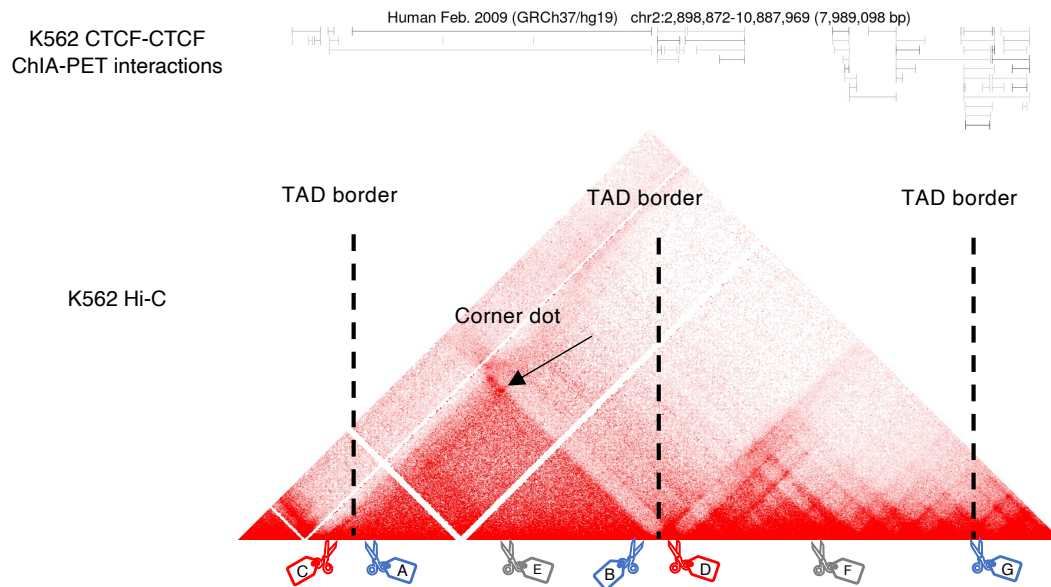
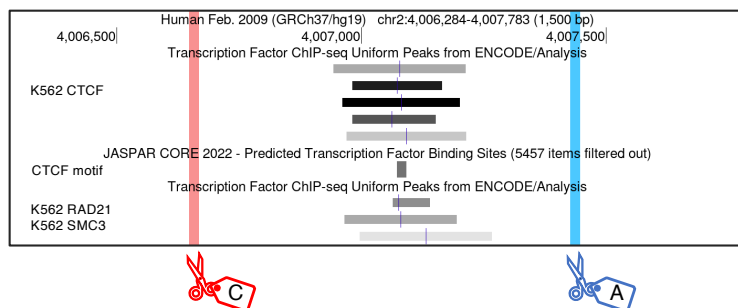
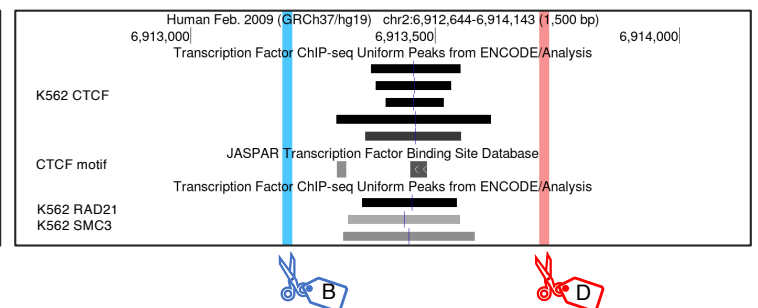
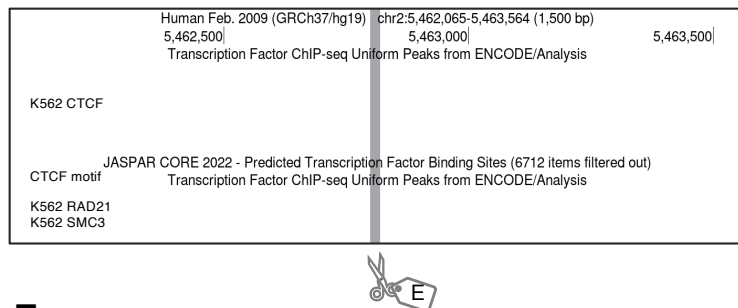
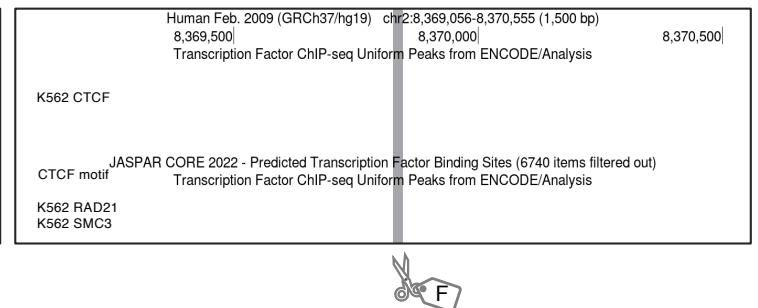
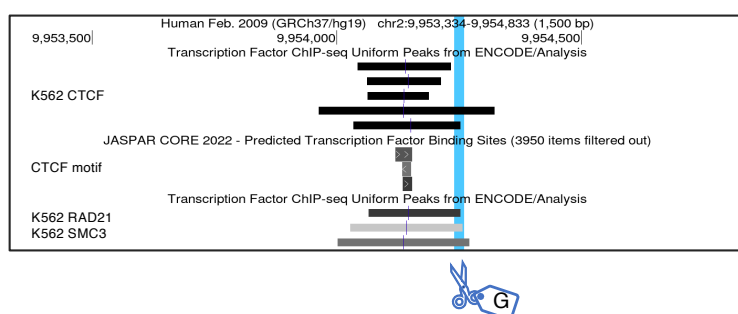


A**B****C****D****E****F**

Supplemental Fig S1. (A) A Hi-C heat-map showing positions of individual sgRNAs A-G for the Chr2 locus. ChIA-PET CTCF-CTCF interactions for K562 cells are shown above the heat map. TAD borders are demarcated with dotted lines. The arrow points to a corner dot in the heat map indicative of a strong TAD-border interaction. **(B)** CTCF and Cohesin (RAD21 and SMC3) ChIP-seq for K562 cells and CTCF motif from the JASPAR database shown at the left TAD border corresponding to sgRNA A and C. CTCF data is shown from five different laboratories, RAD21 data is shown from two different laboratories and SMC3 data is shown from one laboratory. **(C)** CTCF and Cohesin ChIP-seq data and CTCF motif shown for the right TAD border corresponding to sgRNA B and D. **(D)** CTCF and Cohesin ChIP-seq data and CTCF motif shown for sgRNA E. **(E)** CTCF and Cohesin ChIP-seq data and CTCF motif shown for sgRNA F. **(F)** CTCF and Cohesin ChIP-seq data and CTCF motif shown for sgRNA G.