

**ANEXOS A LA SOLICITUD DE  
DEPÓSITO DE LA LÍNEA CELULAR  
CT\_PBiPS2\_Sv4F\_1\* EN EL BANCO  
NACIONAL DE LÍNEAS CELULARES**

**Annexes iPSC line: CT\_PBiPS2\_Sv4F\_1\***

**\*(CTL3 in the publication)**

Annex 1: Morphology and AP staining

Annex 2: Pluripotency markers by immunofluorescence

Annex 3: *In vitro* differentiation markers by  
Immunofluorescence

Annex 4: Karyotype

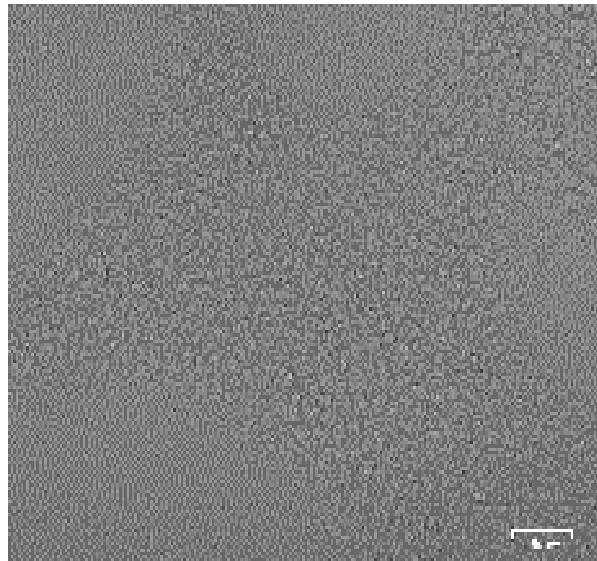
Annex 5: Authentication. Fingerprinting analysis

Annex 6: Integration/silencing test

Annex 7: Mycoplasma test

## **Annex 1**

### **Morphology and Alkaline phosphatase staining**

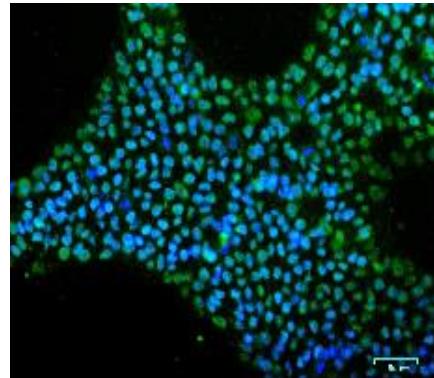


CT\_PBiPS2\_Sv4F\_1 Passage 1

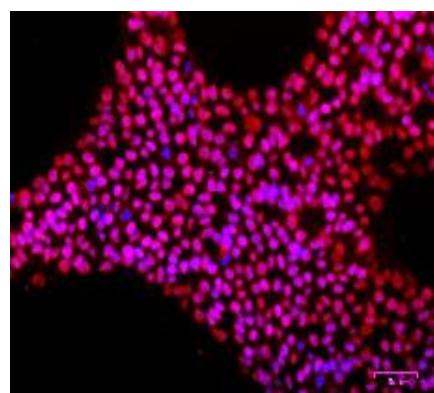
## Annex 2

### Pluripotency markers

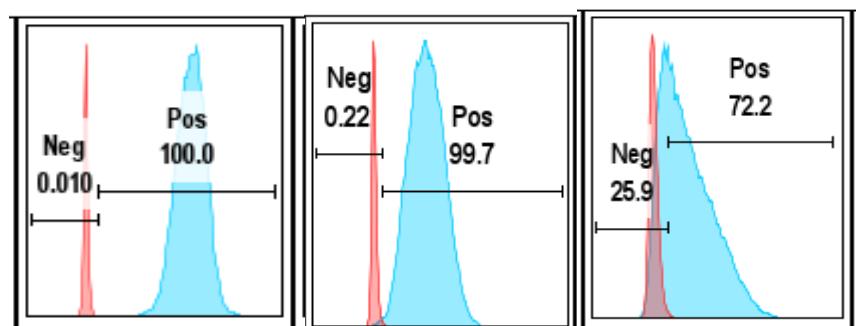
NANOG



OCT4



SSEA-4 / TRA 1-60 / TRA 1-81



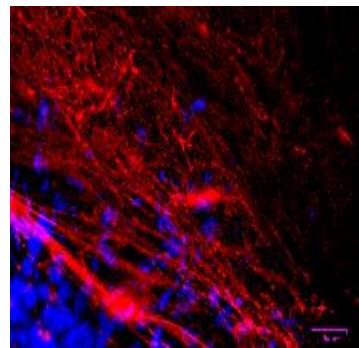
Immunofluorescence of pluripotency associated markers NANOG and OCT4, and fluorescence-activated cell sorting (FACS) of pluripotency markers SSEA4, TRA 1-60 and TRA 1-81 in CT\_PBiPS2\_Sv4F\_1 at passage 10.

## Annex 3

### *In vitro differentiation*

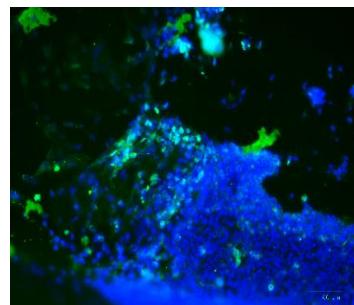
ECTODERM

TUJ1



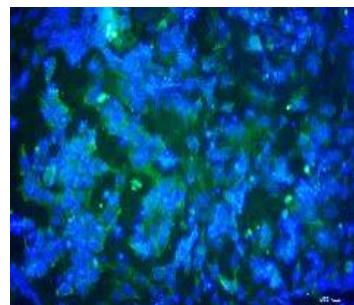
ENDODERM

SOX17



MESODERM

SMA

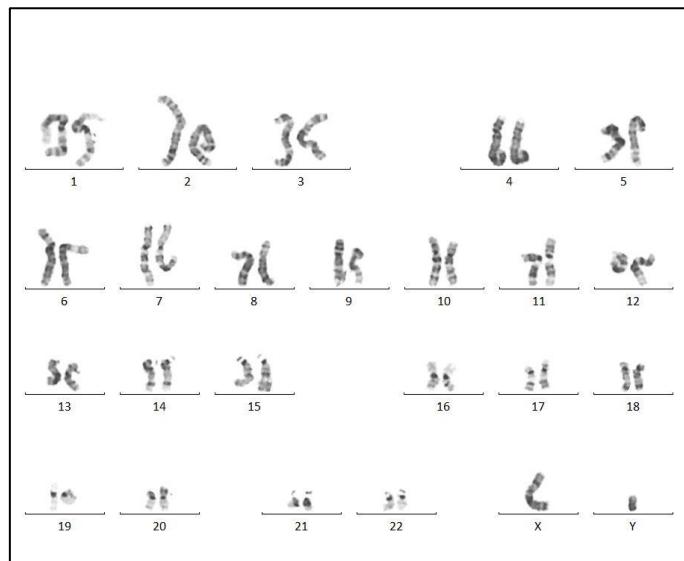


Immunofluorescence of differentiation associated markers TUJ1, for ectoderm; SOX17 for endoderm and SMA for mesoderm in CT\_PBiPS2\_Sv4F\_1 at passage 12.

## Annex 4

# Karyotype

### Cytogenetic analysis



Patient name: CT\_PBiPS2\_Sv4F\_1 passage 15

Result: 46, XY

Specimen type: iPSC

## Annex 5

### Authentication

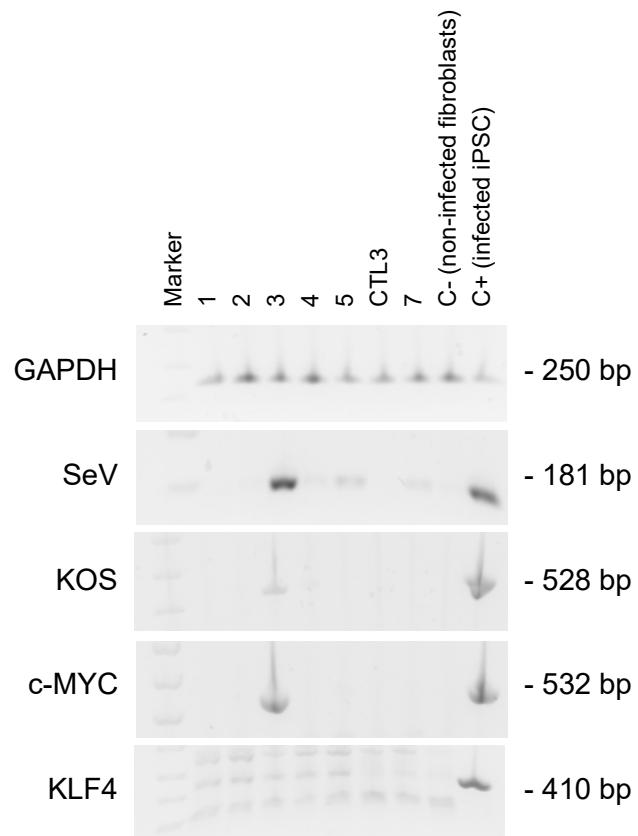
AmpFISTR Identifier Loci	CTL3 PBMC	CTL3 iPSC
<b>CSF1PO</b>	11,12	11,12
<b>D2S1338</b>	20,23	20,23
<b>D3S1358</b>	15,16	15,16
<b>D5S818</b>	7,12	7,12
<b>D7S820</b>	10,11	10,11
<b>D8S1179</b>	11,15	11,15
<b>D13S317</b>	10,13	10,13
<b>D16S539</b>	11	11
<b>D18S51</b>	15,17	15,17
<b>D19S433</b>	12.2,14.2	12.2,14.2
<b>D21S11</b>	28,3	28,3
<b>FGA</b>	21	21
<b>TH01</b>	6,7	6,7
<b>TPOX</b>	8,12	8,12
<b>vWA</b>	16	16
<b>Amelogenin (gender)</b>	X,Y	X,Y

Microsatellite analysis results. Method used: AmpFISTR® Identifiler® Plus PCR Amplification Kit (Applied Biosystems, cat #: 4427368).

Parental reprogrammed PBMC cells: CTL3 PBMC  
iPS generated: CTL3 iPSC (CT\_PBiPS2\_Sv4F\_1)

## Annex 6

### Integration / silencing test



RT-PCR analysis showing the absence of Sendai virus and the silencing of the transgenes KOS (KLF4, OCT4 and Sox2), c-MYC, KLF4 and in the CT\_PBiPS2\_Sv4F\_1 (CTL3) iPS line.

## Annex 7

### Mycoplasma test



PCR analysis showing the absence of mycoplasma in the CT\_PBiPS2\_Sv4F\_1 (CTL3) iPS line.