

Annex

Annex 1: Karyotyping (46, XY)

1a: G-Banding



1b: CGH Analysis

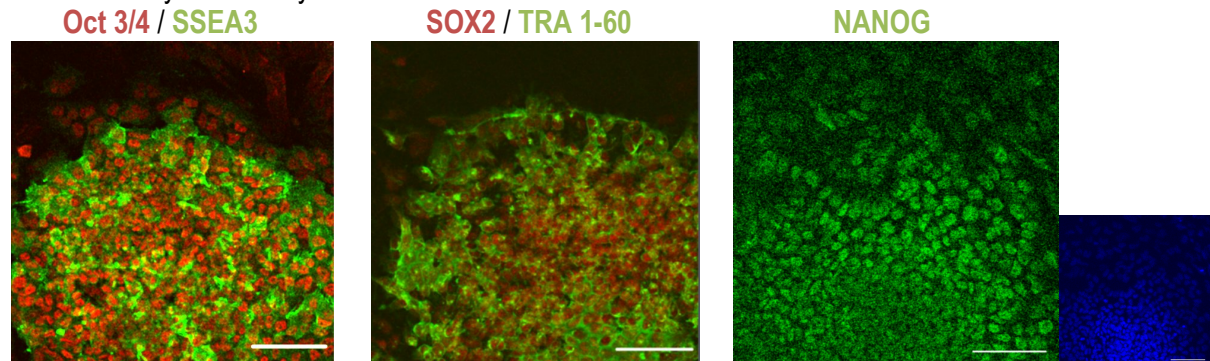


Annex 2: Photomicrograph of hiPS-drg9 culture on feeder free Matrigel support.

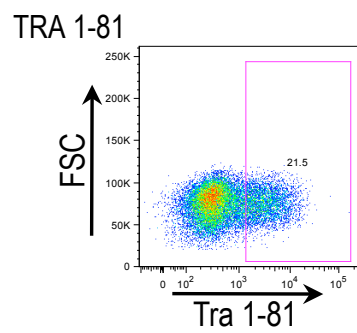


Annex 3: Surrogate markers for undifferentiated state

3a: Immunocytochemistry



3b: Flow Cytometry Analysis

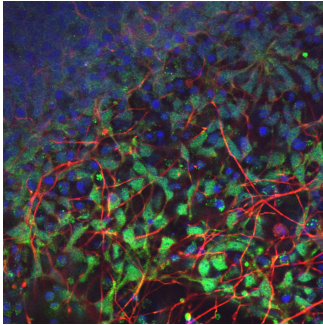


Annex 4: Differentiation capacity to the three germ layers

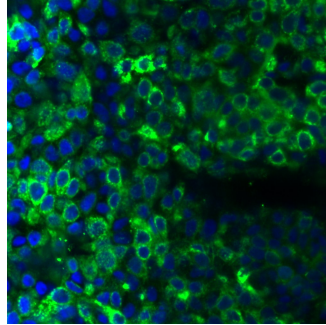
4a: In Vitro Spontaneous differentiation

Ectoderm

TUJ1 / BRN3a / DAPI

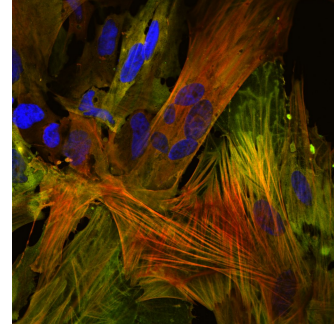


Endoderm

 α Feto Protein / DAPI

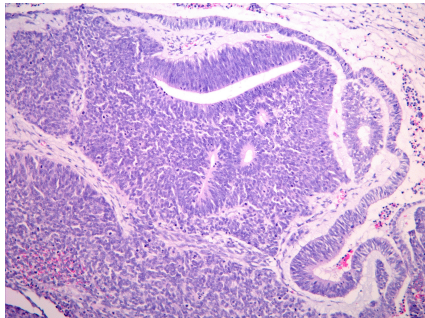
Mesoderm

SMA/ SA / DAPI

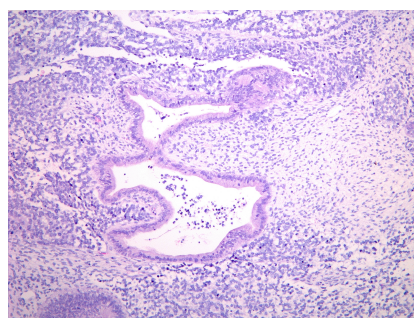


4b: In Vivo NOD-SCID teratoma assay (p20)

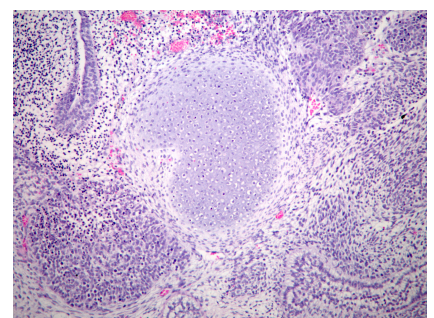
Ectoderm



Endoderm

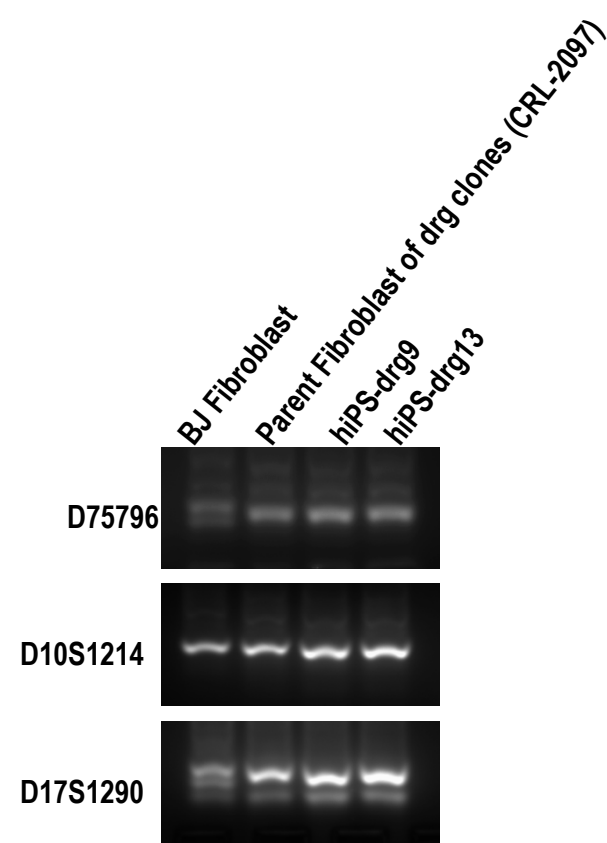


Mesoderm

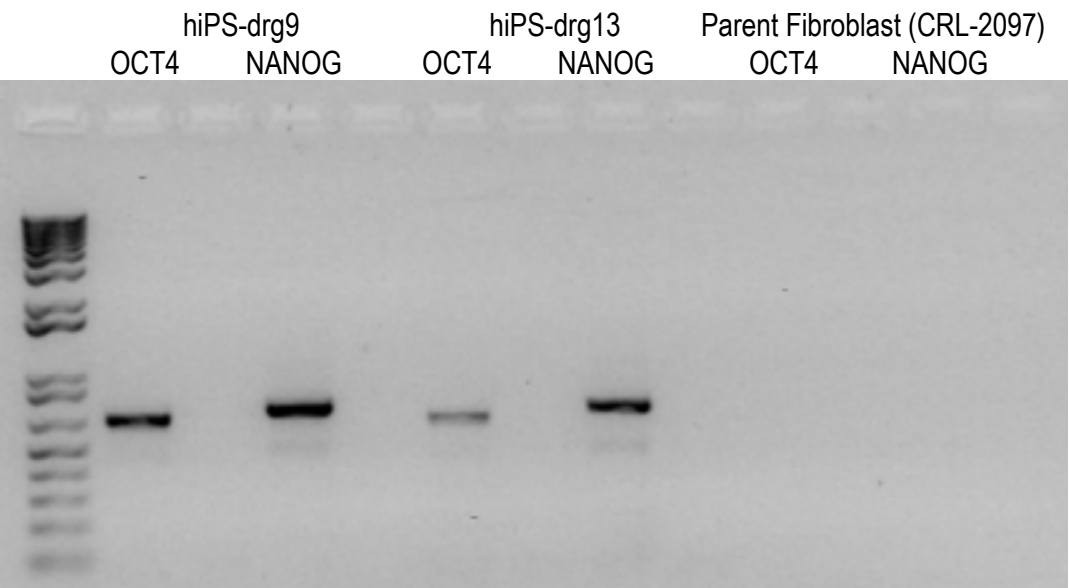


Annex 5: Genetic analysis

5a: Short tanderm repeats for cell typing



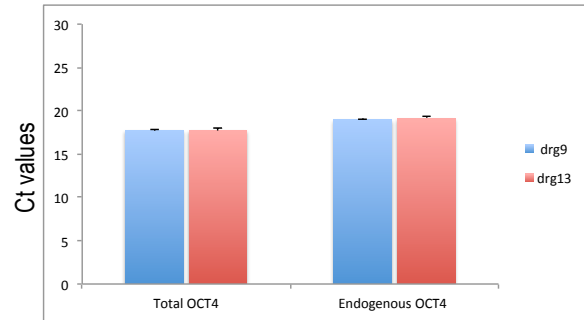
5b: Proviral integration (Yu et al Science 2007)



Human iPS-drg9

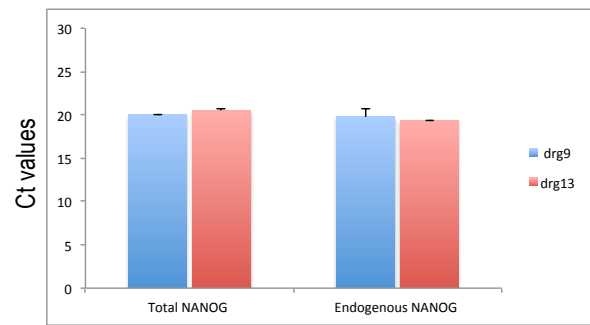
5c: Transgene silencing (Yu et al Science 2007)

OCT4



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NANOG



GUSB

