

S9 Table. Total number of hydrogen bonds formed by the nucleotides and the percentage of all hydrogen bonds formed by the given nucleotide using a given face of the nucleobase (H = Hoogsteen, WC = Watson-Crick, S = sugar).

| nucleobase | total interaction count | face | % of all interactions |
|------------|-------------------------|------|-----------------------|
| A | 1089 | H | 22.4% |
| | | WC | 31.2% |
| | | S | 8.9% |
| G | 2306 | H | 41.3% |
| | | WC | 23.4% |
| | | S | 12.6% |
| C | 772 | H | 31.0% |
| | | WC | 63.0% |
| | | S | 19.3% |
| U | 859 | H | 45.6% |
| | | WC | 68.8% |
| | | S | 13.8% |