

# ANEXOS A LA SOLICITUD DE DEPÓSITO DE LA LÍNEA CELULAR RP25\_UiPSC\_mR5F\_8 EN EL BANCO NACIONAL DE LÍNEAS CELULARES

## Annexes iPSC line: RP25\_UiPSC\_mR5F\_8

Annex 1: Morphology & exponential growth

Annex 2: Pluripotency markers by immunofluorescence and PCR

Annex 3: *In vitro* differentiation markers by Immunofluorescence

Annex 4: Karyotype

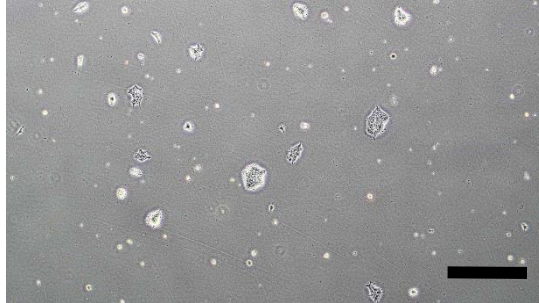
Annex 5: Authentication. Fingerprinting analysis

Annex 6: Mycoplasma test

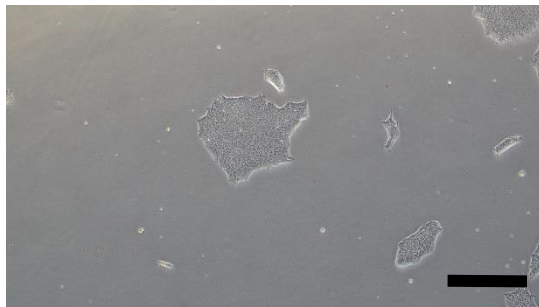
## Annex 1

## Morphology & exponential growth

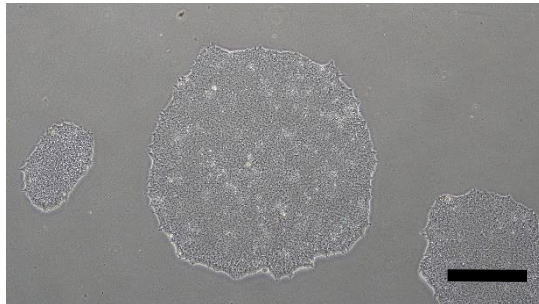
0 DIV



2 DIV



4 DIV



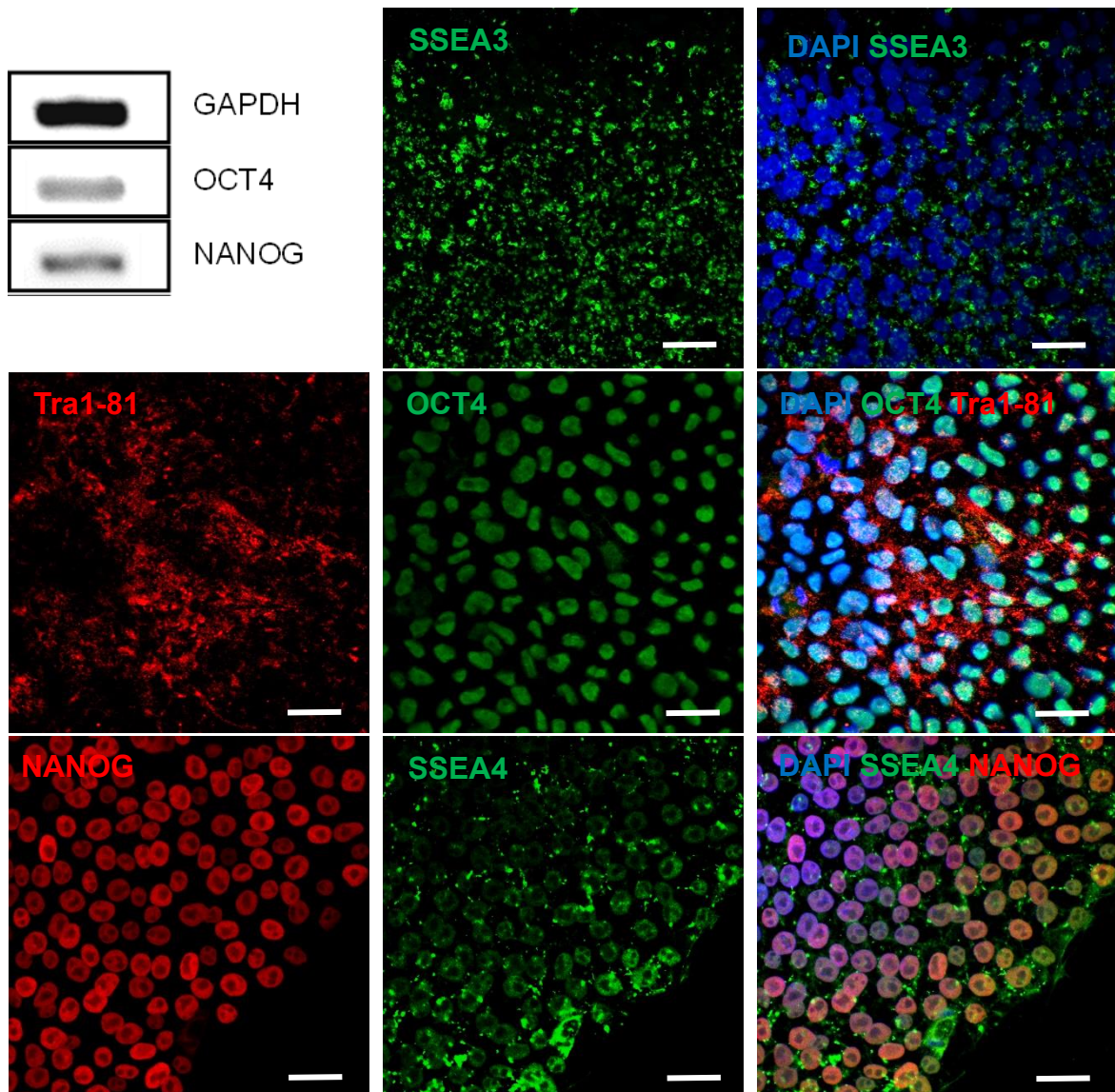
6 DIV



RP25\_UiPSC\_mR5F\_8 Passage 8 Scale bars: 500 $\mu$ m

## Annex 2

### Pluripotency markers

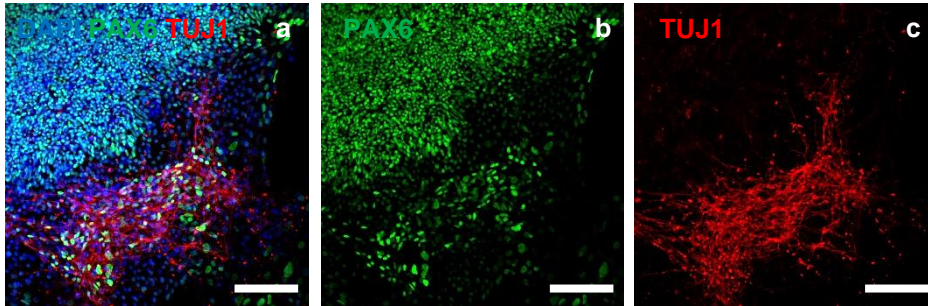


Pluripotency associated markers OCT4, NANOG, and GAPDH (as a housekeeping gene) by PCR and SSEA3, OCT4, TRA181, SSEA4 and NANOG by immunofluorescence in RP25\_UiPSC\_mR5F\_8 at passage 5. Scale bars: 50µm.

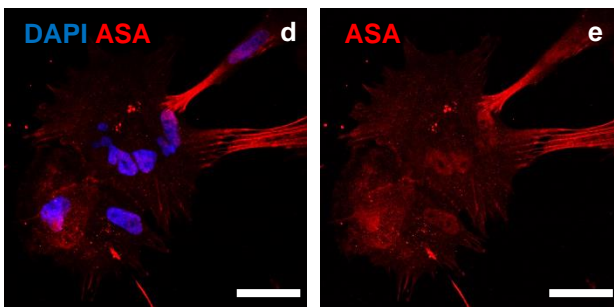
# Annex 3

## In vitro differentiation

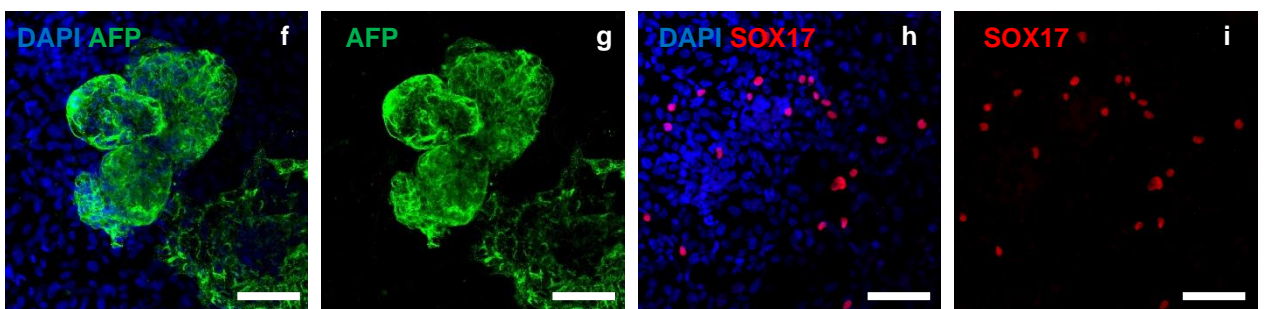
### ECTODERM



### MESODERM



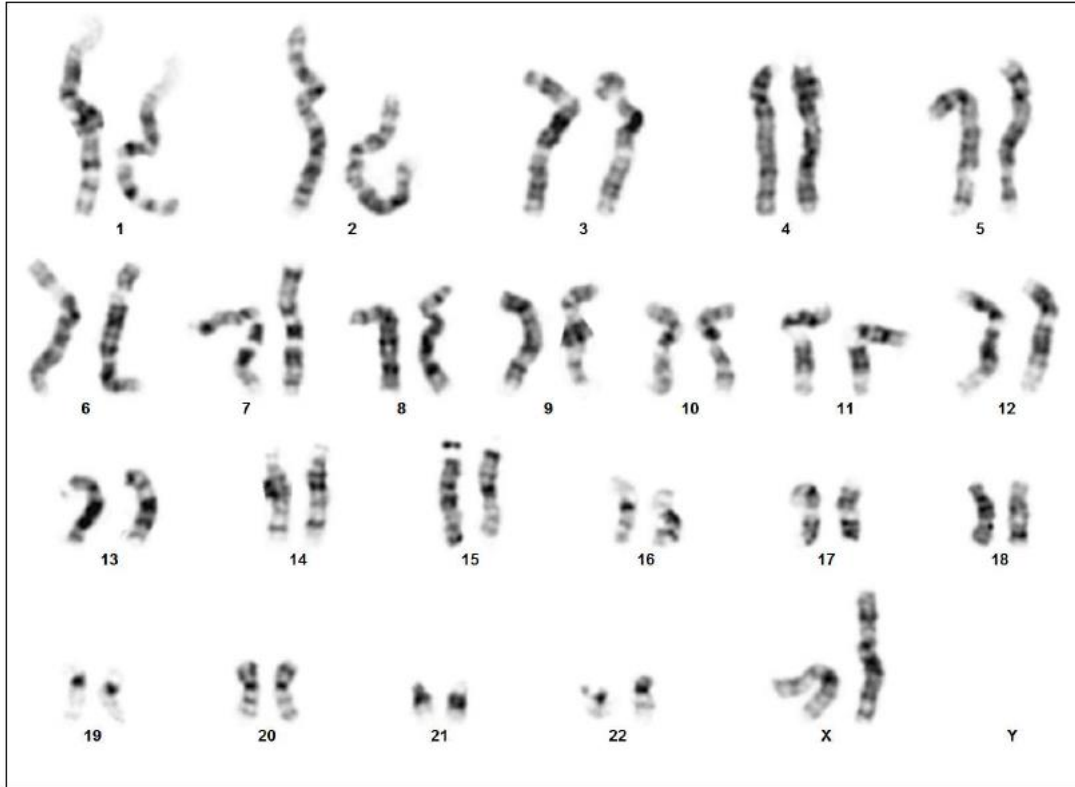
### ENDODERM



*In vitro* differentiation of embryoid bodies (EB) towards three germ layers and confocal images of immunofluorescence using specific antibodies against the ectodermal markers  $\beta$ III-tubulin (TUJ1) and paired box protein 6 (PAX6), mesodermal marker  $\alpha$ -sarcomeric actin (ASA) and endodermal markers  $\alpha$ -fetoprotein (AFP) and SRY-box transcription factor 17 (SOX17), in RP25\_UiPSC\_mR5F\_8 iPSC at passage 13. Nuclei stained with DAPI. Scale bars: 100  $\mu$ m in a-c, d-e; 50  $\mu$ m f-i

# Annex 4 Karyotype

 **SJD** Sant Joan de Déu  
Barcelona · Hospital



Case name: 21950499

NHC: CT0455

Name: PR25 p5

Date: 7/15/2022

Result: 46,XX

## Annex 5

### Authentication (microsatellites)

Línea celular	Loci STRs analizados									
	TH01	D21S11	D5S818	D13S317	D7S820	D16S539	CSF1PO	AMEL	vWA	TPOX
RP25 urine cells p2	6; 7	26; 30	12; 13	11; 12	11	9; 14	11; 13	X	16; 17	8; 11

Línea celular	Loci STRs analizados									
	TH01	D21S11	D5S818	D13S317	D7S820	D16S539	CSF1PO	AMEL	vWA	TPOX
RP25-UiPSC-mR5F-1 p5	6; 7	26; 30	12; 13	11; 12	11	9; 14	11; 13	X	16; 17	8; 11

Microsatellite analysis authentication  
 Parental urine cells: RP25 urine cells p2  
 hiPS generated: RP25\_UiPSC\_mR5F p5

## Annex 6 Mycoplasma test

