Table S1. Probabilities of secondary structure transitions, $P^{Sim}(y,x;i)$.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *i* | 2 |  | 11 |  | 19 |
| *x* \ *y* | $$H$$ | $$T$$ | $$G$$ | $$\overbar{HTG}$$ |  | $$H$$ | $$T$$ | $$G$$ | $$\overbar{HTG}$$ |  | $$H$$ | $$T$$ | $$G$$ | $$\overbar{HTG}$$ |
| $$H$$ | 0.91 | 0.04 | 0.03 | 0.02 |  | 0.95 | 0.04 | 0.01 | 0.00 |  | 0.56 | 0.35 | 0.01 | 0.08 |
| $$T$$ | 0.03 | 0.78 | 0.03 | 0.15 |  | 0.10 | 0.72 | 0.07 | 0.11 |  | 0.20 | 0.60 | 0.04 | 0.17 |
| $$G$$ | 0.15 | 0.17 | 0.56 | 0.10 |  | 0.08 | 0.30 | 0.51 | 0.02 |  | 0.05 | 0.30 | 0.49 | 0.14 |
| $$\overbar{HTG}$$ | 0.00 | 0.03 | 0.00 | 0.97 |  | 0.00 | 0.03 | 0.01 | 0.96 |  | 0.01 | 0.02 | 0.00 | 0.97 |