



Supplemental Fig S10. CENH3 binding regions are favorable for R-loop formation in *Arabidopsis*.

(A) Manhattan plot for R-loop peaks in *Arabidopsis*. The x axis showed the chromosomal position. Diagram of Chromosomes 1-5 with the pericentromeres shaded in black (top). (B) Metaplots of R-loop peaks along the CENH3 and input nucleosome and the up- and downstream regions. (C) A representative region showing CENH3-ChIP and R-loop data. Line 1, unstranded (unstrd) R-loops signal, normalized to the genome-wide mean; line 2, unstrd R-loop peaks; line 3, normalized wR-loops signal (green); line 4, wR-loop peaks; line 5, normalized cR-loop signal (purple); line 6, cR-loops peaks; line 7, CENH3 ChIP-seq reads. The brown arrowhead indicated the colocalization regions of CENH3 nucleosomes and R-loops.