

Supplementary Figure 7

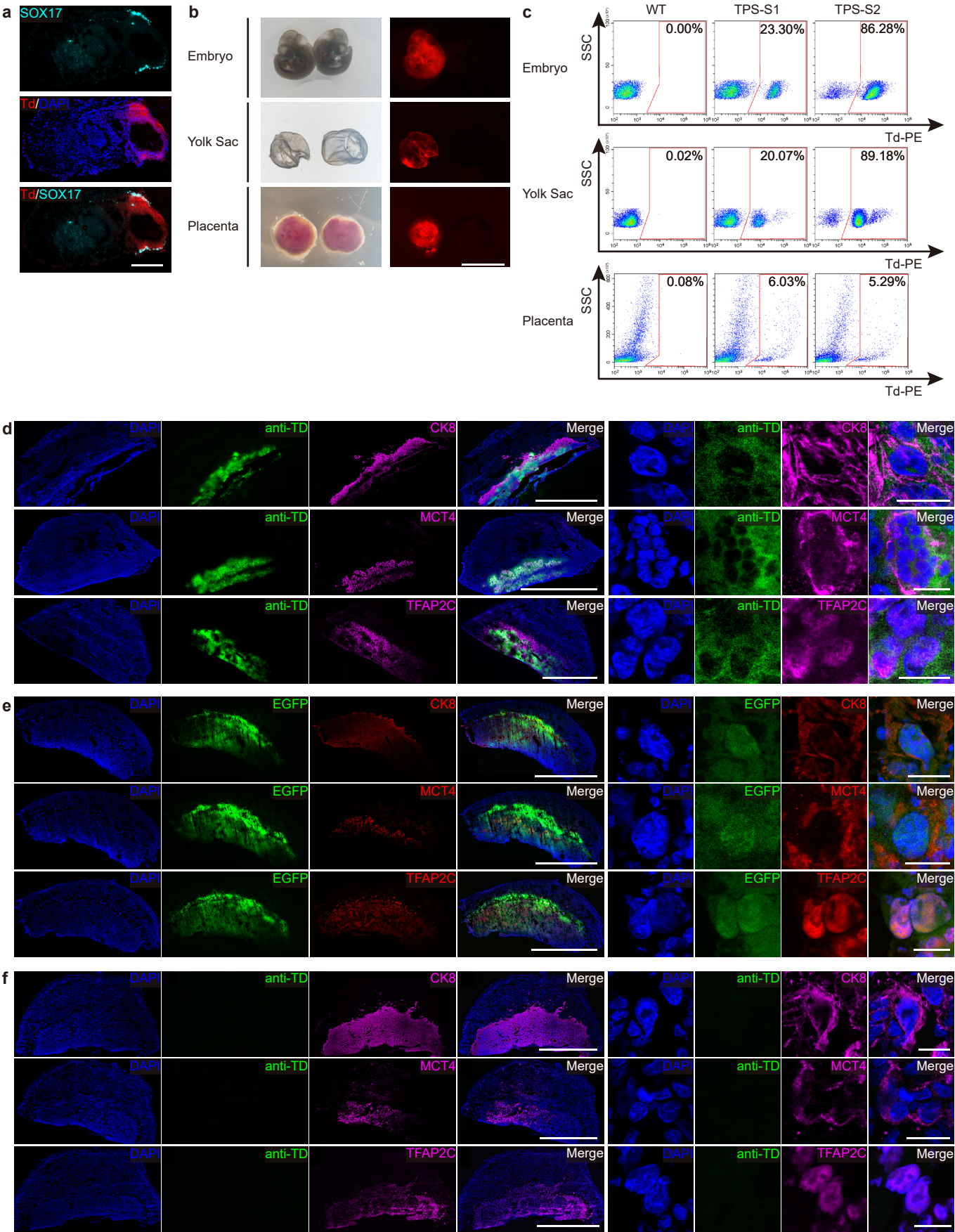


Figure S7. Further analysis of the chimerism of TPS cells *in vivo*.

- a. Representative immunofluorescent analysis showing the expression of visceral endoderm marker SOX17 in single TPS derivative cells in E7.5 embryos. Td, endogenous tdTomato. Scale bar, 200 μ m. Similar images were obtained in at least 3 independent experiments.
- b. Representative images showing contribution of single blastomere of 8-cell embryo continuously expressing tdTomato in E10.5 embryo, yolk sac and placenta. For each image, samples on the left side were from one chimeric conceptus, and samples on the right side were from one non-chimeric conceptus. Scale bars, 5 mm. Similar images were obtained in at least 3 independent experiments.
- c. Representative flow cytometry analysis of the chimerism of single TPS derivative cells in E10.5 embryo, yolk sac and placenta. Td, endogenous tdTomato. WT, wild type. Similar images were obtained in at least 3 independent experiments.
- d. Representative immunofluorescent analysis of E10.5 chimeric placenta generated by injection of single TPS cell (tdTomato labeled) converted from EPS cells. anti-TD, immunostaining of tdTomato protein. The right panels show enlarged images of the left panels. Scale bars: left panels, 2 mm; right panels, 20 μ m. Similar images were obtained in at least 3 independent experiments.
- e. Representative immunofluorescent analysis of E10.5 chimeric placenta generated by injection of single blastomere of 8-cell embryo continuously expressing EGFP. EGFP, endogenous EGFP. The right panels show enlarged images of the left panels. Scale bars: left panels, 2 mm; right panels, 20 μ m. Similar images were obtained in at least 3 independent experiments.
- f. Representative immunofluorescent analysis of wild type E10.5 placenta. anti-TD, immunostaining of tdTomato protein. The right panels show enlarged images of the left panels. Scale bars: left panels, 2 mm; right panels, 20 μ m. Similar images were obtained in at least 3 independent experiments.