



Full wwPDB NMR Structure Validation Report ⓘ

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PDB ID : 9SY4 / pdb_00009sy4
BMRB ID : 34796
Title : NMR structure determination of a dynamic and thermodynamically stable CUUG RNA tetraloop without restrained loop base pair
Authors : Oxenfarth, A.; Kuemmerer, F.; Leopold, D.; Bottaro, S.; Schnieders, R.; Pinter, G.; Jonker, H.R.A.; Fuertig, B.; Richter, C.; Blackledge, M.; Lindorff-Larsen, K.; Schwalbe, H.
Deposited on : 2025-10-10

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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 : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

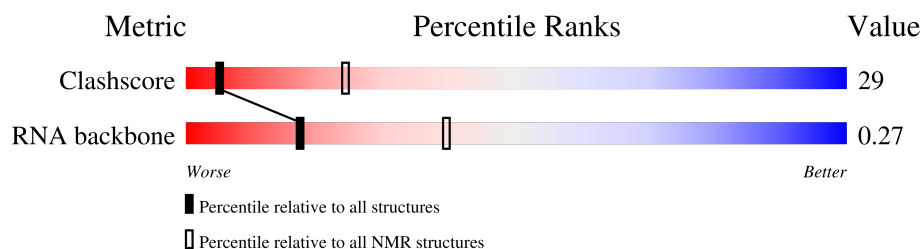
1 Overall quality at a glance

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	229148	14424
RNA backbone	8273	777

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 [i](#)

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

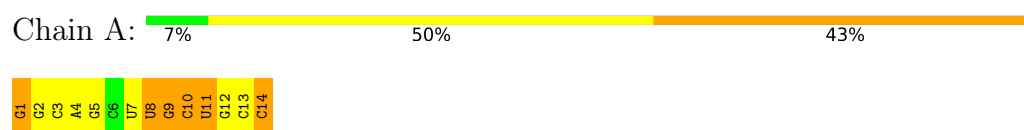


4.2 Scores per residue for each member of the ensemble

Colouring as in section [4.1](#) above.

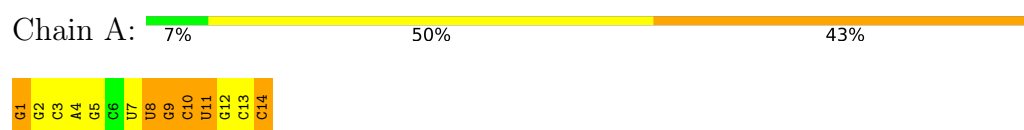
4.2.1 Score per residue for model 1

- Molecule 1: RNA hairpin with CUUG tetraloop



4.2.2 Score per residue for model 2

- Molecule 1: RNA hairpin with CUUG tetraloop



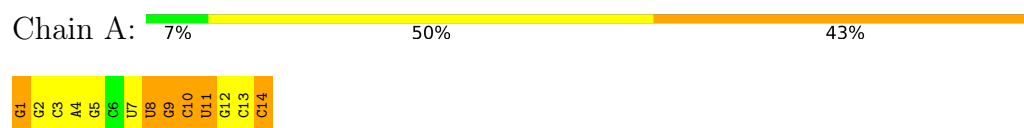
4.2.3 Score per residue for model 3

- Molecule 1: RNA hairpin with CUUG tetraloop



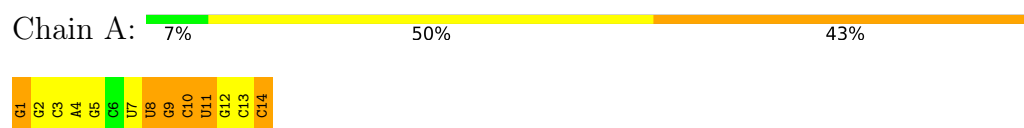
4.2.4 Score per residue for model 4

- Molecule 1: RNA hairpin with CUUG tetraloop



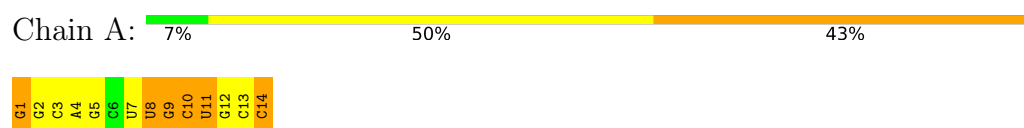
4.2.5 Score per residue for model 5

- Molecule 1: RNA hairpin with CUUG tetraloop



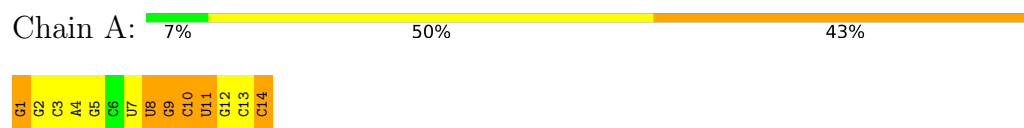
4.2.6 Score per residue for model 6

- Molecule 1: RNA hairpin with CUUG tetraloop



4.2.7 Score per residue for model 7

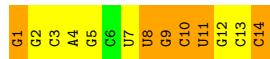
- Molecule 1: RNA hairpin with CUUG tetraloop



4.2.8 Score per residue for model 8

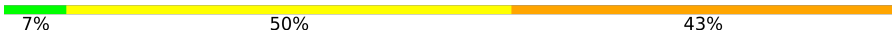
- Molecule 1: RNA hairpin with CUUG tetraloop

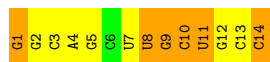
Chain A:  7% 50% 43%



4.2.9 Score per residue for model 9

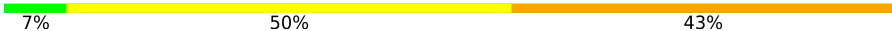
- Molecule 1: RNA hairpin with CUUG tetraloop

Chain A:  7% 50% 43%



4.2.10 Score per residue for model 10

- Molecule 1: RNA hairpin with CUUG tetraloop

Chain A:  7% 50% 43%



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	0.39±0.00	1±0/331 (0.3± 0.0%)	0.58±0.01	0±0/512 (0.0± 0.0%)
All	All	0.39	10/3310 (0.3%)	0.58	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	5.70	1.59	1.48	8	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	13±1
All	All	2980	1530	1520	131

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 29.

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'	0.77	1.79	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'	0.75	1.81	8	10
1:A:13:C:H2'	1:A:14:C:C6	0.68	2.24	8	10
1:A:14:C:H6	1:A:14:C:O5'	0.68	1.71	4	10
1:A:3:C:H2'	1:A:4:A:C8	0.66	2.25	8	10
1:A:11:U:H6	1:A:11:U:O5'	0.63	1.75	2	10
1:A:10:C:O2	1:A:10:C:H2'	0.63	1.94	10	10
1:A:13:C:H2'	1:A:14:C:C5	0.58	2.33	1	10
1:A:3:C:H2'	1:A:4:A:N7	0.56	2.15	8	3
1:A:8:U:H1'	1:A:9:G:C8	0.56	2.35	1	10
1:A:8:U:H4'	1:A:9:G:OP1	0.52	2.05	5	10
1:A:14:C:O5'	1:A:14:C:C6	0.51	2.63	5	5
1:A:14:C:C6	1:A:14:C:O5'	0.50	2.61	8	5
1:A:10:C:O2	1:A:10:C:C2'	0.50	2.59	1	10
1:A:3:C:O5'	1:A:3:C:H6	0.48	1.91	9	3
1:A:1:G:O5'	1:A:1:G:H8	0.47	1.92	4	1
1:A:8:U:H1'	1:A:9:G:O4'	0.43	2.14	10	3
1:A:4:A:O5'	1:A:4:A:H8	0.41	1.99	8	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%)	6±0 (46±0%)	2±0 (15±0%)	0.32±0.00
All	All	130/140 (93%)	60 (46%)	20 (15%)	0.32

The overall RNA backbone suiteness is 0.27.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
1	A	5	G	10

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

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)	2.7	0.2
0.2-0.5 (Medium)	3.8	0.5
>0.5 (Large)	466.5	9.02

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 ⓘ

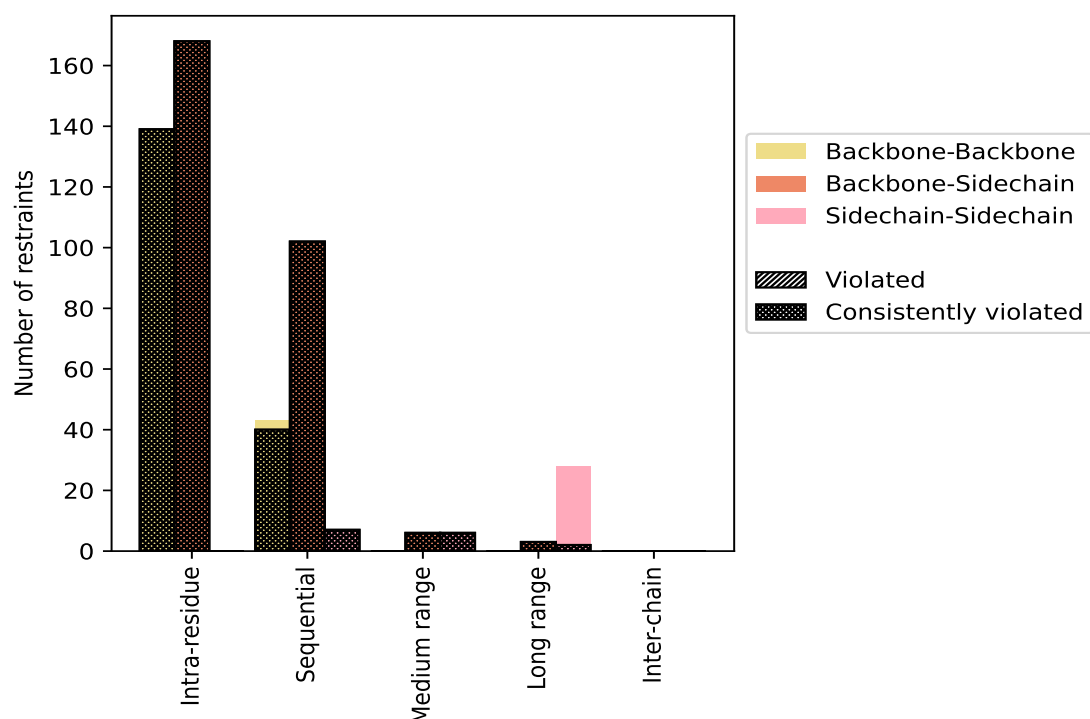
9.1 Summary of distance violations ⓘ

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	8	23.5	1.6	8	23.5	1.6
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	502	100.0	473	94.2	94.2	473	94.2	94.2
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	15	36.6	3.0	15	36.6	3.0

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

9.1.1 Bar chart : Distribution of distance restraints and violations [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

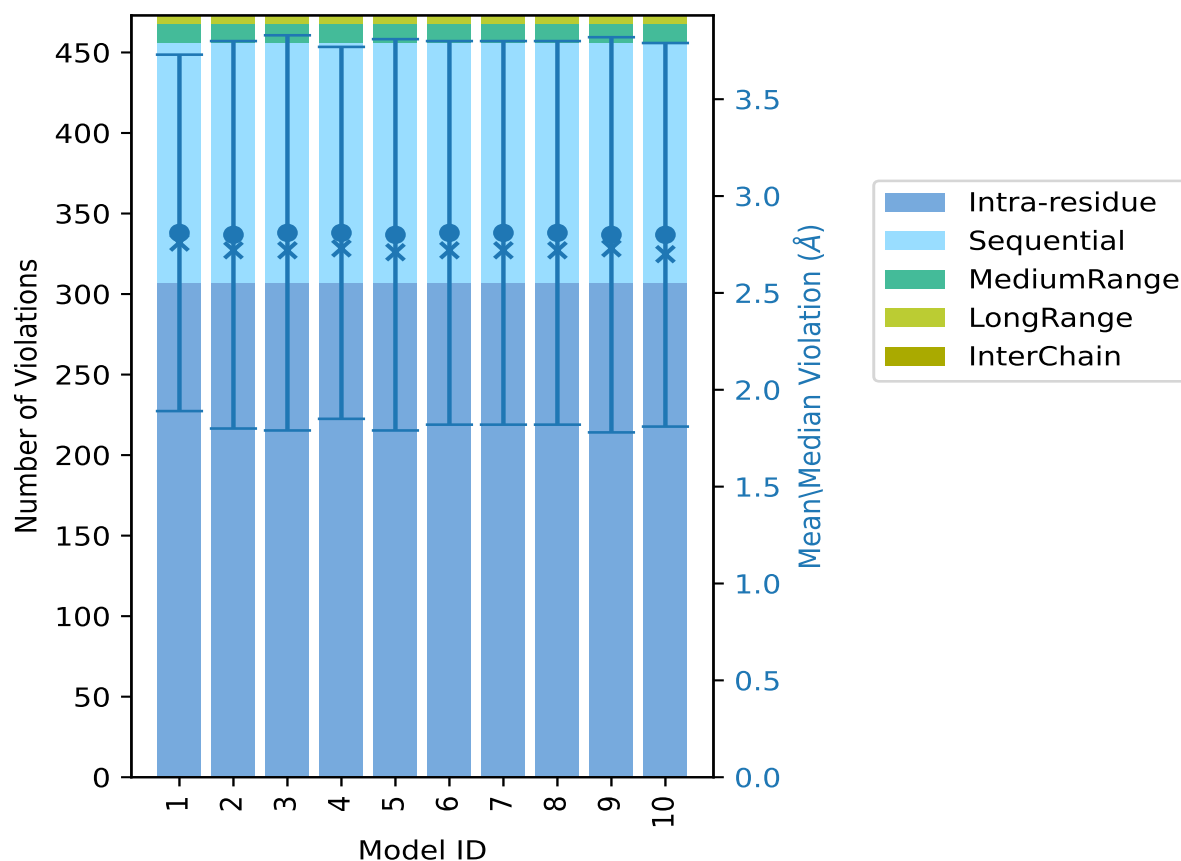
9.2 Distance violation statistics for each model [i](#)

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	12	5	0	473	2.81	6.79	0.92	2.76
2	307	149	12	5	0	473	2.8	8.82	1.0	2.72
3	307	149	12	5	0	473	2.81	8.97	1.02	2.72
4	307	149	12	5	0	473	2.81	7.88	0.96	2.73
5	307	149	12	5	0	473	2.8	8.8	1.01	2.71
6	307	149	12	5	0	473	2.81	8.63	0.99	2.72
7	307	149	12	5	0	473	2.81	8.61	0.99	2.72
8	307	149	12	5	0	473	2.81	8.6	0.99	2.72
9	307	149	12	5	0	473	2.8	9.02	1.02	2.73
10	307	149	12	5	0	473	2.8	8.36	0.99	2.7

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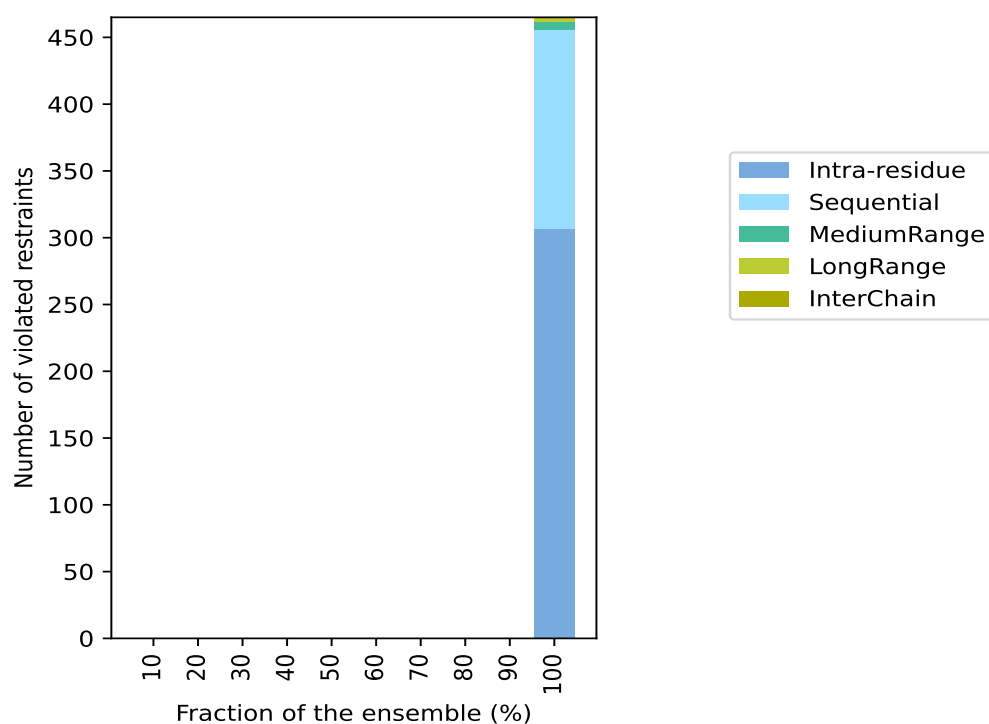
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	0	0	4	40.0
0	0	0	0	0	0	5	50.0
0	0	0	0	0	0	6	60.0
0	0	0	0	0	0	7	70.0
0	0	0	0	0	0	8	80.0
0	0	0	0	0	0	9	90.0
307	149	6	3	0	465	10	100.0

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 ⓘ

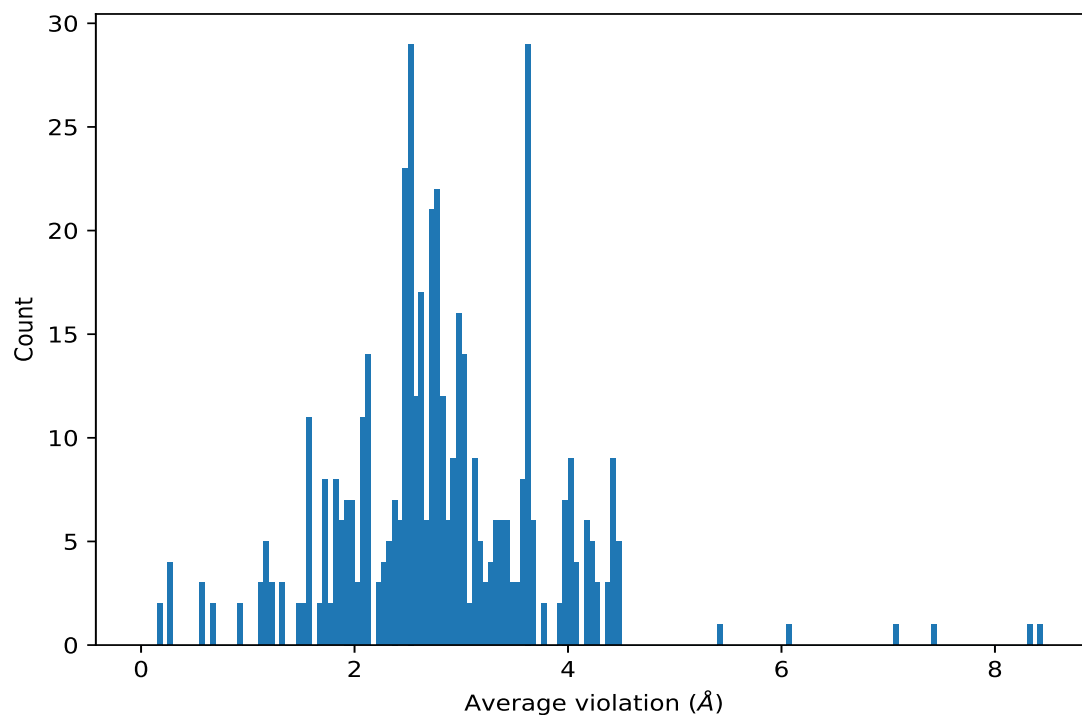


9.4 Most violated distance restraints in the ensemble ⓘ

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)
(4,32)	1:6:A:C:H42	1:9:A:G:O6	10	8.45	0.63	8.62
(4,31)	1:6:A:C:N4	1:9:A:G:O6	10	8.3	0.62	8.46
(4,30)	1:6:A:C:N3	1:9:A:G:H1	10	7.43	0.5	7.6
(4,34)	1:6:A:C:O2	1:9:A:G:H22	10	7.06	0.33	7.16
(4,29)	1:6:A:C:N3	1:9:A:G:N1	10	6.07	0.49	6.24
(4,33)	1:6:A:C:O2	1:9:A:G:N2	10	5.42	0.32	5.52
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	10	4.49	0.03	4.5
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	10	4.49	0.03	4.5
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	10	4.49	0.03	4.5
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	10	4.47	0.08	4.5
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	10	4.47	0.08	4.5
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	10	4.44	0.04	4.44
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	10	4.44	0.04	4.44
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	10	4.44	0.04	4.44
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	10	4.44	0.09	4.47

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	10	4.44	0.09	4.47
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	10	4.44	0.09	4.47
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	10	4.4	0.04	4.39
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	10	4.4	0.04	4.39
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	10	4.4	0.04	4.39
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.39	0.03	4.39
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.39	0.03	4.39
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	10	4.39	0.03	4.39
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	10	4.26	0.07	4.27
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	10	4.26	0.07	4.27
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	10	4.26	0.07	4.27
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	10	4.21	0.09	4.24
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	10	4.21	0.09	4.24
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	10	4.2	0.08	4.19
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	10	4.2	0.08	4.19
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	10	4.2	0.08	4.19
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	10	4.18	0.1	4.16
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	10	4.18	0.1	4.16
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	10	4.18	0.1	4.16
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.17	0.01	4.17
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.17	0.01	4.17
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.17	0.01	4.17
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	10	4.06	0.06	4.05
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	10	4.06	0.06	4.05
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	10	4.06	0.03	4.07
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	10	4.06	0.03	4.07
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.0	0.0	4.0
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.0	0.0	4.0
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.0	0.0	4.0
(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
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	10	4.0	0.02	4.0
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	10	4.0	0.02	4.0
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	10	4.0	0.02	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
(1,177)	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
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	10	3.95	0.02	3.95

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.91	0.06	3.92
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.91	0.06	3.92
(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
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.68	0.01	3.68
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.68	0.01	3.68
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.68	0.01	3.68
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.66	0.0	3.66
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.66	0.0	3.66
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.66	0.0	3.66
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	10	3.65	0.02	3.64
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	10	3.65	0.02	3.64
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	10	3.65	0.02	3.64
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.65	0.0	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.65	0.0	3.65
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	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
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	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	3.63	0.01	3.62
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.63	0.01	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	10	3.63	0.01	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62	0.01	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62	0.01	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.62	0.01	3.62
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62	0.01	3.62
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62	0.01	3.62
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	10	3.62	0.01	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62	0.01	3.61
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62	0.01	3.61
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62	0.01	3.61
(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
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.61	0.02	3.62
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.61	0.02	3.62
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	10	3.61	0.02	3.62
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	10	3.59	0.08	3.58
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	10	3.59	0.08	3.58
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	10	3.59	0.08	3.58

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	10	3.58	0.06	3.58
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	10	3.58	0.06	3.58
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	10	3.57	0.04	3.56
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	10	3.57	0.04	3.56
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	10	3.57	0.04	3.56
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	10	3.51	0.07	3.5
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	10	3.51	0.07	3.5
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	10	3.51	0.07	3.5
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	10	3.46	0.03	3.47
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	10	3.46	0.03	3.47
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	10	3.46	0.03	3.47
(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
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	10	3.41	0.21	3.36
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	10	3.41	0.21	3.36
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	10	3.41	0.21	3.36
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	10	3.4	0.11	3.39
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	10	3.4	0.11	3.39
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	10	3.4	0.11	3.39
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	10	3.35	0.02	3.34
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	10	3.35	0.02	3.34
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	10	3.35	0.02	3.34
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	10	3.34	0.27	3.4
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	10	3.34	0.27	3.4
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.33	0.02	3.34
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.33	0.02	3.34
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.33	0.02	3.34
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	10	3.31	0.42	3.54
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	10	3.29	0.01	3.29
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	10	3.29	0.01	3.29
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.28	0.02	3.28
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.28	0.02	3.28
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	10	3.24	0.18	3.28
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	10	3.24	0.18	3.28
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	10	3.24	0.18	3.28
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	10	3.17	0.05	3.16
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	10	3.17	0.05	3.16
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	10	3.17	0.05	3.16
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	10	3.16	0.12	3.2
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	10	3.16	0.12	3.2
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	10	3.14	0.12	3.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	10	3.14	0.12	3.14
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	10	3.14	0.12	3.14
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	10	3.12	0.03	3.13
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	10	3.12	0.03	3.13
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	10	3.12	0.03	3.13
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	10	3.1	0.12	3.12
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	10	3.1	0.12	3.12
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	10	3.1	0.12	3.12
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	10	3.08	0.03	3.08
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	10	3.08	0.03	3.08
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.05	0.04	3.06
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.05	0.04	3.06
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.05	0.04	3.06
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	10	3.04	0.05	3.05
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	10	3.04	0.05	3.05
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	10	3.04	0.05	3.05
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	10	3.04	0.07	3.02
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	10	3.04	0.07	3.02
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	10	3.04	0.07	3.02
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	10	3.02	0.01	3.03
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	10	3.02	0.01	3.03
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	10	3.02	0.01	3.03
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	10	3.01	0.09	3.0
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	10	3.01	0.09	3.0
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	10	2.97	0.02	2.96
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	10	2.97	0.02	2.96
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	10	2.97	0.02	2.96
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	10	2.97	0.05	2.96
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	10	2.97	0.05	2.96
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	10	2.97	0.05	2.96
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	10	2.96	0.02	2.96
(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
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	10	2.95	0.09	2.9
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	10	2.95	0.09	2.9
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	10	2.95	0.09	2.9
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.95	0.04	2.94
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.95	0.04	2.94
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.95	0.04	2.94
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.93	0.03	2.94
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	10	2.93	0.15	2.97

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.93	0.03	2.94
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	10	2.93	0.15	2.97
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.93	0.03	2.94
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	10	2.93	0.15	2.97
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	10	2.93	0.01	2.93
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	10	2.93	0.01	2.93
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	10	2.93	0.01	2.93
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.9	0.0	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.9	0.0	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.9	0.0	2.9
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	10	2.9	0.11	2.94
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	10	2.9	0.11	2.94
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	10	2.9	0.11	2.94
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	10	2.84	0.01	2.84
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	10	2.84	0.01	2.84
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	10	2.84	0.01	2.84
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	10	2.84	0.02	2.84
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	10	2.84	0.02	2.84
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	10	2.84	0.02	2.84
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.83	0.02	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.83	0.02	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.83	0.02	2.83
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	10	2.82	0.07	2.84
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	10	2.82	0.07	2.84
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	10	2.82	0.07	2.84
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	10	2.8	0.07	2.78
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	10	2.8	0.07	2.78
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	10	2.8	0.07	2.78
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	10	2.8	0.01	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	10	2.8	0.01	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	10	2.8	0.01	2.8
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	10	2.78	0.09	2.8
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	10	2.78	0.09	2.8
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	10	2.78	0.09	2.8
(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
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.77	0.01	2.77
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.77	0.01	2.77
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.77	0.01	2.77
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	10	2.76	0.06	2.76
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	10	2.76	0.06	2.76

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	10	2.76	0.06	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
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	10	2.74	0.04	2.74
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	10	2.74	0.04	2.74
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	10	2.74	0.04	2.74
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	10	2.72	0.01	2.72
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	10	2.72	0.01	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	10	2.72	0.0	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	10	2.72	0.0	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	10	2.72	0.0	2.72
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72	0.01	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	10	2.72	0.01	2.72
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72	0.01	2.71
(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
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	10	2.71	0.01	2.71
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	10	2.71	0.01	2.71
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	10	2.71	0.01	2.71
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	10	2.7	0.02	2.7
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.7	0.03	2.71
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	10	2.7	0.02	2.7
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.7	0.03	2.71
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	10	2.7	0.02	2.7
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	10	2.69	0.0	2.69
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	10	2.69	0.0	2.69
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	10	2.69	0.0	2.69
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	10	2.66	0.04	2.66
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	10	2.66	0.04	2.66
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	10	2.66	0.04	2.66
(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
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	10	2.64	0.1	2.66
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	10	2.64	0.1	2.66
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	10	2.64	0.1	2.66
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	10	2.64	0.1	2.66
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	10	2.64	0.1	2.66
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	10	2.64	0.1	2.66
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	10	2.62	0.02	2.62

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	10	2.62	0.02	2.62
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	10	2.62	0.02	2.62
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	10	2.61	0.2	2.7
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	10	2.61	0.2	2.7
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	10	2.61	0.2	2.7
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.6	0.02	2.61
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.6	0.02	2.61
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.59	0.03	2.6
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.59	0.03	2.6
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.59	0.03	2.6
(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
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.56	0.01	2.56
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	10	2.56	0.01	2.56
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.56	0.01	2.56
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	10	2.56	0.09	2.54
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	10	2.56	0.09	2.54
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.56	0.01	2.55
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.56	0.01	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
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.55	0.01	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	10	2.55	0.0	2.55
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.55	0.01	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	10	2.55	0.0	2.55
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	10	2.55	0.01	2.55
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.54	0.0	2.54
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.54	0.0	2.54
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	10	2.54	0.03	2.53
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	10	2.54	0.03	2.53
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	10	2.54	0.03	2.53
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.53	0.01	2.54
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.53	0.01	2.54
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.53	0.02	2.54
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.53	0.02	2.54
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.53	0.02	2.54
(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
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	10	2.51	0.1	2.54
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	10	2.51	0.1	2.54
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	10	2.51	0.1	2.54

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	10	2.51	0.03	2.51
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	10	2.51	0.03	2.51
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	10	2.51	0.03	2.51
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	10	2.5	0.12	2.47
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	10	2.5	0.12	2.47
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	10	2.5	0.12	2.47
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.49	0.01	2.49
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.49	0.01	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.49	0.01	2.49
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.49	0.01	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	10	2.49	0.01	2.49
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	10	2.46	0.16	2.4
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	10	2.46	0.16	2.4
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	10	2.46	0.16	2.4
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	10	2.46	0.04	2.46
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	10	2.46	0.04	2.46
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	10	2.46	0.04	2.46
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	10	2.46	0.1	2.51
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	10	2.46	0.1	2.51
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	10	2.46	0.1	2.51
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	10	2.45	0.03	2.46
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	10	2.45	0.03	2.46
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	10	2.45	0.03	2.46
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	10	2.45	0.06	2.44
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	10	2.45	0.06	2.44
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	10	2.45	0.06	2.44
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	10	2.45	0.01	2.45
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	10	2.45	0.01	2.45
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	10	2.45	0.01	2.45
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	10	2.44	0.02	2.44
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	10	2.44	0.02	2.44
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	10	2.44	0.02	2.44
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.44	0.11	2.42
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.44	0.11	2.42
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.44	0.11	2.42
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	10	2.39	0.05	2.4
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	10	2.39	0.05	2.4
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	10	2.39	0.05	2.4
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	10	2.37	0.04	2.37
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	10	2.37	0.04	2.37
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	10	2.37	0.04	2.37
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	10	2.36	0.05	2.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	10	2.34	0.03	2.34
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	10	2.34	0.12	2.26
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	10	2.34	0.12	2.26
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	10	2.34	0.12	2.26
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	10	2.33	0.13	2.3
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	10	2.27	0.07	2.28
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	10	2.27	0.07	2.28
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	10	2.27	0.07	2.28
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	10	2.26	0.01	2.26
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	10	2.24	0.04	2.24
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	10	2.24	0.04	2.24
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	10	2.2	0.12	2.22
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	10	2.14	0.01	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	10	2.14	0.01	2.14
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	10	2.14	0.01	2.14
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	10	2.12	0.01	2.12
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	10	2.12	0.01	2.12
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.1	0.13	2.1
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.1	0.13	2.1
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.1	0.13	2.1
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	10	2.1	0.33	2.01
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	10	2.1	0.33	2.01
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	10	2.1	0.33	2.01
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	10	2.1	0.33	2.01
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	10	2.1	0.33	2.01
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	10	2.1	0.33	2.01
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	10	2.09	0.17	2.11
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	10	2.09	0.17	2.11
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.08	0.02	2.08
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.08	0.02	2.08
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.08	0.02	2.08
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	10	2.06	0.07	2.09
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	10	2.06	0.07	2.09
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	10	2.06	0.07	2.09
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	10	2.06	0.02	2.06
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	10	2.06	0.02	2.06
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	10	2.06	0.02	2.06
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	10	2.05	0.02	2.06
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	10	2.05	0.02	2.06
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	10	2.05	0.02	2.06
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	10	1.98	0.05	1.98
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.98	0.01	1.98

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	10	1.98	0.05	1.98
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.98	0.01	1.98
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.98	0.01	1.98
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	10	1.97	0.02	1.97
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	10	1.97	0.02	1.97
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	10	1.94	0.03	1.94
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	10	1.94	0.03	1.94
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	10	1.94	0.03	1.94
(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
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	10	1.91	0.04	1.9
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	10	1.91	0.04	1.9
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	10	1.89	0.09	1.88
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	10	1.89	0.09	1.88
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	10	1.89	0.09	1.88
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.85	0.03	1.85
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.85	0.03	1.85
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.85	0.03	1.85
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.84	0.02	1.83
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.84	0.02	1.83
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.84	0.02	1.83
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.82	0.07	1.84
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.82	0.07	1.84
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	10	1.8	0.08	1.81
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	10	1.8	0.08	1.81
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	10	1.8	0.03	1.8
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.75	0.02	1.76
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.75	0.02	1.76
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.74	0.12	1.7
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.74	0.12	1.7
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.74	0.12	1.7
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.74	0.07	1.75
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.74	0.07	1.75
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.74	0.07	1.75
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	10	1.72	0.02	1.7
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	10	1.72	0.02	1.7
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.66	0.02	1.66
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.66	0.02	1.66
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.59	0.02	1.59
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.59	0.02	1.59
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	10	1.59	0.03	1.6
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	10	1.59	0.03	1.6

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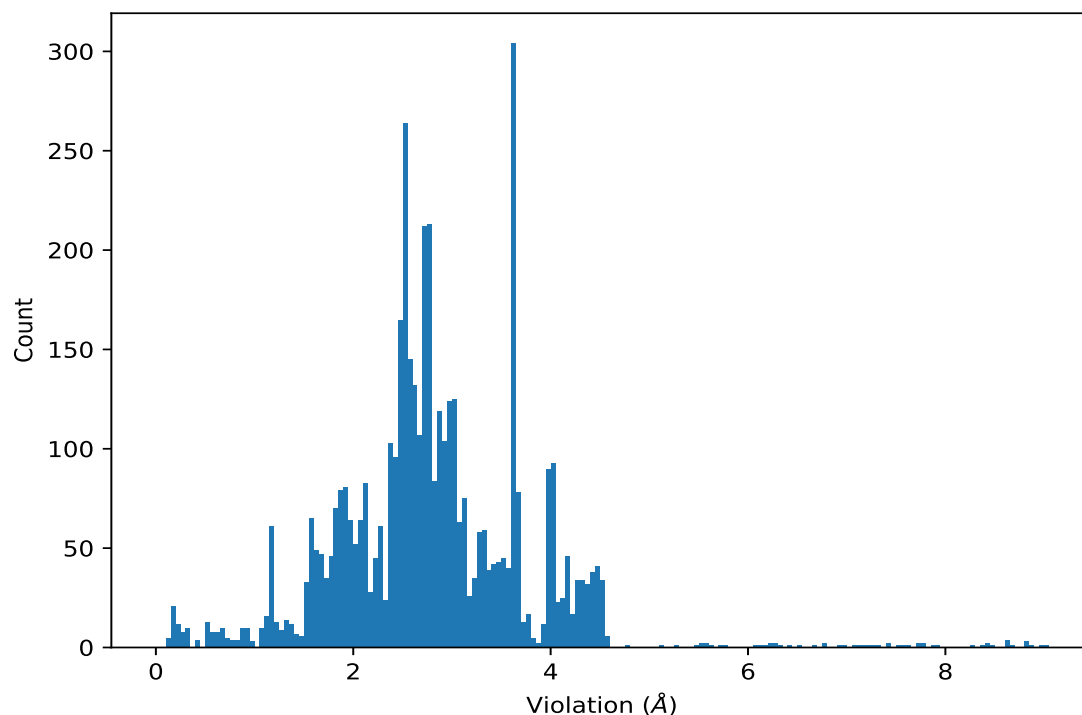
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	10	1.57	0.14	1.64
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	10	1.57	0.14	1.64
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.56	0.01	1.56
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.56	0.01	1.56
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.55	0.02	1.56
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.55	0.02	1.56
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.55	0.02	1.56
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.51	0.01	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.51	0.01	1.52
(1,175)	1:14:A:C:H5	1:13:A:C:H5	10	1.49	0.13	1.46
(2,170)	1:14:A:C:H5	1:13:A:C:H5	10	1.49	0.13	1.46
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	10	1.34	0.02	1.34
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	10	1.34	0.17	1.3
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	10	1.34	0.17	1.3
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	10	1.22	0.19	1.17
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	10	1.22	0.19	1.17
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	10	1.22	0.19	1.17
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	10	1.19	0.03	1.17
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	10	1.19	0.03	1.17
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.19	0.01	1.19
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.19	0.01	1.19
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	10	1.19	0.02	1.19
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	10	1.14	0.03	1.13
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.12	0.12	1.15
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.12	0.12	1.15
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	10	0.91	0.03	0.9
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	10	0.91	0.03	0.9
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	10	0.67	0.11	0.66
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	10	0.67	0.11	0.66
(1,125)	1:10:A:C:H5	1:11:A:U:H5	10	0.6	0.08	0.6
(2,121)	1:10:A:C:H5	1:11:A:U:H5	10	0.6	0.08	0.6
(3,84)	1:10:A:C:H5	1:11:A:U:H5	10	0.6	0.08	0.6
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	10	0.26	0.08	0.23
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	10	0.26	0.08	0.23
(1,135)	1:11:A:U:H5	1:10:A:C:H6	10	0.26	0.05	0.27
(2,130)	1:11:A:U:H5	1:10:A:C:H6	10	0.26	0.05	0.27
(4,20)	1:4:A:A:N1	1:11:A:U:H3	10	0.19	0.04	0.18
(4,26)	1:10:A:C:H42	1:5:A:G:O6	10	0.17	0.02	0.18

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



9.5.2 Table : All distance violations [i](#)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,32)	1:6:A:C:H42	1:9:A:G:O6	9	9.02
(4,32)	1:6:A:C:H42	1:9:A:G:O6	3	8.97
(4,31)	1:6:A:C:N4	1:9:A:G:O6	9	8.85
(4,32)	1:6:A:C:H42	1:9:A:G:O6	2	8.82
(4,32)	1:6:A:C:H42	1:9:A:G:O6	5	8.8
(4,31)	1:6:A:C:N4	1:9:A:G:O6	3	8.8
(4,31)	1:6:A:C:N4	1:9:A:G:O6	2	8.65
(4,31)	1:6:A:C:N4	1:9:A:G:O6	5	8.64
(4,32)	1:6:A:C:H42	1:9:A:G:O6	6	8.63
(4,32)	1:6:A:C:H42	1:9:A:G:O6	7	8.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,32)	1:6:A:C:H42	1:9:A:G:O6	8	8.6
(4,31)	1:6:A:C:N4	1:9:A:G:O6	6	8.48
(4,31)	1:6:A:C:N4	1:9:A:G:O6	7	8.45
(4,31)	1:6:A:C:N4	1:9:A:G:O6	8	8.42
(4,32)	1:6:A:C:H42	1:9:A:G:O6	10	8.36
(4,31)	1:6:A:C:N4	1:9:A:G:O6	10	8.26
(4,30)	1:6:A:C:N3	1:9:A:G:H1	9	7.92
(4,32)	1:6:A:C:H42	1:9:A:G:O6	4	7.88
(4,30)	1:6:A:C:N3	1:9:A:G:H1	3	7.76
(4,31)	1:6:A:C:N4	1:9:A:G:O6	4	7.75
(4,30)	1:6:A:C:N3	1:9:A:G:H1	5	7.73
(4,30)	1:6:A:C:N3	1:9:A:G:H1	2	7.71
(4,30)	1:6:A:C:N3	1:9:A:G:H1	6	7.64
(4,30)	1:6:A:C:N3	1:9:A:G:H1	10	7.56
(4,30)	1:6:A:C:N3	1:9:A:G:H1	7	7.51
(4,30)	1:6:A:C:N3	1:9:A:G:H1	8	7.44
(4,34)	1:6:A:C:O2	1:9:A:G:H22	9	7.4
(4,34)	1:6:A:C:O2	1:9:A:G:H22	10	7.33
(4,34)	1:6:A:C:O2	1:9:A:G:H22	5	7.27
(4,34)	1:6:A:C:O2	1:9:A:G:H22	6	7.24
(4,34)	1:6:A:C:O2	1:9:A:G:H22	2	7.19
(4,34)	1:6:A:C:O2	1:9:A:G:H22	3	7.14
(4,34)	1:6:A:C:O2	1:9:A:G:H22	7	7.06
(4,30)	1:6:A:C:N3	1:9:A:G:H1	4	6.96
(4,34)	1:6:A:C:O2	1:9:A:G:H22	8	6.94
(4,32)	1:6:A:C:H42	1:9:A:G:O6	1	6.79
(4,34)	1:6:A:C:O2	1:9:A:G:H22	4	6.75
(4,31)	1:6:A:C:N4	1:9:A:G:O6	1	6.66
(4,29)	1:6:A:C:N3	1:9:A:G:N1	9	6.55
(4,29)	1:6:A:C:N3	1:9:A:G:N1	3	6.43
(4,29)	1:6:A:C:N3	1:9:A:G:N1	5	6.33
(4,29)	1:6:A:C:N3	1:9:A:G:N1	2	6.29
(4,29)	1:6:A:C:N3	1:9:A:G:N1	6	6.26
(4,34)	1:6:A:C:O2	1:9:A:G:H22	1	6.24
(4,29)	1:6:A:C:N3	1:9:A:G:N1	10	6.22
(4,29)	1:6:A:C:N3	1:9:A:G:N1	7	6.18
(4,30)	1:6:A:C:N3	1:9:A:G:H1	1	6.11
(4,29)	1:6:A:C:N3	1:9:A:G:N1	8	6.07
(4,33)	1:6:A:C:O2	1:9:A:G:N2	9	5.76
(4,33)	1:6:A:C:O2	1:9:A:G:N2	10	5.71
(4,29)	1:6:A:C:N3	1:9:A:G:N1	4	5.63
(4,33)	1:6:A:C:O2	1:9:A:G:N2	5	5.6

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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	5.6
(4,33)	1:6:A:C:O2	1:9:A:G:N2	3	5.53
(4,33)	1:6:A:C:O2	1:9:A:G:N2	2	5.5
(4,33)	1:6:A:C:O2	1:9:A:G:N2	7	5.45
(4,33)	1:6:A:C:O2	1:9:A:G:N2	8	5.29
(4,33)	1:6:A:C:O2	1:9:A:G:N2	4	5.14
(4,29)	1:6:A:C:N3	1:9:A:G:N1	1	4.77
(4,33)	1:6:A:C:O2	1:9:A:G:N2	1	4.6
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	7	4.55
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	10	4.55
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	7	4.55
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	10	4.55
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	7	4.55
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	7	4.54
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	7	4.54
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	2	4.52
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	1	4.52
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	9	4.52
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	2	4.52
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	1	4.52
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	9	4.52
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	2	4.52
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	3	4.51
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	8	4.51
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	3	4.51
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	3	4.51
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	8	4.51
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	3	4.51
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	3	4.51
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	8	4.51
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	4	4.5
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	6	4.5
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	3	4.5
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	4	4.5
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	10	4.5
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	2	4.5
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	4	4.5
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	6	4.5
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	3	4.5
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	4	4.5
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	10	4.5
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	2	4.5

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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	4	4.5
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	6	4.5
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	3	4.5
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	4	4.5
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	10	4.5
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	1	4.49
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	10	4.49
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	1	4.49
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	10	4.49
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	1	4.49
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	10	4.49
(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	1	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	5	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	1	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	5	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	1	4.48
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	5	4.48
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	8	4.47
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	5	4.47
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	1	4.47
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	5	4.47
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	8	4.47
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	8	4.47
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	5	4.47
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	1	4.47
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	5	4.47
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	8	4.47
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	8	4.47
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	5	4.47
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	1	4.47
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	5	4.47
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	8	4.47
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	9	4.46
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	9	4.46
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	9	4.46
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	6	4.45
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	9	4.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	6	4.45
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	9	4.45
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	6	4.45
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	9	4.45
(3,92)	1:12:A:G:H2'	1:13:A:C:H6	10	4.44
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	4	4.44
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	6	4.44
(2,139)	1:12:A:G:H2'	1:13:A:C:H6	10	4.44
(2,18)	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	6	4.44
(1,144)	1:12:A:G:H2'	1:13:A:C:H6	10	4.44
(1,21)	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	6	4.44
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	2	4.43
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	7	4.43
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	3	4.43
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	2	4.43
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	7	4.43
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	3	4.43
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	2	4.43
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	7	4.43
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	3	4.43
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	3	4.42
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	3	4.42
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	3	4.42
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	3	4.41
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	2	4.41
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	2	4.41
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	4	4.41
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	3	4.41
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	2	4.41
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	2	4.41
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	4	4.41
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	3	4.41
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	2	4.41
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	2	4.41
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	4	4.41
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	1	4.4
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	6	4.4
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	1	4.4
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	6	4.4
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	1	4.4

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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	4.39
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	9	4.39
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	5	4.39
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	7	4.39
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	1	4.39
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	9	4.39
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	5	4.39
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	7	4.39
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	1	4.39
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	9	4.39
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	5	4.39
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	7	4.39
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	4	4.38
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	7	4.38
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	6	4.38
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	9	4.38
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	4	4.38
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	7	4.38
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	6	4.38
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	9	4.38
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	4	4.38
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	7	4.38
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	6	4.38
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	9	4.38
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	10	4.38
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	5	4.37
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	5	4.37
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	5	4.37
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	8	4.36
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	8	4.36
(3,102)	1:13:A:C:H2'	1:14:A:C:H6	10	4.35
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	6	4.35
(3,12)	1:2:A:G:H2'	1:3:A:C:H6	9	4.35
(2,154)	1:13:A:C:H2'	1:14:A:C:H6	10	4.35
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	6	4.35
(2,18)	1:2:A:G:H2'	1:3:A:C:H6	9	4.35
(1,159)	1:13:A:C:H2'	1:14:A:C:H6	10	4.35
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	6	4.35
(1,21)	1:2:A:G:H2'	1:3:A:C:H6	9	4.35
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	8	4.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:1:A:G:H2'	1:2:A:G:H8	8	4.33
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	3	4.33
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	8	4.33
(2,7)	1:1:A:G:H2'	1:2:A:G:H8	8	4.33
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	3	4.33
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	8	4.33
(1,7)	1:1:A:G:H2'	1:2:A:G:H8	8	4.33
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	1	4.32
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	3	4.32
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	2	4.32
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	1	4.32
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	3	4.32
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	2	4.32
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	1	4.32
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	3	4.32
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	2	4.32
(2,153)	1:13:A:C:H2'	1:14:A:C:H5	4	4.31
(1,158)	1:13:A:C:H2'	1:14:A:C:H5	4	4.31
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	5	4.3
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	6	4.3
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	5	4.3
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	6	4.3
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	5	4.3
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	6	4.3
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	3	4.29
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	8	4.29
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	9	4.29
(3,19)	1:3:A:C:H2'	1:4:A:A:H8	8	4.29
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	3	4.29
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	8	4.29
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	9	4.29
(2,28)	1:3:A:C:H2'	1:4:A:A:H8	8	4.29
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	3	4.29
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	8	4.29
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	9	4.29
(1,29)	1:3:A:C:H2'	1:4:A:A:H8	8	4.29
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	5	4.28
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	5	4.28
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	5	4.28
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	10	4.27
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	2	4.27
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	7	4.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	7	4.27
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	10	4.27
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	2	4.27
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	7	4.27
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	7	4.27
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	10	4.27
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	2	4.27
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	7	4.27
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	4	4.26
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	9	4.26
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	4	4.26
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	9	4.26
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	4	4.26
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	2	4.25
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	2	4.25
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	2	4.25
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	1	4.24
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	4	4.24
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	5	4.24
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	1	4.24
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	4	4.24
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	5	4.24
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	1	4.24
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	1	4.23
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	1	4.23
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	7	4.22
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	10	4.22
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	6	4.22
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	7	4.22
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	10	4.22
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	6	4.22
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	7	4.22
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	10	4.22
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	9	4.19
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	9	4.19
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	9	4.19
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	1	4.18
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	4	4.18
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	7	4.18
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	3	4.18
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	1	4.18
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	4	4.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	7	4.18
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	3	4.18
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	1	4.18
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	4	4.18
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	7	4.18
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	3	4.17
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	5	4.17
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	6	4.17
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	8	4.17
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	9	4.17
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.17
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	8	4.17
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	3	4.17
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	5	4.17
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	6	4.17
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	8	4.17
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	9	4.17
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.17
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	8	4.17
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	3	4.17
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	5	4.17
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	6	4.17
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	8	4.17
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	9	4.17
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	10	4.17
(3,79)	1:9:A:G:H5''	1:9:A:G:H3'	2	4.16
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	4	4.16
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	8	4.16
(2,108)	1:9:A:G:H5''	1:9:A:G:H3'	2	4.16
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	4	4.16
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	8	4.16
(1,112)	1:9:A:G:H5''	1:9:A:G:H3'	2	4.16
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	4	4.16
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	8	4.16
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	2	4.15
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	2	4.15
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	2	4.15
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	6	4.14
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	2	4.14
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	5	4.14
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	6	4.14
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	2	4.14

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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	5	4.14
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	6	4.14
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	1	4.13
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	7	4.13
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	9	4.13
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	1	4.13
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	7	4.13
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	9	4.13
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	1	4.13
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	7	4.13
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	9	4.13
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	5	4.12
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	5	4.12
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	5	4.12
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	4	4.11
(3,28)	1:4:A:A:H2'	1:5:A:G:H8	6	4.11
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	4	4.11
(2,38)	1:4:A:A:H2'	1:5:A:G:H8	6	4.11
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	4	4.11
(1,39)	1:4:A:A:H2'	1:5:A:G:H8	6	4.11
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	2	4.1
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	8	4.1
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	2	4.1
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	8	4.1
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	6	4.08
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	8	4.08
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	6	4.08
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	8	4.08
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	1	4.07
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	5	4.07
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	9	4.07
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	1	4.07
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	5	4.07
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	9	4.07
(3,46)	1:6:A:C:H4'	1:7:A:U:H5	10	4.06
(2,63)	1:6:A:C:H4'	1:7:A:U:H5	10	4.06
(1,65)	1:6:A:C:H4'	1:7:A:U:H5	10	4.06
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	2	4.05
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	4	4.05
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	9	4.05
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	2	4.05
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	4	4.05

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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	9	4.05
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	7	4.04
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	10	4.04
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	7	4.04
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	10	4.04
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	9	4.03
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	3	4.03
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	4	4.03
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	9	4.03
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	3	4.03
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	4	4.03
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	9	4.03
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	2	4.02
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	8	4.02
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	10	4.02
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	2	4.02
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	8	4.02
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	10	4.02
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	2	4.02
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	8	4.02
(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'	7	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	3	4.01
(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'	7	4.01
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01
(2,128)	1:11:A:U:H3'	1:11:A:U:H6	7	4.01
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	1	4.01
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	3	4.01
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	5	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'	7	4.01
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	10	4.01
(1,133)	1:11:A:U:H3'	1:11:A:U:H6	7	4.01
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	1	4.01
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	3	4.01
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	5	4.01
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	1	4.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	6	4.0
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	8	4.0
(3,112)	1:14:A:C:H2'	1:14:A:C:H3'	9	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'	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'	7	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
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	6	4.0
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	7	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
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	6	4.0
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	8	4.0
(2,165)	1:14:A:C:H2'	1:14:A:C:H3'	9	4.0
(2,126)	1:11:A:U:H2'	1:12:A:G:H8	10	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'	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'	7	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
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	6	4.0
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	7	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
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	4	4.0
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	6	4.0
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	8	4.0
(1,170)	1:14:A:C:H2'	1:14:A:C:H3'	9	4.0
(1,131)	1:11:A:U:H2'	1:12:A:G:H8	10	4.0
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	1	4.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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'	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'	7	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
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	6	4.0
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	7	4.0
(3,74)	1:9:A:G:H3'	1:9:A:G:H2'	3	3.99
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	4	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'	5	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'	7	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
(2,100)	1:9:A:G:H3'	1:9:A:G:H2'	3	3.99
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	4	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'	5	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'	7	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
(1,103)	1:9:A:G:H3'	1:9:A:G:H2'	3	3.99
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	4	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'	5	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'	7	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
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	1	3.98
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	9	3.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	1	3.98
(3,7)	1:1:A:G:H3'	1:1:A:G:H2'	2	3.98
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	1	3.98
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	8	3.98
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	1	3.98
(2,9)	1:1:A:G:H3'	1:1:A:G:H2'	2	3.98
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	1	3.98
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	8	3.98
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	1	3.98
(1,9)	1:1:A:G:H3'	1:1:A:G:H2'	2	3.98
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	4	3.97
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	8	3.97
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	10	3.97
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	3	3.97
(3,30)	1:4:A:A:H3'	1:5:A:G:H8	3	3.97
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	4	3.97
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	8	3.97
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	10	3.97
(2,41)	1:4:A:A:H3'	1:5:A:G:H8	3	3.97
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	4	3.97
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	8	3.97
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	10	3.97
(1,42)	1:4:A:A:H3'	1:5:A:G:H8	3	3.97
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	2	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	3	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	5	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'	9	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.96
(3,53)	1:7:A:U:H2'	1:7:A:U:H6	5	3.96
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	6	3.96
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	7	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	2	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	3	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	5	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'	9	3.96
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.96
(2,117)	1:10:A:C:H3'	1:11:A:U:H5	6	3.96
(2,70)	1:7:A:U:H2'	1:7:A:U:H6	5	3.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	2	3.96
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	3	3.96
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	5	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'	9	3.96
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	10	3.96
(1,121)	1:10:A:C:H3'	1:11:A:U:H5	6	3.96
(1,73)	1:7:A:U:H2'	1:7:A:U:H6	5	3.96
(3,119)	1:14:A:C:H5''	1:14:A:C:H3'	1	3.95
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	4	3.95
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	10	3.95
(2,172)	1:14:A:C:H5''	1:14:A:C:H3'	1	3.95
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	4	3.95
(1,177)	1:14:A:C:H5''	1:14:A:C:H3'	1	3.95
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	4	3.95
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	2	3.94
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	8	3.94
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	1	3.93
(3,49)	1:6:A:C:H5''	1:6:A:C:H3'	5	3.93
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	3	3.93
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	7	3.93
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	3	3.93
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	7	3.93
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	1	3.91
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	9	3.91
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	1	3.91
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	9	3.91
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	2	3.86
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	2	3.86
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	1	3.84
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	1	3.84
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	1	3.84
(2,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.82
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	10	3.82
(2,11)	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	2	3.8
(1,11)	1:1:A:G:H3'	1:2:A:G:H8	6	3.8
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	2	3.8
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	3	3.78
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	10	3.78
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	3	3.78

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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	10	3.78
(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	6	3.77
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	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	6	3.77
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	1	3.76
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	7	3.76
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	1	3.76
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	7	3.76
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	9	3.74
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	9	3.74
(3,61)	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	2	3.72
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	2	3.72
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	4	3.71
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	1	3.71
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	4	3.71
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	2	3.7
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	2	3.7
(2,10)	1:1:A:G:H3'	1:1:A:G:H8	8	3.7
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	2	3.7
(1,10)	1:1:A:G:H3'	1:1:A:G:H8	8	3.7
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	9	3.69
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	5	3.69
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	9	3.69
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	5	3.69
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	9	3.69
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	5	3.69
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	5	3.68
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	6	3.68
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	8	3.68
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	5	3.68
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	6	3.68
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	8	3.68
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	5	3.68
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	6	3.68
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	8	3.68
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	2	3.67
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	5	3.67
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	8	3.67
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	1	3.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	3	3.67
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	4	3.67
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	7	3.67
(3,76)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.67
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	9	3.67
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	1	3.67
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	8	3.67
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	7	3.67
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	2	3.67
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	5	3.67
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	8	3.67
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	1	3.67
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	3	3.67
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	4	3.67
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	7	3.67
(2,103)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.67
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	9	3.67
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	1	3.67
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	8	3.67
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	7	3.67
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	2	3.67
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	5	3.67
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	8	3.67
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	1	3.67
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	3	3.67
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	4	3.67
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	7	3.67
(1,106)	1:9:A:G:H4'	1:9:A:G:H3'	10	3.67
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	9	3.67
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	1	3.67
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	8	3.67
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	3	3.67
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	1	3.66
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	3	3.66
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	4	3.66
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	6	3.66
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	7	3.66
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	9	3.66
(3,80)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.66
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	8	3.66
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	2	3.66
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	1	3.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	3	3.66
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	4	3.66
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	6	3.66
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	7	3.66
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	9	3.66
(2,111)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.66
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	8	3.66
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	2	3.66
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	1	3.66
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	3	3.66
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	4	3.66
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	6	3.66
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	7	3.66
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	9	3.66
(1,115)	1:10:A:C:H2'	1:10:A:C:H1'	10	3.66
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	8	3.66
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	2	3.66
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	3	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	1	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	3	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	4	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	5	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	6	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	7	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	8	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	9	3.65
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.65
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	10	3.65
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	3	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	1	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	3	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	4	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	5	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	6	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	7	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	8	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	9	3.65
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	10	3.65
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	10	3.65
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	3	3.65
(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'	3	3.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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'	8	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	9	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	6	3.64
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	2	3.64
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	3	3.64
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	6	3.64
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	6	3.64
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	7	3.64
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	10	3.64
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	1	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'	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'	6	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'	10	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'	3	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'	8	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	9	3.64
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	6	3.64
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	2	3.64
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	3	3.64
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	6	3.64
(2,125)	1:11:A:U:H2'	1:11:A:U:H1'	2	3.64
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	4	3.64
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	6	3.64
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	7	3.64
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	10	3.64
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	6	3.64
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	1	3.64

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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'	2	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'	6	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'	10	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'	3	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'	8	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	9	3.64
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	10	3.64
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	6	3.64
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	2	3.64
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	3	3.64
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	6	3.64
(1,130)	1:11:A:U:H2'	1:11:A:U:H1'	2	3.64
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	4	3.64
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	6	3.64
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	7	3.64
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	10	3.64
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	6	3.64
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	9	3.64
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	1	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'	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'	6	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'	10	3.64
(3,111)	1:14:A:C:H2'	1:14:A:C:H1'	1	3.63
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	8	3.63
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	9	3.63
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	6	3.63
(3,90)	1:12:A:G:H2'	1:12:A:G:H1'	8	3.63
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	4	3.63
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	10	3.63

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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	3	3.63
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	4	3.63
(3,43)	1:6:A:C:H2'	1:6:A:C:H6	9	3.63
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	2	3.63
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	6	3.63
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.63
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	2	3.63
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	6	3.63
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	8	3.63
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	1	3.63
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	3	3.63
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	4	3.63
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	7	3.63
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	9	3.63
(3,4)	1:1:A:G:H2'	1:1:A:G:H1'	9	3.63
(2,164)	1:14:A:C:H2'	1:14:A:C:H1'	1	3.63
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	8	3.63
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	9	3.63
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	6	3.63
(2,135)	1:12:A:G:H2'	1:12:A:G:H1'	8	3.63
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	4	3.63
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	10	3.63
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	3	3.63
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	4	3.63
(2,59)	1:6:A:C:H2'	1:6:A:C:H6	9	3.63
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	8	3.63
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	2	3.63
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	6	3.63
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.63
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	2	3.63
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	6	3.63
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	8	3.63
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	1	3.63
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	3	3.63
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	4	3.63
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	7	3.63
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	9	3.63
(2,4)	1:1:A:G:H2'	1:1:A:G:H1'	9	3.63
(1,169)	1:14:A:C:H2'	1:14:A:C:H1'	1	3.63
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	8	3.63
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	9	3.63
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	6	3.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,141)	1:12:A:G:H2'	1:12:A:G:H1'	8	3.63
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	4	3.63
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	10	3.63
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	3	3.63
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	4	3.63
(1,61)	1:6:A:C:H2'	1:6:A:C:H6	9	3.63
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	8	3.63
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	2	3.63
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	6	3.63
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	10	3.63
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	2	3.63
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	6	3.63
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	8	3.63
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	1	3.63
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	3	3.63
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	4	3.63
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	7	3.63
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	9	3.63
(1,4)	1:1:A:G:H2'	1:1:A:G:H1'	9	3.63
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	4	3.62
(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'	4	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	7	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'	4	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'	9	3.62
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	3	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'	4	3.62
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	5	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
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	6	3.62
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	7	3.62
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	5	3.62
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	4	3.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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'	4	3.62
(2,150)	1:13:A:C:H2'	1:13:A:C:H1'	7	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'	4	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'	9	3.62
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	3	3.62
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	4	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'	4	3.62
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	5	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
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	6	3.62
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	7	3.62
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	5	3.62
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	4	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'	4	3.62
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	7	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'	4	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'	9	3.62
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	3	3.62
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	4	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'	4	3.62
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	5	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
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	6	3.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	7	3.62
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	10	3.62
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	5	3.62
(3,99)	1:13:A:C:H2'	1:13:A:C:H1'	5	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'	10	3.61
(3,35)	1:5:A:G:H2'	1:5:A:G:H1'	3	3.61
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	1	3.61
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	4	3.61
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	5	3.61
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	7	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'	9	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'	5	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'	10	3.61
(2,47)	1:5:A:G:H2'	1:5:A:G:H1'	3	3.61
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	1	3.61
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	4	3.61
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	5	3.61
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	7	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'	9	3.61
(2,17)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61
(1,155)	1:13:A:C:H2'	1:13:A:C:H1'	5	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'	10	3.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,49)	1:5:A:G:H2'	1:5:A:G:H1'	3	3.61
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	1	3.61
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	4	3.61
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	5	3.61
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	7	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'	9	3.61
(1,19)	1:2:A:G:H2'	1:2:A:G:H1'	10	3.61
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	3	3.6
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	1	3.6
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	3	3.6
(3,25)	1:4:A:A:H2'	1:4:A:A:H1'	9	3.6
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	3	3.6
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	1	3.6
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	3	3.6
(2,35)	1:4:A:A:H2'	1:4:A:A:H1'	9	3.6
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	3	3.6
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	1	3.6
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	3	3.6
(1,36)	1:4:A:A:H2'	1:4:A:A:H1'	9	3.6
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	2	3.59
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	2	3.59
(3,18)	1:3:A:C:H2'	1:3:A:C:H1'	8	3.59
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	2	3.59
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	7	3.59
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	2	3.59
(2,26)	1:3:A:C:H2'	1:3:A:C:H1'	8	3.59
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	2	3.59
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	7	3.59
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	2	3.59
(1,28)	1:3:A:C:H2'	1:3:A:C:H1'	8	3.59
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	7	3.58
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	7	3.58
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	7	3.58
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	9	3.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	1	3.57
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	10	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'	10	3.57
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	9	3.57
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	1	3.57
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	2	3.57
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	3	3.57
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	10	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'	10	3.57
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	9	3.57
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	1	3.57
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	2	3.57
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	3	3.57
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	10	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'	10	3.57
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	1	3.56
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	1	3.56
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	10	3.56
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	9	3.56
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	1	3.56
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	10	3.56
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	9	3.56
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	7	3.55
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	7	3.54
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	5	3.54
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	7	3.54
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	5	3.54
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	7	3.54
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	5	3.54
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	6	3.53
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	6	3.53
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	6	3.53
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	5	3.53
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	5	3.52
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	8	3.52
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	1	3.52
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	8	3.52
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	5	3.52
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	8	3.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	1	3.52
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	8	3.52
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	5	3.52
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	8	3.52
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	1	3.52
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	8	3.52
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	4	3.51
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	2	3.51
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	9	3.51
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	4	3.51
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	5	3.51
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	2	3.51
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	9	3.51
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	4	3.51
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	5	3.51
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	2	3.51
(3,104)	1:13:A:C:H3'	1:13:A:C:H6	10	3.5
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	6	3.5
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	9	3.5
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	4	3.5
(2,156)	1:13:A:C:H3'	1:13:A:C:H6	10	3.5
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	6	3.5
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	9	3.5
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	4	3.5
(1,161)	1:13:A:C:H3'	1:13:A:C:H6	10	3.5
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	6	3.5
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	9	3.5
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	4	3.5
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	5	3.49
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	5	3.49
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	5	3.49
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	4	3.48
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	9	3.48
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	1	3.48
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	4	3.48
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	9	3.48
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	6	3.48
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	1	3.48
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	4	3.48
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	9	3.48
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	6	3.48
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	1	3.48

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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	3	3.47
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	7	3.47
(3,61)	1:8:A:U:H2'	1:8:A:U:H6	10	3.47
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	3	3.47
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	3	3.47
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	7	3.47
(2,84)	1:8:A:U:H2'	1:8:A:U:H6	10	3.47
(2,49)	1:5:A:G:H3'	1:6:A:C:H5	1	3.47
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	3	3.47
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	3	3.47
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	7	3.47
(1,88)	1:8:A:U:H2'	1:8:A:U:H6	10	3.47
(1,51)	1:5:A:G:H3'	1:6:A:C:H5	1	3.47
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	3	3.47
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	8	3.46
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	6	3.46
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	8	3.46
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	6	3.46
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	8	3.46
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	6	3.46
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	5	3.45
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	7	3.45
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	9	3.45
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	5	3.45
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	7	3.45
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	9	3.45
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	5	3.45
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	7	3.45
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	9	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

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	3	3.42
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	3	3.42
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	3	3.42
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	2	3.41
(3,94)	1:12:A:G:H3'	1:13:A:C:H6	10	3.41
(3,29)	1:4:A:A:H3'	1:4:A:A:H8	8	3.41
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	2	3.41
(2,143)	1:12:A:G:H3'	1:13:A:C:H6	10	3.41
(2,40)	1:4:A:A:H3'	1:4:A:A:H8	8	3.41
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	2	3.41
(1,148)	1:12:A:G:H3'	1:13:A:C:H6	10	3.41
(1,41)	1:4:A:A:H3'	1:4:A:A:H8	8	3.41
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	6	3.4
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	8	3.4
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	6	3.4
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	8	3.4
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	6	3.4
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	8	3.4
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	3	3.39
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	5	3.39
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	7	3.39
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	8	3.39
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	3	3.39
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	5	3.39
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	7	3.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	8	3.39
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	3	3.39
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	5	3.39
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	7	3.39
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	8	3.39
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	4	3.38
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	6	3.38
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	4	3.38
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	6	3.38
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	4	3.38
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	6	3.38
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	1	3.37
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	1	3.37
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	1	3.37
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	3	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	3	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	3	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	5	3.35
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.35
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	5	3.35
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.35
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	5	3.35
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	10	3.35
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	8	3.34
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	9	3.34
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	4	3.34
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	5	3.34
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	6	3.34
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	7	3.34
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	8	3.34
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	10	3.34
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	8	3.34
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	9	3.34
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	4	3.34
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	5	3.34
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	6	3.34
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	7	3.34
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	8	3.34
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	10	3.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	8	3.34
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	9	3.34
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	4	3.34
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	5	3.34
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	6	3.34
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	7	3.34
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	8	3.34
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	10	3.34
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	7	3.33
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	10	3.33
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	2	3.33
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	1	3.33
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	2	3.33
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	7	3.33
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	10	3.33
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	2	3.33
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	1	3.33
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	2	3.33
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	7	3.33
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	10	3.33
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	2	3.33
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	1	3.33
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	2	3.33
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	8	3.32
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	9	3.32
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	1	3.32
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	8	3.32
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	9	3.32
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	1	3.32
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	8	3.32
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	9	3.32
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	6	3.31
(3,14)	1:2:A:G:H5'	1:1:A:G:H2'	3	3.31
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	1	3.31
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	10	3.31
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	6	3.31
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	3	3.31
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	4	3.31
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	1	3.31
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	10	3.31
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	6	3.31
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	3	3.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	4	3.31
(3,93)	1:12:A:G:H3'	1:12:A:G:H8	2	3.3
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	6	3.3
(2,141)	1:12:A:G:H3'	1:12:A:G:H8	2	3.3
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	1	3.3
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	5	3.3
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	8	3.3
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	6	3.3
(1,146)	1:12:A:G:H3'	1:12:A:G:H8	2	3.3
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	1	3.3
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	5	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'	4	3.29
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	4	3.29
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	6	3.29
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	7	3.29
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	8	3.29
(2,20)	1:2:A:G:H5'	1:1:A:G:H2'	4	3.29
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	7	3.29
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	4	3.29
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	6	3.29
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	7	3.29
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	8	3.29
(1,23)	1:2:A:G:H5'	1:1:A:G:H2'	4	3.29
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	7	3.29
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	3	3.28
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	3	3.28
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	5	3.28
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	9	3.28
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	3	3.28
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	3	3.28
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	9	3.28
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	3	3.28
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	5	3.28
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	9	3.28
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	3	3.28
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	3	3.28
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	9	3.28
(2,110)	1:10:A:C:H1'	1:10:A:C:H6	2	3.27
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	2	3.27
(1,114)	1:10:A:C:H1'	1:10:A:C:H6	2	3.27
(1,6)	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)
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	2	3.26
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	3	3.26
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	2	3.26
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	3	3.26
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	4	3.25
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	6	3.25
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	2	3.25
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	4	3.25
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	6	3.25
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	3	3.25
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	2	3.25
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	6	3.25
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	4	3.25
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	6	3.25
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	3	3.25
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	2	3.25
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	6	3.25
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	3	3.24
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	3	3.24
(2,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.24
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	3	3.24
(1,6)	1:1:A:G:H2'	1:2:A:G:H1'	10	3.24
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	5	3.23
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	2	3.23
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	5	3.23
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	2	3.23
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	5	3.23
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	2	3.23
(3,54)	1:7:A:U:H2'	1:8:A:U:H5	10	3.22
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	8	3.22
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	4	3.22
(2,71)	1:7:A:U:H2'	1:8:A:U:H5	10	3.22
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	8	3.22
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	4	3.22
(1,74)	1:7:A:U:H2'	1:8:A:U:H5	10	3.22
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	8	3.22
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	9	3.21
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	2	3.21
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	9	3.21
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	9	3.21
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	9	3.21
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	2	3.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	9	3.21
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	9	3.21
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	9	3.21
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	2	3.21
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	9	3.21
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	8	3.2
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	8	3.2
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	1	3.2
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	8	3.2
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	1	3.2
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	1	3.19
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	1	3.19
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	1	3.19
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	1	3.18
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	1	3.18
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	8	3.18
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	1	3.18
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	8	3.18
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	3	3.17
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	10	3.17
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	7	3.17
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	3	3.17
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	10	3.17
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	7	3.17
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	3	3.17
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	10	3.17
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	7	3.17
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	8	3.16
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	2	3.16
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	3	3.16
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	8	3.16
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	2	3.16
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	3	3.16
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	8	3.16
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	2	3.16
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	3	3.16
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	2	3.15
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	5	3.15
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	2	3.15
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	2	3.15
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	5	3.15
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	2	3.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	2	3.15
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	5	3.15
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	2	3.15
(3,72)	1:9:A:G:H1'	1:10:A:C:H6	2	3.14
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	4	3.14
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	8	3.14
(2,97)	1:9:A:G:H1'	1:10:A:C:H6	2	3.14
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	4	3.14
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	8	3.14
(1,100)	1:9:A:G:H1'	1:10:A:C:H6	2	3.14
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	4	3.14
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	8	3.14
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	7	3.13
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	9	3.13
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	6	3.13
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	1	3.13
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	5	3.13
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	6	3.13
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	10	3.13
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	7	3.13
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	9	3.13
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	6	3.13
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	1	3.13
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	5	3.13
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	6	3.13
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	10	3.13
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	7	3.13
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	9	3.13
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	6	3.13
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	1	3.13
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	5	3.13
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	6	3.13
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	10	3.13
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	7	3.12
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	1	3.12
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	1	3.12
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	8	3.12
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	7	3.12
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	1	3.12
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	1	3.12
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	8	3.12
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	7	3.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	1	3.12
(3,114)	1:14:A:C:H3'	1:14:A:C:H6	10	3.11
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	4	3.11
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	10	3.11
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	1	3.11
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	4	3.11
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	10	3.11
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	5	3.11
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	9	3.11
(2,167)	1:14:A:C:H3'	1:14:A:C:H6	10	3.11
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	4	3.11
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	10	3.11
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	1	3.11
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	4	3.11
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	10	3.11
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	5	3.11
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	9	3.11
(1,172)	1:14:A:C:H3'	1:14:A:C:H6	10	3.11
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	4	3.11
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	10	3.11
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	5	3.11
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	9	3.11
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.1
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	7	3.1
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.1
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	7	3.1
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	10	3.1
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	3	3.09
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	4	3.09
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	1	3.09
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	1	3.09
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	6	3.09
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	7	3.09
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	5	3.09
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	6	3.09
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	3	3.09
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	4	3.09
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	1	3.09
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	1	3.09
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	6	3.09
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	7	3.09
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	5	3.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	6	3.09
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	3	3.09
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	4	3.09
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	1	3.09
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	1	3.09
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	7	3.09
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	5	3.09
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	6	3.09
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	3	3.08
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.08
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	7	3.08
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	9	3.08
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	2	3.08
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	3	3.08
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.08
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	7	3.08
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	9	3.08
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	2	3.08
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	3	3.08
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	10	3.08
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	7	3.08
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	2	3.08
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	4	3.07
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	7	3.07
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	7	3.07
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	5	3.07
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	4	3.07
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	7	3.07
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	7	3.07
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	5	3.07
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	4	3.07
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	7	3.07
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	10	3.06
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	3	3.06
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	3	3.06
(3,48)	1:6:A:C:H5'	1:6:A:C:H6	9	3.06
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	6	3.06
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	10	3.06
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	3	3.06
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	9	3.06
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	3	3.06
(2,65)	1:6:A:C:H5'	1:6:A:C:H6	9	3.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	6	3.06
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	10	3.06
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	9	3.06
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	3	3.06
(1,67)	1:6:A:C:H5'	1:6:A:C:H6	9	3.06
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	6	3.06
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	6	3.05
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	5	3.05
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	6	3.05
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	5	3.05
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	1	3.05
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	6	3.05
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	5	3.05
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	6	3.05
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	5	3.05
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	2	3.05
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	1	3.05
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	6	3.05
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	5	3.05
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	6	3.05
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	2	3.05
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	1	3.05
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	8	3.04
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	5	3.04
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	8	3.04
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	2	3.04
(3,63)	1:8:A:U:H4'	1:8:A:U:H1'	8	3.04
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	4	3.04
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	8	3.04
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	9	3.04
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	9	3.04
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	4	3.04
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	8	3.04
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	5	3.04
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	5	3.04
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	8	3.04
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	2	3.04
(2,87)	1:8:A:U:H4'	1:8:A:U:H1'	8	3.04
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	4	3.04
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	8	3.04
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	9	3.04
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	9	3.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	4	3.04
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	8	3.04
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	5	3.04
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	5	3.04
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	8	3.04
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	4	3.04
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	8	3.04
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	9	3.04
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	9	3.04
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	4	3.04
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	3	3.03
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	2	3.03
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	3	3.03
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	6	3.03
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	4	3.03
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	3	3.03
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	2	3.03
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	3	3.03
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	6	3.03
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	4	3.03
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	3	3.03
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	2	3.03
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	3	3.03
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	6	3.03
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	4	3.03
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	5	3.02
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	7	3.02
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	2	3.02
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	5	3.02
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	7	3.02
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	2	3.02
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	5	3.02
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	7	3.02
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	2	3.02
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	9	3.01
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	1	3.01
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	2	3.01
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	9	3.01
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	8	3.01
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	10	3.01
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	3	3.01
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	6	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	8	3.01
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	9	3.01
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	1	3.01
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	2	3.01
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	9	3.01
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	8	3.01
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	10	3.01
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	3	3.01
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	6	3.01
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	8	3.01
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	9	3.01
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	1	3.01
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	2	3.01
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	9	3.01
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	8	3.01
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	10	3.01
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	3	3.01
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	6	3.01
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	8	3.01
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	4	3.0
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	8	3.0
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	7	3.0
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	5	3.0
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	8	3.0
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	1	3.0
(3,56)	1:7:A:U:H4'	1:7:A:U:H1'	5	3.0
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	7	3.0
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	7	3.0
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	9	3.0
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	7	3.0
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	5	3.0
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	8	3.0
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	1	3.0
(2,76)	1:7:A:U:H4'	1:7:A:U:H1'	5	3.0
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	3	3.0
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	7	3.0
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	7	3.0
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	9	3.0
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	7	3.0
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	5	3.0
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	8	3.0
(1,80)	1:7:A:U:H4'	1:7:A:U:H1'	1	3.0

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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'	5	3.0
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	3	3.0
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	7	3.0
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	7	3.0
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	9	3.0
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	1	2.99
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	1	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	1	2.99
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	7	2.99
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	1	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	1	2.99
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	7	2.99
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	1	2.99
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	10	2.99
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	5	2.98
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	6	2.98
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	7	2.98
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	3	2.98
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	5	2.98
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	3	2.98
(3,33)	1:5:A:G:H1'	1:4:A:A:H2	4	2.98
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	7	2.98
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	3	2.98
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	5	2.98
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	3	2.98
(2,45)	1:5:A:G:H1'	1:4:A:A:H2	4	2.98
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	7	2.98
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	3	2.98
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	5	2.98
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	3	2.98
(1,47)	1:5:A:G:H1'	1:4:A:A:H2	4	2.98
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	2	2.97
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	9	2.97
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	6	2.97
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	9	2.97
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	2	2.97
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	9	2.97
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	5	2.97
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	6	2.97
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	9	2.97

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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	2	2.97
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	9	2.97
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	5	2.97
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	6	2.97
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	9	2.97
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	2	2.96
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	3	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	5	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	9	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	5	2.96
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	4	2.96
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	1	2.96
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	4	2.96
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	6	2.96
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	7	2.96
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	10	2.96
(3,75)	1:9:A:G:H4'	1:9:A:G:H1'	2	2.96
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	9	2.96
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	1	2.96
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	5	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	9	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	5	2.96
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	4	2.96
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	1	2.96
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	4	2.96
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	6	2.96
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	7	2.96
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	10	2.96
(2,102)	1:9:A:G:H4'	1:9:A:G:H1'	2	2.96
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	4	2.96
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	9	2.96
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	1	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	5	2.96
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	7	2.96
(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	9	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	10	2.96
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	5	2.96
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	4	2.96
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	1	2.96
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	4	2.96
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	6	2.96
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	7	2.96
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	10	2.96
(1,105)	1:9:A:G:H4'	1:9:A:G:H1'	2	2.96
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	4	2.96
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	9	2.96
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	1	2.96
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	1	2.95
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	3	2.95
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	8	2.95
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	9	2.95
(3,88)	1:11:A:U:H5''	1:11:A:U:H6	9	2.95
(3,73)	1:9:A:G:H2'	1:9:A:G:H8	2	2.95
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	4	2.95
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	3	2.95
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	1	2.95
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	5	2.95
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	6	2.95
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	1	2.95
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	3	2.95
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	8	2.95
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	9	2.95
(2,132)	1:11:A:U:H5''	1:11:A:U:H6	9	2.95
(2,98)	1:9:A:G:H2'	1:9:A:G:H8	2	2.95
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	4	2.95
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	3	2.95
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	1	2.95
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	5	2.95
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	6	2.95
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	1	2.95
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	3	2.95
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	8	2.95
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	9	2.95
(1,137)	1:11:A:U:H5''	1:11:A:U:H6	9	2.95
(1,101)	1:9:A:G:H2'	1:9:A:G:H8	2	2.95
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	4	2.95
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	3	2.95

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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'	1	2.95
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	5	2.95
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	6	2.95
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	1	2.94
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	7	2.94
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	10	2.94
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	4	2.94
(3,110)	1:14:A:C:H1'	1:14:A:C:H6	6	2.94
(3,108)	1:13:A:C:H5'	1:13:A:C:H6	10	2.94
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	3	2.94
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	2	2.94
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	8	2.94
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	1	2.94
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	7	2.94
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	9	2.94
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	7	2.94
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	4	2.94
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	10	2.94
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	4	2.94
(2,163)	1:14:A:C:H1'	1:14:A:C:H6	6	2.94
(2,161)	1:13:A:C:H5'	1:13:A:C:H6	10	2.94
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	3	2.94
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	2	2.94
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	2	2.94
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	8	2.94
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	1	2.94
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	7	2.94
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	9	2.94
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	7	2.94
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	4	2.94
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	10	2.94
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	4	2.94
(1,168)	1:14:A:C:H1'	1:14:A:C:H6	6	2.94
(1,166)	1:13:A:C:H5'	1:13:A:C:H6	10	2.94
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	3	2.94
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	2	2.94
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	2	2.94
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	8	2.94
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	1	2.94
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	7	2.94
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	9	2.94
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	7	2.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	4	2.94
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	10	2.94
(3,118)	1:14:A:C:H5'	1:14:A:C:H6	9	2.93
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	7	2.93
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	1	2.93
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	4	2.93
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	5	2.93
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	6	2.93
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	8	2.93
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	10	2.93
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	4	2.93
(2,113)	1:10:A:C:H2'	1:11:A:U:H5	8	2.93
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	6	2.93
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	7	2.93
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	1	2.93
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	4	2.93
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	5	2.93
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	6	2.93
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	8	2.93
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	10	2.93
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	4	2.93
(1,117)	1:10:A:C:H2'	1:11:A:U:H5	8	2.93
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	6	2.93
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	7	2.93
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	1	2.93
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	4	2.93
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	5	2.93
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	6	2.93
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	8	2.93
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	10	2.93
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	4	2.93
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	6	2.92
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	8	2.92
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	7	2.92
(3,45)	1:6:A:C:H4'	1:6:A:C:H1'	2	2.92
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	8	2.92
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	6	2.92
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	8	2.92
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	2	2.92
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	2	2.92
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	7	2.92
(2,62)	1:6:A:C:H4'	1:6:A:C:H1'	2	2.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	8	2.92
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	6	2.92
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	8	2.92
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	2	2.92
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	7	2.92
(1,64)	1:6:A:C:H4'	1:6:A:C:H1'	2	2.92
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	8	2.92
(3,106)	1:13:A:C:H4'	1:13:A:C:H1'	2	2.91
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	4	2.91
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	6	2.91
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	5	2.91
(2,158)	1:13:A:C:H4'	1:13:A:C:H1'	2	2.91
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	4	2.91
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	6	2.91
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	5	2.91
(1,163)	1:13:A:C:H4'	1:13:A:C:H1'	2	2.91
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	4	2.91
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	6	2.91
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	10	2.91
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	5	2.91
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	10	2.91
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	1	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	2	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	3	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	4	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	6	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	7	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	8	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	9	2.9
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.9
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	5	2.9
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	9	2.9
(3,47)	1:6:A:C:H4'	1:7:A:U:H6	10	2.9
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	5	2.9
(3,9)	1:1:A:G:H5'	1:1:A:G:H8	9	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	1	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	2	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	3	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	4	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	6	2.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	7	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	8	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	9	2.9
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.9
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	5	2.9
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	9	2.9
(2,64)	1:6:A:C:H4'	1:7:A:U:H6	10	2.9
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	5	2.9
(2,15)	1:1:A:G:H5'	1:1:A:G:H8	9	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	1	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	2	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	3	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	4	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	6	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	7	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	8	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	9	2.9
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	10	2.9
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	5	2.9
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	9	2.9
(1,66)	1:6:A:C:H4'	1:7:A:U:H6	10	2.9
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	5	2.9
(1,16)	1:1:A:G:H5'	1:1:A:G:H8	9	2.9
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	6	2.89
(3,78)	1:9:A:G:H5'	1:9:A:G:H3'	5	2.89
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	5	2.89
(3,36)	1:5:A:G:H4'	1:5:A:G:H1'	2	2.89
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	1	2.89
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	6	2.89
(2,106)	1:9:A:G:H5'	1:9:A:G:H3'	5	2.89
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	5	2.89
(2,50)	1:5:A:G:H4'	1:5:A:G:H1'	2	2.89
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	1	2.89
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	6	2.89
(1,109)	1:9:A:G:H5'	1:9:A:G:H3'	5	2.89
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	5	2.89
(1,52)	1:5:A:G:H4'	1:5:A:G:H1'	2	2.89
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	1	2.89
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	8	2.89
(3,52)	1:7:A:U:H2'	1:6:A:C:H1'	3	2.88
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	1	2.88
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	3	2.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	4	2.88
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	7	2.88
(2,142)	1:12:A:G:H3'	1:13:A:C:H5	10	2.88
(2,68)	1:7:A:U:H2'	1:6:A:C:H1'	3	2.88
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	1	2.88
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	3	2.88
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	4	2.88
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	7	2.88
(1,147)	1:12:A:G:H3'	1:13:A:C:H5	10	2.88
(1,71)	1:7:A:U:H2'	1:6:A:C:H1'	3	2.88
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	1	2.88
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	3	2.88
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	4	2.88
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	7	2.88
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	8	2.87
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	9	2.87
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	3	2.87
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	3	2.87
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	8	2.87
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	9	2.87
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	3	2.87
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	8	2.87
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	9	2.87
(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	8	2.86
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	6	2.86
(3,21)	1:3:A:C:H4'	1:3:A:C:H1'	9	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	2	2.86
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	8	2.86
(2,75)	1:7:A:U:H3'	1:8:A:U:H6	10	2.86
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	6	2.86
(2,30)	1:3:A:C:H4'	1:3:A:C:H1'	9	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	2	2.86
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	8	2.86
(1,79)	1:7:A:U:H3'	1:8:A:U:H6	10	2.86
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	6	2.86
(1,31)	1:3:A:C:H4'	1:3:A:C:H1'	9	2.86
(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	9	2.85
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	10	2.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	8	2.85
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	10	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	6	2.85
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	9	2.85
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	10	2.85
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	8	2.85
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	10	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	6	2.85
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	9	2.85
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	10	2.85
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	8	2.85
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	10	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	6	2.85
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	10	2.85
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	1	2.84
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	3	2.84
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	5	2.84
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	6	2.84
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	7	2.84
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	2	2.84
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	3	2.84
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	1	2.84
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	5	2.84
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	1	2.84
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	7	2.84
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	1	2.84
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	3	2.84
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	5	2.84
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	6	2.84
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	7	2.84
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	2	2.84
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	3	2.84
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	1	2.84
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	5	2.84
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	1	2.84
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	7	2.84
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	1	2.84
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	3	2.84
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	5	2.84
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	6	2.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	7	2.84
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	2	2.84
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	3	2.84
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	1	2.84
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	5	2.84
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	1	2.84
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	7	2.84
(3,97)	1:13:A:C:H1'	1:13:A:C:H6	4	2.83
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	4	2.83
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	9	2.83
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	2	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'	6	2.83
(2,148)	1:13:A:C:H1'	1:13:A:C:H6	4	2.83
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	6	2.83
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	6	2.83
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	4	2.83
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	9	2.83
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	2	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'	6	2.83
(1,153)	1:13:A:C:H1'	1:13:A:C:H6	4	2.83
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	6	2.83
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	4	2.83
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	9	2.83
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	2	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'	6	2.83
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	4	2.82
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	9	2.82
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	3	2.82
(3,17)	1:3:A:C:H1'	1:3:A:C:H6	7	2.82
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	8	2.82
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.82
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	8	2.82
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	8	2.82
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	4	2.82
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	9	2.82
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	3	2.82
(2,24)	1:3:A:C:H1'	1:3:A:C:H6	7	2.82
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	8	2.82
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	8	2.82
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	4	2.82
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	9	2.82
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	3	2.82
(1,26)	1:3:A:C:H1'	1:3:A:C:H6	7	2.82
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	8	2.82
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	10	2.82
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	8	2.81
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	5	2.81
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	4	2.81
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	4	2.81
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	8	2.81
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	5	2.81
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	4	2.81
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	8	2.81
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	5	2.81
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	6	2.8
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	2	2.8
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	6	2.8
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	7	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	1	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	2	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	4	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	6	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	7	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	9	2.8
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	10	2.8
(3,8)	1:1:A:G:H4'	1:1:A:G:H1'	3	2.8
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	6	2.8
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	2	2.8
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	6	2.8
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	7	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	1	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	2	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	4	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	6	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	7	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	9	2.8
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	10	2.8
(2,12)	1:1:A:G:H4'	1:1:A:G:H1'	3	2.8
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	6	2.8
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	2	2.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	6	2.8
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	7	2.8
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	1	2.8
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	2	2.8
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	4	2.8
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	6	2.8
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	7	2.8
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	9	2.8
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	10	2.8
(1,12)	1:1:A:G:H4'	1:1:A:G:H1'	3	2.8
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	2	2.79
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	8	2.79
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	3	2.79
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	3	2.79
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	4	2.79
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	2	2.79
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	8	2.79
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	1	2.79
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	3	2.79
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	3	2.79
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	4	2.79
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	2	2.79
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	8	2.79
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	1	2.79
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	3	2.79
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	3	2.79
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	4	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'	7	2.78
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	9	2.78
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	3	2.78
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	5	2.78
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	7	2.78
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	2	2.78
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	6	2.78
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	9	2.78
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	9	2.78
(3,34)	1:5:A:G:H1'	1:5:A:G:H8	5	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'	7	2.78
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	9	2.78
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	3	2.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	5	2.78
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	7	2.78
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	9	2.78
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	9	2.78
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	2	2.78
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	6	2.78
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	9	2.78
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	9	2.78
(2,46)	1:5:A:G:H1'	1:5:A:G:H8	5	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'	7	2.78
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	9	2.78
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	3	2.78
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	5	2.78
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	7	2.78
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	9	2.78
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	2	2.78
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	6	2.78
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	9	2.78
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	9	2.78
(1,48)	1:5:A:G:H1'	1:5:A:G:H8	5	2.78
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	2	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	3	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'	10	2.77
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	5	2.77
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	3	2.77
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	1	2.77
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	4	2.77
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	6	2.77
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	8	2.77
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	9	2.77
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	3	2.77
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	4	2.77
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	5	2.77
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	7	2.77
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	1	2.77
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	1	2.77
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	7	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	2	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	3	2.77
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	5	2.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	10	2.77
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	5	2.77
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	3	2.77
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	1	2.77
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	4	2.77
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	6	2.77
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	8	2.77
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	9	2.77
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	3	2.77
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	4	2.77
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	5	2.77
(2,123)	1:11:A:U:H1'	1:11:A:U:H6	7	2.77
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	1	2.77
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	1	2.77
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	7	2.77
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	2	2.77
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	3	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'	10	2.77
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	5	2.77
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	3	2.77
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	1	2.77
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	4	2.77
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	6	2.77
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	8	2.77
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	9	2.77
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	3	2.77
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	4	2.77
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	5	2.77
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	7	2.77
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	1	2.77
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	1	2.77
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	7	2.77
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	4	2.76
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	6	2.76
(3,115)	1:14:A:C:H4'	1:14:A:C:H1'	8	2.76
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	1	2.76
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	3	2.76
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	5	2.76
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	7	2.76
(3,86)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.76
(3,85)	1:11:A:U:H1'	1:11:A:U:H6	1	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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	6	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
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	4	2.76
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	1	2.76
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	3	2.76
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	1	2.76
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	7	2.76
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	4	2.76
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	6	2.76
(2,168)	1:14:A:C:H4'	1:14:A:C:H1'	8	2.76
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	1	2.76
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	3	2.76
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	5	2.76
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	7	2.76
(2,129)	1:11:A:U:H4'	1:11:A:U:H1'	10	2.76
(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	6	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
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	4	2.76
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	1	2.76
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	3	2.76
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	1	2.76
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	7	2.76
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	4	2.76
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	6	2.76
(1,173)	1:14:A:C:H4'	1:14:A:C:H1'	8	2.76
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	1	2.76
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	3	2.76
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	5	2.76
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	7	2.76
(1,134)	1:11:A:U:H4'	1:11:A:U:H1'	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	6	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

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:11:A:U:H1'	1:11:A:U:H6	10	2.76
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	4	2.76
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	1	2.76
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	3	2.76
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	1	2.76
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	7	2.76
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	1	2.76
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	5	2.76
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	9	2.76
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	5	2.75
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	8	2.75
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	5	2.75
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	8	2.75
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	5	2.75
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	8	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	7	2.75
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	8	2.75
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	10	2.75
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	9	2.74
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	1	2.74
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	4	2.74
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	2	2.74
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	10	2.74
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	1	2.74
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	4	2.74
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	9	2.74
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	1	2.74
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	4	2.74
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	2	2.74
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	10	2.74
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	10	2.74
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	1	2.74
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	4	2.74
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	9	2.74
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	1	2.74
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	4	2.74
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	2	2.74
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	10	2.74
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	10	2.74
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	1	2.74
(1,18)	1:2:A:G:H1'	1:2:A:G:H8	2	2.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	4	2.74
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	9	2.73
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	9	2.73
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	4	2.73
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	1	2.73
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	9	2.73
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	2	2.73
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	4	2.73
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	7	2.73
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.73
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	9	2.73
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	4	2.73
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	5	2.73
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	6	2.73
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	4	2.73
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	1	2.73
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	9	2.73
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	2	2.73
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	4	2.73
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	7	2.73
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	10	2.73
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	9	2.73
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	4	2.73
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	5	2.73
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	6	2.73
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	4	2.73
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	1	2.73
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	4	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
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	7	2.72
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	8	2.72
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	1	2.72
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	3	2.72
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	8	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	1	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	2	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	3	2.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	4	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	6	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	7	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	8	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	9	2.72
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	10	2.72
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	2	2.72
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	4	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
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	7	2.72
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	8	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	7	2.72
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	8	2.72
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	1	2.72
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	3	2.72
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	8	2.72
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	1	2.72
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	7	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	1	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	2	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	3	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	4	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	6	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	7	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	8	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	9	2.72
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	10	2.72
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	2	2.72
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	4	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
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	7	2.72
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	8	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	7	2.72
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	8	2.72
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	10	2.72
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	1	2.72
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	3	2.72
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	8	2.72
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	1	2.72
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	7	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	1	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	2	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	3	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	4	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	6	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	7	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	8	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	9	2.72
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	10	2.72
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	2	2.72
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	2	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'	2	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'	6	2.71
(3,117)	1:14:A:C:H5'	1:14:A:C:H3'	9	2.71
(3,105)	1:13:A:C:H3'	1:14:A:C:H6	10	2.71
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	5	2.71
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	6	2.71
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	3	2.71
(3,39)	1:6:A:C:H1'	1:6:A:C:H6	5	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'	2	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'	6	2.71
(2,171)	1:14:A:C:H5'	1:14:A:C:H3'	9	2.71
(2,157)	1:13:A:C:H3'	1:14:A:C:H6	10	2.71
(2,134)	1:12:A:G:H1'	1:12:A:G:H8	1	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	9	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	1	2.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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'	6	2.71
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	9	2.71
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	5	2.71
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	6	2.71
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	3	2.71
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	3	2.71
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	8	2.71
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	9	2.71
(2,54)	1:6:A:C:H1'	1:6:A:C:H6	5	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	1	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	2	2.71
(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'	6	2.71
(1,176)	1:14:A:C:H5'	1:14:A:C:H3'	9	2.71
(1,162)	1:13:A:C:H3'	1:14:A:C:H6	10	2.71
(1,139)	1:12:A:G:H1'	1:12:A:G:H8	1	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	9	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'	3	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	6	2.71
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	9	2.71
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	5	2.71
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	6	2.71
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	3	2.71
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	3	2.71
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	8	2.71
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	9	2.71
(1,56)	1:6:A:C:H1'	1:6:A:C:H6	5	2.71
(1,20)	1:2:A:G:H2'	1:3:A:C:H5	6	2.71
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	1	2.7
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	4	2.7
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	7	2.7
(3,69)	1:9:A:G:H1'	1:9:A:G:H8	10	2.7
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	9	2.7
(3,41)	1:6:A:C:H1'	1:7:A:U:H6	2	2.7
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	1	2.7
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	9	2.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	10	2.7
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	1	2.7
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	4	2.7
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	7	2.7
(2,94)	1:9:A:G:H1'	1:9:A:G:H8	10	2.7
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	9	2.7
(2,83)	1:8:A:U:H1'	1:8:A:U:H6	2	2.7
(2,56)	1:6:A:C:H1'	1:7:A:U:H6	2	2.7
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	1	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
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	1	2.7
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	4	2.7
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	7	2.7
(1,97)	1:9:A:G:H1'	1:9:A:G:H8	10	2.7
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	9	2.7
(1,87)	1:8:A:U:H1'	1:8:A:U:H6	2	2.7
(1,58)	1:6:A:C:H1'	1:7:A:U:H6	2	2.7
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	1	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
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	2	2.69
(3,67)	1:8:A:U:H5'	1:8:A:U:H6	1	2.69
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	6	2.69
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	1	2.69
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	4	2.69
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	5	2.69
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	6	2.69
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	7	2.69
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	10	2.69
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	6	2.69
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	3	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	6	2.69
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	2	2.69
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	1	2.69
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	1	2.69
(2,91)	1:8:A:U:H5'	1:8:A:U:H6	1	2.69
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	6	2.69
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	1	2.69
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	4	2.69
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	5	2.69

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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	2.69
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	7	2.69
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	10	2.69
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	6	2.69
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	3	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	6	2.69
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	2	2.69
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	1	2.69
(1,94)	1:8:A:U:H5'	1:8:A:U:H6	1	2.69
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	6	2.69
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	1	2.69
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	4	2.69
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	5	2.69
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	6	2.69
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	7	2.69
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	10	2.69
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	6	2.69
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	3	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	6	2.69
(3,95)	1:12:A:G:H5'	1:12:A:G:H8	10	2.68
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	2	2.68
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	3	2.68
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	8	2.68
(3,51)	1:7:A:U:H1'	1:7:A:U:H6	9	2.68
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	6	2.68
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	4	2.68
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	5	2.68
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	9	2.68
(2,145)	1:12:A:G:H5'	1:12:A:G:H8	10	2.68
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	5	2.68
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	5	2.68
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	2	2.68
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	3	2.68
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	8	2.68
(2,67)	1:7:A:U:H1'	1:7:A:U:H6	9	2.68
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	6	2.68
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	4	2.68
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	5	2.68
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	9	2.68
(1,150)	1:12:A:G:H5'	1:12:A:G:H8	10	2.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	5	2.68
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	2	2.68
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	3	2.68
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	8	2.68
(1,70)	1:7:A:U:H1'	1:7:A:U:H6	9	2.68
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	6	2.68
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	4	2.68
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	5	2.68
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	9	2.68
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	4	2.67
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	10	2.67
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	4	2.67
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	10	2.67
(3,24)	1:4:A:A:H1'	1:4:A:A:H8	7	2.67
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	2	2.67
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	3	2.67
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	5	2.67
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	4	2.67
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	10	2.67
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	4	2.67
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	10	2.67
(2,34)	1:4:A:A:H1'	1:4:A:A:H8	7	2.67
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	2	2.67
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	3	2.67
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	5	2.67
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	4	2.67
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	10	2.67
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	4	2.67
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	10	2.67
(1,35)	1:4:A:A:H1'	1:4:A:A:H8	7	2.67
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	2	2.67
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	3	2.67
(3,55)	1:7:A:U:H3'	1:8:A:U:H5	10	2.66
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	4	2.66
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	1	2.66
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	5	2.66
(2,74)	1:7:A:U:H3'	1:8:A:U:H5	10	2.66
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	4	2.66
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	1	2.66
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	5	2.66
(1,78)	1:7:A:U:H3'	1:8:A:U:H5	10	2.66
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	4	2.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	1	2.66
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	5	2.66
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	2	2.65
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	8	2.65
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	8	2.65
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	8	2.65
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	2	2.65
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	7	2.65
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	1	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	8	2.65
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	9	2.65
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	2	2.65
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	8	2.65
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	8	2.65
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	4	2.65
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	8	2.65
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	8	2.65
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	2	2.65
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	7	2.65
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	1	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	8	2.65
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	9	2.65
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	2	2.65
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	8	2.65
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	8	2.65
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	4	2.65
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	8	2.65
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	8	2.65
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	2	2.65
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	7	2.65
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	1	2.65
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	4	2.65
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	8	2.65
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	9	2.65
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	7	2.64
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	7	2.64
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	2	2.64
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	3	2.64
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	4	2.64
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	10	2.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	2	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	7	2.64
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64
(2,119)	1:10:A:C:H4'	1:10:A:C:H1'	2	2.64
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	7	2.64
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	7	2.64
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	2	2.64
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	3	2.64
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	4	2.64
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	10	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	2	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	7	2.64
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64
(1,123)	1:10:A:C:H4'	1:10:A:C:H1'	2	2.64
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	7	2.64
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	7	2.64
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	2	2.64
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	3	2.64
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	4	2.64
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	10	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	2	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	7	2.64
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	10	2.64
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	6	2.63
(3,1)	1:1:A:G:H1'	1:1:A:G:H8	3	2.63
(2,138)	1:12:A:G:H2'	1:13:A:C:H5	10	2.63
(2,137)	1:12:A:G:H2'	1:13:A:C:H5	10	2.63
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	6	2.63
(2,1)	1:1:A:G:H1'	1:1:A:G:H8	3	2.63
(1,143)	1:12:A:G:H2'	1:13:A:C:H5	10	2.63
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	6	2.63
(1,1)	1:1:A:G:H1'	1:1:A:G:H8	3	2.63
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	6	2.62
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	7	2.62
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	8	2.62
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	6	2.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	1	2.62
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	4	2.62
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	9	2.62
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	7	2.62
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	8	2.62
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	6	2.62
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	1	2.62
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	4	2.62
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	9	2.62
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	7	2.62
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	8	2.62
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	1	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
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	6	2.61
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	9	2.61
(3,27)	1:4:A:A:H2'	1:5:A:G:H1'	8	2.61
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	1	2.61
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	8	2.61
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	1	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
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	6	2.61
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	9	2.61
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	6	2.61
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	7	2.61
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.61
(2,37)	1:4:A:A:H2'	1:5:A:G:H1'	8	2.61
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	1	2.61
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	8	2.61
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	1	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
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	6	2.61
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	9	2.61
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	6	2.61
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	7	2.61
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	10	2.61
(1,38)	1:4:A:A:H2'	1:5:A:G:H1'	8	2.61
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	1	2.61
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	8	2.61
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	8	2.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	5	2.6
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	10	2.6
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	8	2.6
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	5	2.6
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	10	2.6
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	8	2.6
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	5	2.6
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	10	2.6
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	3	2.59
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	7	2.59
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	9	2.59
(3,10)	1:1:A:G:H5''	1:1:A:G:H8	6	2.59
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	3	2.59
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	7	2.59
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	9	2.59
(2,16)	1:1:A:G:H5''	1:1:A:G:H8	6	2.59
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	3	2.59
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	7	2.59
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	9	2.59
(1,17)	1:1:A:G:H5''	1:1:A:G:H8	6	2.59
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	7	2.58
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	5	2.58
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	5	2.58
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	10	2.58
(3,15)	1:2:A:G:H5'	1:2:A:G:H8	9	2.58
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	7	2.58
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	5	2.58
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	8	2.58
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	5	2.58
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	5	2.58
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	5	2.58
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	10	2.58
(2,21)	1:2:A:G:H5'	1:2:A:G:H8	9	2.58
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	2	2.58
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	7	2.58
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	5	2.58
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	8	2.58
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	5	2.58
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	5	2.58
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	5	2.58
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	10	2.58
(1,24)	1:2:A:G:H5'	1:2:A:G:H8	9	2.58

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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	9	2.57
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	6	2.57
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	2	2.57
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	5	2.57
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	4	2.57
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	9	2.57
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	6	2.57
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	2	2.57
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	5	2.57
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	4	2.57
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	3	2.57
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	1	2.57
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	5	2.57
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	7	2.57
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	1	2.57
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	9	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	1	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	2	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	9	2.57
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	10	2.57
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	9	2.57
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	6	2.57
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	2	2.57
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	5	2.57
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	4	2.57
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	3	2.57
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	2	2.57
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	8	2.57
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	9	2.57
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	1	2.57
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	5	2.57
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	7	2.57
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	1	2.57
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	9	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	1	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	2	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	9	2.57
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	10	2.57
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	2	2.56
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	3	2.56
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	9	2.56
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	6	2.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(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'	10	2.56
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	3	2.56
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	3	2.56
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	3	2.56
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	9	2.56
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	2	2.56
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	3	2.56
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	9	2.56
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	8	2.56
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	6	2.56
(2,115)	1:10:A:C:H3'	1:10:A:C:H1'	2	2.56
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	1	2.56
(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'	10	2.56
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	3	2.56
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	3	2.56
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	2	2.56
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	3	2.56
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	4	2.56
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	8	2.56
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	9	2.56
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.56
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	3	2.56
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	9	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'	7	2.56
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	3	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	4	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	5	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	6	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	7	2.56
(2,8)	1:1:A:G:H3'	1:1:A:G:H1'	8	2.56
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	2	2.56
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	3	2.56
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	9	2.56
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	8	2.56
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	6	2.56
(1,119)	1:10:A:C:H3'	1:10:A:C:H1'	2	2.56
(1,89)	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)
(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'	10	2.56
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	3	2.56
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	3	2.56
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	4	2.56
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	5	2.56
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	6	2.56
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	7	2.56
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	10	2.56
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	3	2.56
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	2	2.56
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	3	2.56
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	4	2.56
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	8	2.56
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	9	2.56
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	10	2.56
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	3	2.56
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	9	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'	7	2.56
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	10	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	3	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	4	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	5	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	6	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	7	2.56
(1,8)	1:1:A:G:H3'	1:1:A:G:H1'	8	2.56
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	1	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	4	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	8	2.55
(3,103)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.55
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	3	2.55
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	5	2.55
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	6	2.55
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	7	2.55
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	9	2.55
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	4	2.55
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	1	2.55
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	3	2.55
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	4	2.55
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	5	2.55
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	7	2.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	1	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	4	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	8	2.55
(2,155)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.55
(2,140)	1:12:A:G:H3'	1:12:A:G:H1'	1	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'	9	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'	1	2.55
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	5	2.55
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	6	2.55
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	9	2.55
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	3	2.55
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	5	2.55
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	6	2.55
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	7	2.55
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	9	2.55
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	8	2.55
(2,39)	1:4:A:A:H3'	1:4:A:A:H1'	6	2.55
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	4	2.55
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	1	2.55
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	3	2.55
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	4	2.55
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	5	2.55
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	7	2.55
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	4	2.55
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	5	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
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	1	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	4	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	8	2.55
(1,160)	1:13:A:C:H3'	1:13:A:C:H1'	10	2.55
(1,145)	1:12:A:G:H3'	1:12:A:G:H1'	1	2.55
(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

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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'	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'	9	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'	1	2.55
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	5	2.55
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	6	2.55
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	9	2.55
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	3	2.55
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	5	2.55
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	6	2.55
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	7	2.55
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	9	2.55
(1,76)	1:7:A:U:H3'	1:7:A:U:H1'	1	2.55
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	8	2.55
(1,40)	1:4:A:A:H3'	1:4:A:A:H1'	6	2.55
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	4	2.55
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	1	2.55
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	3	2.55
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	4	2.55
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	5	2.55
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	7	2.55
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	4	2.55
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	5	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
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	4	2.54
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	8	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'	7	2.54
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	4	2.54
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	5	2.54
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	7	2.54
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	1	2.54
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	2	2.54
(3,62)	1:8:A:U:H3'	1:8:A:U:H1'	8	2.54
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	1	2.54
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	10	2.54
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	5	2.54
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	10	2.54
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	7	2.54

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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'	9	2.54
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	4	2.54
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	8	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'	7	2.54
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	4	2.54
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	5	2.54
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	7	2.54
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	2	2.54
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	3	2.54
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	4	2.54
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	7	2.54
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	8	2.54
(2,127)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.54
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	1	2.54
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	2	2.54
(2,85)	1:8:A:U:H3'	1:8:A:U:H1'	8	2.54
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	1	2.54
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	10	2.54
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	6	2.54
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	10	2.54
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	5	2.54
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	10	2.54
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	3	2.54
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	4	2.54
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	7	2.54
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	9	2.54
(2,48)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.54
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	7	2.54
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	9	2.54
(2,13)	1:1:A:G:H4'	1:1:A:G:H2'	3	2.54
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	4	2.54
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	8	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'	7	2.54
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	4	2.54
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	5	2.54
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	7	2.54
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	2	2.54
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	3	2.54
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	4	2.54
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	7	2.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	8	2.54
(1,132)	1:11:A:U:H3'	1:11:A:U:H1'	10	2.54
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	1	2.54
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	2	2.54
(1,89)	1:8:A:U:H3'	1:8:A:U:H1'	8	2.54
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	1	2.54
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	10	2.54
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	6	2.54
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	10	2.54
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	5	2.54
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	10	2.54
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	3	2.54
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	4	2.54
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	7	2.54
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	9	2.54
(1,50)	1:5:A:G:H3'	1:5:A:G:H1'	10	2.54
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	7	2.54
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	9	2.54
(1,13)	1:1:A:G:H4'	1:1:A:G:H2'	3	2.54
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	1	2.53
(3,91)	1:12:A:G:H2'	1:13:A:C:H1'	10	2.53
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	1	2.53
(2,136)	1:12:A:G:H2'	1:13:A:C:H1'	10	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'	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'	8	2.53
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	1	2.53
(1,142)	1:12:A:G:H2'	1:13:A:C:H1'	10	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'	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'	8	2.53
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	10	2.52
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	10	2.52
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	5	2.52
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	1	2.52
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	1	2.52
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	4	2.52
(2,166)	1:14:A:C:H3'	1:14:A:C:H1'	6	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	10	2.52
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	10	2.52
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	5	2.52
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	7	2.52
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	9	2.52
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	1	2.52
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	1	2.52
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	4	2.52
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	6	2.52
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	10	2.52
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	10	2.52
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	5	2.52
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	7	2.52
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	9	2.52
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	1	2.52
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	8	2.51
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	3	2.51
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	2	2.51
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	5	2.51
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	6	2.51
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.51
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	2	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'	5	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'	8	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
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	8	2.51
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	3	2.51
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	2	2.51
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	5	2.51
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	6	2.51
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.51
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	2	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'	5	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'	8	2.51
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	9	2.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,171)	1:14:A:C:H3'	1:14:A:C:H1'	10	2.51
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	8	2.51
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	3	2.51
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	2	2.51
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	5	2.51
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	6	2.51
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	10	2.51
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	2	2.51
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	3	2.5
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	9	2.5
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	3	2.5
(3,81)	1:10:A:C:H3'	1:10:A:C:H6	8	2.5
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	5	2.5
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	2	2.5
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	6	2.5
(3,20)	1:3:A:C:H3'	1:3:A:C:H1'	8	2.5
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	3	2.5
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	3	2.5
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	9	2.5
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	3	2.5
(2,116)	1:10:A:C:H3'	1:10:A:C:H6	8	2.5
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	3	2.5
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.5
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	5	2.5
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	2	2.5
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	6	2.5
(2,29)	1:3:A:C:H3'	1:3:A:C:H1'	8	2.5
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	3	2.5
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	3	2.5
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	9	2.5
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	3	2.5
(1,120)	1:10:A:C:H3'	1:10:A:C:H6	8	2.5
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	3	2.5
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	10	2.5
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	5	2.5
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	2	2.5
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	6	2.5
(1,30)	1:3:A:C:H3'	1:3:A:C:H1'	8	2.5
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	3	2.5
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	6	2.49
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	5	2.49
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	8	2.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	5	2.49
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	1	2.49
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	2	2.49
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	8	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	5	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	7	2.49
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	9	2.49
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	6	2.49
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	5	2.49
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	8	2.49
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	1	2.49
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	4	2.49
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	5	2.49
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	6	2.49
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	7	2.49
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	8	2.49
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	5	2.49
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	1	2.49
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	2	2.49
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	8	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	5	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	7	2.49
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	9	2.49
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	6	2.49
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	8	2.49
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	5	2.49
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	8	2.49
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	2	2.49
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	1	2.49
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	4	2.49
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	5	2.49
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	6	2.49
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	7	2.49
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	8	2.49
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	5	2.49
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	1	2.49
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	2	2.49
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	8	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	5	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	6	2.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	7	2.49
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	9	2.49
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	1	2.48
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	9	2.48
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	8	2.48
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	1	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	10	2.48
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	1	2.48
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	9	2.48
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	9	2.48
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	8	2.48
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	1	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	10	2.48
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	1	2.48
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	9	2.48
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	9	2.48
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	8	2.48
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	1	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	10	2.48
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	8	2.47
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	6	2.47
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	4	2.47
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	4	2.47
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	7	2.47
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	2	2.47
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	4	2.47
(3,5)	1:1:A:G:H2'	1:1:A:G:H8	8	2.47
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	8	2.47
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	6	2.47
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	4	2.47
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	4	2.47
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	7	2.47
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	2	2.47
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	2	2.47
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	4	2.47
(2,5)	1:1:A:G:H2'	1:1:A:G:H8	8	2.47
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	8	2.47
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	6	2.47
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	4	2.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	4	2.47
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	7	2.47
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	2	2.47
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	2	2.47
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	4	2.47
(1,5)	1:1:A:G:H2'	1:1:A:G:H8	8	2.47
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	2	2.46
(3,100)	1:13:A:C:H2'	1:13:A:C:H6	2	2.46
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	2	2.46
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	4	2.46
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	3	2.46
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	4	2.46
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	10	2.46
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	6	2.46
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	2	2.46
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	2	2.46
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	8	2.46
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	2	2.46
(2,151)	1:13:A:C:H2'	1:13:A:C:H6	2	2.46
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	2	2.46
(2,99)	1:9:A:G:H3'	1:9:A:G:H1'	2	2.46
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	4	2.46
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	3	2.46
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	4	2.46
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	10	2.46
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	6	2.46
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	2	2.46
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	2	2.46
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	8	2.46
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	2	2.46
(1,156)	1:13:A:C:H2'	1:13:A:C:H6	2	2.46
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	2	2.46
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	5	2.46
(1,102)	1:9:A:G:H3'	1:9:A:G:H1'	2	2.46
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	4	2.46
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	3	2.46
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	4	2.46
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	10	2.46
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	6	2.46
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	2	2.46
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	2	2.46
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	8	2.46

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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	7	2.45
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	6	2.45
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	4	2.45
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	5	2.45
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	10	2.45
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	9	2.45
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	6	2.45
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	7	2.45
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	8	2.45
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	7	2.45
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	3	2.45
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	7	2.45
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	7	2.45
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	6	2.45
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	4	2.45
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	5	2.45
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	10	2.45
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	9	2.45
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	6	2.45
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	7	2.45
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	8	2.45
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	7	2.45
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	3	2.45
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	7	2.45
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	7	2.45
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	6	2.45
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	4	2.45
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	5	2.45
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	10	2.45
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	9	2.45
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	6	2.45
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	7	2.45
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	8	2.45
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	7	2.45
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	3	2.45
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	7	2.45
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	4	2.44
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	5	2.44
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	10	2.44
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	2	2.44
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	7	2.44
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	1	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	5	2.44
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	6	2.44
(2,72)	1:7:A:U:H2'	1:8:A:U:H6	3	2.44
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	4	2.44
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	5	2.44
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	10	2.44
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	2	2.44
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	7	2.44
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	1	2.44
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	5	2.44
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	6	2.44
(1,75)	1:7:A:U:H2'	1:8:A:U:H6	3	2.44
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	4	2.44
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	5	2.44
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	10	2.44
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	2	2.44
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	7	2.44
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	1	2.44
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	5	2.44
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	6	2.44
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	1	2.43
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	3	2.43
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	10	2.43
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	10	2.43
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	7	2.43
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	4	2.43
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	6	2.43
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	8	2.43
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	9	2.43
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	1	2.43
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	3	2.43
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	10	2.43
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	10	2.43
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	7	2.43
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	4	2.43
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	6	2.43
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	8	2.43
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	9	2.43
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	1	2.43
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	3	2.43
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	10	2.43
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	10	2.43

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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	2.43
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	4	2.43
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	6	2.43
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	8	2.43
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	9	2.43
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	2	2.42
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	7	2.42
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	9	2.42
(3,16)	1:2:A:G:H5''	1:2:A:G:H8	10	2.42
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	2	2.42
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	7	2.42
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	9	2.42
(2,23)	1:2:A:G:H5''	1:2:A:G:H8	10	2.42
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	2	2.42
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	7	2.42
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	9	2.42
(1,25)	1:2:A:G:H5''	1:2:A:G:H8	10	2.42
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	5	2.41
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	4	2.41
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	7	2.41
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	8	2.41
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	9	2.41
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	8	2.41
(3,58)	1:7:A:U:H5	1:6:A:C:H1'	2	2.41
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	1	2.41
(3,50)	1:6:A:C:H5''	1:6:A:C:H6	3	2.41
(3,40)	1:6:A:C:H1'	1:7:A:U:H5	2	2.41
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	5	2.41
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	4	2.41
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	7	2.41
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	8	2.41
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	9	2.41
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	8	2.41
(2,78)	1:7:A:U:H5	1:6:A:C:H1'	2	2.41
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	1	2.41
(2,66)	1:6:A:C:H5''	1:6:A:C:H6	3	2.41
(2,55)	1:6:A:C:H1'	1:7:A:U:H5	2	2.41
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	5	2.41
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	4	2.41
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	7	2.41
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	9	2.41
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	8	2.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	9	2.41
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	8	2.41
(1,82)	1:7:A:U:H5	1:6:A:C:H1'	2	2.41
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	1	2.41
(1,69)	1:6:A:C:H5''	1:6:A:C:H6	3	2.41
(1,57)	1:6:A:C:H1'	1:7:A:U:H5	2	2.41
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	8	2.4
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	9	2.4
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	3	2.4
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.4
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	3	2.4
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	1	2.4
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	6	2.4
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	8	2.4
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	9	2.4
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	3	2.4
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.4
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	3	2.4
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	1	2.4
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	6	2.4
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	8	2.4
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	9	2.4
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	3	2.4
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	10	2.4
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	3	2.4
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	1	2.4
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	6	2.4
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	6	2.39
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	4	2.39
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	5	2.39
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	6	2.39
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	4	2.39
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	5	2.39
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	5	2.39
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	6	2.39
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	4	2.39
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	5	2.39
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	3	2.39
(3,96)	1:12:A:G:H5''	1:12:A:G:H8	3	2.38
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	4	2.38
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	10	2.38
(2,147)	1:12:A:G:H5''	1:12:A:G:H8	3	2.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	4	2.38
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	10	2.38
(1,152)	1:12:A:G:H5''	1:12:A:G:H8	3	2.38
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	4	2.38
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	10	2.38
(3,60)	1:7:A:U:H5''	1:7:A:U:H6	2	2.37
(3,59)	1:7:A:U:H5'	1:7:A:U:H6	9	2.37
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	7	2.37
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	3	2.37
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	9	2.37
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	8	2.37
(2,81)	1:7:A:U:H5''	1:7:A:U:H6	2	2.37
(2,80)	1:7:A:U:H5'	1:7:A:U:H6	9	2.37
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	7	2.37
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	3	2.37
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	9	2.37
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	8	2.37
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	6	2.37
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	8	2.37
(1,85)	1:7:A:U:H5''	1:7:A:U:H6	2	2.37
(1,84)	1:7:A:U:H5'	1:7:A:U:H6	9	2.37
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	7	2.37
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	3	2.37
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	9	2.37
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	8	2.37
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	5	2.37
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	1	2.36
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	7	2.36
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	3	2.36
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	5	2.36
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	2	2.36
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	1	2.36
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	7	2.36
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	3	2.36
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	5	2.36
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	2	2.36
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	1	2.36
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	7	2.36
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	3	2.36
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	5	2.36
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	2	2.36
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	6	2.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	10	2.36
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	5	2.35
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	2	2.35
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	2	2.35
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	3	2.35
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	8	2.35
(3,42)	1:6:A:C:H1'	1:8:A:U:H5	9	2.35
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	1	2.35
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	5	2.35
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	2	2.35
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	2	2.35
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	3	2.35
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	8	2.35
(2,57)	1:6:A:C:H1'	1:8:A:U:H5	9	2.35
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	1	2.35
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	5	2.35
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	2	2.35
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	2	2.35
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	3	2.35
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	8	2.35
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	3	2.35
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	9	2.35
(1,59)	1:6:A:C:H1'	1:8:A:U:H5	9	2.35
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	1	2.35
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	2	2.35
(3,26)	1:4:A:A:H2'	1:4:A:A:H8	2	2.34
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	2	2.34
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	2	2.34
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	2	2.34
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	4	2.34
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	7	2.34
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	2	2.34
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	8	2.34
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	10	2.33
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	8	2.33
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	1	2.33
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	4	2.33
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	7	2.33
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	9	2.32
(3,107)	1:13:A:C:H4'	1:13:A:C:H6	10	2.31
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	9	2.31
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	5	2.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,159)	1:13:A:C:H4'	1:13:A:C:H6	10	2.31
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	9	2.31
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	5	2.31
(1,164)	1:13:A:C:H4'	1:13:A:C:H6	10	2.31
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	3	2.31
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	9	2.31
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	5	2.31
(3,109)	1:13:A:C:H5''	1:13:A:C:H6	10	2.3
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	9	2.3
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	6	2.3
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	6	2.3
(3,22)	1:3:A:C:H4'	1:3:A:C:H6	10	2.3
(2,162)	1:13:A:C:H5''	1:13:A:C:H6	10	2.3
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	9	2.3
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	6	2.3
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	6	2.3
(2,31)	1:3:A:C:H4'	1:3:A:C:H6	10	2.3
(1,167)	1:13:A:C:H5''	1:13:A:C:H6	10	2.3
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	1	2.3
(1,110)	1:9:A:G:H5'	1:9:A:G:H8	3	2.3
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	9	2.3
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	6	2.3
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	6	2.3
(1,32)	1:3:A:C:H4'	1:3:A:C:H6	10	2.3
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	7	2.29
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	4	2.29
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	7	2.29
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	6	2.29
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	4	2.29
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	7	2.29
(1,14)	1:1:A:G:H4'	1:1:A:G:H8	9	2.29
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	4	2.28
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	6	2.28
(3,70)	1:9:A:G:H1'	1:10:A:C:H1'	5	2.28
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	5	2.28
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	7	2.28
(2,95)	1:9:A:G:H1'	1:10:A:C:H1'	5	2.28
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	5	2.28
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	7	2.28
(1,98)	1:9:A:G:H1'	1:10:A:C:H1'	5	2.28
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	5	2.28
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	9	2.27

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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	8	2.27
(3,23)	1:3:A:C:H5''	1:3:A:C:H6	10	2.27
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	9	2.27
(2,36)	1:4:A:A:H2'	1:4:A:A:H8	8	2.27
(2,33)	1:3:A:C:H5''	1:3:A:C:H6	10	2.27
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	9	2.27
(1,37)	1:4:A:A:H2'	1:4:A:A:H8	8	2.27
(1,34)	1:3:A:C:H5''	1:3:A:C:H6	10	2.27
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	1	2.26
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	3	2.26
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	8	2.26
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	4	2.26
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	10	2.26
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	4	2.26
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	10	2.26
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	9	2.26
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	4	2.26
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	10	2.26
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	9	2.26
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	5	2.26
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	5	2.25
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	1	2.25
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	1	2.25
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	4	2.25
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	1	2.25
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	4	2.25
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	2	2.24
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	7	2.24
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	9	2.24
(3,113)	1:14:A:C:H2'	1:14:A:C:H6	10	2.24
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	7	2.24
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	6	2.24
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	7	2.24
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	5	2.24
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	6	2.24
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	10	2.24
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	6	2.24
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	7	2.24
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	7	2.24
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	5	2.24
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	6	2.24
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	10	2.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	6	2.24
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	7	2.24
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	2	2.23
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	8	2.23
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	2	2.23
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	8	2.23
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	2	2.23
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	1	2.22
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	9	2.22
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	7	2.22
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	1	2.22
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	9	2.22
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	7	2.22
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	1	2.22
(3,82)	1:10:A:C:H3'	1:11:A:U:H6	6	2.21
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	4	2.21
(2,118)	1:10:A:C:H3'	1:11:A:U:H6	6	2.21
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	1	2.21
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	4	2.21
(1,122)	1:10:A:C:H3'	1:11:A:U:H6	6	2.21
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	1	2.21
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	4	2.21
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	2	2.21
(3,32)	1:4:A:A:H5''	1:4:A:A:H8	3	2.2
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	10	2.2
(2,43)	1:4:A:A:H5''	1:4:A:A:H8	3	2.2
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	1	2.2
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	10	2.2
(1,45)	1:4:A:A:H5''	1:4:A:A:H8	3	2.2
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	10	2.19
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	10	2.18
(2,109)	1:9:A:G:H5''	1:9:A:G:H8	3	2.18
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	10	2.18
(1,127)	1:10:A:C:H5''	1:10:A:C:H5	4	2.18
(1,113)	1:9:A:G:H5''	1:9:A:G:H8	3	2.18
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	10	2.18
(3,68)	1:8:A:U:H5''	1:8:A:U:H6	4	2.17
(2,93)	1:8:A:U:H5''	1:8:A:U:H6	4	2.17
(1,96)	1:8:A:U:H5''	1:8:A:U:H6	4	2.17
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	6	2.16
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	2	2.16
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	6	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	2	2.16
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	6	2.16
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	2	2.16
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	2	2.15
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	3	2.15
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	4	2.15
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	6	2.15
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	2	2.15
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	3	2.15
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	4	2.15
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	6	2.15
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	2	2.15
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	3	2.15
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	4	2.15
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	6	2.15
(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	7	2.14
(3,13)	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	1	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	7	2.14
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	8	2.14
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	6	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	7	2.14
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	8	2.14
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	3	2.13
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	7	2.13
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	7	2.13
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	5	2.13
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	10	2.13
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	3	2.13
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	7	2.13
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	7	2.13
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	1	2.13
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	3	2.13
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	7	2.13
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	5	2.13
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	10	2.13
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	3	2.13
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	7	2.13
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	7	2.13
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	1	2.13

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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	3	2.13
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	7	2.13
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	5	2.13
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	10	2.13
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	9	2.12
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	10	2.12
(3,13)	1:2:A:G:H4'	1:2:A:G:H8	9	2.12
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	9	2.12
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	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	6	2.12
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	10	2.12
(2,19)	1:2:A:G:H4'	1:2:A:G:H8	9	2.12
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	9	2.12
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	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	6	2.12
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	10	2.12
(1,22)	1:2:A:G:H4'	1:2:A:G:H8	9	2.12
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	1	2.11
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	1	2.11
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	6	2.11
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	2	2.11
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	8	2.11
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	9	2.11
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	1	2.11
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	1	2.11
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	6	2.11
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	2	2.11
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	8	2.11
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	9	2.11
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	1	2.11
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	1	2.1
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	6	2.1
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	6	2.1
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	6	2.1
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	5	2.1
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	4	2.1
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	5	2.1
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	1	2.1
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	6	2.1
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	6	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	6	2.1
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	5	2.1
(2,73)	1:7:A:U:H3'	1:7:A:U:H6	5	2.1
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	4	2.1
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	5	2.1
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	1	2.1
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	6	2.1
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	6	2.1
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	6	2.1
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	5	2.1
(1,77)	1:7:A:U:H3'	1:7:A:U:H6	5	2.1
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	4	2.1
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	4	2.1
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	5	2.1
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	2	2.09
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	3	2.09
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	7	2.09
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	2	2.09
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	3	2.09
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	7	2.09
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	2	2.09
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	3	2.09
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	7	2.09
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	7	2.08
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	10	2.08
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	7	2.08
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	8	2.08
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	8	2.08
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	7	2.08
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	10	2.08
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	7	2.08
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	8	2.08
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	8	2.08
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	7	2.08
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	10	2.08
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	7	2.08
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	8	2.08
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	8	2.08
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	6	2.07
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	10	2.07
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	6	2.07
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	10	2.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	9	2.07
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	3	2.07
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	6	2.07
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	10	2.07
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	2	2.07
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	6	2.07
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	10	2.07
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	9	2.07
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	3	2.07
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	6	2.07
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	10	2.07
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	2	2.07
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	6	2.07
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	10	2.07
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	9	2.07
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	7	2.06
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	3	2.06
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	7	2.06
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	8	2.06
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	4	2.06
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	5	2.06
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	8	2.06
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	7	2.06
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	3	2.06
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	7	2.06
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	8	2.06
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	4	2.06
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	5	2.06
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	8	2.06
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	7	2.06
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	3	2.06
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	7	2.06
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	8	2.06
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	4	2.06
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	5	2.06
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	8	2.06
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	2	2.05
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	4	2.05
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	7	2.05
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	2	2.05
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	6	2.05
(3,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	2	2.05
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	4	2.05
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	7	2.05
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	2	2.05
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	6	2.05
(2,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.05
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	2	2.05
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	4	2.05
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	1	2.05
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	7	2.05
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	2	2.05
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	6	2.05
(1,2)	1:1:A:G:H1'	1:2:A:G:H1'	10	2.05
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	1	2.04
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	1	2.04
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	8	2.04
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	1	2.04
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	8	2.04
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	1	2.03
(3,64)	1:8:A:U:H4'	1:8:A:U:H6	9	2.03
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	1	2.03
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	1	2.03
(2,88)	1:8:A:U:H4'	1:8:A:U:H6	9	2.03
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	9	2.03
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	1	2.03
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	1	2.03
(1,91)	1:8:A:U:H4'	1:8:A:U:H6	9	2.03
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	9	2.03
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	1	2.03
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	3	2.02
(3,37)	1:5:A:G:H4'	1:5:A:G:H8	9	2.02
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	3	2.02
(2,51)	1:5:A:G:H4'	1:5:A:G:H8	9	2.02
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	3	2.02
(1,53)	1:5:A:G:H4'	1:5:A:G:H8	9	2.02
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	3	2.01
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	3	2.01
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	8	2.0
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	2	2.0
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	9	2.0
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	8	2.0
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	2	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	9	2.0
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	8	2.0
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	2	2.0
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	9	2.0
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	5	1.99
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	8	1.99
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	5	1.99
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	8	1.99
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	5	1.99
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	5	1.99
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	8	1.99
(1,68)	1:6:A:C:H5'	1:7:A:U:H5	10	1.99
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	5	1.99
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	5	1.98
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	10	1.98
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	3	1.98
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	6	1.98
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	7	1.98
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	1	1.98
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	5	1.98
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	5	1.98
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	10	1.98
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	1	1.98
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	3	1.98
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	6	1.98
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	7	1.98
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	7	1.98
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	1	1.98
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	5	1.98
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	1	1.98
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	2	1.98
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	8	1.98
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	5	1.98
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	10	1.98
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	1	1.98
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	3	1.98
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	6	1.98
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	7	1.98
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	7	1.98
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	1	1.98
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	5	1.98
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	1	1.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	2	1.98
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	8	1.98
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.97
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	10	1.97
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	8	1.97
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.97
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	5	1.97
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	10	1.97
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	6	1.97
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	10	1.97
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	8	1.97
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	10	1.97
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	5	1.97
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	10	1.97
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	6	1.97
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	10	1.97
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	1	1.96
(3,77)	1:9:A:G:H5'	1:9:A:G:H2'	4	1.96
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	1	1.96
(2,105)	1:9:A:G:H5'	1:9:A:G:H2'	4	1.96
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	1	1.96
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	4	1.96
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	1	1.96
(1,108)	1:9:A:G:H5'	1:9:A:G:H2'	4	1.96
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	1	1.96
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	4	1.96
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	7	1.95
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	5	1.95
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	5	1.95
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	6	1.95
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	7	1.95
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	7	1.95
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	10	1.95
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	5	1.95
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	5	1.95
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	6	1.95
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	7	1.95
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	7	1.95
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	10	1.95
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	4	1.94
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	6	1.94
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	4	1.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	4	1.94
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	6	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	6	1.94
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	7	1.94
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	10	1.94
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	3	1.94
(2,61)	1:6:A:C:H3'	1:6:A:C:H6	9	1.94
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	4	1.94
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	4	1.94
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	6	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	6	1.94
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	7	1.94
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	10	1.94
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	3	1.94
(1,63)	1:6:A:C:H3'	1:6:A:C:H6	9	1.94
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	8	1.93
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	3	1.93
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	8	1.93
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	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	8	1.93
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	8	1.93
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	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	8	1.93
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	4	1.92
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	8	1.92
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	8	1.92
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	9	1.92
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	2	1.92
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	4	1.92
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	8	1.92
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	8	1.92
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	9	1.92
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	2	1.92
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	2	1.92
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	3	1.92
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	4	1.92
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	8	1.92
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	8	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	9	1.92
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	2	1.92
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	2	1.92
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	3	1.92
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	4	1.91
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	5	1.91
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	8	1.91
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	4	1.91
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	5	1.91
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	9	1.91
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	4	1.91
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	8	1.91
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	5	1.91
(2,69)	1:7:A:U:H2'	1:7:A:U:H5	9	1.91
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	6	1.91
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	4	1.91
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	5	1.91
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	9	1.91
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	4	1.91
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	8	1.91
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	5	1.91
(1,72)	1:7:A:U:H2'	1:7:A:U:H5	9	1.91
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	6	1.91
(3,98)	1:13:A:C:H1'	1:14:A:C:H5	4	1.9
(3,66)	1:8:A:U:H5'	1:7:A:U:H1'	3	1.9
(3,57)	1:7:A:U:H4'	1:7:A:U:H6	9	1.9
(2,149)	1:13:A:C:H1'	1:14:A:C:H5	4	1.9
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	2	1.9
(2,90)	1:8:A:U:H5'	1:7:A:U:H1'	3	1.9
(2,77)	1:7:A:U:H4'	1:7:A:U:H6	9	1.9
(1,154)	1:13:A:C:H1'	1:14:A:C:H5	4	1.9
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	2	1.9
(1,93)	1:8:A:U:H5'	1:7:A:U:H1'	3	1.9
(1,81)	1:7:A:U:H4'	1:7:A:U:H6	9	1.9
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	6	1.89
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	9	1.89
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	6	1.89
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	5	1.89
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	6	1.89
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	9	1.89
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	8	1.89
(2,86)	1:8:A:U:H3'	1:8:A:U:H6	10	1.89

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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	1.89
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	3	1.89
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	5	1.89
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	6	1.89
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	9	1.89
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	8	1.89
(1,90)	1:8:A:U:H3'	1:8:A:U:H6	10	1.89
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	6	1.89
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	3	1.89
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	5	1.89
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	3	1.88
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	3	1.88
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	7	1.88
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	10	1.88
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	3	1.88
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	3	1.88
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	7	1.88
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	10	1.88
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	3	1.88
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	1	1.87
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	1	1.87
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	1	1.87
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	6	1.87
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	1	1.87
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	1	1.87
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	6	1.87
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	1	1.87
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	5	1.86
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	5	1.86
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	7	1.86
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.86
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	4	1.86
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	5	1.86
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	5	1.86
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	7	1.86
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.86
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	8	1.86
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	5	1.86
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	4	1.86
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	5	1.86
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	5	1.86
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	7	1.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	10	1.86
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	8	1.86
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	5	1.86
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	4	1.86
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	3	1.85
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	7	1.85
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	9	1.85
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	3	1.85
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	8	1.85
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.85
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	7	1.85
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	9	1.85
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	1	1.85
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	3	1.85
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	8	1.85
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	10	1.85
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	7	1.85
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	9	1.85
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	8	1.84
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	3	1.84
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	3	1.84
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	2	1.84
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	2	1.84
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.84
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	8	1.84
(2,124)	1:11:A:U:H1'	1:12:A:G:H1'	6	1.84
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	3	1.84
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	3	1.84
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	2	1.84
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	2	1.84
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.84
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	8	1.84
(1,129)	1:11:A:U:H1'	1:12:A:G:H1'	6	1.84
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	3	1.84
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	3	1.84
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	2	1.84
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	2	1.84
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	10	1.84
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	3	1.83
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	4	1.83
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	3	1.83
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	4	1.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	2	1.83
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	3	1.83
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	4	1.83
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	2	1.83
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	7	1.82
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	3	1.82
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	5	1.82
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	9	1.82
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	7	1.82
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	3	1.82
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	5	1.82
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	9	1.82
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	2	1.82
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	5	1.82
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	7	1.82
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	3	1.82
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	5	1.82
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	9	1.82
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	2	1.82
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	9	1.81
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.81
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	1	1.81
(3,31)	1:4:A:A:H5'	1:4:A:A:H1'	8	1.81
(3,3)	1:1:A:G:H1'	1:2:A:G:H8	8	1.81
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	9	1.81
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.81
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	1	1.81
(2,42)	1:4:A:A:H5'	1:4:A:A:H1'	8	1.81
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	3	1.81
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	8	1.81
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	8	1.81
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	9	1.81
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	10	1.81
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	1	1.81
(1,43)	1:4:A:A:H5'	1:4:A:A:H1'	8	1.81
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	3	1.81
(1,3)	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	6	1.8
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.8
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	7	1.8
(2,3)	1:1:A:G:H1'	1:2:A:G:H8	6	1.8
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	10	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	7	1.8
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	10	1.8
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	7	1.8
(1,3)	1:1:A:G:H1'	1:2:A:G:H8	6	1.8
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	7	1.79
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	4	1.79
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	7	1.79
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	2	1.78
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	2	1.78
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	2	1.78
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	3	1.78
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	6	1.78
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	2	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'	4	1.77
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	5	1.77
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	1	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'	4	1.77
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	5	1.77
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	1	1.77
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	7	1.76
(2,114)	1:10:A:C:H2'	1:11:A:U:H6	2	1.76
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	7	1.76
(1,118)	1:10:A:C:H2'	1:11:A:U:H6	2	1.76
(3,89)	1:12:A:G:H1'	1:4:A:A:H2	6	1.75
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	2	1.75
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	2	1.75
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	4	1.75
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	6	1.75
(2,170)	1:14:A:C:H5	1:13:A:C:H5	6	1.75
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	6	1.75
(2,133)	1:12:A:G:H1'	1:4:A:A:H2	6	1.75
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	2	1.75
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	2	1.75
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	2	1.75
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	5	1.75
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	4	1.75
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	6	1.75
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	4	1.75
(1,175)	1:14:A:C:H5	1:13:A:C:H5	6	1.75
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	6	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:12:A:G:H1'	1:4:A:A:H2	6	1.75
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	2	1.75
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	2	1.75
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	2	1.75
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	5	1.75
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	4	1.75
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	6	1.75
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	4	1.75
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	2	1.74
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	3	1.74
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	2	1.74
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	8	1.74
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	3	1.74
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	2	1.74
(1,140)	1:12:A:G:H1'	1:13:A:C:H6	9	1.74
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	8	1.74
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	2	1.73
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	8	1.73
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	1	1.73
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	2	1.73
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	8	1.73
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	1	1.73
(3,83)	1:10:A:C:H5	1:9:A:G:H1'	9	1.72
(3,71)	1:9:A:G:H1'	1:10:A:C:H5	9	1.72
(2,160)	1:13:A:C:H5'	1:13:A:C:H1'	9	1.72
(2,120)	1:10:A:C:H5	1:9:A:G:H1'	9	1.72
(2,96)	1:9:A:G:H1'	1:10:A:C:H5	9	1.72
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	10	1.72
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	9	1.72
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	4	1.72
(1,165)	1:13:A:C:H5'	1:13:A:C:H1'	9	1.72
(1,124)	1:10:A:C:H5	1:9:A:G:H1'	9	1.72
(1,99)	1:9:A:G:H1'	1:10:A:C:H5	9	1.72
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	10	1.72
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	9	1.72
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	4	1.72
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	3	1.71
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	3	1.71
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	6	1.71
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	1	1.71
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	3	1.71
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	6	1.71

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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	1	1.71
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	5	1.7
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	5	1.7
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	3	1.7
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	4	1.7
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	7	1.7
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	10	1.7
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	5	1.7
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	3	1.7
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	4	1.7
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	7	1.7
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	10	1.7
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	1	1.69
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	7	1.69
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	3	1.69
(2,58)	1:6:A:C:H2'	1:6:A:C:H5	9	1.69
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	1	1.69
(2,25)	1:3:A:C:H1'	1:4:A:A:H8	5	1.69
(2,14)	1:1:A:G:H5'	1:1:A:G:H1'	9	1.69
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	7	1.69
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	3	1.69
(1,60)	1:6:A:C:H2'	1:6:A:C:H5	9	1.69
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	1	1.69
(1,27)	1:3:A:C:H1'	1:4:A:A:H8	5	1.69
(1,15)	1:1:A:G:H5'	1:1:A:G:H1'	9	1.69
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	1	1.68
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	8	1.68
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	1	1.68
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	2	1.68
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	4	1.68
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	8	1.68
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	1	1.68
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	2	1.68
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	4	1.68
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	8	1.68
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	1	1.67
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	4	1.67
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	5	1.67
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	6	1.67
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	1	1.67
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	1	1.67
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	4	1.67

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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	1.67
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	6	1.67
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	1	1.67
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	1	1.67
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	8	1.66
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	8	1.66
(2,170)	1:14:A:C:H5	1:13:A:C:H5	4	1.65
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	1	1.65
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	9	1.65
(1,175)	1:14:A:C:H5	1:13:A:C:H5	4	1.65
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	1	1.65
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	9	1.65
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	9	1.64
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	5	1.64
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	9	1.64
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	2	1.64
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.64
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	4	1.64
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	6	1.64
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	7	1.64
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	5	1.64
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	9	1.64
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	2	1.64
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	10	1.64
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	4	1.64
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	6	1.64
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	7	1.64
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	5	1.64
(3,38)	1:5:A:G:H2'	1:6:A:C:H1'	2	1.63
(2,170)	1:14:A:C:H5	1:13:A:C:H5	8	1.63
(2,144)	1:12:A:G:H5'	1:12:A:G:H1'	8	1.63
(2,52)	1:5:A:G:H2'	1:6:A:C:H1'	2	1.63
(1,175)	1:14:A:C:H5	1:13:A:C:H5	8	1.63
(1,149)	1:12:A:G:H5'	1:12:A:G:H1'	8	1.63
(1,54)	1:5:A:G:H2'	1:6:A:C:H1'	2	1.63
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	10	1.62
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	2	1.62
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	10	1.62
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	2	1.62
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	7	1.61
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	7	1.61
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	1	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	3	1.61
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	7	1.61
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	1	1.61
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	3	1.61
(3,101)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.6
(2,152)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.6
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	6	1.6
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	7	1.6
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	4	1.6
(1,157)	1:13:A:C:H2'	1:14:A:C:H1'	10	1.6
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	6	1.6
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	7	1.6
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	4	1.6
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	5	1.59
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	7	1.59
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	8	1.59
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	9	1.59
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	5	1.59
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	7	1.59
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	8	1.59
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	9	1.59
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	5	1.58
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	6	1.58
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	5	1.58
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	6	1.58
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	1	1.57
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	3	1.57
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.57
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	3	1.57
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	2	1.57
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	1	1.57
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	3	1.57
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.57
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	8	1.57
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	1	1.57
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	3	1.57
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	2	1.57
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	1	1.57
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	3	1.57
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	10	1.57
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	8	1.57
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	1	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	4	1.56
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	6	1.56
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	7	1.56
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	1	1.56
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	2	1.56
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	7	1.56
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	8	1.56
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	9	1.56
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.56
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	4	1.56
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	6	1.56
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	7	1.56
(2,79)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.56
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	1	1.56
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	2	1.56
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	7	1.56
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	8	1.56
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	9	1.56
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	10	1.56
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	4	1.56
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	6	1.56
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	7	1.56
(1,83)	1:7:A:U:H5'	1:7:A:U:H1'	10	1.56
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	9	1.55
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	4	1.55
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	5	1.55
(2,107)	1:9:A:G:H5''	1:9:A:G:H1'	6	1.55
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	8	1.55
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	9	1.55
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	9	1.55
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	4	1.55
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	5	1.55
(1,111)	1:9:A:G:H5''	1:9:A:G:H1'	6	1.55
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	8	1.55
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	9	1.55
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	9	1.55
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	8	1.54
(2,101)	1:9:A:G:H3'	1:9:A:G:H8	3	1.54
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	8	1.54
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	3	1.54
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	9	1.54
(1,104)	1:9:A:G:H3'	1:9:A:G:H8	3	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	8	1.54
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	3	1.54
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	9	1.54
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	2	1.53
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	2	1.53
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	2	1.53
(3,65)	1:8:A:U:H4'	1:9:A:G:H1'	5	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	1	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	3	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	4	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	5	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	7	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.52
(2,89)	1:8:A:U:H4'	1:9:A:G:H1'	5	1.52
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	1	1.52
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	3	1.52
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	4	1.52
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	5	1.52
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	7	1.52
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	10	1.52
(1,92)	1:8:A:U:H4'	1:9:A:G:H1'	5	1.52
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	6	1.51
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	8	1.51
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	6	1.51
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	8	1.51
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	9	1.5
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	9	1.5
(2,170)	1:14:A:C:H5	1:13:A:C:H5	3	1.49
(1,175)	1:14:A:C:H5	1:13:A:C:H5	3	1.49
(2,170)	1:14:A:C:H5	1:13:A:C:H5	1	1.48
(2,104)	1:9:A:G:H5'	1:9:A:G:H1'	2	1.48
(1,175)	1:14:A:C:H5	1:13:A:C:H5	1	1.48
(1,107)	1:9:A:G:H5'	1:9:A:G:H1'	2	1.48
(2,170)	1:14:A:C:H5	1:13:A:C:H5	2	1.44
(1,175)	1:14:A:C:H5	1:13:A:C:H5	2	1.44
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	9	1.43
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	9	1.43
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	4	1.41
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	4	1.41
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	4	1.41
(2,170)	1:14:A:C:H5	1:13:A:C:H5	9	1.4
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	2	1.4

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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	9	1.4
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	2	1.4
(2,170)	1:14:A:C:H5	1:13:A:C:H5	5	1.38
(2,170)	1:14:A:C:H5	1:13:A:C:H5	7	1.38
(1,175)	1:14:A:C:H5	1:13:A:C:H5	5	1.38
(1,175)	1:14:A:C:H5	1:13:A:C:H5	7	1.38
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	7	1.37
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	8	1.37
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	3	1.36
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	5	1.35
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	1	1.34
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	2	1.34
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	5	1.34
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	5	1.34
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	4	1.33
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	9	1.33
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	6	1.32
(3,87)	1:11:A:U:H4'	1:12:A:G:H8	10	1.31
(2,170)	1:14:A:C:H5	1:13:A:C:H5	10	1.31
(2,53)	1:5:A:G:H5''	1:6:A:C:H5	1	1.31
(1,175)	1:14:A:C:H5	1:13:A:C:H5	10	1.31
(1,55)	1:5:A:G:H5''	1:6:A:C:H5	1	1.31
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	3	1.3
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	3	1.3
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	2	1.29
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	5	1.29
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	7	1.29
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	2	1.29
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	7	1.29
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	5	1.29
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	7	1.29
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	2	1.29
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	7	1.29
(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'	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'	10	1.24
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	6	1.22
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	6	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'	8	1.22
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	6	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	3	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'	8	1.22
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	9	1.21
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	2	1.2
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	8	1.2
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	9	1.2
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.2
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.2
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	6	1.2
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	10	1.2
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	2	1.2
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	8	1.2
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	9	1.2
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	10	1.2
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	10	1.2
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	1	1.2
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	4	1.2
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	7	1.2
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	1	1.19
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	3	1.19
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	4	1.19
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	5	1.19
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	7	1.19
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	6	1.19
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	1	1.19
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	3	1.19
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	4	1.19
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	5	1.19
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	7	1.19
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	6	1.19
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	5	1.19
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	5	1.18
(2,146)	1:12:A:G:H5''	1:12:A:G:H1'	6	1.18
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	5	1.18
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	1	1.18
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	6	1.18
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	9	1.18
(1,151)	1:12:A:G:H5''	1:12:A:G:H1'	6	1.18
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	5	1.18
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	1	1.18
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	6	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	9	1.18
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	1	1.17
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	3	1.17
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	4	1.17
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	5	1.17
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	7	1.17
(2,32)	1:3:A:C:H5''	1:3:A:C:H1'	9	1.17
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	2	1.17
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	6	1.17
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	8	1.17
(1,44)	1:4:A:A:H5''	1:4:A:A:H1'	10	1.17
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	1	1.17
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	3	1.17
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	4	1.17
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	5	1.17
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	7	1.17
(1,33)	1:3:A:C:H5''	1:3:A:C:H1'	9	1.17
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	8	1.16
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	4	1.16
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	8	1.16
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	2	1.16
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	4	1.16
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	8	1.16
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	3	1.14
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	8	1.14
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	5	1.13
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	7	1.13
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	10	1.12
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	10	1.12
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	5	1.12
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	4	1.12
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	9	1.12
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	10	1.12
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	5	1.12
(2,82)	1:7:A:U:H5''	1:8:A:U:H5	10	1.11
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	4	1.11
(1,86)	1:7:A:U:H5''	1:8:A:U:H5	10	1.11
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	4	1.11
(2,27)	1:3:A:C:H2'	1:3:A:C:H5	1	1.1
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	7	1.09
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	7	1.09
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	2	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	7	1.09
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	2	1.09
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	3	1.07
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	3	1.07
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	9	1.05
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	9	1.05
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	9	1.05
(3,44)	1:6:A:C:H2'	1:8:A:U:H5	3	0.99
(2,60)	1:6:A:C:H2'	1:8:A:U:H5	3	0.99
(1,62)	1:6:A:C:H2'	1:8:A:U:H5	3	0.99
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	2	0.95
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	5	0.95
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	2	0.95
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	5	0.95
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	8	0.94
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	8	0.94
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	3	0.92
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	3	0.92
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	7	0.9
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	7	0.9
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	1	0.89
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	4	0.89
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	6	0.89
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	10	0.89
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	1	0.89
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	4	0.89
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	6	0.89
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	10	0.89
(2,131)	1:11:A:U:H5''	1:11:A:U:H5	9	0.88
(1,136)	1:11:A:U:H5''	1:11:A:U:H5	9	0.88
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	5	0.85
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	5	0.85
(2,44)	1:5:A:G:H1'	1:4:A:A:H1'	8	0.83
(1,46)	1:5:A:G:H1'	1:4:A:A:H1'	8	0.83
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	2	0.77
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	2	0.77
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	4	0.75
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	4	0.75
(3,84)	1:10:A:C:H5	1:11:A:U:H5	6	0.73
(2,121)	1:10:A:C:H5	1:11:A:U:H5	6	0.73
(1,125)	1:10:A:C:H5	1:11:A:U:H5	6	0.73
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	6	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	6	0.72
(3,84)	1:10:A:C:H5	1:11:A:U:H5	10	0.69
(2,121)	1:10:A:C:H5	1:11:A:U:H5	10	0.69
(1,125)	1:10:A:C:H5	1:11:A:U:H5	10	0.69
(3,84)	1:10:A:C:H5	1:11:A:U:H5	1	0.68
(2,121)	1:10:A:C:H5	1:11:A:U:H5	1	0.68
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	10	0.68
(1,125)	1:10:A:C:H5	1:11:A:U:H5	1	0.68
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	10	0.68
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	8	0.65
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	8	0.65
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	7	0.63
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	7	0.63
(3,84)	1:10:A:C:H5	1:11:A:U:H5	2	0.62
(2,121)	1:10:A:C:H5	1:11:A:U:H5	2	0.62
(1,125)	1:10:A:C:H5	1:11:A:U:H5	2	0.62
(3,84)	1:10:A:C:H5	1:11:A:U:H5	7	0.61
(2,121)	1:10:A:C:H5	1:11:A:U:H5	7	0.61
(1,125)	1:10:A:C:H5	1:11:A:U:H5	7	0.61
(3,84)	1:10:A:C:H5	1:11:A:U:H5	4	0.6
(2,121)	1:10:A:C:H5	1:11:A:U:H5	4	0.6
(1,125)	1:10:A:C:H5	1:11:A:U:H5	4	0.6
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	1	0.59
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	1	0.59
(3,84)	1:10:A:C:H5	1:11:A:U:H5	9	0.57
(2,121)	1:10:A:C:H5	1:11:A:U:H5	9	0.57
(1,125)	1:10:A:C:H5	1:11:A:U:H5	9	0.57
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	9	0.52
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	9	0.52
(3,84)	1:10:A:C:H5	1:11:A:U:H5	3	0.51
(3,84)	1:10:A:C:H5	1:11:A:U:H5	5	0.51
(2,121)	1:10:A:C:H5	1:11:A:U:H5	3	0.51
(2,121)	1:10:A:C:H5	1:11:A:U:H5	5	0.51
(1,125)	1:10:A:C:H5	1:11:A:U:H5	3	0.51
(1,125)	1:10:A:C:H5	1:11:A:U:H5	5	0.51
(3,84)	1:10:A:C:H5	1:11:A:U:H5	8	0.5
(2,121)	1:10:A:C:H5	1:11:A:U:H5	8	0.5
(2,92)	1:8:A:U:H5''	1:7:A:U:H1'	3	0.5
(1,125)	1:10:A:C:H5	1:11:A:U:H5	8	0.5
(1,95)	1:8:A:U:H5''	1:7:A:U:H1'	3	0.5
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	2	0.4
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	6	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	2	0.4
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	6	0.4
(2,130)	1:11:A:U:H5	1:10:A:C:H6	3	0.33
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	10	0.33
(1,135)	1:11:A:U:H5	1:10:A:C:H6	3	0.33
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	10	0.33
(2,130)	1:11:A:U:H5	1:10:A:C:H6	7	0.32
(1,135)	1:11:A:U:H5	1:10:A:C:H6	7	0.32
(2,130)	1:11:A:U:H5	1:10:A:C:H6	4	0.31
(2,130)	1:11:A:U:H5	1:10:A:C:H6	9	0.31
(1,135)	1:11:A:U:H5	1:10:A:C:H6	4	0.31
(1,135)	1:11:A:U:H5	1:10:A:C:H6	9	0.31
(2,130)	1:11:A:U:H5	1:10:A:C:H6	5	0.29
(1,135)	1:11:A:U:H5	1:10:A:C:H6	5	0.29
(4,20)	1:4:A:A:N1	1:11:A:U:H3	2	0.26
(4,20)	1:4:A:A:N1	1:11:A:U:H3	10	0.26
(2,130)	1:11:A:U:H5	1:10:A:C:H6	8	0.25
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	1	0.25
(1,135)	1:11:A:U:H5	1:10:A:C:H6	8	0.25
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	1	0.25
(2,130)	1:11:A:U:H5	1:10:A:C:H6	10	0.24
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	5	0.24
(1,135)	1:11:A:U:H5	1:10:A:C:H6	10	0.24
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	5	0.24
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	3	0.22
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	7	0.22
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	8	0.22
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	3	0.22
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	7	0.22
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	8	0.22
(4,20)	1:4:A:A:N1	1:11:A:U:H3	6	0.21
(4,26)	1:10:A:C:H42	1:5:A:G:O6	3	0.2
(4,26)	1:10:A:C:H42	1:5:A:G:O6	4	0.19
(4,20)	1:4:A:A:N1	1:11:A:U:H3	1	0.19
(2,130)	1:11:A:U:H5	1:10:A:C:H6	1	0.19
(2,130)	1:11:A:U:H5	1:10:A:C:H6	2	0.19
(2,130)	1:11:A:U:H5	1:10:A:C:H6	6	0.19
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	9	0.19
(1,135)	1:11:A:U:H5	1:10:A:C:H6	1	0.19
(1,135)	1:11:A:U:H5	1:10:A:C:H6	2	0.19
(1,135)	1:11:A:U:H5	1:10:A:C:H6	6	0.19
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,26)	1:10:A:C:H42	1:5:A:G:O6	6	0.18
(4,26)	1:10:A:C:H42	1:5:A:G:O6	7	0.18
(4,26)	1:10:A:C:H42	1:5:A:G:O6	9	0.18
(4,20)	1:4:A:A:N1	1:11:A:U:H3	4	0.18
(2,112)	1:10:A:C:H2'	1:11:A:U:H1'	4	0.18
(1,116)	1:10:A:C:H2'	1:11:A:U:H1'	4	0.18
(4,26)	1:10:A:C:H42	1:5:A:G:O6	1	0.17
(4,26)	1:10:A:C:H42	1:5:A:G:O6	8	0.17
(4,20)	1:4:A:A:N1	1:11:A:U:H3	8	0.17
(4,20)	1:4:A:A:N1	1:11:A:U:H3	3	0.16
(4,20)	1:4:A:A:N1	1:11:A:U:H3	7	0.16
(4,26)	1:10:A:C:H42	1:5:A:G:O6	2	0.15
(4,20)	1:4:A:A:N1	1:11:A:U:H3	9	0.15
(4,26)	1:10:A:C:H42	1:5:A:G:O6	5	0.14
(4,26)	1:10:A:C:H42	1:5:A:G:O6	10	0.14
(4,20)	1:4:A:A:N1	1:11:A:U:H3	5	0.14

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found