

Supplemental Figure 3: Nucleosome occupancy data: from log-ratios to probabilities. (A) We obtain probabilities of nucleosome occupancy for every position in the genome by applying a logistic transformation to the log-ratios of signal intensities for nucleosomal DNA versus genomic DNA (data from (Lee et al. 2007)). We set the parameters of the logistic transformation such that the distribution of nucleosome occupancy probabilities is bimodal (parameter $\alpha = 8$) and approximately 80% of the positions in the whole genome have a probability of occupancy > 0.5 (parameter $\lambda = 41.48$). (B) The raw nucleosome occupancy data and the corresponding probabilities of occupancy over an arbitrary 2-kb region on chromosome 4 (chromosomal coordinates 8,000 to 10,000).

