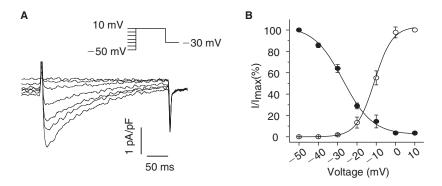


SUPPLEMENTARY FIG. 1. The stably LV-MLC2v-dsRed-transduced human embryonic stem cell (hESC) cell line. (**A**) After LV-MLC2v-dsRed transduction, human fetal left ventricular (FLV) cardiomyocytes (CMs) expressed dsRed. (**B**) The stable transduced hESC line had normal karyotype. (**C**) Undifferentiated MLC2v-dsRed hESC colonies had no dsRed expression. Bars represent 50 mm.



SUPPLEMENTARY FIG. 2. (**A**) Electrophysiological characterization of steady-state inactivation of L-type Ca^{2+} current (I_{Ca-L}) in 7+40-day dsRed+ ventricular hESC-CMs and (**B**) the steady-state inactivation and activation curves of I_{Ca-L} .