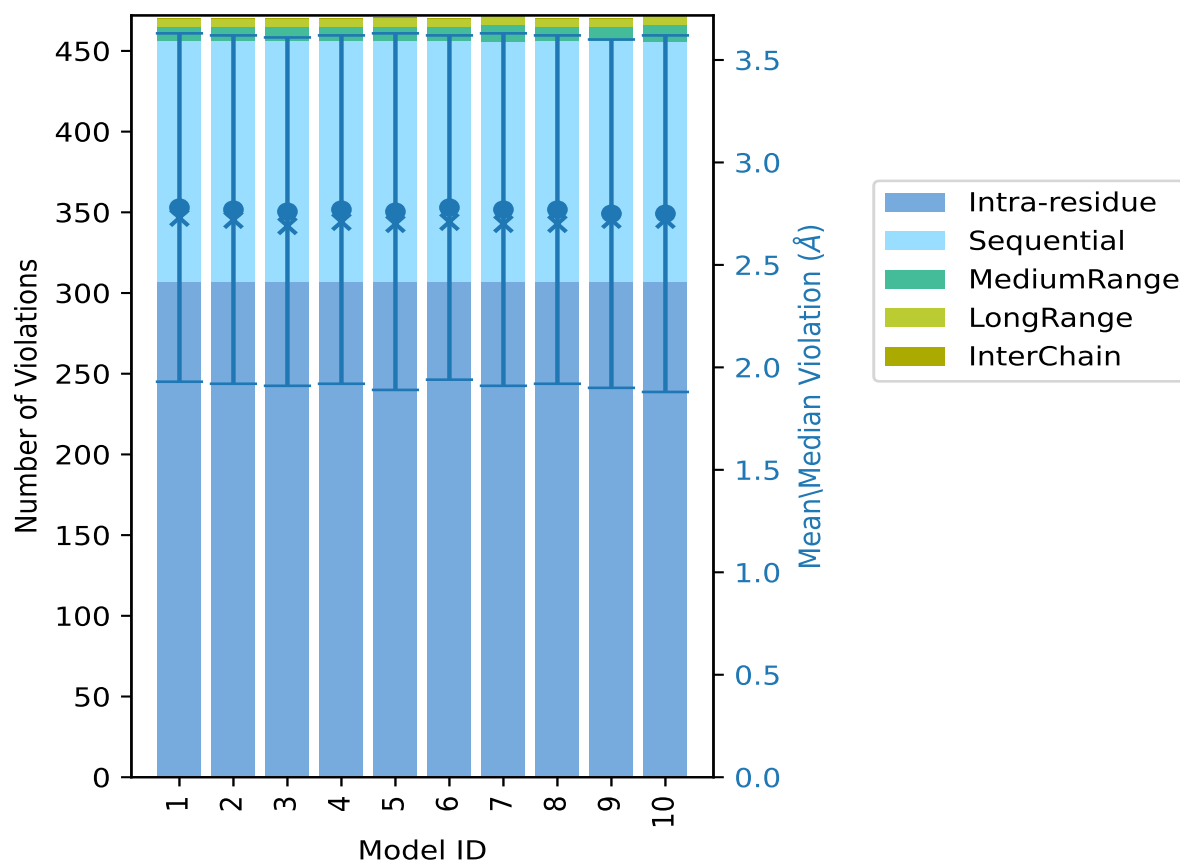
9.2 Distance violation statistics for each model [i](#)

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 ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	307	149	9	5	0	470	2.78	4.53	0.85	2.73
2	307	149	9	5	0	470	2.77	4.46	0.85	2.72
3	307	149	9	5	0	470	2.76	4.53	0.85	2.69
4	307	149	9	5	0	470	2.77	4.48	0.85	2.71
5	307	149	9	6	0	471	2.76	4.54	0.87	2.7
6	307	149	9	5	0	470	2.78	4.51	0.84	2.71
7	307	149	10	6	0	472	2.77	4.52	0.86	2.7
8	307	149	9	5	0	470	2.77	4.55	0.85	2.7
9	307	149	9	5	0	470	2.75	4.53	0.85	2.72
10	307	149	10	6	0	472	2.75	4.52	0.87	2.72

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard 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, 3(IR:0, SQ:3, MR:0, LR:0, IC:0) restraints are not violated in the ensemble.

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

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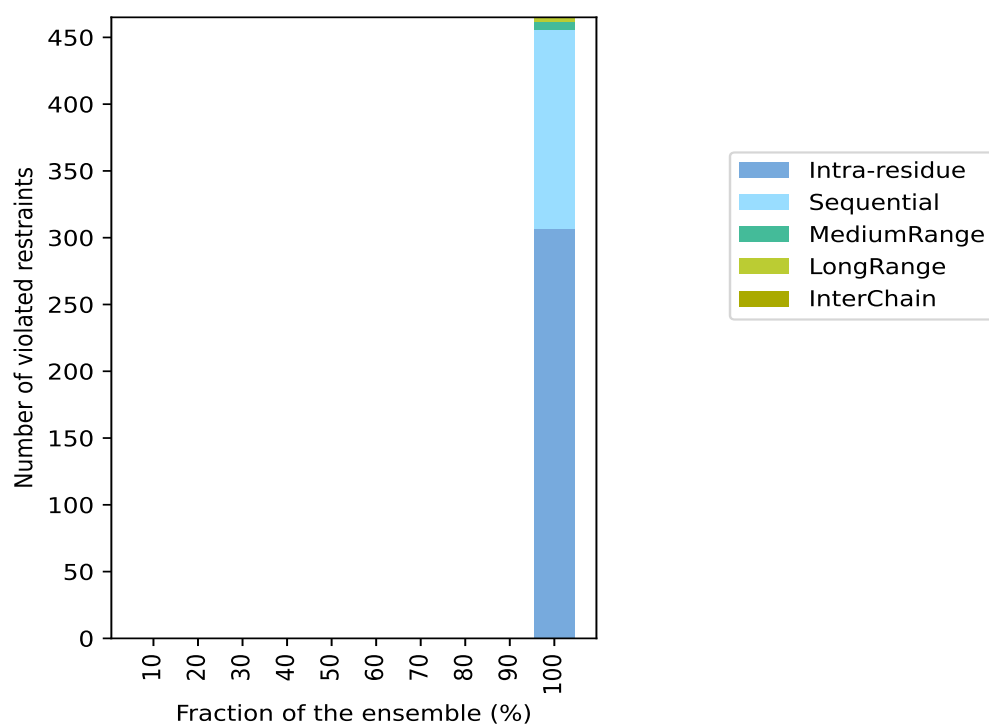
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	0	0	4	40.0
0	0	0	0	0	0	5	50.0
0	0	0	0	0	0	6	60.0
0	0	0	0	0	0	7	70.0
0	0	0	0	0	0	8	80.0
0	0	0	0	0	0	9	90.0
307	149	6	3	0	465	10	100.0

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

⁵Inter-chain restraints, ⁶ Number of models with violations

9.3.1 Bar graph : Distance violation statistics for the ensemble ⓘ

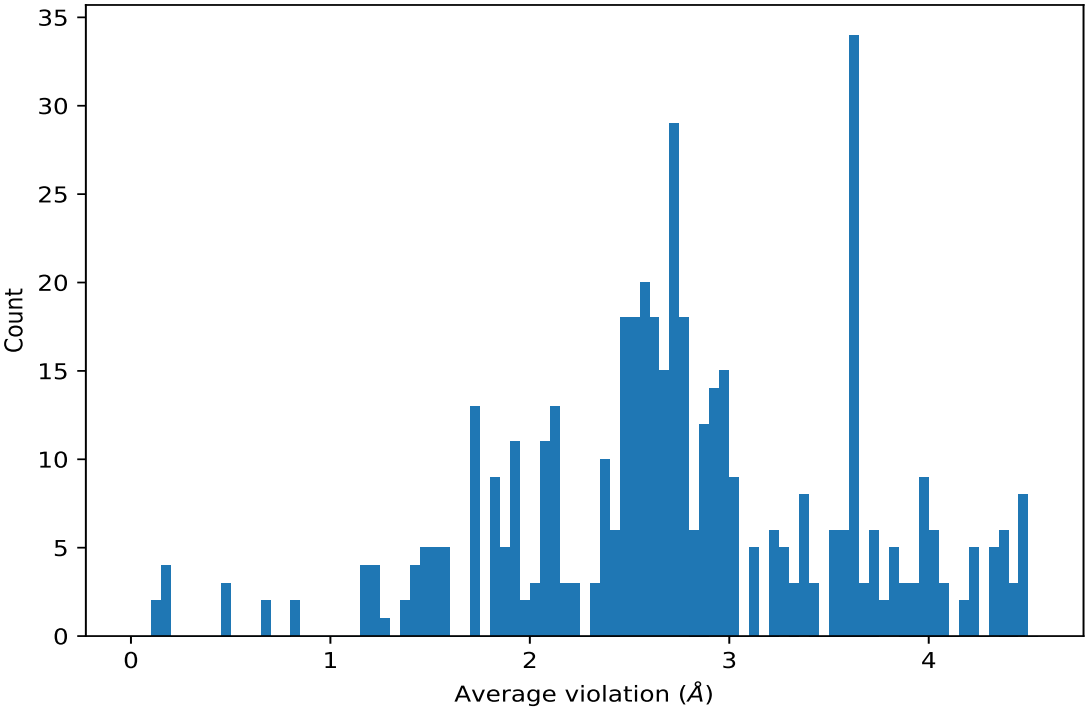


9.4 Most violated distance restraints in the ensemble ⓘ

9.4.1 Histogram : Distribution of mean distance violations ⓘ

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

in the ensemble



9.4.2 Table: Most violated distance restraints [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 ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	10	4.48	0.08	4.53
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	10	4.48	0.08	4.53
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	10	4.48	0.03	4.48
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	10	4.48	0.03	4.48
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	10	4.48	0.03	4.48
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	10	4.46	0.04	4.47
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	10	4.46	0.04	4.47
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	10	4.46	0.04	4.47
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	10	4.42	0.01	4.42
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	10	4.42	0.01	4.42
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	10	4.42	0.01	4.42
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	10	4.39	0.03	4.39
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	10	4.39	0.03	4.39
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	10	4.39	0.03	4.39
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38	0.03	4.39

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38	0.03	4.39
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38	0.03	4.39
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	10	4.34	0.06	4.33
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	10	4.34	0.06	4.33
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	10	4.34	0.06	4.33
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	10	4.31	0.02	4.31
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	10	4.31	0.02	4.31
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.2	0.01	4.2
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	10	4.2	0.06	4.2
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.2	0.01	4.2
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	10	4.2	0.06	4.2
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.2	0.01	4.2
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	10	4.18	0.01	4.19
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	10	4.18	0.01	4.19
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	10	4.08	0.02	4.08
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	10	4.08	0.02	4.08
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	10	4.06	0.01	4.06
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01	0.0	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01	0.0	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01	0.0	4.01
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	10	4.0	0.0	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	10	4.0	0.0	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	10	4.0	0.0	4.0
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	10	3.99	0.0	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	10	3.99	0.0	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	10	3.99	0.0	3.99
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	10	3.96	0.09	3.98
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	10	3.96	0.09	3.98
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	10	3.96	0.09	3.98
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.96	0.01	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.96	0.01	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.96	0.01	3.96
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	10	3.9	0.02	3.9
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	10	3.9	0.02	3.9
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	10	3.9	0.02	3.9
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	10	3.87	0.1	3.89
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	10	3.87	0.1	3.89
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	10	3.87	0.1	3.89
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.82	0.07	3.82
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.82	0.07	3.82
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	10	3.82	0.05	3.82
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	10	3.82	0.05	3.82

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	10	3.82	0.05	3.82
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	10	3.76	0.03	3.76
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	10	3.76	0.03	3.76
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	10	3.72	0.1	3.72
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	10	3.72	0.1	3.72
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	10	3.72	0.1	3.72
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	10	3.71	0.02	3.72
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	10	3.71	0.02	3.72
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	10	3.71	0.02	3.72
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.69	0.0	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.69	0.0	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.69	0.0	3.69
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	10	3.64	0.0	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.64	0.0	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	10	3.64	0.0	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.64	0.0	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	10	3.64	0.0	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.64	0.0	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64	0.0	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64	0.0	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64	0.0	3.64
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.62	0.01	3.62
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.62	0.01	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.62	0.01	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62	0.0	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.62	0.0	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62	0.0	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.62	0.0	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62	0.0	3.62
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	10	3.62	0.04	3.61
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	10	3.62	0.04	3.61
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	10	3.62	0.04	3.61
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62	0.0	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62	0.0	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62	0.0	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62	0.0	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62	0.0	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62	0.0	3.62
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61	0.0	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61	0.0	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61	0.0	3.61
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	10	3.61	0.08	3.61

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	10	3.61	0.08	3.61
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	10	3.6	0.15	3.66
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	10	3.6	0.15	3.66
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	10	3.6	0.15	3.66
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.57	0.01	3.57
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.57	0.01	3.57
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.57	0.01	3.57
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	10	3.56	0.04	3.56
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	10	3.56	0.04	3.56
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	10	3.56	0.04	3.56
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	10	3.52	0.03	3.51
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	10	3.52	0.03	3.51
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	10	3.52	0.03	3.51
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	10	3.5	0.05	3.5
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	10	3.5	0.05	3.5
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	10	3.5	0.05	3.5
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	10	3.43	0.0	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	10	3.43	0.0	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	10	3.43	0.0	3.43
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	10	3.36	0.01	3.36
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	10	3.36	0.01	3.36
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	10	3.35	0.01	3.35
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	10	3.35	0.01	3.35
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	10	3.35	0.01	3.35
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	10	3.35	0.01	3.34
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	10	3.35	0.01	3.34
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	10	3.35	0.01	3.34
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.32	0.04	3.31
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.32	0.04	3.31
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.32	0.04	3.31
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	10	3.29	0.13	3.3
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	10	3.29	0.13	3.3
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	10	3.29	0.13	3.3
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.26	0.03	3.26
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.26	0.03	3.26
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.22	0.01	3.22
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.22	0.01	3.22
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.22	0.01	3.22
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	10	3.22	0.01	3.22
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	10	3.22	0.01	3.22
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	10	3.22	0.01	3.22
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	10	3.14	0.12	3.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	10	3.14	0.12	3.16
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	10	3.14	0.03	3.15
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	10	3.14	0.03	3.15
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	10	3.14	0.03	3.15
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.04	0.04	3.04
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.04	0.04	3.04
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.04	0.04	3.04
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	10	3.01	0.03	3.02
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	10	3.01	0.03	3.02
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	10	3.01	0.03	3.02
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	10	3.0	0.03	2.99
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	10	3.0	0.03	2.99
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	10	3.0	0.03	2.99
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	10	2.99	0.16	2.97
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	10	2.99	0.16	2.97
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.99	0.02	2.99
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.99	0.02	2.99
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.99	0.02	2.99
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	10	2.96	0.01	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	10	2.96	0.01	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	10	2.96	0.01	2.96
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	10	2.96	0.03	2.95
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	10	2.95	0.05	2.96
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	10	2.95	0.05	2.96
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	10	2.95	0.05	2.96
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	10	2.95	0.01	2.95
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	10	2.95	0.01	2.95
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	10	2.95	0.01	2.95
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	10	2.94	0.14	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.94	0.0	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.94	0.0	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.94	0.0	2.94
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	10	2.92	0.02	2.92
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	10	2.92	0.02	2.92
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	10	2.92	0.01	2.92
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	10	2.92	0.01	2.92
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91	0.02	2.9
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91	0.02	2.9
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91	0.02	2.9
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	10	2.91	0.1	2.87
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	10	2.91	0.1	2.87
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	10	2.91	0.1	2.87

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	10	2.89	0.07	2.9
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	10	2.89	0.07	2.9
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	10	2.89	0.07	2.9
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.87	0.01	2.87
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.87	0.01	2.87
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.87	0.01	2.87
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	10	2.85	0.01	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	10	2.85	0.01	2.86
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	10	2.85	0.01	2.86
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85	0.01	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85	0.01	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85	0.01	2.85
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.83	0.01	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.83	0.01	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.83	0.01	2.83
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	10	2.8	0.06	2.8
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	10	2.8	0.06	2.8
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	10	2.8	0.06	2.8
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	10	2.79	0.05	2.77
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	10	2.79	0.05	2.77
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	10	2.79	0.05	2.77
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	10	2.77	0.01	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	10	2.77	0.01	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	10	2.77	0.01	2.77
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	10	2.77	0.01	2.76
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	10	2.77	0.01	2.76
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	10	2.77	0.01	2.76
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	10	2.76	0.1	2.8
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	10	2.76	0.1	2.8
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	10	2.76	0.03	2.76
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	10	2.76	0.03	2.76
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	10	2.76	0.03	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	10	2.76	0.0	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	10	2.76	0.0	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	10	2.76	0.0	2.76
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	10	2.75	0.01	2.75
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	10	2.74	0.01	2.74
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	10	2.74	0.01	2.74
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	10	2.74	0.01	2.74
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	10	2.74	0.02	2.74
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	10	2.72	0.09	2.7
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	10	2.72	0.09	2.7

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	10	2.72	0.09	2.7
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	10	2.72	0.08	2.72
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	10	2.72	0.08	2.72
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	10	2.72	0.08	2.72
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72	0.01	2.72
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72	0.01	2.72
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	10	2.72	0.01	2.72
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	10	2.72	0.01	2.72
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	10	2.72	0.01	2.72
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.71	0.0	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.71	0.0	2.71
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	10	2.71	0.08	2.7
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	10	2.71	0.08	2.7
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	10	2.71	0.08	2.7
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	10	2.71	0.08	2.7
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	10	2.71	0.08	2.7
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	10	2.71	0.08	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	10	2.7	0.0	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	10	2.7	0.0	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	10	2.7	0.0	2.7
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	10	2.7	0.04	2.7
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	10	2.7	0.04	2.7
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	10	2.7	0.04	2.7
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	10	2.69	0.01	2.69
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	10	2.69	0.01	2.69
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	10	2.69	0.01	2.69
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	10	2.69	0.01	2.69
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	10	2.69	0.01	2.69
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	10	2.69	0.01	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.69	0.0	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.69	0.0	2.69
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	10	2.69	0.0	2.69
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	10	2.69	0.0	2.69
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	10	2.68	0.16	2.66
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	10	2.68	0.16	2.66
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	10	2.65	0.02	2.64
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	10	2.65	0.02	2.64
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	10	2.65	0.02	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64	0.01	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64	0.01	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64	0.01	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	10	2.64	0.0	2.64

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	10	2.64	0.0	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	10	2.64	0.0	2.64
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	10	2.63	0.03	2.62
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	10	2.63	0.02	2.63
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	10	2.63	0.03	2.62
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	10	2.63	0.02	2.63
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	10	2.63	0.03	2.62
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	10	2.63	0.02	2.63
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	10	2.62	0.03	2.62
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	10	2.62	0.03	2.62
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	10	2.62	0.03	2.62
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.62	0.05	2.61
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.62	0.05	2.61
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.62	0.05	2.61
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	10	2.58	0.03	2.58
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	10	2.58	0.03	2.58
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	10	2.58	0.03	2.58
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	10	2.57	0.06	2.59
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	10	2.57	0.06	2.59
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	10	2.57	0.06	2.59
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	10	2.56	0.0	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	10	2.56	0.0	2.56
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.56	0.01	2.56
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.56	0.01	2.56
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.56	0.01	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.56	0.0	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.56	0.0	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.55	0.01	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.55	0.01	2.56
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	10	2.55	0.0	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	10	2.55	0.0	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.55	0.01	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.55	0.01	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.55	0.01	2.55
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.54	0.0	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.54	0.0	2.54
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.54	0.01	2.54
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.54	0.01	2.54
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	10	2.54	0.0	2.54
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	10	2.53	0.02	2.53
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	10	2.53	0.02	2.53
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	10	2.53	0.02	2.53

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.53	0.0	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.53	0.0	2.53
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	10	2.51	0.0	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	10	2.51	0.0	2.51
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	10	2.5	0.01	2.5
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	10	2.5	0.01	2.5
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	10	2.5	0.01	2.5
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	10	2.5	0.08	2.54
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	10	2.5	0.08	2.54
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	10	2.5	0.08	2.54
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.49	0.01	2.49
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.49	0.01	2.49
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.49	0.01	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.48	0.01	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.48	0.01	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.48	0.01	2.49
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	10	2.47	0.08	2.5
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	10	2.47	0.08	2.5
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	10	2.47	0.08	2.5
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	10	2.47	0.01	2.47
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	10	2.47	0.01	2.47
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	10	2.47	0.01	2.47
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.46	0.08	2.49
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.46	0.08	2.49
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.46	0.08	2.49
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	10	2.46	0.01	2.46
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	10	2.46	0.01	2.46
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	10	2.46	0.01	2.46
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	10	2.44	0.09	2.43
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	10	2.44	0.09	2.43
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	10	2.44	0.09	2.43
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	10	2.42	0.02	2.42
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	10	2.42	0.02	2.42
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	10	2.42	0.02	2.42
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	10	2.39	0.07	2.38
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	10	2.39	0.07	2.38
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	10	2.39	0.07	2.38
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	10	2.37	0.03	2.37
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	10	2.37	0.03	2.37
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	10	2.37	0.03	2.37
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	10	2.35	0.02	2.35
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	10	2.35	0.03	2.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	10	2.35	0.03	2.35
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	10	2.35	0.03	2.35
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.34	0.16	2.28
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.34	0.16	2.28
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.34	0.16	2.28
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	10	2.24	0.01	2.24
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	10	2.2	0.04	2.2
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	10	2.2	0.04	2.2
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	10	2.15	0.01	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	10	2.15	0.01	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	10	2.15	0.01	2.14
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	10	2.14	0.02	2.16
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	10	2.14	0.02	2.16
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	10	2.14	0.02	2.16
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	10	2.14	0.02	2.14
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	10	2.14	0.02	2.14
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	10	2.12	0.14	2.14
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	10	2.12	0.14	2.14
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	10	2.12	0.14	2.14
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	10	2.11	0.03	2.1
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	10	2.11	0.03	2.1
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	10	2.1	0.02	2.09
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	10	2.1	0.02	2.09
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	10	2.1	0.02	2.09
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	10	2.08	0.02	2.09
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	10	2.08	0.02	2.09
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	10	2.08	0.02	2.08
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	10	2.08	0.02	2.08
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	10	2.08	0.02	2.08
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.07	0.02	2.07
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.07	0.02	2.07
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.07	0.02	2.07
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	10	2.05	0.09	2.09
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	10	2.05	0.09	2.09
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	10	2.05	0.09	2.09
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	10	2.02	0.08	2.04
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	10	2.02	0.08	2.04
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	10	2.02	0.03	2.01
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	10	1.98	0.02	1.98
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	10	1.98	0.02	1.98
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	10	1.93	0.01	1.93
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	10	1.93	0.01	1.93

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	10	1.91	0.05	1.92
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	10	1.91	0.05	1.92
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	10	1.91	0.05	1.92
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	10	1.91	0.05	1.92
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	10	1.91	0.05	1.92
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	10	1.91	0.05	1.92
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.9	0.01	1.91
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.9	0.01	1.91
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.9	0.01	1.91
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.88	0.01	1.88
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.88	0.01	1.88
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.88	0.01	1.88
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	10	1.85	0.02	1.85
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	10	1.85	0.02	1.85
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.83	0.05	1.83
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.83	0.05	1.83
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.83	0.03	1.84
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.83	0.03	1.84
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.83	0.03	1.84
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	10	1.82	0.03	1.82
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.82	0.02	1.82
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.82	0.02	1.82
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.82	0.02	1.82
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.74	0.02	1.74
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.74	0.02	1.74
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	10	1.73	0.02	1.72
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	10	1.73	0.02	1.72
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.73	0.09	1.69
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.73	0.09	1.69
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.73	0.09	1.69
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	10	1.71	0.2	1.72
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	10	1.71	0.2	1.72
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	10	1.71	0.2	1.72
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	10	1.71	0.04	1.72
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	10	1.71	0.04	1.72
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	10	1.71	0.04	1.72
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.59	0.0	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.59	0.0	1.59
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.58	0.02	1.57
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.58	0.02	1.57
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	10	1.55	0.11	1.56
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.54	0.01	1.54

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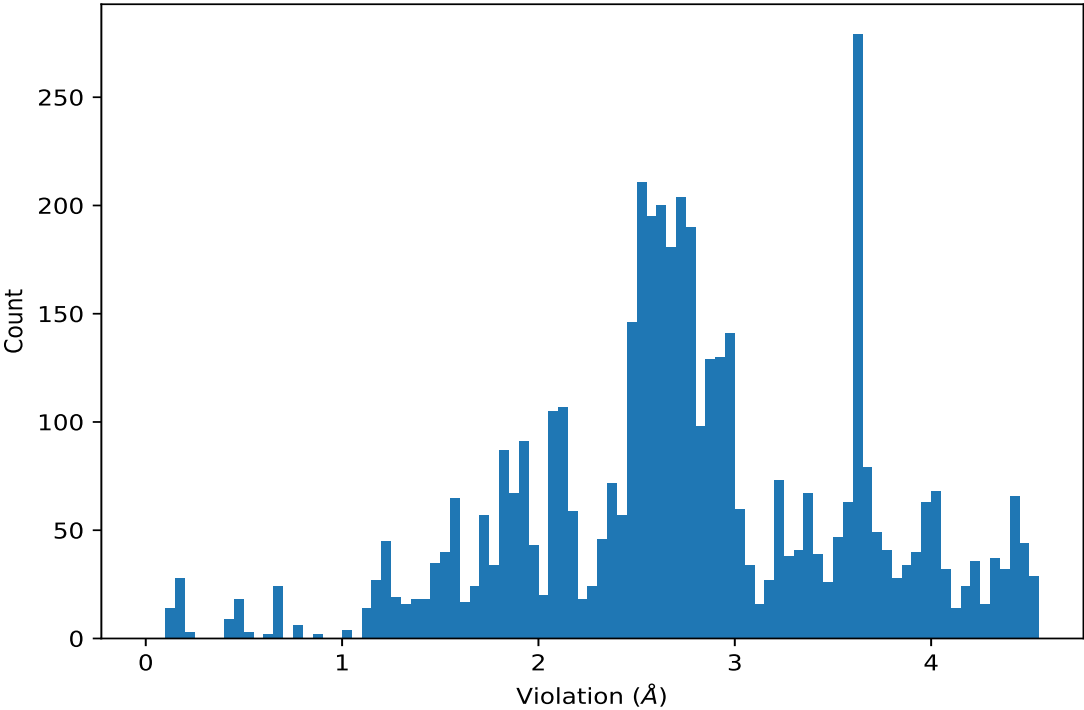
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.54	0.01	1.54
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.54	0.01	1.54
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.54	0.01	1.54
(4,34)	1:6:A:C:O2	1:9:A:G:H22	10	1.52	0.04	1.52
(1,135)	1:11:A:U:H5	1:10:A:C:H6	10	1.47	0.02	1.47
(2,130)	1:11:A:U:H5	1:10:A:C:H6	10	1.47	0.02	1.47
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.46	0.1	1.48
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.46	0.1	1.48
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.46	0.1	1.48
(1,175)	1:14:A:C:H5	1:13:A:C:H5	10	1.43	0.07	1.44
(2,170)	1:14:A:C:H5	1:13:A:C:H5	10	1.43	0.07	1.44
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	10	1.4	0.14	1.4
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	10	1.4	0.14	1.4
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.35	0.03	1.35
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.35	0.03	1.35
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	10	1.25	0.01	1.25
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	10	1.23	0.01	1.23
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	10	1.23	0.01	1.23
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.22	0.01	1.23
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.22	0.01	1.23
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	10	1.18	0.0	1.18
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	10	1.17	0.01	1.18
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	10	1.15	0.03	1.14
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	10	1.15	0.03	1.14
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	10	0.83	0.16	0.78
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	10	0.83	0.16	0.78
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	10	0.67	0.01	0.67
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	10	0.67	0.01	0.67
(1,125)	1:10:A:C:H5	1:11:A:U:H5	10	0.45	0.03	0.45
(2,121)	1:10:A:C:H5	1:11:A:U:H5	10	0.45	0.03	0.45
(3,84)	1:10:A:C:H5	1:11:A:U:H5	10	0.45	0.03	0.45
(4,32)	1:6:A:C:H42	1:9:A:G:O6	10	0.18	0.01	0.18
(4,33)	1:6:A:C:O2	1:9:A:G:N2	10	0.17	0.02	0.17
(4,19)	1:4:A:A:N1	1:11:A:U:N3	10	0.16	0.01	0.16
(4,20)	1:4:A:A:N1	1:11:A:U:H3	10	0.15	0.02	0.15
(4,26)	1:10:A:C:H42	1:5:A:G:O6	3	0.1	0.0	0.1
(4,31)	1:6:A:C:N4	1:9:A:G:O6	2	0.11	0.01	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints ⓘ

9.5.1 Histogram : Distribution of distance violations ⓘ

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 ⓘ

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)
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	8	4.55
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	8	4.55
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	5	4.54
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	5	4.54
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	1	4.53
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	3	4.53
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	9	4.53
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	1	4.53
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	3	4.53
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	9	4.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	10	4.52
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	7	4.52
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	10	4.52
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	7	4.52
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	10	4.52
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	1	4.51
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	6	4.51
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	3	4.51
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	1	4.51
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	6	4.51
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	3	4.51
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	1	4.51
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	6	4.51
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	3	4.51
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	9	4.5
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	6	4.5
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	9	4.5
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	6	4.5
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	9	4.5
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	7	4.49
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	8	4.49
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	7	4.49
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	8	4.49
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	7	4.49
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	8	4.49
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	3	4.48
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	7	4.48
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	5	4.48
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	4	4.48
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	3	4.48
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	7	4.48
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	5	4.48
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	4	4.48
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	3	4.48
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	7	4.48
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	5	4.48
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	8	4.47
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	1	4.47
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	10	4.47
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	8	4.47
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	1	4.47
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	10	4.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	8	4.47
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	1	4.47
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	10	4.47
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	2	4.46
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	2	4.46
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	2	4.46
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	2	4.45
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	4	4.45
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	5	4.45
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	4	4.45
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	6	4.45
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	2	4.45
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	4	4.45
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	5	4.45
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	4	4.45
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	6	4.45
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	2	4.45
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	4	4.45
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	5	4.45
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	4	4.45
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	6	4.45
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	4	4.44
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	4	4.44
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	4	4.44
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	2	4.43
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	6	4.43
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	8	4.43
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	9	4.43
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	10	4.43
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	7	4.43
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	2	4.43
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	6	4.43
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	8	4.43
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	9	4.43
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	10	4.43
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	7	4.43
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	2	4.43
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	6	4.43
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	8	4.43
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	9	4.43
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	10	4.43
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	7	4.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	1	4.42
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	3	4.42
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	7	4.42
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	7	4.42
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	3	4.42
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	1	4.42
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	3	4.42
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	7	4.42
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	7	4.42
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	3	4.42
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	1	4.42
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	3	4.42
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	7	4.42
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	7	4.42
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	3	4.42
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	4	4.41
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	5	4.41
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	6	4.41
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	9	4.41
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	4	4.41
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	5	4.41
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	6	4.41
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	9	4.41
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	4	4.41
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	5	4.41
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	6	4.41
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	9	4.41
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	5	4.4
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	10	4.4
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	8	4.4
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	1	4.4
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	5	4.4
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	6	4.4
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	5	4.4
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	10	4.4
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	8	4.4
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	1	4.4
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	5	4.4
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	6	4.4
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	5	4.4
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	10	4.4
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	8	4.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	1	4.4
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	5	4.4
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	6	4.4
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	9	4.39
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	3	4.39
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	2	4.39
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	9	4.39
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	9	4.39
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	3	4.39
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	2	4.39
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	9	4.39
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	9	4.39
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	3	4.39
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	2	4.39
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	9	4.39
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	2	4.38
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	2	4.38
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	2	4.38
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	8	4.37
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	2	4.37
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	8	4.37
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	2	4.37
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	8	4.37
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	3	4.36
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	3	4.36
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	3	4.36
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	10	4.35
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	2	4.35
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	10	4.35
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	2	4.35
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	10	4.35
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	2	4.35
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	1	4.34
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	4	4.34
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	8	4.34
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	4	4.34
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	10	4.34
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	1	4.34
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	4	4.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	8	4.34
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	4	4.34
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	10	4.34
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	1	4.34
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	4	4.34
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	8	4.34
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	4	4.33
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	8	4.33
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	4	4.33
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	8	4.33
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	4	4.33
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	5	4.32
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	6	4.32
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	7	4.32
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	5	4.32
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	6	4.32
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	7	4.32
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	5	4.32
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	6	4.32
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	1	4.31
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	5	4.31
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	3	4.31
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	6	4.31
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	1	4.31
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	5	4.31
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	3	4.31
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	6	4.31
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	1	4.31
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	1	4.3
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	1	4.3
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	10	4.29
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	9	4.29
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	10	4.29
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	9	4.29
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	9	4.28
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	5	4.28
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	9	4.28
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	5	4.28
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	9	4.28
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	7	4.27
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	6	4.27
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	7	4.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	6	4.27
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	7	4.27
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	2	4.26
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	2	4.26
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	7	4.24
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	7	4.24
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	3	4.23
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	3	4.23
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	4	4.22
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	4	4.22
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	9	4.21
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.21
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	9	4.21
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.21
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	9	4.21
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.21
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	3	4.2
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	4	4.2
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	5	4.2
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	6	4.2
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	7	4.2
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	8	4.2
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	1	4.2
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	2	4.2
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	6	4.2
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	3	4.2
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	4	4.2
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	5	4.2
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	6	4.2
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	7	4.2
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	8	4.2
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	1	4.2
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	2	4.2
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	6	4.2
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	3	4.2
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	4	4.2
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	5	4.2
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	6	4.2
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	7	4.2
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	8	4.2
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	1	4.19
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	2	4.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	5	4.19
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	9	4.19
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	10	4.19
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	1	4.19
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	2	4.19
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	5	4.19
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	9	4.19
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	10	4.19
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	1	4.19
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	2	4.19
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	8	4.18
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	8	4.18
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	3	4.17
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	4	4.17
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	7	4.17
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	3	4.17
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	4	4.17
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	7	4.17
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	10	4.16
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	2	4.16
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	10	4.16
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	2	4.16
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	9	4.14
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	9	4.14
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	8	4.13
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	8	4.13
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	7	4.12
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	7	4.12
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	1	4.11
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	4	4.11
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	9	4.11
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	1	4.11
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	4	4.11
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	9	4.11
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	8	4.1
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	8	4.1
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	3	4.09
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	10	4.09
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	10	4.09
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	6	4.07
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	3	4.07
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	6	4.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	3	4.07
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	6	4.07
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	1	4.06
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	2	4.06
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	5	4.06
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	7	4.06
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	9	4.06
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	1	4.06
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	2	4.06
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	1	4.06
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	5	4.06
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	1	4.06
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	2	4.06
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	1	4.06
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	5	4.06
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	1	4.06
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	2	4.06
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	10	4.05
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	6	4.05
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	9	4.05
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	2	4.05
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	6	4.05
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	9	4.05
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	2	4.05
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	6	4.05
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	9	4.05
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	1	4.04
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	4	4.04
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	8	4.04
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	1	4.04
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	1	4.04
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	8	4.03
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	8	4.03
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	8	4.03
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	3	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	5	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	6	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	7	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	8	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	9	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	7	4.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	3	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	5	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	6	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	7	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	8	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	9	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	7	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	3	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	5	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	6	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	7	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	8	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	9	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	7	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	1	4.0
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	2	4.0
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	4	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	1	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	2	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	3	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	4	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	5	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	6	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	8	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	9	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	10	4.0
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	1	4.0
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	2	4.0
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	4	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	1	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	2	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	3	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	4	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	5	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	6	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	8	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	9	4.0
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	10	4.0
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	1	4.0
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	2	4.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	4	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	1	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	2	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	3	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	4	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	5	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	6	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	8	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	9	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	10	4.0
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	1	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	2	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	3	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	4	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	6	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	8	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	9	3.99
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	10	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	1	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	2	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	3	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	4	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	6	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	8	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	9	3.99
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	10	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	1	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	2	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	3	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	4	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	6	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	8	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	9	3.99
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	10	3.99
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	2	3.98
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	5	3.98
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	7	3.98
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	2	3.98
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	5	3.98
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	7	3.98
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	2	3.98
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	5	3.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	7	3.98
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	2	3.97
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	5	3.97
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.97
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	2	3.97
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	5	3.97
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.97
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	2	3.97
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	5	3.97
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.97
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	4	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	6	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	7	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	8	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	4	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	6	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	7	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	8	3.96
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	4	3.96
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	6	3.96
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	7	3.96
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	8	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	1	3.95
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	3	3.95
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	9	3.95
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	1	3.95
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	3	3.95
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	9	3.95
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	1	3.95
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	3	3.95
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	9	3.95
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	4	3.94
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	5	3.94
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	4	3.94
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	5	3.94
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	4	3.94
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	5	3.94
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	7	3.93
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	10	3.93
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	7	3.93
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	10	3.93
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	7	3.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	10	3.93
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	3	3.92
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	3	3.92
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	3	3.92
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	2	3.91
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	8	3.91
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	2	3.91
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	8	3.91
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	2	3.91
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	8	3.91
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	6	3.9
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	1	3.9
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	6	3.9
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	4	3.9
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	10	3.9
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	6	3.9
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	1	3.9
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	6	3.9
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	4	3.9
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	10	3.9
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	4	3.9
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	8	3.9
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	6	3.9
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	1	3.9
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	6	3.9
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	4	3.9
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	10	3.9
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	4	3.9
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	8	3.9
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	5	3.89
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	5	3.89
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	2	3.89
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	5	3.89
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	2	3.89
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	8	3.88
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	4	3.88
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	9	3.88
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	10	3.88
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	3	3.88
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	7	3.88
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	8	3.88
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	4	3.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	9	3.88
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	10	3.88
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	3	3.88
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	7	3.88
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	1	3.88
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	8	3.88
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	4	3.88
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	9	3.88
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	10	3.88
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	3	3.88
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	7	3.88
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	1	3.88
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	5	3.87
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	5	3.87
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	5	3.87
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	5	3.86
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	5	3.86
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	5	3.86
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	4	3.85
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	4	3.85
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	4	3.85
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	10	3.84
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	10	3.84
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	5	3.84
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	10	3.84
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	5	3.84
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	9	3.83
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	4	3.83
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	9	3.83
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	4	3.83
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	9	3.83
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	4	3.83
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	5	3.82
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	7	3.82
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	8	3.82
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	5	3.82
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	7	3.82
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	8	3.82
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	5	3.82
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	7	3.82
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	8	3.82
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	4	3.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	2	3.8
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	4	3.8
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	2	3.8
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	6	3.8
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	4	3.8
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	2	3.8
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	6	3.8
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	6	3.79
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	6	3.79
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	3	3.78
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	7	3.78
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	7	3.78
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	3	3.78
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	7	3.78
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	7	3.78
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.78
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	3	3.78
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	7	3.78
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	7	3.78
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.78
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	10	3.77
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	10	3.77
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	3	3.77
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	1	3.77
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	4	3.77
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	5	3.77
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	10	3.77
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	10	3.77
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	3	3.77
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	1	3.77
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	4	3.77
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	5	3.77
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	10	3.77
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	1	3.76
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	3	3.76
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	1	3.76
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	3	3.76
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	9	3.76
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	3	3.76
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	1	3.76
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	3	3.76
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	9	3.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	3	3.76
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	6	3.75
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	6	3.75
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	9	3.75
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	6	3.75
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	9	3.75
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	1	3.74
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	7	3.74
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	8	3.74
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	1	3.74
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	7	3.74
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	8	3.74
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	3	3.73
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	7	3.73
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	10	3.73
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	3	3.73
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	7	3.73
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	10	3.73
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	3	3.73
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	7	3.73
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	10	3.73
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	1	3.72
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	2	3.72
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	6	3.72
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	9	3.72
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	1	3.72
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	8	3.72
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	1	3.72
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	2	3.72
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	6	3.72
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	9	3.72
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	1	3.72
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	8	3.72
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	1	3.72
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	2	3.72
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	6	3.72
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	9	3.72
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	1	3.72
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	8	3.72
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	8	3.71
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	9	3.71
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	8	3.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	9	3.71
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	8	3.71
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	9	3.71
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	9	3.7
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	2	3.7
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	9	3.7
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	2	3.7
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	2	3.7
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	7	3.7
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	9	3.7
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	2	3.7
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	2	3.7
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	7	3.7
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	1	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	2	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	3	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	4	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	5	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	6	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	7	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	8	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	9	3.69
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.69
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	4	3.69
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	3	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	1	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	2	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	3	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	4	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	5	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	6	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	7	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	8	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	9	3.69
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.69
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	4	3.69
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	3	3.69
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	2	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	1	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	2	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	3	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	4	3.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	5	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	6	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	7	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	8	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	9	3.69
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.69
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	4	3.69
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	3	3.69
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	2	3.69
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	1	3.68
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	5	3.68
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	1	3.68
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	5	3.68
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	1	3.68
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	5	3.68
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	2	3.67
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	2	3.67
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	7	3.67
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	2	3.67
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	2	3.67
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	7	3.67
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	2	3.67
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	2	3.67
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	7	3.67
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	6	3.66
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	6	3.66
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	6	3.66
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	5	3.66
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	6	3.66
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	6	3.66
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	5	3.66
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	6	3.66
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	1	3.65
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	6	3.65
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	5	3.65
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	8	3.65
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	1	3.65
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	6	3.65
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	1	3.65
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	6	3.65
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	5	3.65
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	8	3.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	1	3.65
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	6	3.65
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	1	3.65
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	6	3.65
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	5	3.65
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	8	3.65
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	1	3.65
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	6	3.65
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	1	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	2	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	4	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	5	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	6	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	7	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	2	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	3	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	4	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	5	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	7	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	8	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	9	3.64
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	2	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	3	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	4	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	5	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	7	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	8	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	9	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	10	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	1	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	2	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	4	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	5	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	6	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	7	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	2	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	3	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	4	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	5	3.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	7	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	8	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	9	3.64
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.64
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	4	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	2	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	3	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	4	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	5	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	7	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	8	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	9	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	10	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	1	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	2	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	4	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	5	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	6	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	7	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	2	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	3	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	4	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	5	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	7	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	8	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	9	3.64
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.64
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	4	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	2	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	3	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	4	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	5	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	7	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	8	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	9	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	10	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	3	3.63
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	8	3.63
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	9	3.63
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	6	3.63
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	7	3.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	9	3.63
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	5	3.63
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	1	3.63
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	3	3.63
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	3	3.63
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	8	3.63
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	9	3.63
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	6	3.63
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	7	3.63
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	9	3.63
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	5	3.63
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	6	3.63
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	1	3.63
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	3	3.63
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	3	3.63
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	8	3.63
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	9	3.63
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	6	3.63
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	7	3.63
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	9	3.63
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	5	3.63
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	6	3.63
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	1	3.63
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	3	3.63
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	1	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	2	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	3	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	5	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	1	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	2	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	3	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	5	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	7	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	8	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	9	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	1	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	2	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	7	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	8	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	9	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	1	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	2	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	3	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	4	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	5	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	6	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	7	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	8	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	9	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	1	3.62
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	2	3.62
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	3	3.62
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	5	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	1	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	2	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	3	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	5	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	7	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	8	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	9	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	1	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	2	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	3	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	4	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	5	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	6	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	7	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	8	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	9	3.62
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	1	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	2	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	7	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	8	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	9	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	1	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	2	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	3	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	4	3.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	5	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	6	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	7	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	8	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	9	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	1	3.62
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	2	3.62
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	3	3.62
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	5	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	1	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	2	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	3	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	5	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	7	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	8	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	9	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	1	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	2	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	3	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	4	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	5	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	6	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	7	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	8	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	9	3.62
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	1	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	2	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	7	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	8	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	9	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	1	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	2	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	3	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	4	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	5	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	6	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	7	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	8	3.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	9	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	4	3.61
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	8	3.61
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.61
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	4	3.61
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	6	3.61
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	3	3.61
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	8	3.61
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	3	3.61
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	4	3.61
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	5	3.61
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	6	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	1	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	2	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	3	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	4	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	5	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	6	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	7	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	8	3.61
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	4	3.61
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	8	3.61
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.61
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	4	3.61
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	6	3.61
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	3	3.61
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	8	3.61
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	3	3.61
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	4	3.61
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	5	3.61
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	6	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	1	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	2	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	3	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	4	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	5	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	6	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	7	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	8	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	4	3.61
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	8	3.61
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.61
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	4	3.61
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	6	3.61
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	3	3.61
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	8	3.61
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	3	3.61
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	4	3.61
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	5	3.61
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	6	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	1	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	2	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	3	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	4	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	5	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	6	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	7	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	8	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	7	3.6
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	4	3.6
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	9	3.6
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	6	3.6
(3,11)	1:2:A:G:H2'	1:2:A:G:H1'	9	3.6
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	7	3.6
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	4	3.6
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	9	3.6
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	6	3.6
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	9	3.6
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	7	3.6
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	4	3.6
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	9	3.6
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	6	3.6
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	9	3.6
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	8	3.59
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	2	3.59
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	8	3.59
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	8	3.59
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	2	3.59
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	8	3.59
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	8	3.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	2	3.59
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	7	3.58
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	5	3.58
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	7	3.58
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	7	3.58
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	5	3.58
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	7	3.58
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	7	3.58
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	5	3.58
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	7	3.57
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	4	3.57
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	3	3.57
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	4	3.57
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	6	3.57
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	7	3.57
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	8	3.57
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	7	3.57
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	4	3.57
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	3	3.57
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	4	3.57
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	6	3.57
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	7	3.57
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	8	3.57
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	7	3.57
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	4	3.57
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	3	3.57
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	4	3.57
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	6	3.57
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	7	3.57
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	8	3.57
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	6	3.56
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	10	3.56
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	5	3.56
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	7	3.56
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	1	3.56
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	9	3.56
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.56
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	6	3.56
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	10	3.56
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	5	3.56
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	7	3.56
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	1	3.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	9	3.56
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.56
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	6	3.56
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	10	3.56
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	5	3.56
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	7	3.56
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	1	3.56
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	9	3.56
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.56
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	5	3.55
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	5	3.55
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	10	3.55
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	5	3.55
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	10	3.55
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	2	3.54
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	2	3.54
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	2	3.54
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	3	3.53
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	3	3.53
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	10	3.53
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	3	3.53
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	3	3.53
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	10	3.53
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	3	3.53
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	3	3.53
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	10	3.53
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	1	3.52
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	10	3.52
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	1	3.52
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	1	3.52
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	1	3.52
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	10	3.52
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	3	3.52
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	1	3.52
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	1	3.52
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	1	3.52
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	10	3.52
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	3	3.52
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	1	3.52
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	1	3.52
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	2	3.51
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	9	3.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	9	3.51
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	2	3.51
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	9	3.51
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	9	3.51
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	2	3.51
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	9	3.51
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	9	3.51
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	5	3.5
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	6	3.5
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	9	3.5
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	6	3.5
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	5	3.5
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	6	3.5
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	9	3.5
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	6	3.5
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	5	3.5
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	6	3.5
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	9	3.5
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	6	3.5
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	4	3.49
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	3	3.49
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	4	3.49
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	3	3.49
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	4	3.49
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	3	3.49
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	2	3.48
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	6	3.48
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	2	3.48
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	6	3.48
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	2	3.48
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	6	3.48
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	4	3.47
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	8	3.47
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	8	3.47
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	4	3.47
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	8	3.47
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	8	3.47
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	4	3.47
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	8	3.47
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	8	3.47
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	9	3.46
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	9	3.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	10	3.45
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	10	3.45
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	10	3.45
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	1	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	2	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	3	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	4	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	5	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	6	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	7	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	8	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	9	3.43
(3,116)	1:14:A:C:H4'	1:14:A:C:H3'	10	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	1	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	2	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	3	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	4	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	5	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	6	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	7	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	8	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	9	3.43
(2,169)	1:14:A:C:H4'	1:14:A:C:H3'	10	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	1	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	2	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	3	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	4	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	5	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	6	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	7	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	8	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	9	3.43
(1,174)	1:14:A:C:H4'	1:14:A:C:H3'	10	3.43
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	10	3.42
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	10	3.42
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	10	3.42
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	1	3.4
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	4	3.4
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	1	3.4
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	4	3.4
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	1	3.4
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	4	3.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	6	3.39
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	6	3.39
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	6	3.38
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	6	3.38
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	6	3.38
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	2	3.37
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	7	3.37
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	2	3.37
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	7	3.37
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	1	3.37
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	3	3.37
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	2	3.37
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	7	3.37
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	1	3.37
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	3	3.37
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	6	3.36
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	1	3.36
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	2	3.36
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	4	3.36
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	5	3.36
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	6	3.36
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	2	3.36
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	4	3.36
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	10	3.36
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	1	3.36
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	2	3.36
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	4	3.36
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	5	3.36
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	6	3.36
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	2	3.36
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	4	3.36
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	10	3.36
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	1	3.36
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	2	3.36
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	4	3.36
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	5	3.36
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	3	3.35
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	8	3.35
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	2	3.35
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	3	3.35
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	4	3.35
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	5	3.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	7	3.35
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	8	3.35
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	5	3.35
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	3	3.35
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	8	3.35
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	5	3.35
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	8	3.35
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	2	3.35
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	3	3.35
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	4	3.35
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	5	3.35
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	7	3.35
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	8	3.35
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	5	3.35
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	3	3.35
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	8	3.35
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	5	3.35
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	8	3.35
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	2	3.35
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	3	3.35
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	4	3.35
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	5	3.35
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	7	3.35
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	8	3.35
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	5	3.35
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	5	3.34
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	10	3.34
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	9	3.34
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	5	3.34
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	10	3.34
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	7	3.34
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	9	3.34
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	9	3.34
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	5	3.34
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	10	3.34
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	7	3.34
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	9	3.34
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	9	3.34
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	1	3.33
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	4	3.33
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	9	3.33
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	7	3.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	1	3.33
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	4	3.33
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	9	3.33
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	7	3.33
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	1	3.33
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	4	3.33
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	9	3.33
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	10	3.32
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	8	3.32
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	10	3.32
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	10	3.32
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	8	3.32
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	10	3.32
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	10	3.32
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	8	3.32
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	10	3.32
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	1	3.31
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	7	3.31
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	1	3.31
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	7	3.31
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	1	3.31
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	7	3.31
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	8	3.3
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	8	3.3
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	3	3.29
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.29
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	3	3.29
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.29
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	3	3.29
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.29
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	6	3.28
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	1	3.28
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	6	3.28
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	1	3.28
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	9	3.27
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	6	3.27
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	7	3.27
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	9	3.27
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	6	3.27
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	7	3.27
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	1	3.27
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	2	3.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	4	3.27
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.27
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	9	3.27
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	6	3.27
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	7	3.27
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	1	3.27
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	2	3.27
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	4	3.27
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.27
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	9	3.26
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	9	3.26
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	5	3.26
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	9	3.26
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	5	3.26
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.25
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.25
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	6	3.25
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.25
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	2	3.25
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	6	3.25
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	9	3.24
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	9	3.24
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	9	3.24
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	9	3.24
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	3	3.24
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	9	3.24
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	9	3.24
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	9	3.24
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	3	3.24
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	9	3.24
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	5	3.23
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	7	3.23
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	8	3.23
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	4	3.23
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	3	3.23
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	5	3.23
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	7	3.23
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	8	3.23
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	6	3.23
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	4	3.23
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	3	3.23
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	5	3.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	7	3.23
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	8	3.23
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	6	3.23
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	4	3.23
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	3	3.23
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	2	3.22
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	3	3.22
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	4	3.22
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	2	3.22
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	6	3.22
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	8	3.22
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	2	3.22
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	3	3.22
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	4	3.22
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	2	3.22
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	6	3.22
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	8	3.22
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	2	3.22
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	3	3.22
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	4	3.22
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	2	3.22
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	6	3.22
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	8	3.22
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	6	3.21
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	1	3.21
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	5	3.21
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	7	3.21
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	5	3.21
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	6	3.21
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	1	3.21
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	5	3.21
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	7	3.21
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	5	3.21
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	6	3.21
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	1	3.21
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	5	3.21
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	7	3.21
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	2	3.2
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	1	3.2
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	3	3.2
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	10	3.2
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	2	3.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	9	3.2
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	1	3.2
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	3	3.2
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	10	3.2
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	2	3.2
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	9	3.2
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	1	3.2
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	3	3.2
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	10	3.2
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	7	3.19
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	7	3.19
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	2	3.18
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	2	3.18
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	2	3.18
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	10	3.17
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	10	3.17
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	10	3.17
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	10	3.17
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	10	3.17
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	3	3.16
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	3	3.16
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	3	3.16
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	4	3.15
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	6	3.15
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	7	3.15
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	8	3.15
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	4	3.15
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	6	3.15
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	7	3.15
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	3	3.15
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	8	3.15
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	4	3.15
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	6	3.15
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	7	3.15
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	3	3.15
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	8	3.15
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	1	3.14
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	1	3.14
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	2	3.14
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	1	3.14
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	2	3.14
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	2	3.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	2	3.12
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	5	3.11
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	9	3.11
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	1	3.11
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	5	3.11
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	9	3.11
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	1	3.11
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	5	3.11
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	9	3.11
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	1	3.11
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	8	3.09
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	8	3.09
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	8	3.09
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	4	3.08
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	9	3.08
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.08
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	9	3.08
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	4	3.08
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	9	3.08
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.08
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	9	3.08
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	4	3.08
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	9	3.08
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.08
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	9	3.08
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	7	3.07
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	7	3.07
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	7	3.07
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	4	3.06
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	3	3.06
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	6	3.06
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	4	3.06
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	3	3.06
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	6	3.06
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	4	3.06
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	3	3.06
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	6	3.06
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	8	3.06
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	4	3.05
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	10	3.05
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	4	3.05
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	10	3.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	4	3.05
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	10	3.05
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	9	3.04
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	9	3.04
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	9	3.04
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	8	3.03
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	7	3.03
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	8	3.03
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	8	3.03
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	8	3.03
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	7	3.03
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	8	3.03
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	8	3.03
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	8	3.03
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	7	3.03
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	8	3.03
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	9	3.02
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	1	3.02
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	9	3.02
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	3	3.02
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	5	3.02
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	7	3.02
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	4	3.02
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	9	3.02
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	1	3.02
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	9	3.02
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	3	3.02
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	5	3.02
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	7	3.02
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	4	3.02
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	9	3.02
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	1	3.02
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	9	3.02
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	3	3.02
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	5	3.02
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	7	3.02
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	4	3.02
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	3	3.01
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	4	3.01
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	3	3.01
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	4	3.01
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	7	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	3	3.01
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	4	3.01
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	7	3.01
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	3	3.01
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	2	3.0
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	10	3.0
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	3	3.0
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	7	3.0
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	8	3.0
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	5	3.0
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	8	3.0
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	3	3.0
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	7	3.0
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	8	3.0
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	5	3.0
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	8	3.0
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	3	3.0
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	7	3.0
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	8	3.0
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	5	3.0
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	7	2.99
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	2	2.99
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	5	2.99
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	10	2.99
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	5	2.99
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	8	2.99
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.99
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	7	2.99
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	2	2.99
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	5	2.99
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	10	2.99
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	5	2.99
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	8	2.99
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.99
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	7	2.99
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	2	2.99
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	5	2.99
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	10	2.99
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	5	2.99
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	8	2.99
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.99
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	5	2.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	6	2.98
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	10	2.98
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	6	2.98
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	6	2.98
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	2	2.98
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	2	2.98
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	6	2.98
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	10	2.98
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	1	2.98
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	4	2.98
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	6	2.98
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	1	2.98
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	6	2.98
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	2	2.98
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	2	2.98
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	6	2.98
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	10	2.98
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	1	2.98
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	4	2.98
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	6	2.98
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	1	2.98
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	6	2.98
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	2	2.98
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	2	2.98
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	4	2.97
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	5	2.97
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	9	2.97
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	9	2.97
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	7	2.97
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	2	2.97
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	6	2.97
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	10	2.97
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	5	2.97
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	9	2.97
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	9	2.97
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	7	2.97
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	2	2.97
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	6	2.97
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	10	2.97
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	5	2.97
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	9	2.97
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	9	2.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	7	2.97
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	2	2.97
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	6	2.97
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	10	2.97
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	9	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	1	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	2	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	4	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	6	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	7	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	8	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	10	2.96
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	1	2.96
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	6	2.96
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	7	2.96
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	10	2.96
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	3	2.96
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	8	2.96
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	1	2.96
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	2	2.96
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	9	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	1	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	2	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	4	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	6	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	7	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	8	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	10	2.96
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	1	2.96
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	6	2.96
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	7	2.96
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	10	2.96
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	3	2.96
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	8	2.96
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	1	2.96
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	2	2.96
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	9	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	1	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	2	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	4	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	6	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	7	2.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	8	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	10	2.96
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	1	2.96
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	6	2.96
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	7	2.96
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	10	2.96
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	3	2.96
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	8	2.96
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	1	2.96
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	2	2.96
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	9	2.96
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	6	2.95
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	7	2.95
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	3	2.95
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	8	2.95
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	9	2.95
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	2	2.95
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	5	2.95
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	6	2.95
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	1	2.95
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	3	2.95
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	8	2.95
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	9	2.95
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	2	2.95
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	5	2.95
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	6	2.95
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	1	2.95
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	3	2.95
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	8	2.95
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	9	2.95
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	2	2.95
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	5	2.95
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	6	2.95
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	1	2.95
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	7	2.95
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	3	2.94
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	5	2.94
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	3	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	1	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	2	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	3	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	4	2.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	5	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	6	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	7	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	8	2.94
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.94
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	1	2.94
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	2	2.94
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	5	2.94
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	4	2.94
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	10	2.94
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	3	2.94
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	5	2.94
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	3	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	1	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	2	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	3	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	4	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	5	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	6	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	7	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	8	2.94
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.94
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	1	2.94
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	2	2.94
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	5	2.94
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	4	2.94
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	10	2.94
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	3	2.94
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	5	2.94
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	3	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	1	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	2	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	3	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	4	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	5	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	6	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	7	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	8	2.94
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.94
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	4	2.94
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	10	2.94
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	3	2.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	5	2.94
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	4	2.94
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	1	2.93
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	2	2.93
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	3	2.93
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	1	2.93
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	9	2.93
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	4	2.93
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	2	2.93
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	4	2.93
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	7	2.93
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	10	2.93
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	3	2.93
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	1	2.93
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	9	2.93
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	4	2.93
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	3	2.93
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	2	2.93
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	4	2.93
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	7	2.93
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	10	2.93
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	1	2.93
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	9	2.93
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	4	2.93
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	3	2.93
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	8	2.92
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	5	2.92
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	6	2.92
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	8	2.92
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	9	2.92
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	6	2.92
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	4	2.92
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	5	2.92
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	3	2.92
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	8	2.92
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	9	2.92
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	6	2.92
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	8	2.92
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	9	2.92
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	6	2.92
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	4	2.92
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	5	2.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	3	2.92
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	8	2.92
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	9	2.92
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	6	2.92
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	4	2.92
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	10	2.91
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	1	2.91
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	5	2.91
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	6	2.91
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	10	2.91
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	1	2.91
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	5	2.91
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	6	2.91
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	1	2.91
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	7	2.9
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	9	2.9
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	1	2.9
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	2	2.9
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	7	2.9
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	9	2.9
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	1	2.9
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	2	2.9
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	7	2.9
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	9	2.9
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	1	2.9
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	2	2.9
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	7	2.9
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	9	2.9
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	1	2.9
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	2	2.9
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	9	2.9
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	1	2.9
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	2	2.9
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	7	2.9
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	9	2.9
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	6	2.9
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	10	2.89
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	8	2.89
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	4	2.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	8	2.89
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	6	2.89
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	10	2.89
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	8	2.89
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	4	2.89
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	2	2.89
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	8	2.89
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	6	2.89
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	10	2.89
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	8	2.89
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	2	2.89
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	8	2.89
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	6	2.89
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	2	2.88
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.88
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	1	2.88
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	1	2.88
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	2	2.88
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.88
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	4	2.88
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	1	2.88
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	1	2.88
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	9	2.88
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	2	2.88
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.88
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	4	2.88
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	1	2.88
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	1	2.88
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	9	2.88
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	1	2.87
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	2	2.87
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	3	2.87
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	4	2.87
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	5	2.87
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	8	2.87
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	9	2.87
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	1	2.87
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	2	2.87
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	3	2.87
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	4	2.87
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	5	2.87
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	8	2.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	9	2.87
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	1	2.87
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	2	2.87
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	3	2.87
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	4	2.87
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	5	2.87
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	8	2.87
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	9	2.87
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	1	2.86
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	2	2.86
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	4	2.86
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	5	2.86
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	9	2.86
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	10	2.86
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	6	2.86
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	7	2.86
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	2	2.86
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	5	2.86
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	2	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	1	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	2	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	4	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	5	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	9	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	10	2.86
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	6	2.86
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	7	2.86
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	7	2.86
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	2	2.86
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	5	2.86
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	2	2.86
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	1	2.86
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	2	2.86
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	4	2.86
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	5	2.86
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	9	2.86
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	10	2.86
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	6	2.86
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	7	2.86
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	7	2.86
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	2	2.86
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	5	2.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	2	2.86
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	3	2.85
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	6	2.85
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	8	2.85
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	3	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	1	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	4	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	5	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	7	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	8	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	9	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	2	2.85
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	9	2.85
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	3	2.85
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	6	2.85
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	8	2.85
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	3	2.85
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	5	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	1	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	4	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	5	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	7	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	8	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	9	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	2	2.85
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	9	2.85
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	3	2.85
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	6	2.85
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	8	2.85
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	3	2.85
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	5	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	1	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	4	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	5	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	7	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	8	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	9	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	2	2.85
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	9	2.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	4	2.84
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	7	2.84
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	6	2.84
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	3	2.84
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	6	2.84
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	4	2.84
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	7	2.84
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	1	2.84
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	6	2.84
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	6	2.84
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	3	2.84
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	6	2.84
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	4	2.84
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	7	2.84
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	1	2.84
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	6	2.84
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	6	2.84
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	3	2.84
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	6	2.84
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	1	2.83
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	1	2.83
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	1	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	3	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	4	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	5	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	7	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	8	2.83
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	10	2.83
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	10	2.83
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	1	2.83
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	1	2.83
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	1	2.83
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	4	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	3	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	4	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	5	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	7	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	8	2.83
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	10	2.83
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	1	2.83
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	1	2.83
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	1	2.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	4	2.83
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	3	2.83
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	4	2.83
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	5	2.83
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	7	2.83
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	8	2.83
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	2	2.82
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	9	2.82
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	9	2.82
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	10	2.82
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	9	2.82
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.82
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	2	2.82
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	9	2.82
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	9	2.82
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	10	2.82
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	9	2.82
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.82
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	2	2.82
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	9	2.82
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	9	2.82
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	10	2.82
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	9	2.82
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	1	2.82
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.82
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	4	2.81
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	7	2.81
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	5	2.81
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	3	2.81
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	8	2.81
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	6	2.81
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	6	2.81
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	6	2.81
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	4	2.81
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	7	2.81
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	5	2.81
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	3	2.81
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	8	2.81
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	6	2.81
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	6	2.81
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	4	2.81
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	7	2.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	5	2.81
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	3	2.81
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	8	2.81
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	6	2.81
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	4	2.8
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	1	2.8
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	5	2.8
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	2	2.8
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	4	2.8
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	1	2.8
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	5	2.8
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	2	2.8
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	4	2.8
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	1	2.8
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	6	2.79
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	10	2.79
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	2	2.79
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	8	2.79
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	6	2.79
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	10	2.79
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	5	2.79
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	2	2.79
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	8	2.79
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	6	2.79
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	10	2.79
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	5	2.79
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	2	2.79
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	8	2.79
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	1	2.78
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	3	2.78
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	8	2.78
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	4	2.78
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	6	2.78
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	7	2.78
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	2	2.78
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	2	2.78
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	1	2.78
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	3	2.78
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	8	2.78
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	4	2.78
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	6	2.78
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	7	2.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	2	2.78
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	2	2.78
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	1	2.78
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	3	2.78
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	8	2.78
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	4	2.78
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	6	2.78
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	7	2.78
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	2	2.78
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	2	2.78
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	4	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	5	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	6	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	7	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	9	2.77
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	7	2.77
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	9	2.77
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	2	2.77
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	5	2.77
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	8	2.77
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	3	2.77
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	7	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	4	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	5	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	6	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	7	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	9	2.77
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	7	2.77
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	9	2.77
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	9	2.77
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	9	2.77
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	2	2.77
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	5	2.77
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	8	2.77
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	3	2.77
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	8	2.77
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	10	2.77
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	7	2.77
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	4	2.77
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	5	2.77
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	6	2.77
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	7	2.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	9	2.77
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	7	2.77
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	9	2.77
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	9	2.77
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	2	2.77
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	5	2.77
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	8	2.77
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	3	2.77
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	8	2.77
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	10	2.77
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	7	2.77
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	10	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	2	2.76
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	3	2.76
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	1	2.76
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	3	2.76
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	4	2.76
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	9	2.76
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	10	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	1	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	2	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	3	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	4	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	5	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	6	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	7	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	8	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	9	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	10	2.76
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	6	2.76
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	8	2.76
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	6	2.76
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	10	2.76
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	2	2.76
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	3	2.76
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	1	2.76
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	1	2.76
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	1	2.76
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	3	2.76
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	4	2.76
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	9	2.76
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	10	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	1	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	2	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	3	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	4	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	5	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	6	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	7	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	8	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	9	2.76
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	10	2.76
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	6	2.76
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	8	2.76
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	6	2.76
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	10	2.76
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	2	2.76
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	3	2.76
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	1	2.76
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	1	2.76
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	3	2.76
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	4	2.76
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	9	2.76
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	10	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	1	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	2	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	3	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	4	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	5	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	6	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	7	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	8	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	9	2.76
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	10	2.76
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	2	2.76
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	5	2.76
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	6	2.76
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	8	2.76
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	6	2.76
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	10	2.76
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	8	2.76
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	10	2.75
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	1	2.75
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	5	2.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	5	2.75
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	8	2.75
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	9	2.75
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	1	2.75
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	5	2.75
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	7	2.75
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	8	2.75
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	10	2.75
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	1	2.75
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	5	2.75
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	5	2.75
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	8	2.75
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	9	2.75
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	4	2.75
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	1	2.75
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	5	2.75
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	7	2.75
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	8	2.75
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	10	2.75
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	1	2.75
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	5	2.75
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	1	2.75
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	5	2.75
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	8	2.75
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	9	2.75
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	4	2.75
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	1	2.75
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	5	2.75
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	7	2.75
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	8	2.75
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	9	2.75
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	1	2.75
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	2	2.75
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	4	2.75
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	5	2.75
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	9	2.75
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	9	2.74
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	3	2.74
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	7	2.74
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	4	2.74
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	5	2.74
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	9	2.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	3	2.74
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	7	2.74
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	4	2.74
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	5	2.74
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	3	2.74
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	4	2.74
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	9	2.74
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	3	2.74
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	7	2.74
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	4	2.74
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	5	2.74
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	3	2.74
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	6	2.74
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	7	2.74
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	8	2.73
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	10	2.73
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	10	2.73
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	1	2.73
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	2	2.73
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	6	2.73
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	9	2.73
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	8	2.73
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	2	2.73
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	2	2.73
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	1	2.73
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	8	2.73
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	10	2.73
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	10	2.73
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	1	2.73
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	2	2.73
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	6	2.73
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	9	2.73
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	8	2.73
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	2	2.73
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	1	2.73
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	8	2.73
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	6	2.73
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	9	2.73
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	10	2.73
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	10	2.73
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	1	2.73
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	2	2.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	6	2.73
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	9	2.73
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	10	2.73
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	2	2.72
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	5	2.72
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	7	2.72
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	8	2.72
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	10	2.72
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	1	2.72
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	4	2.72
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	10	2.72
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	4	2.72
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	7	2.72
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	4	2.72
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	3	2.72
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	2	2.72
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	5	2.72
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	7	2.72
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	8	2.72
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	10	2.72
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	7	2.72
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	7	2.72
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	2	2.72
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	9	2.72
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	6	2.72
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	7	2.72
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	8	2.72
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.72
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	1	2.72
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	4	2.72
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	10	2.72
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	4	2.72
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	7	2.72
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	4	2.72
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	3	2.72
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	2	2.72
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	5	2.72
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	7	2.72
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	8	2.72
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	10	2.72
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	7	2.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	2	2.72
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	9	2.72
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	8	2.72
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	10	2.72
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	6	2.72
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	7	2.72
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	8	2.72
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.72
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	1	2.72
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	4	2.72
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	10	2.72
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	4	2.72
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	7	2.72
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	4	2.72
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	3	2.72
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	1	2.71
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	3	2.71
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	4	2.71
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	6	2.71
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	9	2.71
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	2	2.71
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	2	2.71
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	1	2.71
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	3	2.71
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	4	2.71
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	6	2.71
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	9	2.71
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	3	2.71
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	4	2.71
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	5	2.71
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	6	2.71
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	7	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	1	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	2	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	3	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	4	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	5	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	9	2.71
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	2	2.71
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	2	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	1	2.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	3	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	4	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	6	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	9	2.71
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	3	2.71
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	4	2.71
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	5	2.71
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	6	2.71
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	7	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	1	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	2	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	3	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	4	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	5	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	9	2.71
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	2	2.71
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	2	2.71
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	7	2.7
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	5	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	1	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	2	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	3	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	4	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	5	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	6	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	7	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	8	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	9	2.7
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	10	2.7
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	1	2.7
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	3	2.7
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	6	2.7
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	4	2.7
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	9	2.7
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	10	2.7
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	7	2.7
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	5	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	1	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	2	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	3	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	4	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	5	2.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	6	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	7	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	8	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	9	2.7
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	10	2.7
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	1	2.7
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	3	2.7
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	6	2.7
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	4	2.7
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	9	2.7
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	10	2.7
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	7	2.7
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	7	2.7
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	5	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	1	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	2	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	3	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	4	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	5	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	6	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	7	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	8	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	9	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	10	2.7
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	1	2.7
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	3	2.7
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	6	2.7
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	4	2.7
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	9	2.7
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	10	2.7
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	3	2.69
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	2	2.69
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	7	2.69
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	8	2.69
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	9	2.69
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	1	2.69
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	2	2.69
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	5	2.69
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	7	2.69
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	8	2.69
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	8	2.69
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	3	2.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	3	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	1	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	2	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	3	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	4	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	6	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	7	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	8	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	9	2.69
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.69
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	1	2.69
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	4	2.69
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	5	2.69
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	6	2.69
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	8	2.69
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	9	2.69
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	6	2.69
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	3	2.69
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	2	2.69
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	7	2.69
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	8	2.69
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	9	2.69
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	1	2.69
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	2	2.69
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	5	2.69
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	7	2.69
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	8	2.69
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	8	2.69
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	3	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	1	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	2	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	3	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	4	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	6	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	7	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	8	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	9	2.69
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.69
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	1	2.69
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	4	2.69
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	5	2.69
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	6	2.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	8	2.69
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	9	2.69
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	6	2.69
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	3	2.69
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	2	2.69
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	7	2.69
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	8	2.69
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	9	2.69
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	1	2.69
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	2	2.69
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	5	2.69
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	7	2.69
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	8	2.69
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	8	2.69
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	6	2.68
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	8	2.68
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	5	2.68
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	8	2.68
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	4	2.68
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	5	2.68
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	10	2.68
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	3	2.68
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	6	2.68
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	5	2.68
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	2	2.68
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	3	2.68
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	7	2.68
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	10	2.68
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	6	2.68
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	8	2.68
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	10	2.68
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	5	2.68
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	8	2.68
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	4	2.68
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	5	2.68
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	10	2.68
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	3	2.68
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	6	2.68
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	5	2.68
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	2	2.68
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	3	2.68
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	7	2.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	10	2.68
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	6	2.68
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	8	2.68
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	10	2.68
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	5	2.68
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	8	2.68
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	4	2.68
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	5	2.68
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	10	2.68
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	3	2.68
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	6	2.68
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	5	2.67
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	1	2.67
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	6	2.67
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	9	2.67
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	4	2.67
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	5	2.67
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	1	2.67
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	6	2.67
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	9	2.67
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	4	2.67
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	5	2.67
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	1	2.67
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	6	2.67
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	9	2.67
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	4	2.67
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	2	2.66
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	10	2.66
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	6	2.66
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	9	2.66
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	6	2.66
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	7	2.66
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	5	2.66
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	7	2.66
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	9	2.66
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	2	2.66
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	2	2.66
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	5	2.66
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	5	2.66
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	10	2.66
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	6	2.66
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	9	2.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	6	2.66
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	7	2.66
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	5	2.66
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	7	2.66
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	9	2.66
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	2	2.66
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	2	2.66
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	5	2.66
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	10	2.66
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	6	2.66
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	9	2.66
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	6	2.66
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	7	2.66
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	5	2.66
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	7	2.66
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	9	2.66
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	2	2.66
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	3	2.65
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	4	2.65
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	6	2.65
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	10	2.65
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	3	2.65
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	10	2.65
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	4	2.65
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	7	2.65
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	3	2.65
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	4	2.65
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	3	2.65
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	6	2.65
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	10	2.65
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	3	2.65
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	10	2.65
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	4	2.65
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	7	2.65
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	3	2.65
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	4	2.65
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	3	2.65
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	6	2.65
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	10	2.65
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	3	2.65
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	10	2.65
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	4	2.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	7	2.65
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	1	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	2	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	3	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	4	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	7	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	8	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	9	2.64
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	10	2.64
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	7	2.64
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	8	2.64
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	5	2.64
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	8	2.64
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	2	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	1	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	3	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	5	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	6	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	8	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	9	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	1	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	2	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	3	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	4	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	7	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	8	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	9	2.64
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	10	2.64
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	8	2.64
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	7	2.64
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	8	2.64
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	5	2.64
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	8	2.64
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	2	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	1	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	3	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	5	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	6	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	8	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	9	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	1	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	2	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	3	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	4	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	7	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	8	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	9	2.64
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	10	2.64
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	8	2.64
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	7	2.64
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	8	2.64
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	5	2.64
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	8	2.64
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	2	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	1	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	3	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	5	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	6	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	8	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	9	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	6	2.63
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	9	2.63
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	5	2.63
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	6	2.63
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	2	2.63
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	3	2.63
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	5	2.63
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	4	2.63
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	7	2.63
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	5	2.63
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	2	2.63
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	3	2.63
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	8	2.63
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	1	2.63
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	8	2.63
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	8	2.63
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	6	2.63
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	9	2.63
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	5	2.63
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	6	2.63
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	2	2.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	3	2.63
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	5	2.63
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	4	2.63
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	7	2.63
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	5	2.63
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	2	2.63
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	3	2.63
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	8	2.63
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	1	2.63
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	8	2.63
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	6	2.63
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	9	2.63
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	5	2.63
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	6	2.63
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	2	2.63
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	3	2.63
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	5	2.63
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	4	2.63
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	7	2.63
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	5	2.63
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	2	2.63
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	3	2.63
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	8	2.63
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	1	2.63
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	2	2.62
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	5	2.62
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	5	2.62
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	9	2.62
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	10	2.62
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	3	2.62
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	6	2.62
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	4	2.62
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	6	2.62
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	7	2.62
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	2	2.62
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	5	2.62
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	5	2.62
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	9	2.62
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	10	2.62
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	3	2.62
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	6	2.62
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	4	2.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	6	2.62
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	7	2.62
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	2	2.62
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	5	2.62
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	5	2.62
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	9	2.62
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	10	2.62
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	3	2.62
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	6	2.62
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	4	2.62
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	6	2.62
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	7	2.62
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	7	2.61
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	8	2.61
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	7	2.61
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	2	2.61
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	3	2.61
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	4	2.61
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	7	2.61
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	7	2.61
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	2	2.61
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	4	2.61
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	7	2.61
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	8	2.61
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	7	2.61
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	2	2.61
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	3	2.61
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	4	2.61
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	7	2.61
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	7	2.61
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	2	2.61
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	4	2.61
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	7	2.61
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	8	2.61
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	7	2.61
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	2	2.61
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	3	2.61
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	4	2.61
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	7	2.61
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	7	2.61
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	2	2.61
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	4	2.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	1	2.6
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	9	2.6
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	3	2.6
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.6
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	7	2.6
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	7	2.6
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	3	2.6
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	3	2.6
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	1	2.6
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	1	2.6
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	5	2.6
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	1	2.6
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	9	2.6
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	3	2.6
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.6
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	7	2.6
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	7	2.6
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	3	2.6
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	3	2.6
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	1	2.6
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	1	2.6
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	5	2.6
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	1	2.6
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	9	2.6
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	3	2.6
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.6
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	7	2.6
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	7	2.6
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	3	2.6
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	3	2.6
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	1	2.6
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	1	2.6
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	5	2.6
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	8	2.59
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	7	2.59
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	10	2.59
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	2	2.59
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	8	2.59
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	7	2.59
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	10	2.59
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	2	2.59
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	8	2.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	7	2.59
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	10	2.59
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	2	2.59
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	6	2.58
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	7	2.58
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	3	2.58
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	1	2.58
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	6	2.58
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	8	2.58
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	8	2.58
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	9	2.58
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	6	2.58
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	7	2.58
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	3	2.58
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	1	2.58
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	6	2.58
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	8	2.58
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	4	2.58
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	4	2.58
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	8	2.58
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	9	2.58
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	6	2.58
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	7	2.58
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	3	2.58
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	1	2.58
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	6	2.58
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	8	2.58
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	4	2.58
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	8	2.58
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	9	2.58
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	9	2.57
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	9	2.57
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	2	2.57
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	3	2.57
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	5	2.57
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	9	2.57
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.57
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	5	2.57
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	9	2.57
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	9	2.57
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	2	2.57
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	3	2.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	5	2.57
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	9	2.57
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.57
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	5	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	3	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	4	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	5	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	6	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	7	2.57
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	9	2.57
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	9	2.57
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	2	2.57
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	3	2.57
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	5	2.57
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	9	2.57
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.57
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	5	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	3	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	4	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	5	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	6	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	7	2.57
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	1	2.56
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	7	2.56
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	1	2.56
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	4	2.56
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	6	2.56
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	8	2.56
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	3	2.56
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	1	2.56
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	7	2.56
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	1	2.56
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	8	2.56
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	9	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	1	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	2	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	3	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	5	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	6	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	9	2.56
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.56
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	1	2.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	4	2.56
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	6	2.56
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	8	2.56
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	10	2.56
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	3	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	2	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	3	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	4	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	5	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	7	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	9	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	1	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	2	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	8	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	9	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	10	2.56
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	1	2.56
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	7	2.56
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	1	2.56
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	8	2.56
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	9	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	1	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	2	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	3	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	5	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	6	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	9	2.56
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.56
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	1	2.56
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	4	2.56
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	6	2.56
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	8	2.56
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	10	2.56
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	3	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	2	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	3	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	4	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	5	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	7	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	9	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	1	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	2	2.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	8	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	9	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	10	2.56
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	2	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	3	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	6	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	9	2.55
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	5	2.55
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	10	2.55
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	4	2.55
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	7	2.55
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	4	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	2	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	3	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	6	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	9	2.55
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	5	2.55
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	10	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	2	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	3	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	4	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	5	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	6	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	7	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	10	2.55
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	4	2.55
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	7	2.55
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	8	2.55
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.55
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	4	2.55
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	7	2.55
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	7	2.55
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	4	2.55
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	6	2.55
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	8	2.55
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	2	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	3	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	6	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	9	2.55
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	5	2.55
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	10	2.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	2	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	3	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	4	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	5	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	6	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	7	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	10	2.55
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	4	2.55
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	7	2.55
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	8	2.55
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.55
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	4	2.55
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	7	2.55
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	7	2.55
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	4	2.55
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	6	2.55
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	8	2.55
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	4	2.54
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	5	2.54
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	8	2.54
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.54
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	4	2.54
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	10	2.54
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.54
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	8	2.54
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.54
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	8	2.54
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	10	2.54
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	4	2.54
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	5	2.54
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	8	2.54
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.54
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	4	2.54
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	10	2.54
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	2	2.54
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	3	2.54
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	4	2.54
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	5	2.54
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	9	2.54
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.54
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	8	2.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.54
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	9	2.54
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	8	2.54
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	10	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	1	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	3	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	4	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	5	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	6	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	8	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	9	2.54
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.54
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	1	2.54
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	4	2.54
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	5	2.54
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	8	2.54
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.54
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	4	2.54
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	10	2.54
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	2	2.54
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	3	2.54
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	4	2.54
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	5	2.54
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	9	2.54
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.54
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	8	2.54
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.54
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	2	2.54
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	3	2.54
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	4	2.54
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	5	2.54
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	8	2.54
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	10	2.54
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	9	2.54
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	8	2.54
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	10	2.54
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	1	2.54
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	3	2.54
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	4	2.54
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	5	2.54
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	6	2.54
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	8	2.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	9	2.54
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.54
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	1	2.54
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	3	2.53
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	8	2.53
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	1	2.53
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	2	2.53
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	3	2.53
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	5	2.53
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	5	2.53
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	3	2.53
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	1	2.53
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	6	2.53
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	7	2.53
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	8	2.53
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	8	2.53
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	1	2.53
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	2	2.53
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	3	2.53
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	5	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	1	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	2	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	3	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	4	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	5	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	6	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	7	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	9	2.53
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.53
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	2	2.53
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	7	2.53
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	5	2.53
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	3	2.53
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	1	2.53
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	6	2.53
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	7	2.53
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	8	2.53
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	8	2.53
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	1	2.53
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	2	2.53
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	3	2.53
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	5	2.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	1	2.53
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	6	2.53
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	7	2.53
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	9	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	1	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	2	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	3	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	4	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	5	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	6	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	7	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	9	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.53
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	2	2.53
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	7	2.53
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	5	2.53
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	9	2.52
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	6	2.52
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	10	2.52
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	4	2.52
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	1	2.52
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	1	2.52
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	9	2.52
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	6	2.52
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	10	2.52
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	4	2.52
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	1	2.52
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	8	2.52
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	1	2.52
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	9	2.52
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	6	2.52
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	10	2.52
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	4	2.52
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	1	2.52
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	8	2.52
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	5	2.51
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	4	2.51
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	6	2.51
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	8	2.51
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	10	2.51
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	4	2.51
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	1	2.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	7	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	2	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	3	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	4	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	5	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	6	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	7	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	9	2.51
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	10	2.51
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	5	2.51
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	4	2.51
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	6	2.51
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	8	2.51
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	10	2.51
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	4	2.51
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	1	2.51
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	3	2.51
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	7	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	2	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	3	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	4	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	5	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	6	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	7	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	9	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	10	2.51
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	5	2.51
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	4	2.51
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	6	2.51
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	8	2.51
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	10	2.51
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	4	2.51
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	1	2.51
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	3	2.51
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	7	2.51
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	2	2.5
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	10	2.5
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	2	2.5
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	5	2.5
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	7	2.5
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	7	2.5
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	1	2.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	2	2.5
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	8	2.5
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	2	2.5
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	10	2.5
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	2	2.5
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	5	2.5
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	7	2.5
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	7	2.5
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	1	2.5
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	2	2.5
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	8	2.5
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	2	2.5
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	10	2.5
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	2	2.5
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	5	2.5
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	7	2.5
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	7	2.5
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	1	2.5
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	2	2.5
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	1	2.49
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	9	2.49
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	4	2.49
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	9	2.49
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	3	2.49
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	4	2.49
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	5	2.49
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	8	2.49
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	9	2.49
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	1	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	3	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	6	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	9	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.49
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	1	2.49
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	9	2.49
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	4	2.49
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	9	2.49
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	3	2.49
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	4	2.49
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	5	2.49
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	8	2.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	9	2.49
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	1	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	3	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	6	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	9	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.49
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	1	2.49
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	9	2.49
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	4	2.49
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	9	2.49
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	3	2.49
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	4	2.49
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	5	2.49
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	8	2.49
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	9	2.49
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	1	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	3	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	6	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	9	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.49
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	4	2.48
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	9	2.48
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	6	2.48
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	6	2.48
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	6	2.48
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	7	2.48
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	10	2.48
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	4	2.48
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	5	2.48
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	8	2.48
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	4	2.48
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	9	2.48
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	6	2.48
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	6	2.48
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	6	2.48
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	7	2.48
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	10	2.48
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	4	2.48
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	5	2.48
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	8	2.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	4	2.48
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	9	2.48
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	6	2.48
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	6	2.48
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	6	2.48
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	7	2.48
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	10	2.48
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	4	2.48
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	5	2.48
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	8	2.48
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	1	2.47
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	3	2.47
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	7	2.47
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	8	2.47
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	10	2.47
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	6	2.47
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	1	2.47
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	3	2.47
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	7	2.47
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	8	2.47
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	10	2.47
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	6	2.47
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	1	2.47
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	3	2.47
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	7	2.47
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	8	2.47
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	10	2.47
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	6	2.47
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	2	2.46
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	5	2.46
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	6	2.46
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	3	2.46
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	2	2.46
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	2	2.46
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	3	2.46
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	4	2.46
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	5	2.46
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	7	2.46
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	8	2.46
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	2	2.46
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	7	2.46
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	2	2.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	5	2.46
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	6	2.46
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	3	2.46
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	9	2.46
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	2	2.46
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	2	2.46
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	3	2.46
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	4	2.46
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	5	2.46
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	7	2.46
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	8	2.46
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	2	2.46
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	7	2.46
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	2	2.46
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	5	2.46
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	6	2.46
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	3	2.46
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	9	2.46
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	2	2.46
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	2	2.46
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	3	2.46
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	4	2.46
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	5	2.46
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	7	2.46
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	8	2.46
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	2	2.46
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	7	2.46
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	6	2.45
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	1	2.45
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	2	2.45
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	3	2.45
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	6	2.45
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	1	2.45
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	2	2.45
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	3	2.45
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	6	2.45
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	1	2.45
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	2	2.45
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	3	2.45
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	3	2.44
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	6	2.44
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	8	2.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	9	2.44
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	3	2.44
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	6	2.44
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	8	2.44
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	9	2.44
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	3	2.44
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	6	2.44
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	8	2.44
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	9	2.44
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	9	2.43
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	8	2.43
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	4	2.43
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	9	2.43
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	8	2.43
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	4	2.43
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	9	2.43
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	8	2.43
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	4	2.43
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	2	2.42
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	4	2.42
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	7	2.42
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	6	2.42
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	2	2.42
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	4	2.42
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	7	2.42
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	6	2.42
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	2	2.42
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	4	2.42
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	7	2.42
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	6	2.42
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	7	2.41
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	5	2.41
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	3	2.41
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	7	2.41
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	5	2.41
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	3	2.41
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	7	2.41
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	5	2.41
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	3	2.41
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	6	2.4
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	3	2.4
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	1	2.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	10	2.4
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	2	2.4
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	6	2.4
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	3	2.4
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	1	2.4
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	10	2.4
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	2	2.4
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	6	2.4
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	3	2.4
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	1	2.4
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	10	2.4
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	2	2.4
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	9	2.39
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	1	2.39
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	6	2.39
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	8	2.39
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	6	2.39
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	9	2.39
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	5	2.39
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	9	2.39
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	1	2.39
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	6	2.39
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	8	2.39
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	6	2.39
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	9	2.39
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	5	2.39
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	9	2.39
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	1	2.39
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	6	2.39
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	8	2.39
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	6	2.39
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	9	2.39
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	5	2.39
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	1	2.38
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	10	2.38
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	5	2.38
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	1	2.38
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	10	2.38
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	5	2.38
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	1	2.38
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	10	2.38
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	5	2.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	8	2.37
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	2	2.37
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	5	2.37
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	7	2.37
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	1	2.37
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	8	2.37
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	2	2.37
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	5	2.37
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	7	2.37
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	1	2.37
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	8	2.37
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	2	2.37
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	5	2.37
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	7	2.37
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	1	2.37
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	1	2.37
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	6	2.37
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	9	2.36
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	4	2.36
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	7	2.36
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	8	2.36
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	9	2.36
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	4	2.36
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	7	2.36
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	8	2.36
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	9	2.36
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	4	2.36
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	7	2.36
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	8	2.36
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	4	2.36
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	10	2.36
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	4	2.35
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	3	2.35
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	10	2.35
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	4	2.35
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	3	2.35
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	10	2.35
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	4	2.35
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	3	2.35
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	10	2.35
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	3	2.35
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	5	2.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	1	2.34
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	5	2.34
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	9	2.34
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	3	2.34
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	1	2.34
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	5	2.34
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	9	2.34
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	3	2.34
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	1	2.34
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	5	2.34
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	9	2.34
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	3	2.34
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	7	2.34
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	8	2.34
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	8	2.33
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	2	2.33
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	7	2.33
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	6	2.33
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	8	2.33
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	2	2.33
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	7	2.33
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	6	2.33
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	8	2.33
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	2	2.33
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	7	2.33
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	6	2.33
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	9	2.32
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	9	2.32
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	9	2.32
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	9	2.32
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	4	2.31
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	10	2.31
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	4	2.31
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	10	2.31
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	4	2.31
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	10	2.31
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	2	2.31
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	4	2.3
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	1	2.3
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	1	2.3
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	4	2.3
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	1	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	1	2.3
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	4	2.3
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	1	2.3
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	1	2.3
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	10	2.29
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	10	2.29
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	10	2.29
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	9	2.28
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	9	2.28
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	9	2.28
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	3	2.27
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	8	2.27
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	3	2.27
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	8	2.27
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	3	2.27
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	8	2.27
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	2	2.26
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	3	2.26
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	4	2.26
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	6	2.26
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	4	2.26
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	6	2.26
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	4	2.26
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	6	2.25
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	7	2.25
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	10	2.25
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	1	2.25
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	1	2.25
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	4	2.24
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	1	2.23
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	5	2.23
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	8	2.23
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	9	2.23
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	2	2.22
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	2	2.22
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	3	2.21
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	3	2.21
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	6	2.2
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	4	2.2
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	7	2.2
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	8	2.2
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	6	2.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	4	2.2
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	7	2.2
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	8	2.2
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	6	2.2
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	5	2.19
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	5	2.19
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	2	2.17
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	5	2.17
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	8	2.17
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	9	2.17
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	8	2.17
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	2	2.17
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	6	2.17
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	5	2.17
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	8	2.17
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	9	2.17
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	4	2.17
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	8	2.17
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	2	2.17
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	6	2.17
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	5	2.17
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	8	2.17
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	9	2.17
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	4	2.17
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	1	2.16
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	1	2.16
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	2	2.16
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	7	2.16
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	8	2.16
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	7	2.16
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	10	2.16
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	9	2.16
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	1	2.16
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	7	2.16
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	1	2.16
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	2	2.16
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	7	2.16
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	8	2.16
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	7	2.16
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	10	2.16
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	9	2.16
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	1	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	7	2.16
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	1	2.16
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	2	2.16
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	7	2.16
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	8	2.16
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	7	2.16
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	10	2.16
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	5	2.15
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	6	2.15
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	5	2.15
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	6	2.15
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	5	2.15
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	1	2.15
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	6	2.15
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	5	2.15
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	6	2.15
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	5	2.15
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	1	2.15
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	6	2.15
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	5	2.15
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	6	2.15
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	4	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	1	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	2	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	3	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	4	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	8	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	9	2.14
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	1	2.14
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	7	2.14
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	4	2.14
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	2	2.14
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	3	2.14
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	9	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	1	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	2	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	3	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	4	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	8	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	9	2.14
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	1	2.14
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	7	2.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	4	2.14
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	2	2.14
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	3	2.14
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	9	2.14
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	1	2.14
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	2	2.14
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	3	2.14
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	4	2.14
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	8	2.14
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	9	2.14
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	3	2.13
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	4	2.13
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	8	2.13
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	3	2.13
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	4	2.13
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	8	2.13
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	3	2.13
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	4	2.13
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	1	2.12
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	7	2.12
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	3	2.12
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	10	2.12
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	1	2.12
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	7	2.12
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	2	2.12
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	10	2.12
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	4	2.12
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	5	2.12
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	10	2.12
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	3	2.12
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	10	2.12
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	1	2.12
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	7	2.12
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	2	2.12
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	10	2.12
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	4	2.12
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	5	2.12
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	10	2.12
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	3	2.12
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	10	2.12
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	3	2.11
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	8	2.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	9	2.11
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	6	2.11
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	7	2.11
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	5	2.11
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	3	2.11
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	8	2.11
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	9	2.11
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	10	2.11
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	6	2.11
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	7	2.11
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	6	2.11
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	5	2.11
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	3	2.11
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	8	2.11
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	9	2.11
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	10	2.11
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	6	2.11
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	7	2.11
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	6	2.11
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	5	2.11
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	8	2.1
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	9	2.1
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	2	2.1
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.1
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	3	2.1
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	9	2.1
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	8	2.1
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	9	2.1
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	1	2.1
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	5	2.1
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	2	2.1
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	3	2.1
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	10	2.1
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.1
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	3	2.1
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	9	2.1
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	8	2.1
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	9	2.1
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	1	2.1
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	5	2.1
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	2	2.1
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	3	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	10	2.1
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.1
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	9	2.09
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	10	2.09
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	1	2.09
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	4	2.09
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	10	2.09
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	1	2.09
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	8	2.09
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	4	2.09
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	9	2.09
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	10	2.09
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	1	2.09
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	4	2.09
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	10	2.09
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	2	2.09
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	4	2.09
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	7	2.09
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	8	2.09
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	1	2.09
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	8	2.09
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	4	2.09
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	9	2.09
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	10	2.09
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	1	2.09
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	4	2.09
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	10	2.09
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	2	2.09
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	4	2.09
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	7	2.09
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	8	2.09
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	1	2.09
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	8	2.09
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	5	2.08
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	6	2.08
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	1	2.08
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	2	2.08
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	3	2.08
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	5	2.08
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	6	2.08
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	1	2.08
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	3	2.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	5	2.08
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	6	2.08
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	5	2.08
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	6	2.08
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	1	2.08
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	2	2.08
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	3	2.08
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	5	2.08
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	6	2.08
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	1	2.08
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	3	2.08
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	5	2.08
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	6	2.08
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	5	2.08
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	6	2.08
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	1	2.08
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	2	2.08
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	3	2.08
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	5	2.08
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	6	2.08
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	1	2.08
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	3	2.08
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	2	2.07
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	5	2.07
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	5	2.07
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	6	2.07
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	2	2.07
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	5	2.07
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	5	2.07
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	6	2.07
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	2	2.07
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	5	2.07
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	5	2.07
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	6	2.07
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	8	2.06
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	6	2.06
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	4	2.06
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	9	2.06
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	8	2.06
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	3	2.06
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	10	2.06
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	6	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	4	2.06
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	9	2.06
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	1	2.06
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	6	2.06
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	8	2.06
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	3	2.06
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	10	2.06
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	6	2.06
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	4	2.06
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	9	2.06
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	3	2.05
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	7	2.05
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	2	2.05
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	3	2.05
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	7	2.05
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	6	2.05
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	8	2.05
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	2	2.05
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	3	2.05
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	7	2.05
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	6	2.05
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	8	2.05
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	2	2.05
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	9	2.04
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	2	2.04
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	9	2.04
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	2	2.04
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	7	2.03
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	7	2.03
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	7	2.03
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	2	2.03
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	7	2.03
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	7	2.03
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	3	2.02
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	4	2.02
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	5	2.01
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	7	2.01
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	4	2.0
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	4	2.0
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	6	2.0
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	4	2.0
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	8	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	6	2.0
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	1	1.99
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	3	1.99
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	4	1.99
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	1	1.99
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	3	1.99
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	4	1.99
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	4	1.98
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	4	1.98
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	10	1.98
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	4	1.98
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	4	1.98
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	2	1.98
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	8	1.98
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	10	1.98
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	10	1.98
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	4	1.98
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	9	1.98
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	4	1.98
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	2	1.98
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	8	1.98
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	10	1.98
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	10	1.98
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	10	1.97
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	5	1.96
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	6	1.96
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	5	1.96
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	6	1.96
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	5	1.96
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	6	1.96
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	5	1.96
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	6	1.96
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	9	1.96
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	5	1.96
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	6	1.96
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	5	1.96
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	6	1.96
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	9	1.96
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	5	1.95
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	7	1.95
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	9	1.95
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	5	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	7	1.95
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	9	1.95
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	2	1.94
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	7	1.94
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	2	1.94
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	1	1.94
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	7	1.94
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	7	1.94
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	1	1.94
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	2	1.94
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	1	1.94
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	7	1.94
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	7	1.94
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	1	1.94
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	1	1.93
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	7	1.93
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	1	1.93
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	7	1.93
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	1	1.93
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	7	1.93
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	1	1.93
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	7	1.93
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	2	1.93
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	3	1.93
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	4	1.93
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	6	1.93
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	8	1.93
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	9	1.93
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	1	1.93
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	7	1.93
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	1	1.93
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	7	1.93
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	2	1.93
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	3	1.93
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	4	1.93
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	6	1.93
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	8	1.93
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	9	1.93
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	3	1.92
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	1	1.92
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	2	1.92
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	3	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	3	1.92
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	1	1.92
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	2	1.92
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	3	1.92
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	5	1.92
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	10	1.92
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	3	1.92
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	1	1.92
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	2	1.92
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	3	1.92
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	5	1.92
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	10	1.92
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.91
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	2	1.91
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	3	1.91
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	4	1.91
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	5	1.91
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	6	1.91
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	2	1.91
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.91
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	2	1.91
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	3	1.91
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	4	1.91
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	5	1.91
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	6	1.91
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	2	1.91
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	1	1.91
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.91
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	2	1.91
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	3	1.91
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	4	1.91
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	5	1.91
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	6	1.91
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	2	1.91
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	1	1.91
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.9
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	3	1.9
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	4	1.9
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	6	1.9
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.9
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	3	1.9
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	4	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	6	1.9
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	5	1.9
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	6	1.9
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.9
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	3	1.9
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	4	1.9
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	6	1.9
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	5	1.9
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	6	1.9
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	7	1.89
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	8	1.89
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	9	1.89
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	7	1.89
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	8	1.89
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	9	1.89
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	7	1.89
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	8	1.89
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	9	1.89
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	2	1.88
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	5	1.88
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	7	1.88
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	8	1.88
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.88
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	2	1.88
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	4	1.88
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	10	1.88
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	5	1.88
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	7	1.88
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	8	1.88
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.88
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	2	1.88
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	4	1.88
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	10	1.88
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	5	1.88
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	7	1.88
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	8	1.88
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.88
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	3	1.87
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	1	1.87
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	2	1.87
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	9	1.87
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	3	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	5	1.87
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	1	1.87
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	2	1.87
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	9	1.87
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	1	1.87
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	3	1.87
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	5	1.87
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	1	1.87
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	2	1.87
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	9	1.87
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	7	1.86
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	7	1.86
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	4	1.86
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	5	1.86
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	8	1.86
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	7	1.86
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	4	1.86
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	5	1.86
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	10	1.85
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	10	1.85
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	9	1.85
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	1	1.85
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	10	1.85
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	10	1.85
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	9	1.85
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	7	1.85
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	8	1.85
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	1	1.85
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	10	1.85
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	10	1.85
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	9	1.85
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	7	1.85
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	8	1.85
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	1	1.85
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	8	1.84
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	8	1.84
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	1	1.84
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	6	1.84
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.84
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	8	1.84
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	8	1.84
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	1	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	6	1.84
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.84
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	2	1.84
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	9	1.84
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.84
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	3	1.84
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	4	1.84
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	8	1.84
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	8	1.84
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	1	1.84
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	6	1.84
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.84
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	2	1.84
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	9	1.84
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.84
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	10	1.83
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	9	1.83
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	9	1.83
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	2	1.83
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	3	1.83
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	5	1.83
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	10	1.83
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	9	1.83
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	9	1.83
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	2	1.83
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	1	1.83
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	3	1.83
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	5	1.83
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	10	1.83
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	9	1.83
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	9	1.83
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	2	1.83
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	1	1.83
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	3	1.83
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	5	1.83
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	8	1.82
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	6	1.82
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	7	1.82
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	8	1.82
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	3	1.82
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	7	1.82
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	6	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	7	1.82
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	9	1.82
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	10	1.82
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	8	1.82
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	3	1.82
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	7	1.82
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	6	1.82
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	7	1.82
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	4	1.81
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	3	1.81
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	2	1.81
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	4	1.81
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	8	1.81
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	9	1.81
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	4	1.81
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	3	1.81
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	6	1.81
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	3	1.81
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	2	1.81
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	4	1.81
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	8	1.81
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	9	1.81
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	6	1.81
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	7	1.81
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	4	1.81
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	3	1.81
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	6	1.81
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	3	1.81
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	2	1.81
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	4	1.81
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	8	1.81
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	9	1.81
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	1	1.8
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	1	1.8
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	2	1.8
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	1	1.8
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	2	1.8
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	9	1.79
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	9	1.79
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	5	1.79
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	9	1.79
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.78
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.78
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	1	1.77
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	8	1.77
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	8	1.77
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	1	1.77
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	8	1.77
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	2	1.77
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	8	1.77
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	1	1.76
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	1	1.76
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	6	1.76
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	9	1.76
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	1	1.76
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	6	1.76
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	9	1.76
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	3	1.75
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	4	1.75
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	5	1.75
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	3	1.75
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	4	1.75
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	3	1.75
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	4	1.75
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	5	1.75
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	3	1.75
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	4	1.75
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	3	1.75
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	4	1.75
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	5	1.75
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	4	1.74
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.74
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	4	1.74
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	1	1.74
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	7	1.74
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	8	1.74
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.74
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	4	1.74
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	1	1.74
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	7	1.74
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	8	1.74
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	8	1.73
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	9	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	3	1.73
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	8	1.73
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	9	1.73
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	3	1.73
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	8	1.73
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	6	1.72
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	10	1.72
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	2	1.72
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	6	1.72
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	7	1.72
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	6	1.72
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	10	1.72
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	2	1.72
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	4	1.72
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	5	1.72
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	9	1.72
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	2	1.72
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	6	1.72
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	7	1.72
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	6	1.72
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	10	1.72
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	2	1.72
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	4	1.72
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	5	1.72
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	9	1.72
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	6	1.71
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	5	1.71
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	5	1.71
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	6	1.71
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	5	1.71
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	5	1.71
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	6	1.71
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	5	1.71
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	7	1.7
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	8	1.7
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	2	1.7
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	7	1.7
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	8	1.7
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	10	1.7
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	2	1.7
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	7	1.7
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	8	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	10	1.7
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	2	1.7
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	9	1.69
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	9	1.69
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	9	1.69
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	3	1.68
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	3	1.68
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	3	1.68
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	1	1.67
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	2	1.67
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	9	1.67
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	1	1.67
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	2	1.67
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	9	1.67
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	1	1.67
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	2	1.67
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	9	1.67
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	10	1.67
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	5	1.66
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	5	1.66
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	5	1.66
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	4	1.66
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	5	1.65
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	5	1.65
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	5	1.65
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	5	1.65
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	6	1.64
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	6	1.64
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	6	1.64
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	8	1.63
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	4	1.63
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	8	1.63
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	6	1.63
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	4	1.63
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	8	1.63
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	6	1.63
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	4	1.63
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	7	1.62
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	7	1.62
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	7	1.62
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	7	1.62
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	5	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	5	1.6
(4,34)	1:6:A:C:O2	1:9:A:G:H22	7	1.59
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	4	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	1	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	2	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	3	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	4	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	5	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	6	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	7	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	8	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	9	1.59
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.59
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	4	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	1	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	2	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	3	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	4	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	5	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	6	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	7	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	8	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	9	1.59
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.59
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	1	1.58
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	3	1.58
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	7	1.58
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	8	1.58
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	1	1.58
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	3	1.58
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	7	1.58
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	8	1.58
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	1	1.58
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	7	1.57
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.57
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	1	1.57
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	7	1.57
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.57
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	1	1.57
(2,170)	1:14:A:C:H5	1:13:A:C:H5	2	1.56
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	1	1.56
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	2	1.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	8	1.56
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	9	1.56
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	3	1.56
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	6	1.56
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	7	1.56
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	8	1.56
(1,175)	1:14:A:C:H5	1:13:A:C:H5	2	1.56
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	1	1.56
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	2	1.56
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	8	1.56
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	9	1.56
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	3	1.56
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	6	1.56
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	7	1.56
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	8	1.56
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	8	1.56
(4,34)	1:6:A:C:O2	1:9:A:G:H22	6	1.55
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	7	1.55
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	9	1.55
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.55
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	7	1.55
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	9	1.55
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.55
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	3	1.55
(4,34)	1:6:A:C:O2	1:9:A:G:H22	5	1.54
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	3	1.54
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	2	1.54
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	3	1.54
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	4	1.54
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	5	1.54
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	6	1.54
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	8	1.54
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	2	1.54
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	5	1.54
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	3	1.54
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	2	1.54
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	3	1.54
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	4	1.54
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	5	1.54
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	6	1.54
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	8	1.54
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	2	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	5	1.54
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	3	1.54
(4,34)	1:6:A:C:O2	1:9:A:G:H22	2	1.53
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	1	1.53
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	1	1.53
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	4	1.53
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	9	1.53
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.53
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	1	1.53
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	1	1.53
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	4	1.53
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	9	1.53
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.53
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	2	1.53
(4,34)	1:6:A:C:O2	1:9:A:G:H22	1	1.52
(4,34)	1:6:A:C:O2	1:9:A:G:H22	4	1.52
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	9	1.51
(4,34)	1:6:A:C:O2	1:9:A:G:H22	3	1.5
(2,130)	1:11:A:U:H5	1:10:A:C:H6	1	1.5
(2,130)	1:11:A:U:H5	1:10:A:C:H6	6	1.5
(1,135)	1:11:A:U:H5	1:10:A:C:H6	1	1.5
(1,135)	1:11:A:U:H5	1:10:A:C:H6	6	1.5
(4,34)	1:6:A:C:O2	1:9:A:G:H22	8	1.49
(4,34)	1:6:A:C:O2	1:9:A:G:H22	10	1.49
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	2	1.48
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	8	1.48
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	9	1.48
(2,170)	1:14:A:C:H5	1:13:A:C:H5	10	1.48
(2,130)	1:11:A:U:H5	1:10:A:C:H6	4	1.48
(2,130)	1:11:A:U:H5	1:10:A:C:H6	8	1.48
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	2	1.48
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	8	1.48
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	9	1.48
(1,175)	1:14:A:C:H5	1:13:A:C:H5	10	1.48
(1,135)	1:11:A:U:H5	1:10:A:C:H6	4	1.48
(1,135)	1:11:A:U:H5	1:10:A:C:H6	8	1.48
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	2	1.48
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	8	1.48
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	9	1.48
(2,170)	1:14:A:C:H5	1:13:A:C:H5	3	1.47
(2,130)	1:11:A:U:H5	1:10:A:C:H6	2	1.47
(2,130)	1:11:A:U:H5	1:10:A:C:H6	9	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,175)	1:14:A:C:H5	1:13:A:C:H5	3	1.47
(1,135)	1:11:A:U:H5	1:10:A:C:H6	2	1.47
(1,135)	1:11:A:U:H5	1:10:A:C:H6	9	1.47
(2,170)	1:14:A:C:H5	1:13:A:C:H5	6	1.46
(2,130)	1:11:A:U:H5	1:10:A:C:H6	3	1.46
(2,130)	1:11:A:U:H5	1:10:A:C:H6	7	1.46
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	2	1.46
(1,175)	1:14:A:C:H5	1:13:A:C:H5	6	1.46
(1,135)	1:11:A:U:H5	1:10:A:C:H6	3	1.46
(1,135)	1:11:A:U:H5	1:10:A:C:H6	7	1.46
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	2	1.46
(2,170)	1:14:A:C:H5	1:13:A:C:H5	4	1.45
(2,130)	1:11:A:U:H5	1:10:A:C:H6	5	1.45
(1,175)	1:14:A:C:H5	1:13:A:C:H5	4	1.45
(1,135)	1:11:A:U:H5	1:10:A:C:H6	5	1.45
(2,170)	1:14:A:C:H5	1:13:A:C:H5	7	1.44
(1,175)	1:14:A:C:H5	1:13:A:C:H5	7	1.44
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	1	1.44
(2,130)	1:11:A:U:H5	1:10:A:C:H6	10	1.43
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	6	1.43
(1,135)	1:11:A:U:H5	1:10:A:C:H6	10	1.43
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	6	1.43
(4,34)	1:6:A:C:O2	1:9:A:G:H22	9	1.42
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	7	1.42
(2,170)	1:14:A:C:H5	1:13:A:C:H5	1	1.42
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	7	1.42
(1,175)	1:14:A:C:H5	1:13:A:C:H5	1	1.42
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	7	1.42
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	9	1.4
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	9	1.4
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	6	1.4
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	9	1.4
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	6	1.4
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	10	1.39
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	4	1.39
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	10	1.39
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	4	1.39
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	2	1.39
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	10	1.39
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	4	1.39
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	2	1.39
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	4	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	9	1.37
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	4	1.37
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	9	1.37
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	10	1.36
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	10	1.36
(2,170)	1:14:A:C:H5	1:13:A:C:H5	9	1.35
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	3	1.35
(1,175)	1:14:A:C:H5	1:13:A:C:H5	9	1.35
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	3	1.35
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	5	1.34
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	5	1.34
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	1	1.34
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	8	1.34
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.34
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	5	1.34
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	1	1.34
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	8	1.34
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.34
(2,170)	1:14:A:C:H5	1:13:A:C:H5	5	1.33
(1,175)	1:14:A:C:H5	1:13:A:C:H5	5	1.33
(2,170)	1:14:A:C:H5	1:13:A:C:H5	8	1.32
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	5	1.32
(1,175)	1:14:A:C:H5	1:13:A:C:H5	8	1.32
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	5	1.32
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	6	1.31
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.29
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.29
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	7	1.29
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.29
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	7	1.29
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	5	1.28
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	7	1.27
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	4	1.27
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	5	1.27
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	4	1.27
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	5	1.27
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	3	1.26
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	8	1.26
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	9	1.26
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	9	1.26
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	1	1.25
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	6	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	1	1.25
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	1	1.25
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	2	1.24
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	4	1.24
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	9	1.24
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	6	1.24
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	9	1.24
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	10	1.24
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	6	1.24
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	9	1.24
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	10	1.24
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	10	1.23
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	1	1.23
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	2	1.23
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	8	1.23
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	9	1.23
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.23
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	3	1.23
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	7	1.23
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	8	1.23
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	1	1.23
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	2	1.23
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	8	1.23
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	9	1.23
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.23
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	3	1.23
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	7	1.23
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	8	1.23
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	3	1.22
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	4	1.22
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	5	1.22
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	7	1.22
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	2	1.22
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	4	1.22
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	5	1.22
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	3	1.22
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	4	1.22
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	5	1.22
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	7	1.22
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	2	1.22
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	4	1.22
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	5	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	6	1.21
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	3	1.21
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	6	1.21
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	3	1.21
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	3	1.2
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	2	1.19
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	6	1.19
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	1	1.19
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	2	1.19
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	6	1.19
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	6	1.18
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	8	1.18
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	9	1.18
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	10	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	1	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	2	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	3	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	4	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	5	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	6	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	7	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	8	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	9	1.18
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	10	1.18
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	1	1.17
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	1	1.17
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	5	1.16
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	2	1.16
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	4	1.16
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	5	1.16
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	7	1.16
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	5	1.16
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	3	1.14
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	7	1.14
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	9	1.14
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	3	1.14
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	7	1.14
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	9	1.14
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	4	1.12
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	8	1.12
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	4	1.12
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	8	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	10	1.1
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	7	1.1
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	10	1.1
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	7	1.1
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	10	1.03
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	10	1.03
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	4	1.0
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	4	1.0
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	6	0.86
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	6	0.86
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	3	0.78
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	3	0.78
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	9	0.77
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	9	0.77
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	8	0.76
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	8	0.76
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	6	0.69
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	7	0.69
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	6	0.69
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	7	0.69
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	2	0.68
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	2	0.68
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	5	0.67
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	8	0.67
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	9	0.67
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	2	0.67
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	5	0.67
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	8	0.67
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	9	0.67
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	2	0.67
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	1	0.66
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	3	0.66
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	4	0.66
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	1	0.66
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	3	0.66
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	4	0.66
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	10	0.65
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	1	0.65
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	10	0.65
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	1	0.65
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	5	0.64
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	5	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,84)	1:10:A:C:H5	1:11:A:U:H5	1	0.5
(2,121)	1:10:A:C:H5	1:11:A:U:H5	1	0.5
(1,125)	1:10:A:C:H5	1:11:A:U:H5	1	0.5
(3,84)	1:10:A:C:H5	1:11:A:U:H5	6	0.48
(2,121)	1:10:A:C:H5	1:11:A:U:H5	6	0.48
(1,125)	1:10:A:C:H5	1:11:A:U:H5	6	0.48
(3,84)	1:10:A:C:H5	1:11:A:U:H5	2	0.47
(2,121)	1:10:A:C:H5	1:11:A:U:H5	2	0.47
(1,125)	1:10:A:C:H5	1:11:A:U:H5	2	0.47
(3,84)	1:10:A:C:H5	1:11:A:U:H5	3	0.45
(3,84)	1:10:A:C:H5	1:11:A:U:H5	4	0.45
(3,84)	1:10:A:C:H5	1:11:A:U:H5	8	0.45
(3,84)	1:10:A:C:H5	1:11:A:U:H5	9	0.45
(2,121)	1:10:A:C:H5	1:11:A:U:H5	3	0.45
(2,121)	1:10:A:C:H5	1:11:A:U:H5	4	0.45
(2,121)	1:10:A:C:H5	1:11:A:U:H5	8	0.45
(2,121)	1:10:A:C:H5	1:11:A:U:H5	9	0.45
(1,125)	1:10:A:C:H5	1:11:A:U:H5	3	0.45
(1,125)	1:10:A:C:H5	1:11:A:U:H5	4	0.45
(1,125)	1:10:A:C:H5	1:11:A:U:H5	8	0.45
(1,125)	1:10:A:C:H5	1:11:A:U:H5	9	0.45
(3,84)	1:10:A:C:H5	1:11:A:U:H5	5	0.44
(2,121)	1:10:A:C:H5	1:11:A:U:H5	5	0.44
(1,125)	1:10:A:C:H5	1:11:A:U:H5	5	0.44
(3,84)	1:10:A:C:H5	1:11:A:U:H5	7	0.41
(3,84)	1:10:A:C:H5	1:11:A:U:H5	10	0.41
(2,121)	1:10:A:C:H5	1:11:A:U:H5	7	0.41
(2,121)	1:10:A:C:H5	1:11:A:U:H5	10	0.41
(1,125)	1:10:A:C:H5	1:11:A:U:H5	7	0.41
(1,125)	1:10:A:C:H5	1:11:A:U:H5	10	0.41
(4,33)	1:6:A:C:O2	1:9:A:G:N2	7	0.21
(4,32)	1:6:A:C:H42	1:9:A:G:O6	7	0.21
(4,32)	1:6:A:C:H42	1:9:A:G:O6	10	0.2
(4,32)	1:6:A:C:H42	1:9:A:G:O6	8	0.19
(4,33)	1:6:A:C:O2	1:9:A:G:N2	4	0.18
(4,32)	1:6:A:C:H42	1:9:A:G:O6	3	0.18
(4,32)	1:6:A:C:H42	1:9:A:G:O6	4	0.18
(4,32)	1:6:A:C:H42	1:9:A:G:O6	5	0.18
(4,19)	1:4:A:A:N1	1:11:A:U:N3	7	0.18
(4,33)	1:6:A:C:O2	1:9:A:G:N2	2	0.17
(4,33)	1:6:A:C:O2	1:9:A:G:N2	3	0.17
(4,33)	1:6:A:C:O2	1:9:A:G:N2	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,33)	1:6:A:C:O2	1:9:A:G:N2	6	0.17
(4,32)	1:6:A:C:H42	1:9:A:G:O6	1	0.17
(4,32)	1:6:A:C:H42	1:9:A:G:O6	2	0.17
(4,32)	1:6:A:C:H42	1:9:A:G:O6	6	0.17
(4,32)	1:6:A:C:H42	1:9:A:G:O6	9	0.17
(4,20)	1:4:A:A:N1	1:11:A:U:H3	7	0.17
(4,20)	1:4:A:A:N1	1:11:A:U:H3	8	0.17
(4,19)	1:4:A:A:N1	1:11:A:U:N3	4	0.17
(4,19)	1:4:A:A:N1	1:11:A:U:N3	8	0.17
(4,33)	1:6:A:C:O2	1:9:A:G:N2	1	0.16
(4,33)	1:6:A:C:O2	1:9:A:G:N2	10	0.16
(4,20)	1:4:A:A:N1	1:11:A:U:H3	4	0.16
(4,20)	1:4:A:A:N1	1:11:A:U:H3	9	0.16
(4,19)	1:4:A:A:N1	1:11:A:U:N3	9	0.16
(4,19)	1:4:A:A:N1	1:11:A:U:N3	10	0.16
(4,33)	1:6:A:C:O2	1:9:A:G:N2	8	0.15
(4,20)	1:4:A:A:N1	1:11:A:U:H3	10	0.15
(4,19)	1:4:A:A:N1	1:11:A:U:N3	2	0.15
(4,19)	1:4:A:A:N1	1:11:A:U:N3	3	0.15
(4,20)	1:4:A:A:N1	1:11:A:U:H3	1	0.14
(4,20)	1:4:A:A:N1	1:11:A:U:H3	2	0.14
(4,19)	1:4:A:A:N1	1:11:A:U:N3	1	0.14
(4,19)	1:4:A:A:N1	1:11:A:U:N3	5	0.14
(4,19)	1:4:A:A:N1	1:11:A:U:N3	6	0.14
(4,33)	1:6:A:C:O2	1:9:A:G:N2	9	0.13
(4,20)	1:4:A:A:N1	1:11:A:U:H3	3	0.13
(4,20)	1:4:A:A:N1	1:11:A:U:H3	5	0.13
(4,20)	1:4:A:A:N1	1:11:A:U:H3	6	0.13
(4,31)	1:6:A:C:N4	1:9:A:G:O6	7	0.12
(4,26)	1:10:A:C:H42	1:5:A:G:O6	10	0.11
(4,31)	1:6:A:C:N4	1:9:A:G:O6	10	0.1
(4,26)	1:10:A:C:H42	1:5:A:G:O6	5	0.1
(4,26)	1:10:A:C:H42	1:5:A:G:O6	7	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found