



Figure Legend. Hutchinson-Gilford Progeria induced-pluripotent stem cell line HGDFN168 iPS1D2 exhibits characteristics of pluripotency. (A-D) HGDFN168 iPS1D2 cells express markers for pluripotency, SSEA4, Tra-1-81, Tra-1-60, and alkaline phosphatase. (E-G') In vitro differentiation of HGDFN168 iPS1D2 cells shows that it has the capacity to differentiate to cells of all 3-germ layers,  $\beta$ III-tubulin (ectoderm), smooth-muscle actin (mesoderm), Gata4 (endoderm). (H-H') HGDFN168 iPS1D2 cells exhibit repressed Lamin A/C expression in undifferentiated cells but detectable expression in differentiated cells at the border of the colony. (I) The HGDFN168 iPS1D2 cell line exhibits normal karyotype.