

Figure S2. GMT/miR-133 Convert Fibroblasts into iCMs without Cell Proliferation

- (A) Time course of α MHC-GFP and cTnT expression in MEFs by GMT or GMT/miR-133 transduction from day 7 to 28.
- (B) QRT-PCR for cardiac gene expression in MEFs transduced with GMT or GMT/miR-133 at day 7 (n = 3).
- (C) Relative mRNA expression of Hcn4, Myl7, and Myl2 in MEFs, GMT-iCMs, GMT/miR133-iCMs, and postnatal hearts (n = 3).
- (D) Immunocytochemisty for αMHC-GFP, Myl7, and DAPI in GMT- and GMT/miR-133-transduced MEFs 4 weeks after transduction.
- (E) Spontaneously beating GMT/miR-133-iCMs 2 weeks after induction. The beating iCMs (arrows) correspond to Supplementary **Movie S3**.
- (F) FACS analyses for EdU incorporation in mock, GMT-, and GMT/miR-133-transduced MEFs.
- (G) Immunocytochemistry for cTnT in mock and GMT/miR-133-transduced MEFs 4 weeks after infection, coupled with 2 weeks of EdU incorporation. The majority of immunopositive cells were negative for EdU in GMT/miR-133-iCMs.

All data are presented as means \pm SEM. *, P < 0.05 vs. relevant control. Scale bars, 100 μ m.