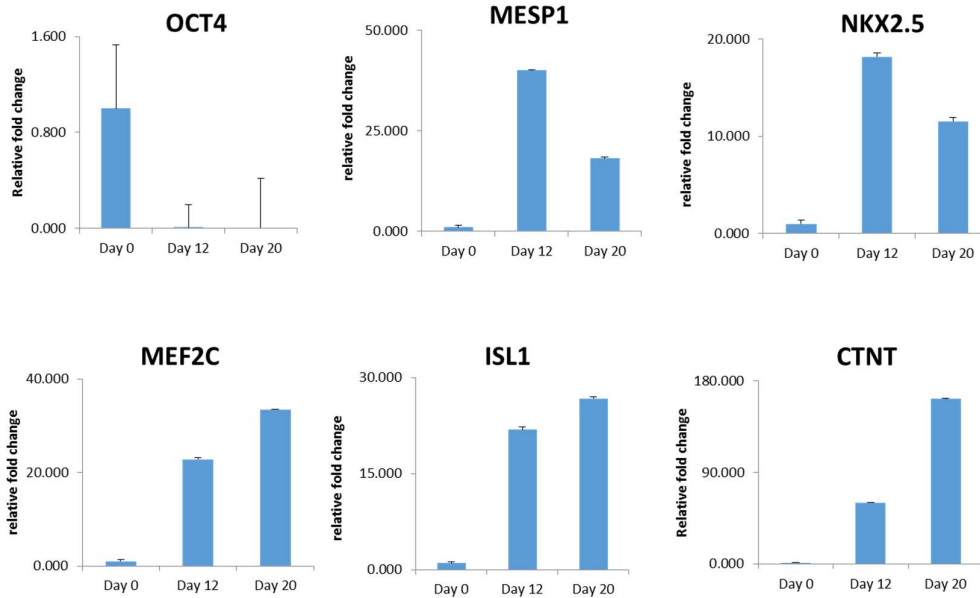


## Additional File 2



**Characterization of cardiac differentiation of HES3 cells by quantitative real-time PCR (qRT-PCR).** Expression of transcripts representing pluripotency (OCT4), cardiac mesoderm (MESP1), cardiac progenitors (NKX2.5, MEF2C) and cardiomyocytes (CTNT) at days 0, 12 and 20 during 20 days cardiac differentiation. Note OCT-4 expression in undifferentiated cells which is down-regulated as the cells initiate differentiation. Early cardiac markers are detected on Day 12 and mature markers are up-regulated on Day 20. Similar changes in transcripts expression was observed when KIND1 cells were differentiated into cardiac cells as described earlier (Pursani et al, 2017). Error bars represent  $\pm$  SEM.