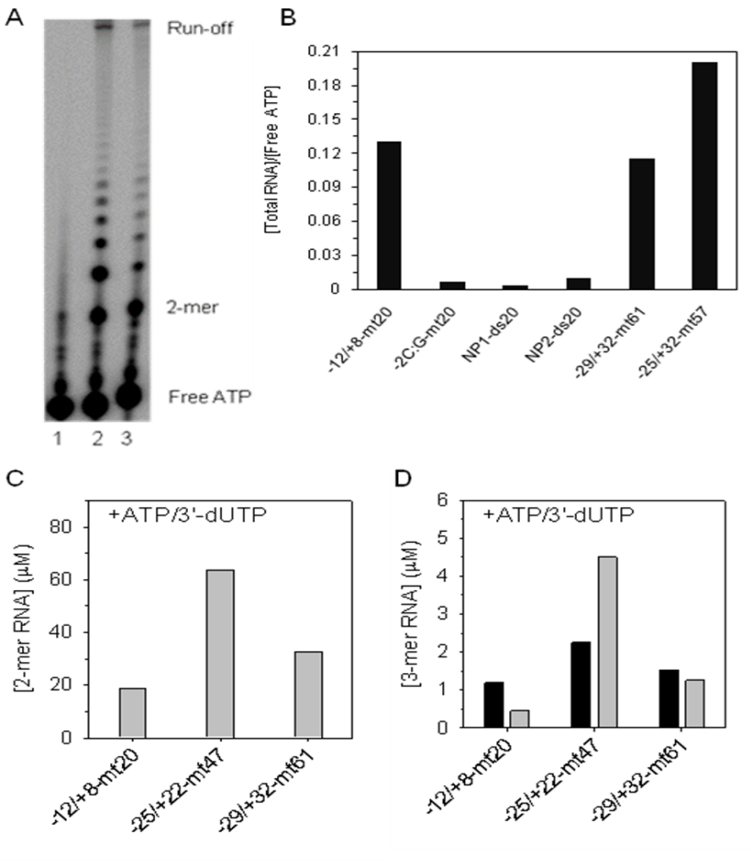

Figure S1. Comparison of transcription on promoters of different lengths.

A. The transcription reaction was conducted in the same way and conditions as described in *Experimental and Methods*. Lane 1, control without adding enzyme; lane 2, -25/+32-mt57 with the NT sequence: 5'-ATA ATT TAT TTA TTA TTA TAT AAG TAA TAA ATA ATT GTT TTA TAT AAT AAG AAT TCC; lane 3, -29/+32-mt61 with the NT sequence: 5'-GGC CAT AAT TTA TTT ATT ATT ATA TAA GTA ATA AAT AAT TGT TTT ATA TAA TAA GAA TTC C.

B. Fraction of ATP converted to RNA. Total RNA consisted of 2-8-mer for the 20-bp DNAs and from 2-mer to run-off for the long DNA templates. -25/+22-mt47 NT sequence: 5'-ATA ATT TAT TTA TTA TTA TAT AAG TAA TAA ATA ATT GTT TTA TAT CC.

C. The amount of 2mer synthesized on different promoter templates by addition of ATP & 3'dUTP.

D. The amount of 3mer synthesized on different promoter templates by addition of ATP & 3'dUTP. The correct AA3'dU 3-mer is shown as black bars while the misincorporated AAA 3-mer as gray bars.