



Figure 6 – figure supplement 1. Ocr interferes with holoenzyme formation of σ^{54} **A)-B)** Native PAGE gels. **A)** western blots against His-tagged σ^{54} **B)** Coomassie blue staining. Reaction schemes are indicated above. E represents core enzyme RNAP; I, II, III indicate the point when Ocr was added during the reactions. Proteins and DNA concentrations are shown. In lanes 7, 9, 11, a 1:1 molar ratio of Ocr to σ was used, whereas in lane 8, 10, 12, a 4:1 molar ratio of Ocr to σ was used. **C)** Microscale thermophoresis (MST) experiment of Ocr binding to the RNAP- σ^{70} holoenzyme, supporting that Ocr competes with sigma in RNAP binding. **D)** MST experiment of RNAP- σ^{70} and RNAP- σ^{54} binding to promoter DNA with high affinity. The bindings are too tight to give a reliable Kd.