Table S.1. Comparison between match scores (maximum Pearson correlation coefficients, $\hat{C}$) using the new competitive binding parameters and the old method from Ref. [30] in the main text.

Experimental barcode	pEC005A	pEC005b	pUUH	p4_2_1.1
Length (kbp)	70	138	221	152
$\hat{C}$, new theory	0.9647	0.9322	0.9417	0.9138
$\hat{C}$, old theory	0.9526	0.8623	0.9115	0.8751

S1 Table.