



Figure Legend. Hutchinson-Gilford Progeria induced-pluripotent stem cell line HGDFN003 iPS1D exhibits characteristics of pluripotency. (A-D) HGDFN003 iPS1D cells express markers for pluripotency, SSEA4, Tra-1-81, Tra-1-60, and alkaline phosphatase. (E-G') In vitro differentiation of HGDFN003 iPS1D cells shows that it has the capacity to differentiate to cells of all 3-germ layers, βIII-tubulin (ectoderm), smooth-muscle actin (mesoderm), Gata4 (endoderm). (H-H') HGDFN003 iPS1D cells exhibit repressed Lamin A/C expression in undifferentiated cells but detectable expression in differentiated cells at the border of the colony. (I) The HGDFN003 iPS1D cell line exhibits normal karyotype.