

ANEXOS A LA SOLICITUD DE DEPÓSITO DE LA LÍNEA CELULAR 6PNF_SiPSrv_PM_2 EN EL BANCO NACIONAL DE LÍNEAS CELULARES

Annexes iPSC line: 6PNF_SiPSrv_PM_2

Annex 1: Morphology and AP staining

Annex 2: Pluripotency markers by immunofluorescence

Annex 3: *In vitro* differentiation markers by
Immunofluorescence

Annex 4: Karyotype

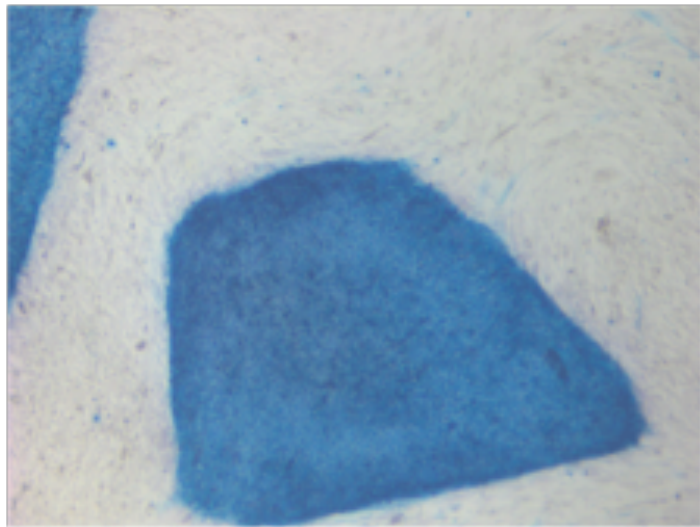
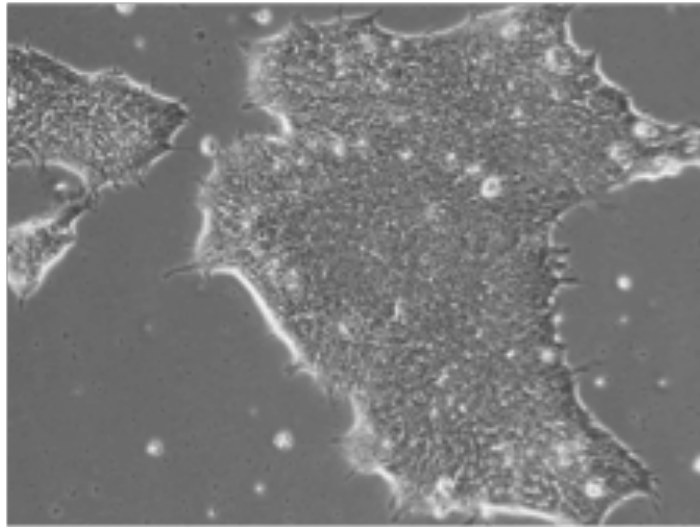
Annex 5: Authentication. Fingerprinting analysis

Annex 6: Integration/silencing test

Annex 7: Genotype

Annex 1

Morphology and Alkaline phosphatase staining

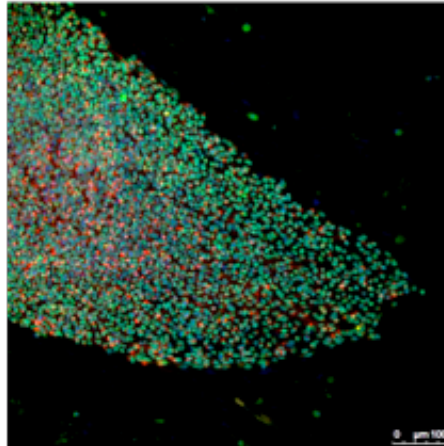


6PNF_SiPSrv_PM_2 passage 2

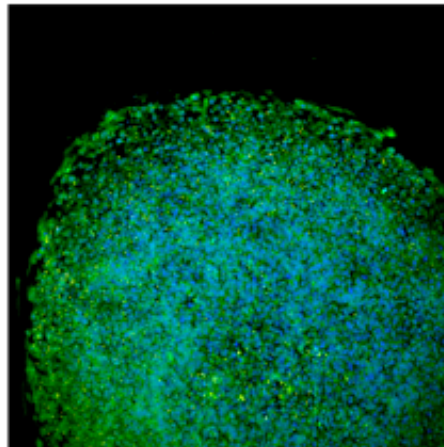
Annex 2

Pluripotency markers

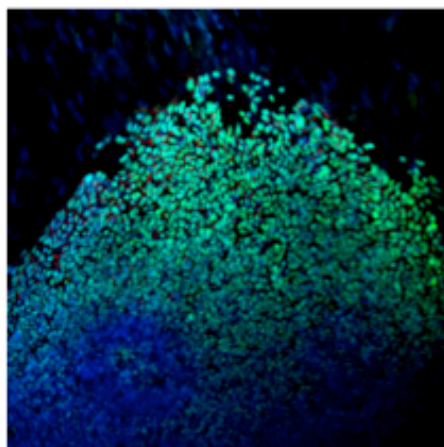
NANOG/TRA181



OCT4/SSEA3



SOX2/ SSEA4



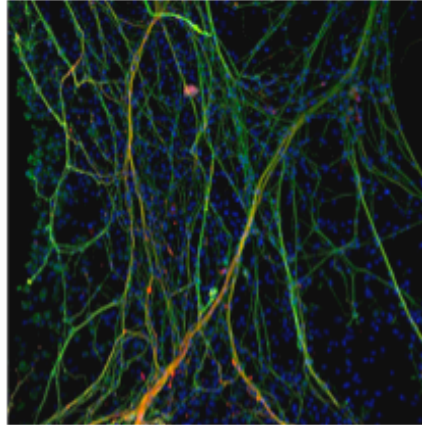
Immunofluorescence of pluripotency associated markers NANOG, TRA181, OCT4, SSEA3, SOX2 and SSEA4 in 6PNF_SiPSrv_PM_2 iPS at passage 9.

Annex 3

In vitro differentiation

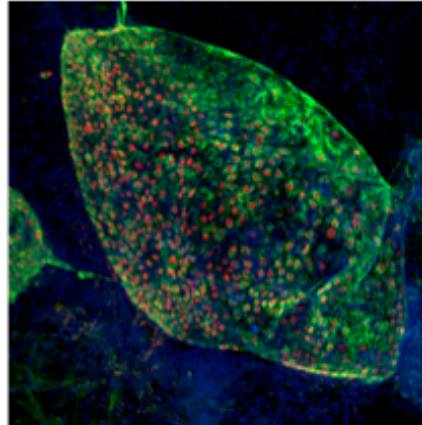
ECTODERM

TUJ1/GFAP



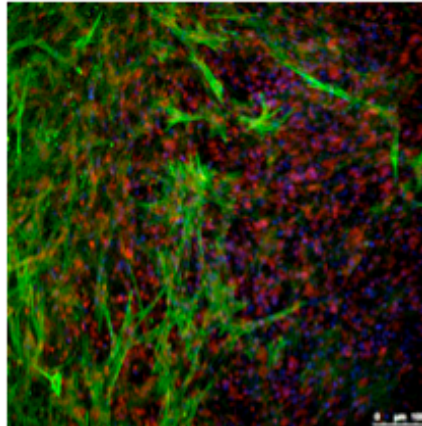
ENDODERM

a-FETO FOXA2



MESODERM

SMA/GATA4



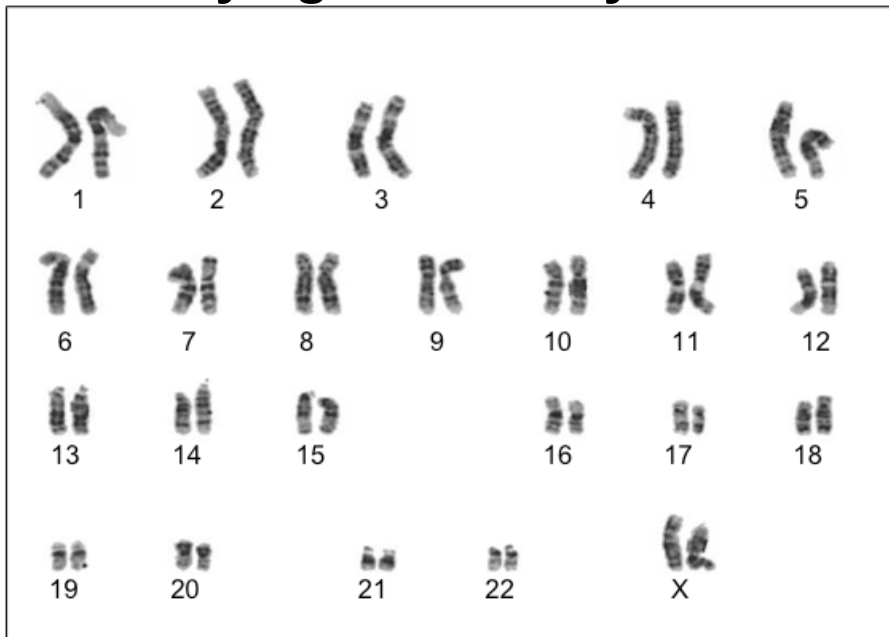
Immunofluorescence of differentiation associated markers TUJ1, GFAP for ectoderm; a-FETO, FOXA2 for endoderm and SMA, GATA4 for mesoderm in 6PNF_SiPSrv_PM_2 iPS at passage 12.

Annex 4

Karyotype



Cytogenetic analysis



Case name: A159016

Patient name: 6PNF_SiPSsv_PM_2 passage 4

Result: 46,XX

Specimen type: stem cells

Annex 5

Authentication

AmpFISTR Identifier loci	6PNF	6PNF-F	6PNF_SiPSrv_PM_2
CSF1PO	10,12	10,12	10,12
D2S1338	17,23	17,23	17,23
D3S1358	16,18	16,18	16,18
D5S818	11,13	11,13	11,13
D7S820	11	11	11
D8S1179	10,12	10,12	10,12
D13S317	11,14	11,14	11,14
D16S539	9,13	9,13	9,13
D18S51	11,13	11,13	11,13
D19S433	13,14	13,14	13,14
D21S11	29,30.2	29,30.2	29,30.2
FGA	21,27	21,27	21,27
THO1	7,9.3	7,9.3	7,9.3
TPOX	9,11	9,11	9,11
vWA	17	17	17
Amelogenin (gender)	X	X	X

Microsatellite analysis results. Method used: AmpFISTR Identifier Plus PCR Amplification Kit (Life Technologies, cat #: 4427368, lot #: 1212014).

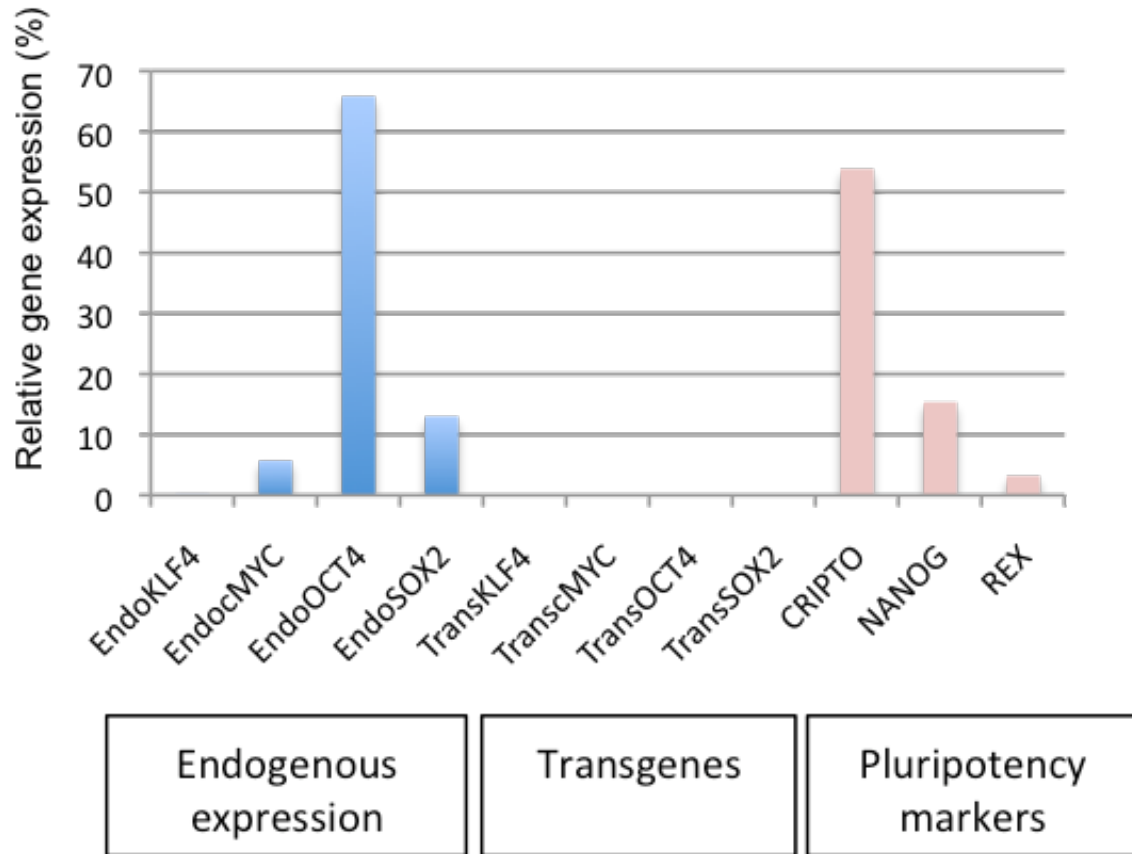
Tumor: 6PNF

Tumor fibroblast cells: 6PNF-F

iPS generated: 6PNF_SiPSrv_PM_2

Annex 6

Integration/silencing test



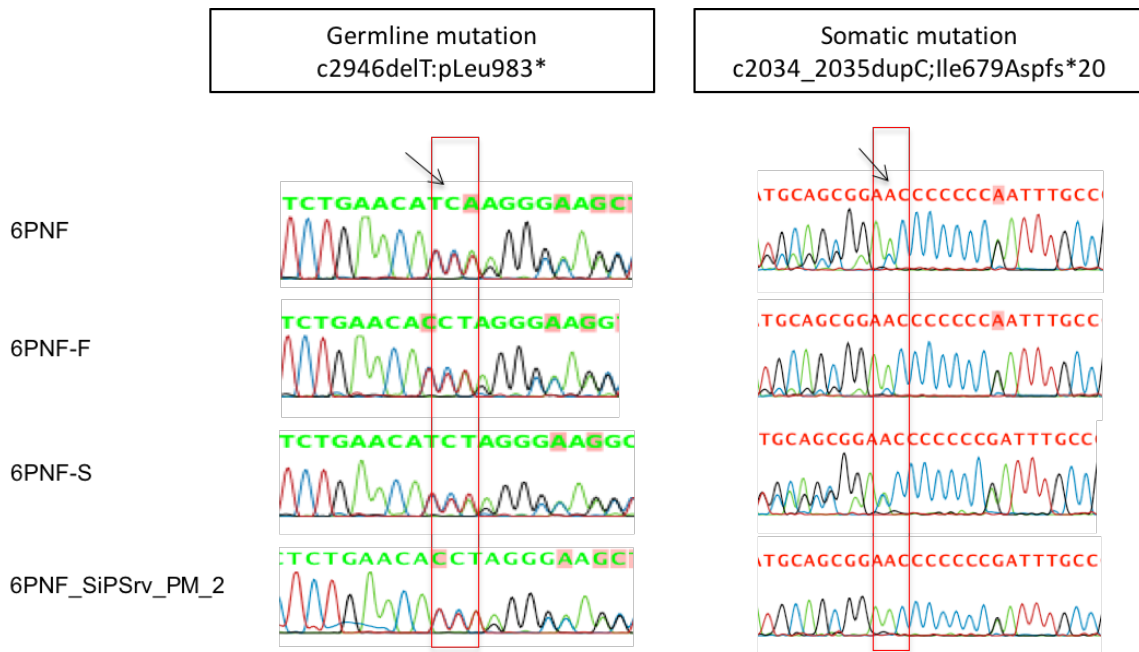
RT-PCR analysis showing endogenous expression of the 4 genes KLF4, c-MYC, OCT4 and Sox2 and the silencing of the transgenes in the 6PNF_SiPSrv_PM_2 iPS line. CRIPTO, NANOG and REX are used as pluripotency marker controls.

Annex 7

Genotype

Germline mutation: c2946delT;pLeu983*

Somatic tumor mutation: c2034_2035dupC;Ile679Aspfs*20



Sanger sequencing showing the germline mutation present in the tumor (6PNF), fibroblasts (6PNF-F) and iPS, and the tumor somatic mutation only present in the Schwann cells (6PNF-S), and not in the fibroblasts nor in iPS line 6PNF_SiPSrv_PM_2.