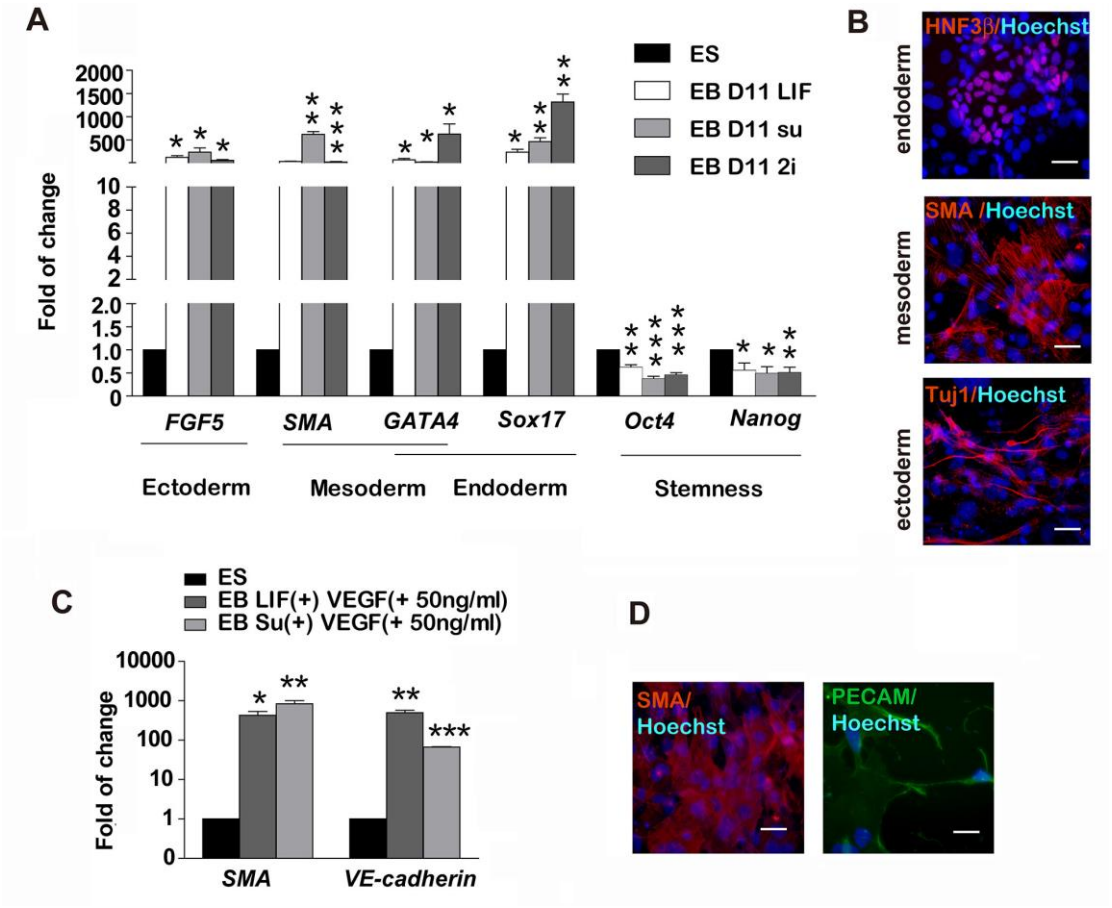

Supplementary information, Figure S5 *In vitro* differentiation of mESCs maintained in sunitinib-containing medium.

(A) qRT-PCR analysis of lineage specific genes in EBs (day 11) derived from E14 cells maintained in LIF, sunitinib (1 μM) or 2i (3 μM PD0325901 + 3 μMCHIR99021) for 11 passages. All chemicals were removed during EB formation. (B) Immunostaining of endoderm (HNF-3β), mesoderm (SMA), and ectoderm (Tuj1) markers in EBs (day12) derived from E14 cells cultured in LIF-free mES medium supplemented with 1 μM sunitinib for 11 passages. Nuclei were stained with Hoechst 33342. (Scale bar: 10 μm). (C and D) VEGF induced differentiation. EBs were formed in hanging drop for 2 days and then attached onto 0.1% gelatin-coated 24-well plate (10-15 EBs per well) in DMEM medium with 10% FBS. On the next day, vascular differentiation medium supplemented with 50 ng/mL $mVEGF_{164}$ were used to culture the EBs up to 14 days. The vascular markers were analyzed by qRT-PCR (C) and immunofluorescent staining (D). Data are mean ± SEM (n=3), *$p < 0.05$, **$p < 0.01$, ***$p < 0.001$ vs ES cells.