

# Supporting Information for ‘Kilobase Pair Chromatin Fiber Contacts Promoted by Living-System-Like DNA Linker Length Distributions and Nucleosome Depletion’

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## Supplemental Table

	Uniform NRL = 165 bp	SD	Life-Like	SD	Life-like with NFR	SD	Gene-encoding	SD	Gene-encoding $\frac{1}{2}$ LH	SD	Gene-encoding +LH	SD
$i \pm 1$	0.761	0.017	0.761	0.016	0.614	0.018	0.655	0.019	0.649	0.008	0.608	0.010
$i \pm 2$	0.820	0.012	0.778	0.028	0.480	0.011	0.569	0.021	0.696	0.021	0.601	0.028
$i \pm 3$	0.352	0.015	0.354	0.034	0.194	0.010	0.246	0.015	0.250	0.033	0.212	0.040

Table S1: Average number of contacts per simulation summed across 1,000 frames for nucleosome  $i$ , separated by  $k$  nucleosomes, and their respective standard deviations.

## Supplemental Figures

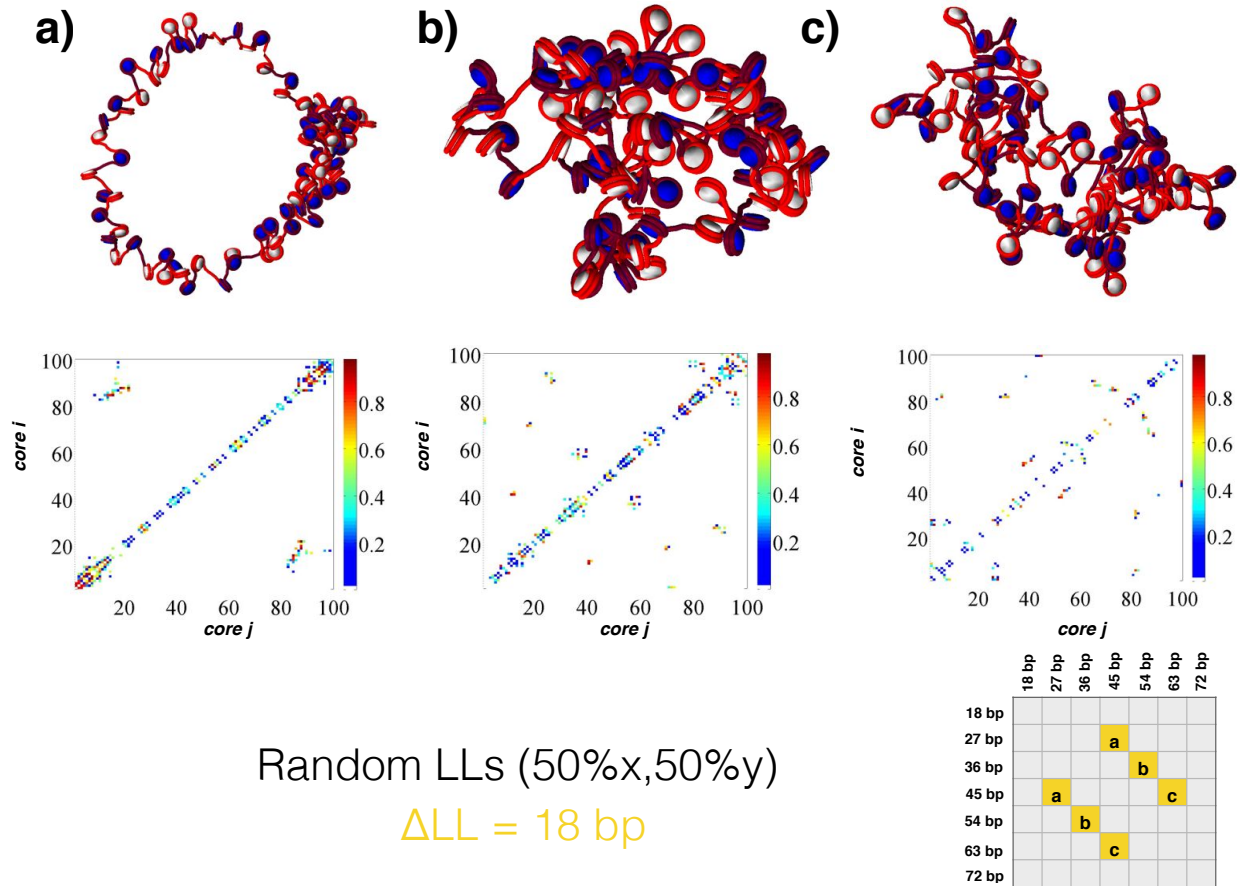


Figure S1

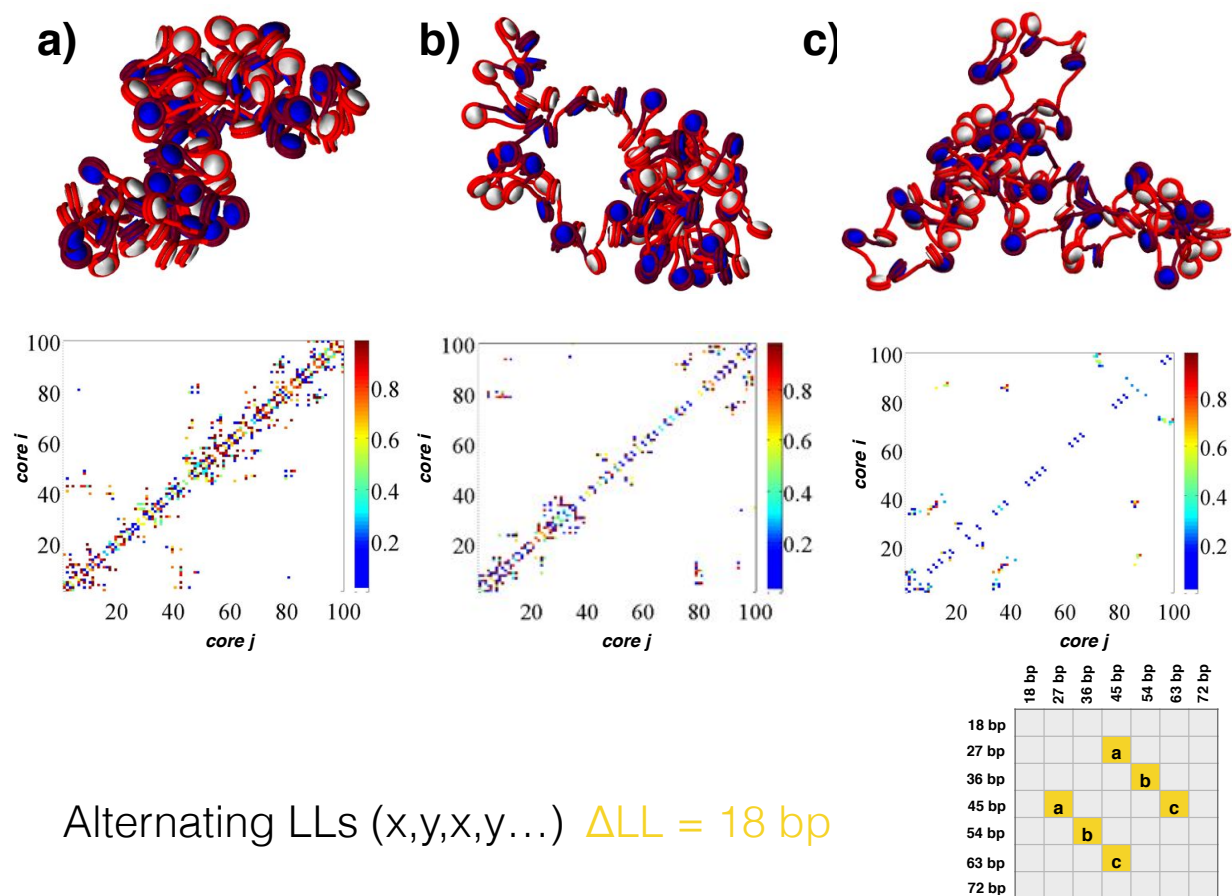


Figure S2

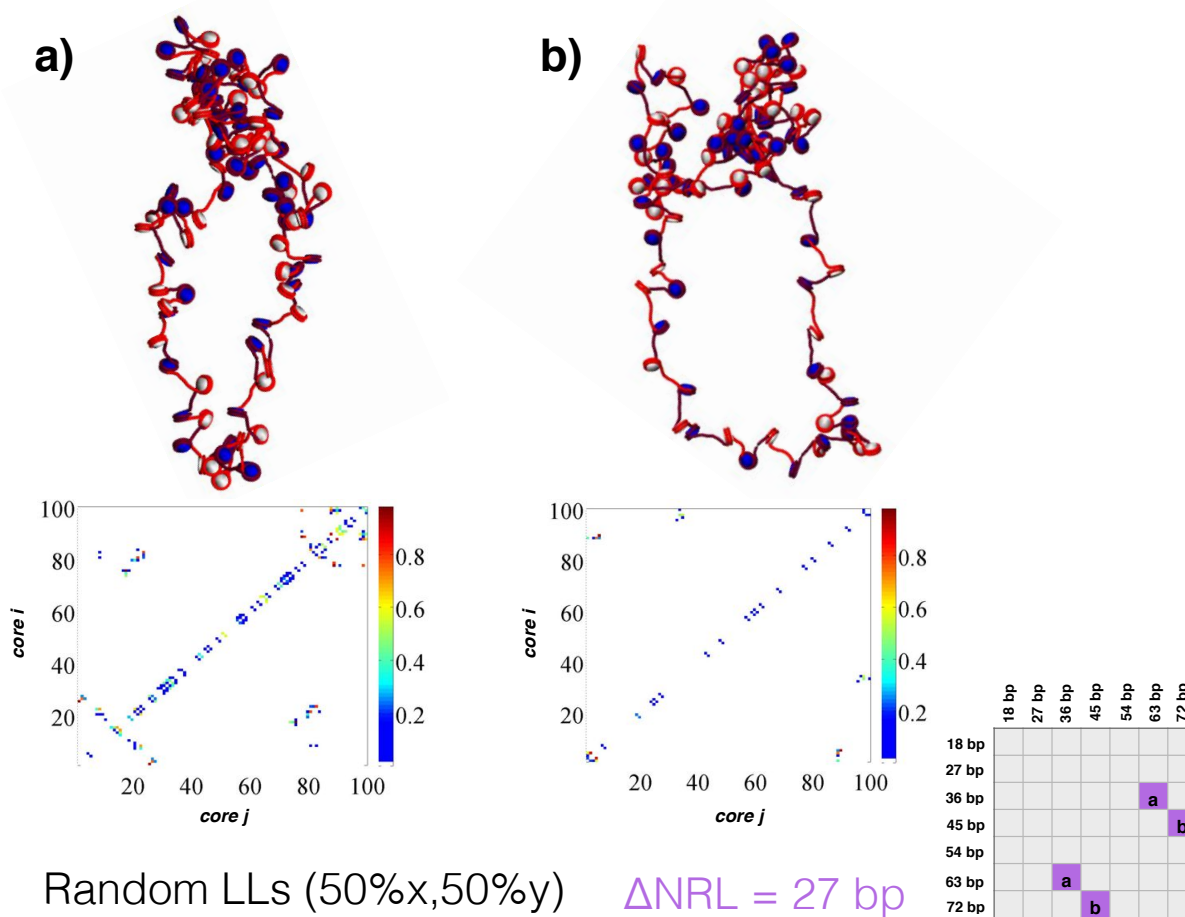


Figure S3

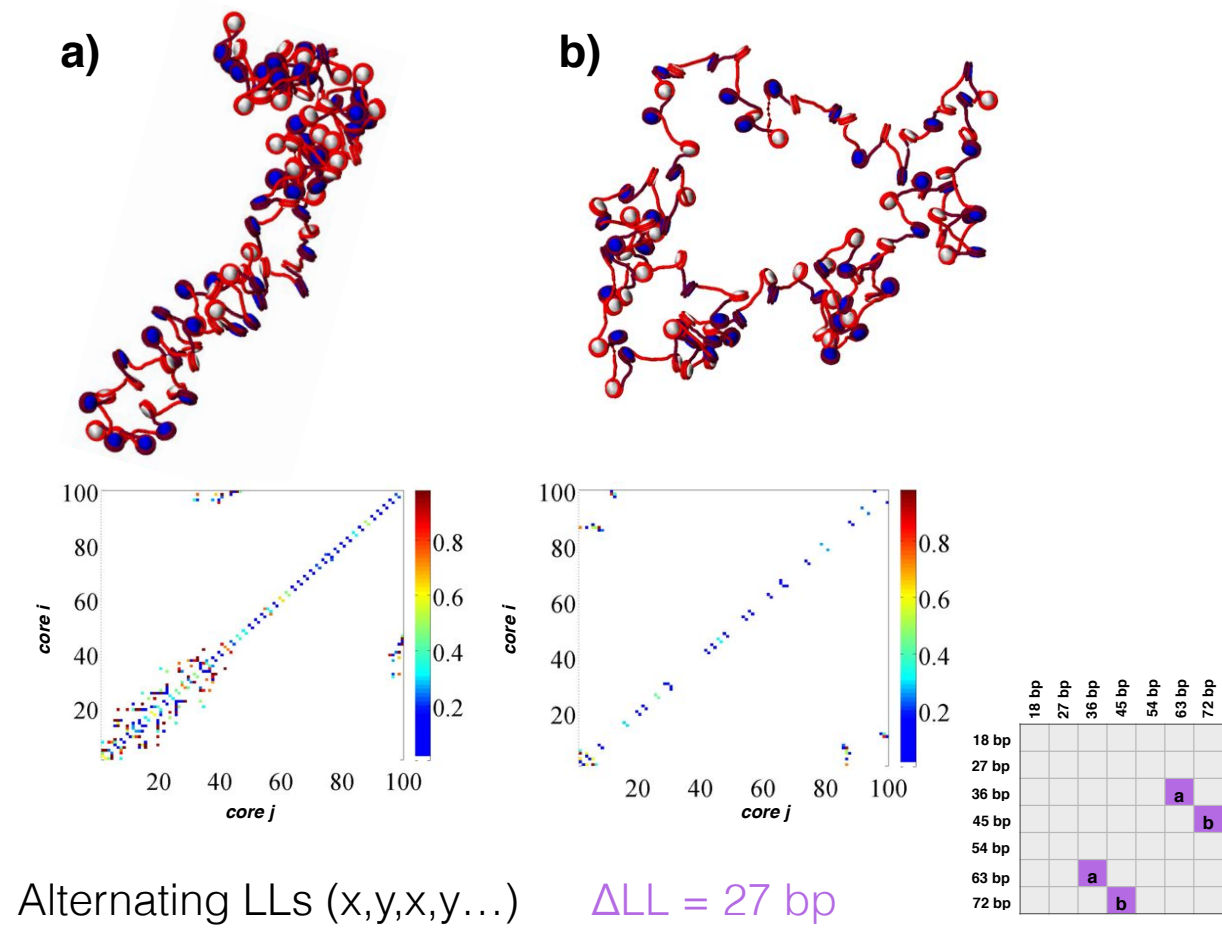


Figure S4

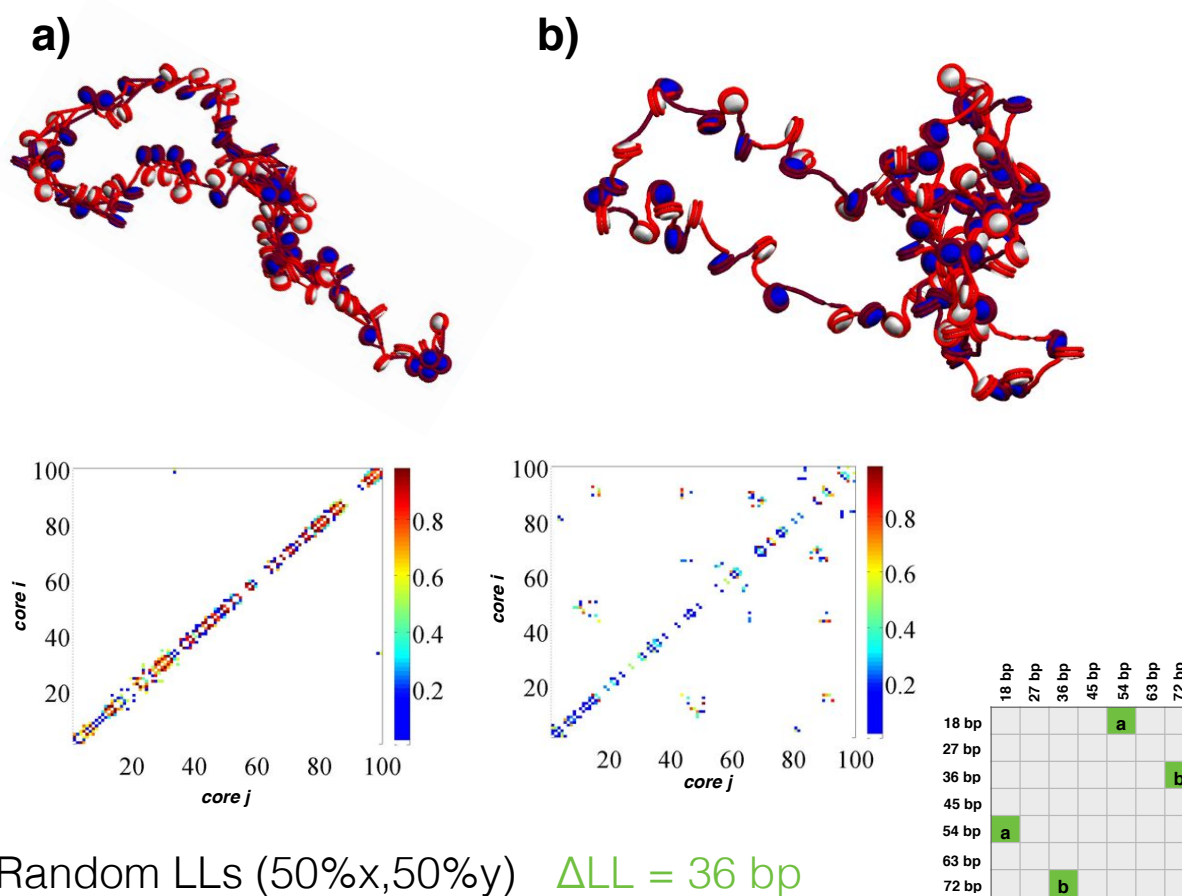


Figure S5

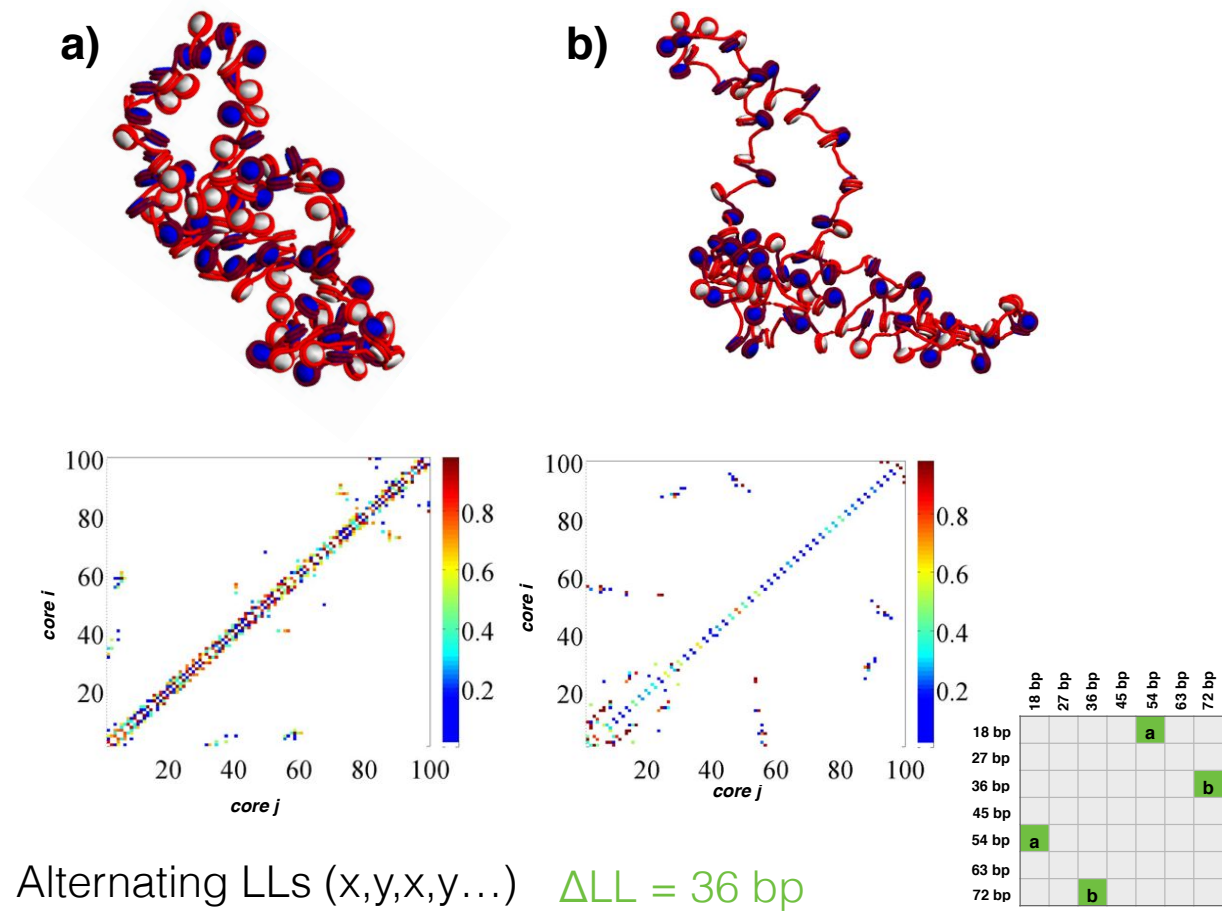


Figure S6



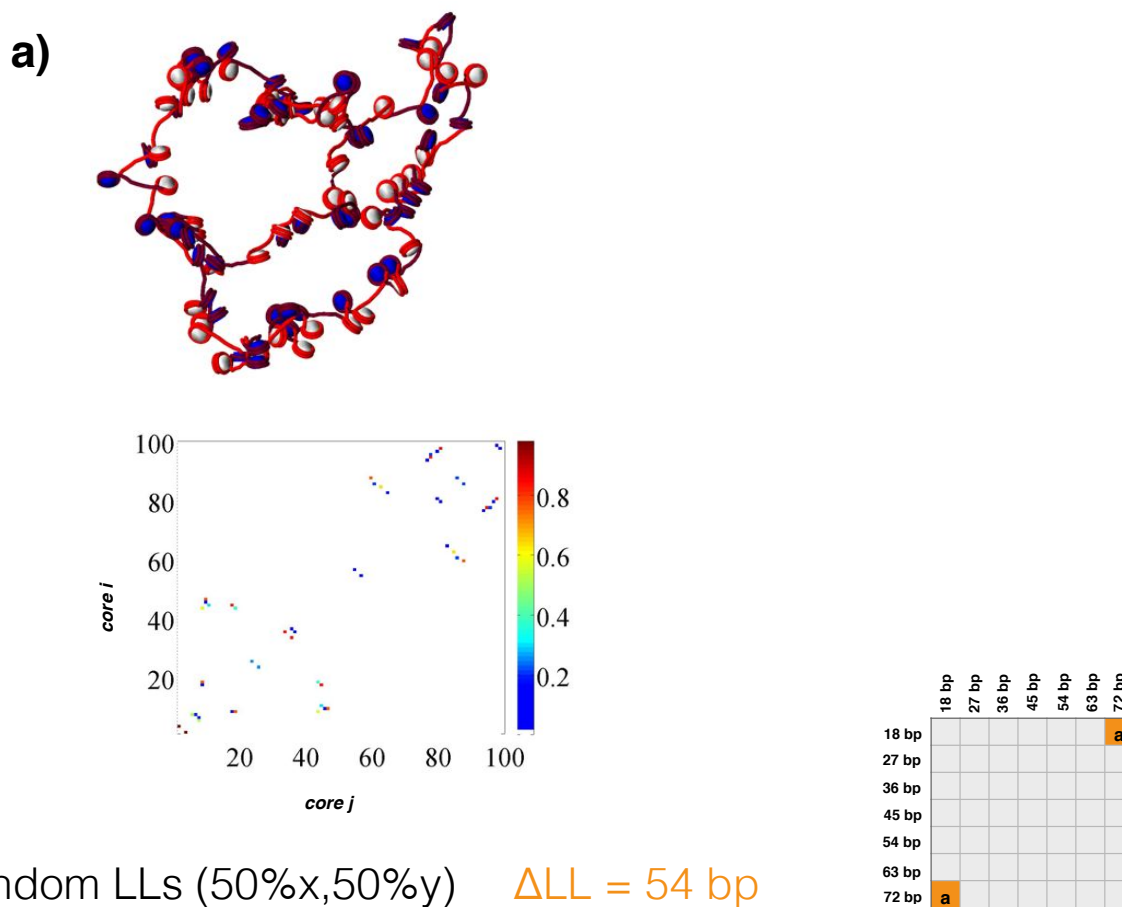
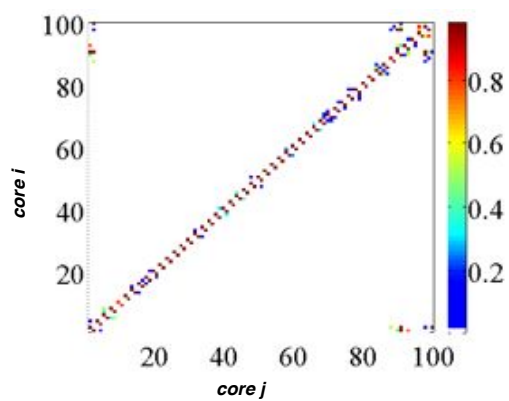
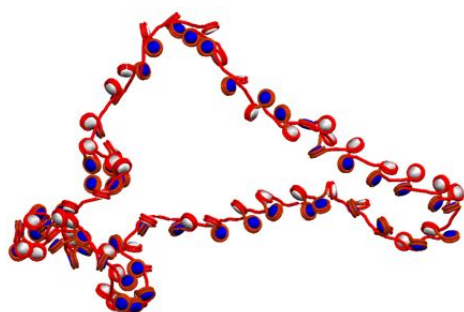


Figure S7

a)



Alternating LLs (x,y,x,y...)  $\Delta LL = 54$  bp

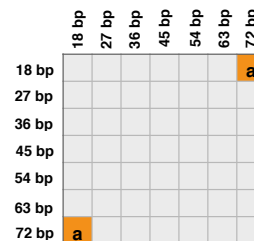


Figure S8

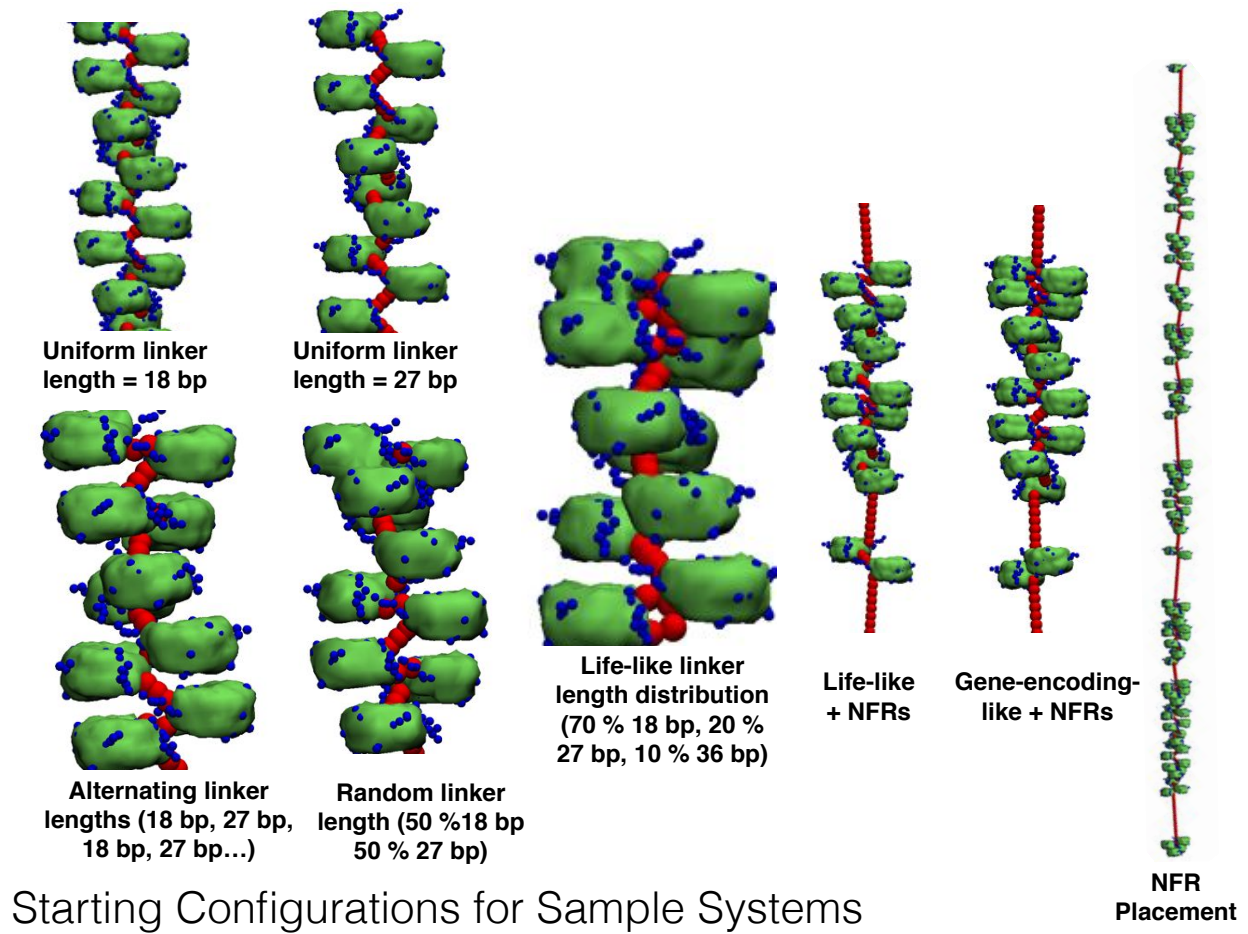


Figure S9