

Supplemental Movie 1: *sir1Δ* cells exhibited heritable epigenetic states at *HML* and *HMR*. Cells were grown on CSM solid medium and monitored by fluorescence microscopy (JRY12861). Images represent overlays between bright-field and the GFP channel, RFP channel, or both the GFP and RFP channel. Scale bar, 5μm.

Supplemental Movie 2: *sir2-G436D* cells exhibited heritable epigenetic states at *HML* and *HMR*. Cells were grown on CSM solid medium and monitored by fluorescence microscopy (JRY12564). Images represent overlays between bright-field and the GFP channel, RFP channel, or both the GFP and RFP channel. Scale bar, 5μm.

Supplemental Movie 3: *sir2-G436D, fob1Δ* cells exhibited heritable epigenetic states at *HML* and *HMR*. Cells were grown on CSM solid medium and monitored by fluorescence microscopy (JRY12901). Images represent overlays between bright-field and the GFP channel, RFP channel, or both the GFP and RFP channel. Scale bar, 5μm.