

Supplementary Figure 10

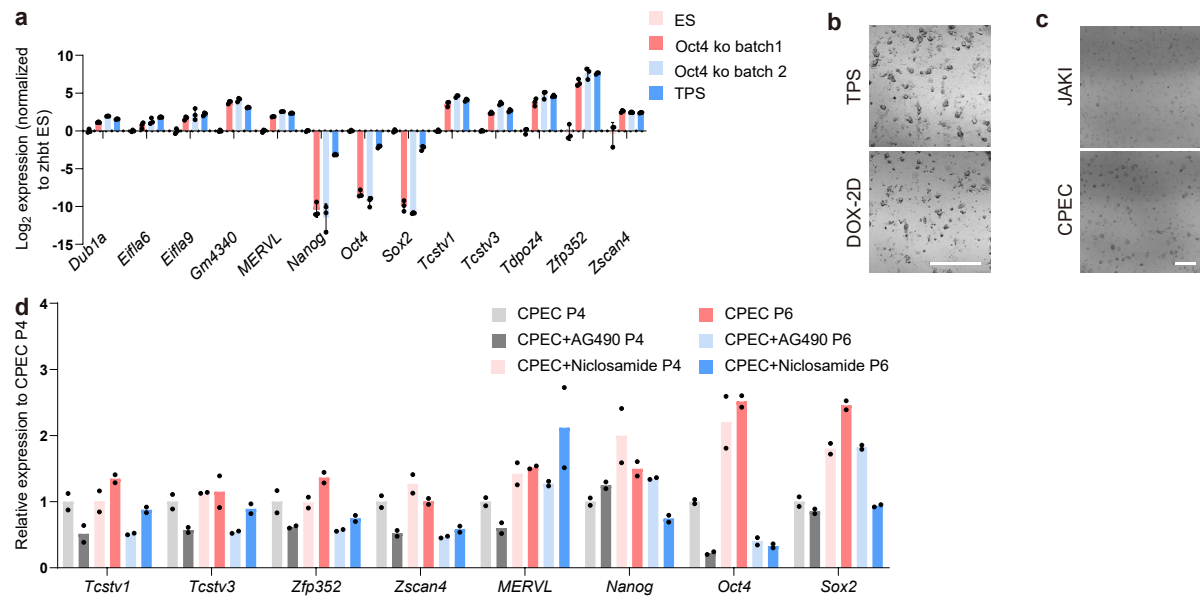


Figure S10. Analysis of the role of Oct4 and LIF/STAT3 signaling in regulating TPS cells proliferation and totipotency markers expression.

- a. Q-PCR analysis showing the effect of *Oct4* knockout on expression levels of representative totipotency and pluripotency marker genes in TPS cells. Oct4 ko batch 1 and batch 2 indicate different batches of experiments. N = 3 biological replicates.
- b. Representative images showing the effect of *Oct4* knockout on TPS cell proliferation. Scale bar, 500 μ m. DOX-2D, 2 days after addition of doxorubicin.
- c. Representative images showing the effect of inhibition of LIF signaling on the proliferation of TPS cells. JAK inhibitor (JAKI) was used. Scale bar, 500 μ m. Similar results were obtained in at least 2 independent experiments.
- d. Q-PCR analysis of expression levels of representative totipotency and pluripotency marker genes in TPS cells upon inhibition of LIF signaling by Jak inhibitors AG490 and Niclosamide. Cells at passage 4 and 6 were analyzed. N = 2 technical replicates. Similar results were obtained in at least 2 independent experiments.