

Supplemental Data

Rapid unwinding of triplet repeat hairpins by Srs2 helicase of *Saccharomyces cerevisiae**

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SUPPLEMENTAL FIGURE 1. **Unwinding of Watson-crick duplex and (CTG)₅·(CTG)₅ substrates by Srs2 and Sgs1.** Purified Srs2 or Sgs1 (10 nM each) were incubated with the DNA substrates (0.5 nM) for the indicated times. For 0 min, the substrate was incubated without protein. The reactions were quenched and the products were resolved on 12% nondenaturing polyacrylamide gel and visualized by phosphorimaging. *A*, control substrate containing Watson-Crick pairs. *B*, (CTG)₅·(CTG)₅ containing DNA. The *thicker lines* represent the position of the CTG repeats. *C* and *D*, quantitation of helicase activity on control (*C*) and (CTG)₅-(CTG)₅ DNA substrates (*D*). The extent of unwinding at each time point was quantified by phosphorimaging. The results were averaged from three repetitions (including that shown in panels *A* and *B*). Error bars are ± one S.D. Filled squares, Srs2; unfilled squares, Sgs1.

Fig. S1 Dhar and Lahue

