



Figure S4 Low Levels of H4K16Ac are Observed at CEN VI. ChIP experiments were performed with asynchronously grown wild type strains expressing Myc-Cse4p (YMB6955). (A) Diagram of CEN (C1-2) on chromosome VI analyzed by ChIP. Solid square represents the CEN VI sequence and each vertical line from chromosomal coordinate 147,500 to 149,500 denotes 500bp increments. Grey arrows represent *DEG1* and *LOC1* genes upstream and downstream of CEN VI, respectively. (B) ChIP to measure the levels of acetylated H4K16 (H4K16Ac) with antibodies to H4K16Ac. HML (-CTL1) and *SPS22* (-CTL2) (Chr III: 42437-42630) serve as hypoacetylated H4 controls and *ARE1* (+CTL) (Chr III: 212230-212450) serves as a hyperacetylated H4K16 control. ChIP for total H4 was performed with antibodies to pan H4 (H4P) that recognize modified and unmodified forms. Bar graphs show mean fold enrichment for H4K16Ac normalized to total H4 from three biological replicates, with error bars showing standard error of the mean.