Figure S1. miR-449a-5p inhibits CM dedifferentiation and induces CM apoptosis *in vitro*. Isolated postnatal day 1 CMs were transfected with mimic-NCs or mimic-miR-449a-5p. (A) mRNA expression levels of CM dedifferentiated markers (RUNX1, mast/stem cell growth factor receptor kit and DAB2) were detected via reverse transcription-quantitative PCR (n=3). (B) Cell apoptosis was detected using TUNEL staining and quantitative analysis of TUNEL-positive CMs are presented (n=3). TUNEL-positive CMs were indicated by arrows. Scale bar, 50 μm. Statistical significance was calculated using two-tailed unpaired Student's t-test in (A and B). Error bars represent mean ± SEM. *P<0.05 vs. indicated groups. miR, microRNA; CM, cardiomyocyte; NCs, negative controls; RUNX1, Runt-related transcription factor 1; DAB2, disabled homolog 2; cTnT, cardiac troponin T.

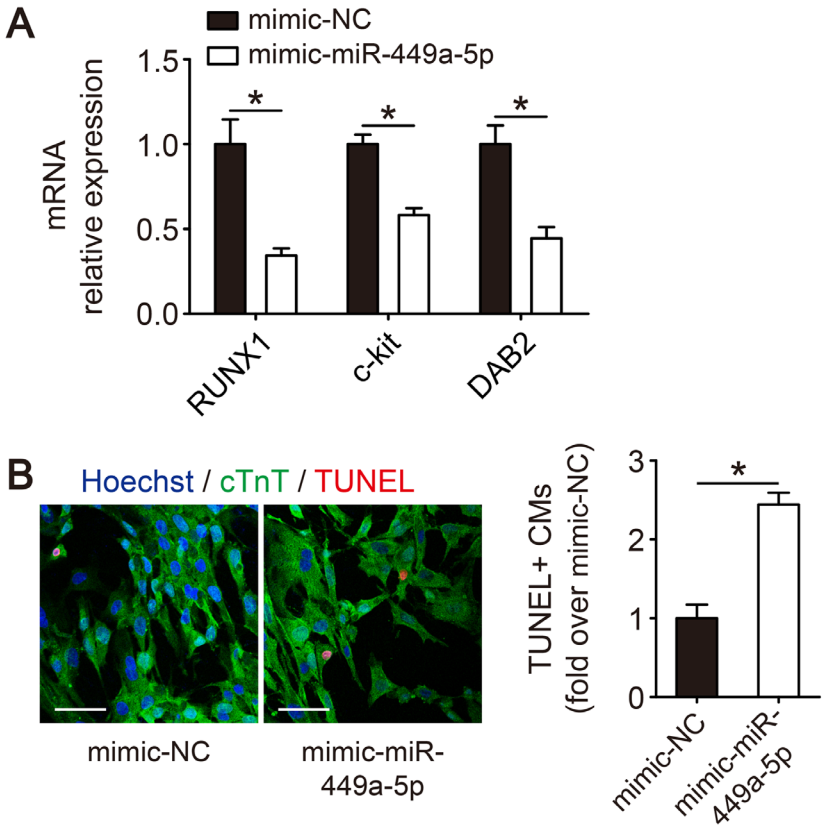

Figure S2. Amplification of cDNA synthesized from different amounts of RNA. The efficiency of amplification of CDK6 and β-actin was examined using reverse transcription-quantitative PCR, and ΔCq (Cq_{CDK6}-$Cq_{β\text{-}actin}$) was calculated for each cDNA dilution (n=3).