



Figure S1. Characteristics of Pax7^{+/+} (W65.5, W65.3, W65.5.1), and Pax7^{-/-} (K64.2, K64.3, K64.3.1, K64.6) iPSC line. (A) Morphology of iPSC lines, colonies cultured under pluripotency supporting conditions. Scale bar 100 μ m (B) Karyotype analysis. Table - proportion of 2n metaphase plates (2n karyotype) in analyzed iPSC lines; at least 30 metaphase plates were analyzed for each cell line. (C) Localization of Oct3/4 (green) or Nanog (green) and nuclei (blue) in undifferentiated Pax7^{+/+} and Pax7^{-/-} iPSCs colonies. Scale bar 50 μ m. (D) Histological analysis of teratomas derived from Pax7^{+/+} and Pax7^{-/-} iPSCs; representative photos for Pax7^{+/+} iPSCs (W65.3) and Pax7^{-/-} iPSC (K.64.3). Sections stained with Harris' Hematoxylin and Gomori's Trichrome. Ectodermal structures – yellow arrows, mesodermal structures – red arrows, endodermal structures – green. Scale bar 100 μ m.