

(A) Decoupled binding events and 3 replicates						(B) Decoupled binding events and GCN4 influence function								
microarray res.(bp)	Mean fragment length					microarray res. (bp)	Number of replicates							
	179	216	327	490	654		1	2	3	4	5	6	8	10
50	0.4	0.4	0.5	0.4	0.4	50	0.5	1.5	0.5	0.3	0.5	1.0	1.4	1.3
100	0.5	0.5	0.4	0.4	0.5	100	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.4
150	0.5	0.5	0.5	0.5	0.5	150	0.9	0.5	0.5	0.4	0.4	0.4	0.3	0.3
200	0.6	0.5	0.5	0.5	0.5	200	1.3	0.7	0.5	0.5	0.4	0.4	0.3	0.4
250	0.9	0.7	0.8	0.6	0.8	250	1.4	1.0	0.8	0.6	0.5	0.5	0.4	0.4
300	1.1	0.9	0.9	0.9	2.2	300	7.8	1.0	0.9	0.6	0.6	0.6	0.5	0.4
350	1.7	1.3	1.2	1.2	1.5	350	22.6	1.4	1.2	0.8	0.8	0.8	0.8	0.5

  

(C) Coupled binding events and 3 replicates						(D) Coupled binding events and GCN4 influence function								
microarray res. (bp)	Mean fragment length					microarray res. (bp)	Number of replicates							
	179	216	327	490	654		1	2	3	4	5	6	8	10
50	0.4	0.4	0.4	0.9	0.7	50	0.6	2.8	0.4	0.4	0.4	0.8	1.3	1.1
100	0.5	0.5	0.5	0.6	0.6	100	1.2	0.6	0.5	0.4	0.5	0.4	0.4	1.0
150	0.5	0.5	0.6	0.8	0.6	150	1.6	0.8	0.6	0.5	0.4	0.5	0.4	0.4
200	0.6	0.6	0.8	1.0	1.0	200	2.7	1.3	0.8	0.6	0.6	0.6	0.5	0.5
250	1.5	1.2	1.1	2.0	1.6	250	2.1	1.2	1.1	0.8	0.6	0.6	0.5	0.5
300	3.2	2.4	1.8	1.7	2.3	300	7.6	2.1	1.8	1.7	1.5	1.4	1.0	0.8
350	3.4	3.4	2.9	2.8	3.4	350	16.3	2.8	2.9	2.8	3.2	3.1	2.5	2.4

Table 4: Standard error of the mean spatial resolution of JBD on synthetic data (the median of the spatial resolution is reported in Table 3 of the main text.).