

Single-molecule imaging reveals RNA Polymerase II dynamics and TAF1-dependent promoter-proximal pause release

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Description of additional Supplementary Files

Supplementary Movie 1: Representative movie showing SNAP-TMR 549 and Halo-JF646-labeled U2OS SNAP-POLR2A TAF1-Halo cell treated with DMSO for 2 hours. Only Pol II (561 nm channel) is shown in this movie. Images were acquired at 2 second intervals with 500 ms exposure and 1.5s dark time.

Supplementary Movie 2: Representative movie showing SNAP-TMR 549 and Halo-JF646-labeled U2OS SNAP-POLR2A TAF1-Halo cell treated with DMSO for 2 hours. Only TAF1 (639 nm channel) is shown in this movie. Images were acquired at 2 second intervals with 500 ms exposure and 1.5s dark time. The TAF1 channel was used to construct the nuclear mask during image processing.

Supplementary Movie 3: Representative movie showing SNAP-TMR 549 and Halo-JF646-labeled U2OS SNAP-POLR2A TAF1-Halo cell treated with DMSO for 2 hours. Images were acquired at 2 second intervals with 500 ms exposure and 1.5s dark time. Movie is merged from Supplementary Movie 1 and 2.