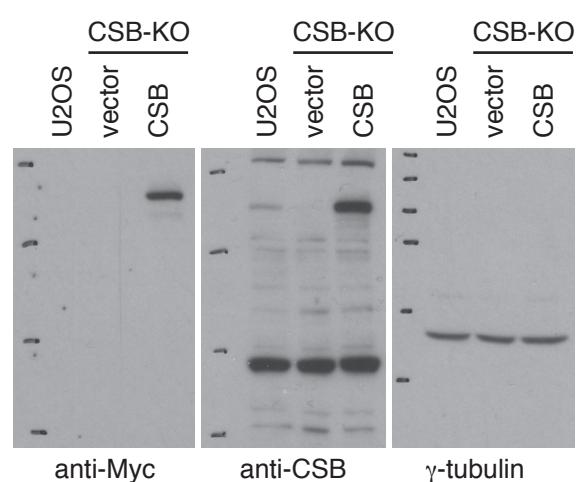
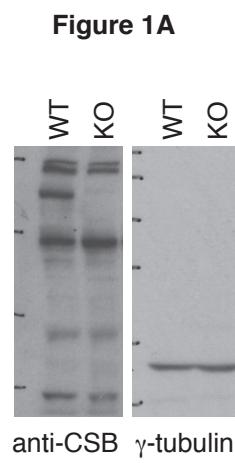
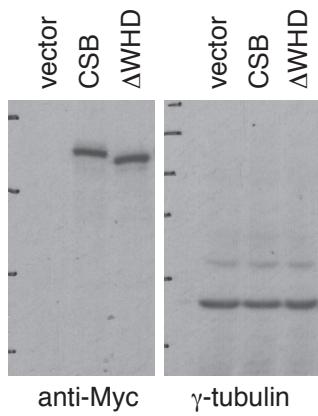
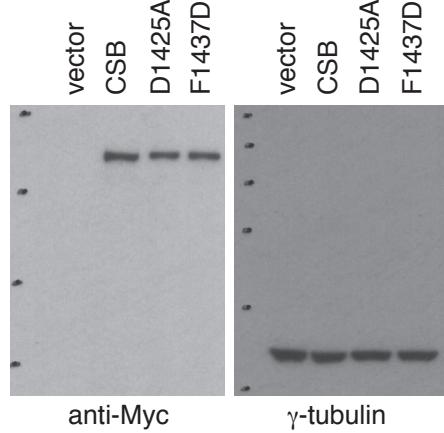
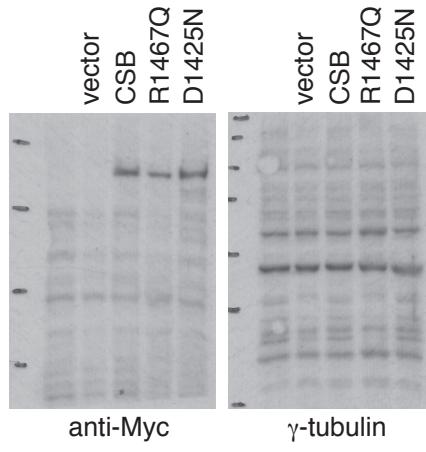
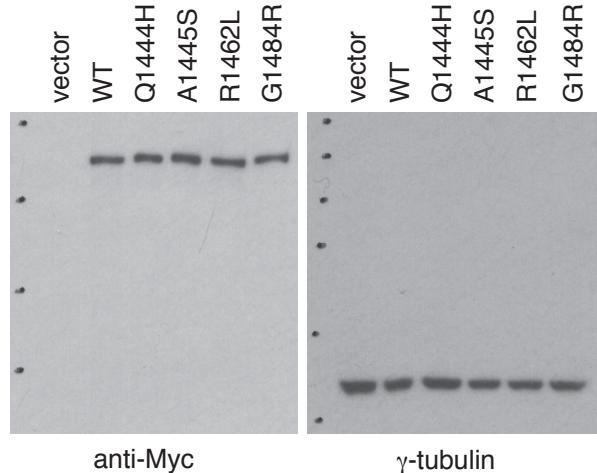


Supplementary Figure S1. Overexpression of Myc-CSB enhances RNAPII occupancy at PPP sites of *ACTB*, *GAPDH* and *RPL13A* genes in GM16095 cells. **(A)** RNAPII ChIP analyses of *ACTB*, *GAPDH* and *RPL13A* genes in GM16095 cells overexpressing the vector alone or Myc-CSB. Standard errors from three independent experiments are shown. *P* values were derived using a two-tailed Student's *t*-test. **(B)** Western analysis of GM16095 cells overexpressing the vector alone or Myc-CSB. Immunoblotting was performed with anti-Myc and anti- γ -tubuliln antibodies.

Supplementary Figure S2

Uncropped western images --- corresponding Figures are indicated

Figure 2A**Figure 3A****Figure 3D****Figure 4C****Figure 4D**

Supplementary Table S1**Q-PCR Primers [1]**

Target	Forward primer	Reverse primer
ACTB_PPP	GAGGGGAGAGGGGGTAAA	AGCCATAAAAGGCAACTTCG
ACTB_In5	GGAGCTGTCACATCCAGGGTC	TGCTGATCCACATCTGCTGG
ACTB_TES	GGGACTATTGGGGGTGTCT	TCCCATAAGGTGAAGGCAAAG
GAPDH_PPP	CTCCTGTTGACAGTCAGC	TTCAGGCCGTCCCTAGC
GAPDH_In5	ATAGGCGAGATCCCTCCAA	TGAAGACGCCAGTGGAC
GAPDH_TES	CCCTGTGCTCAACCACT	CTCACCTTGACACAAGCC
TEFM_PPP	CTTGGAGATGAGCGGGTCTG	GACAGACGGAAATCACCCC
TEFM_In2	TGGCCAATGTGGTGAAAGCC	GGGACTACAGGCCACGCC
TEFM_TES	ACCACATAGACTTATGACAGAGAA	TCAATCCATGCTTGTGAAGCAAA
CALM3_PPP	TGCGGGCAGTGAGTGTGGAGG	ACGGGGATCAAGGTTCCCTCCGG
CALM3_In1	GTTCGGGCCCCATTGCGCAC	AAAAGCTGGCTCATTCGAGGCACC
CALM3_TES	GCGATGCCGTTCTCTTGATC	CGCAGGGAGTGTGAAGAGAGA
MRPL21_PPP	CGTTACGCACCGGGTTC	GACCGTCAGGGAAGATGCTG
MRPL21_In4	CGGCATTGAGAACGGTTGCC	GCAATGATTGAGGCTCTCCT
MRPL21_TES	ACCAGGTTCTGTGTTCTGGT	GGCCTGGTGCCTACAGACAT
RPL13A_PPP	ATGGCGGAGGTGCAGGTATG	AGAGAGGGTGCACCCATT
RPL13A_In6	AGATTTCAGGCCTGCTGAGG	CCGCAGACCATCGTGAGATA
RPL13A_TES	TGGCGTCTTGCACGTGTC	CTACCCCTTCAAGCTCCTCAC
VCL_PPP	GTGAGGCTGGTTACGCCGAG	CGGGAACCGGCGAAGAGA
VCL_In6	CTCTGGTATCTGAATCTGCTTCT	AGCAGTATTGCAATGTTGGTT
VCL_TES	AGAACTTTAGGTAGGTTCTCCT	GTTCAGATCTTGAGGATTAGTT

[1] M.K.K. Shivji, X. Renaudin, C.H. Williams, A.R. Venkitaraman, BRCA2 Regulates Transcription Elongation by RNA Polymerase II to Prevent R-Loop Accumulation, *Cell Rep*, 22 (2018) 1031-1039.

Supplementary Table S2**Primers used to generate CSB mutations via site-directed mutagenesis**

CSB mutations	
D1425A	CTGCTGCCACACCACAGAGCATGCTGACCTCTGGTGGAG
D1425N	CCCACCACAGAACACAATGACCTACTAGTGGAGATGAGAAACTTC
F1437D	GGAGATGAGAAACTTCATCGCTGATCAGGCCACACTGATGGC
Q1444H	GGCCCACACTGATGGCCACGCTAGCACCAAGGGAGATAC
A1445S	CACACTGATGGCCAGTCCAGTACTAGGGAGATACTGCAG
R1462L	GAATCCAAGTTATCTGCTAGCCTGTCTTGAGAAACTATTG
R1467Q	CACAGTCTTGTCTCCAAGAGCTCTGAGAAACTGTGCAC
G1484R	GAACTTCTGGTGGTAAAGAATTGGAAACTCAAGCCAG