



Certificate of analysis

iPS MK002-7

Operator: Jane Vowles

Date: 06/01/2016

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Date: 01/09/2016

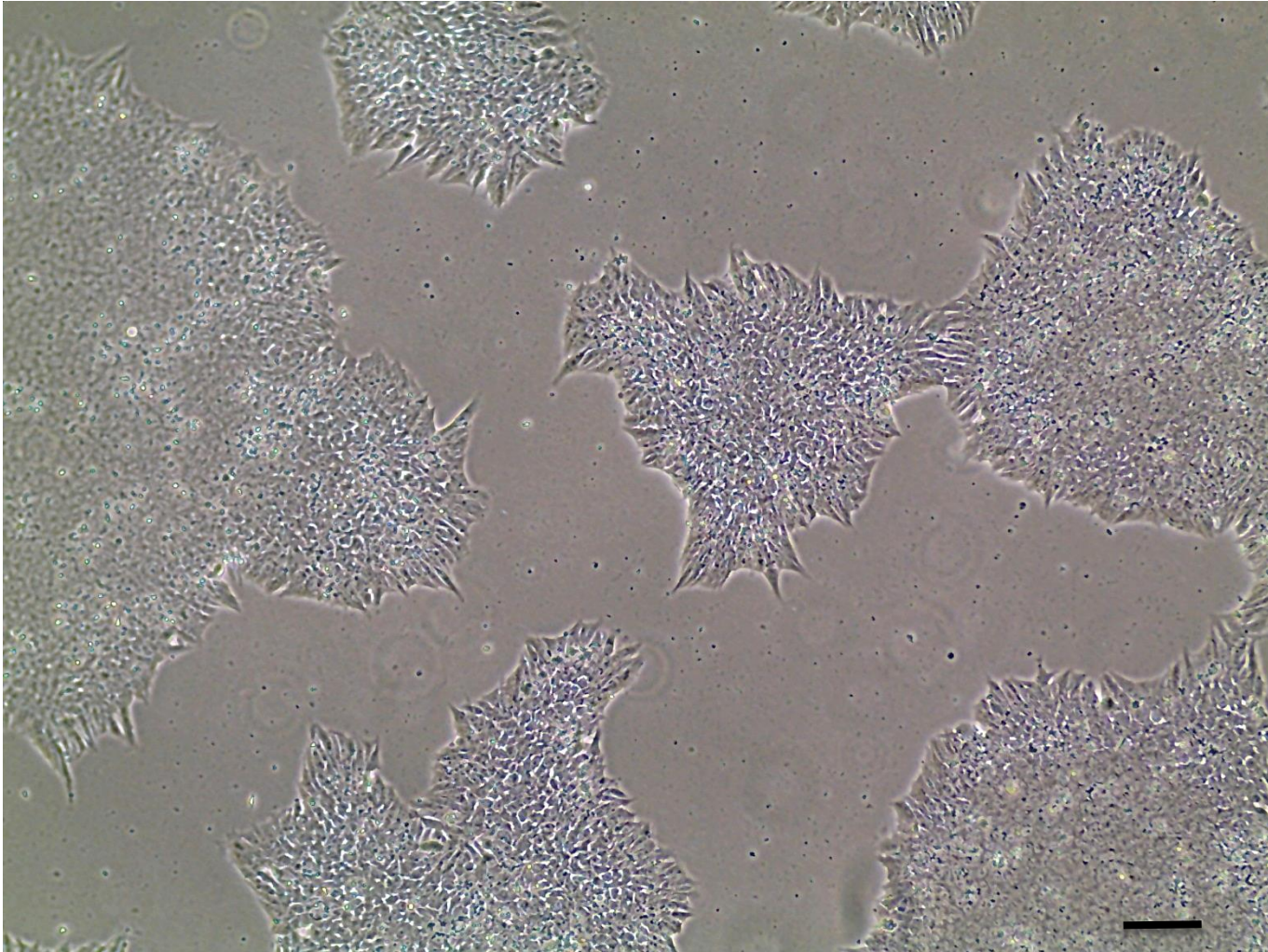
Signature: *SACowley*

Source of fibroblasts and reprogramming information

- HDF MK002 from OPDC
- Received 21/01/2011
- Female, aged 72, Lrrk2 G2019S
- Reprogrammed at UOXF JMSCF
- Reprogrammed on 06/09/12 at passage 7
- Yamanaka retrovirus

Photo p12

(scale bar = 100 μ m)



Mycoplasma Test:

According to R & D MycoProbe CUL001B undetectable in HDF prior to reprogramming

iPS JR036-1	-0.028		-0.043	NHDF OX1	
iPS MK024-3	-0.019		-0.031	NHDF OX2	
iPS MK024-4	-0.055		2.762	positive control	
NHDF MK002	0.005		0.000	negative control	

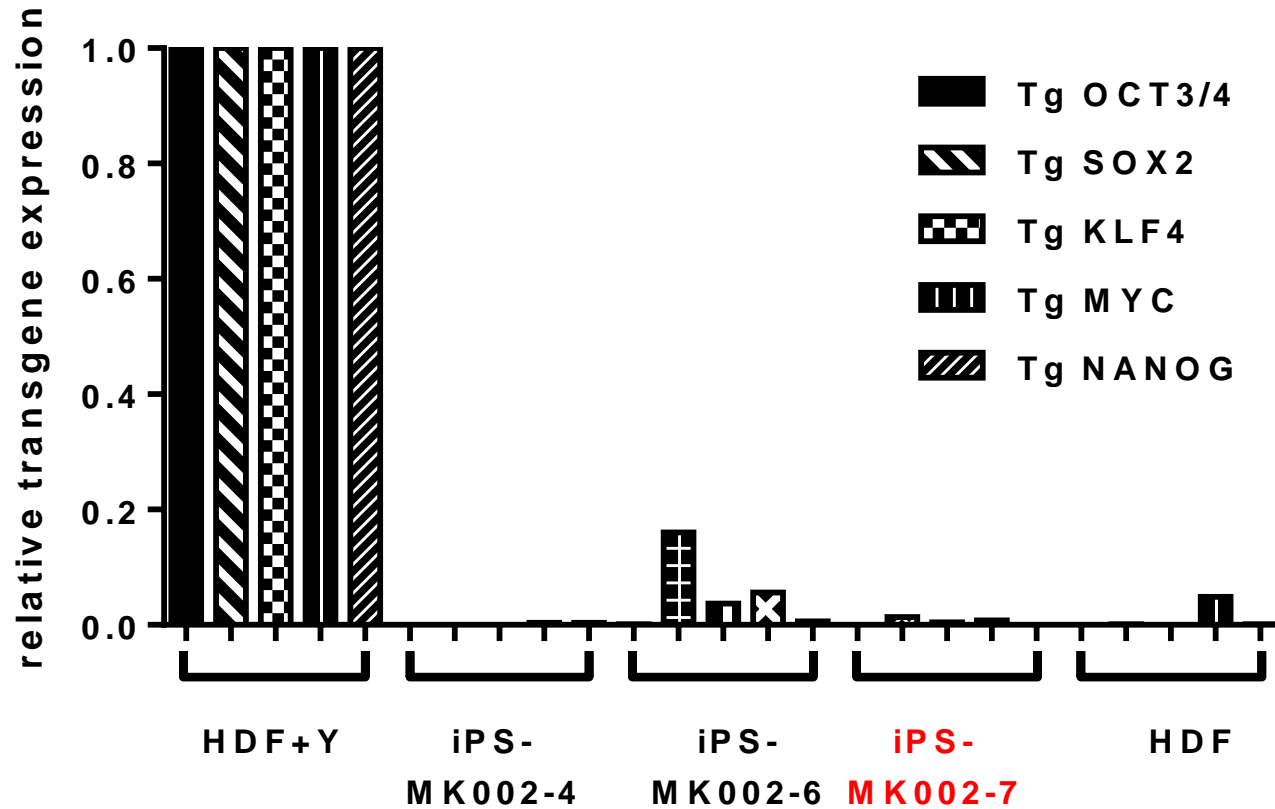
Results mean

<0.05 negative for mycoplasma

0.05-0.1 Borderline Result (retest required)

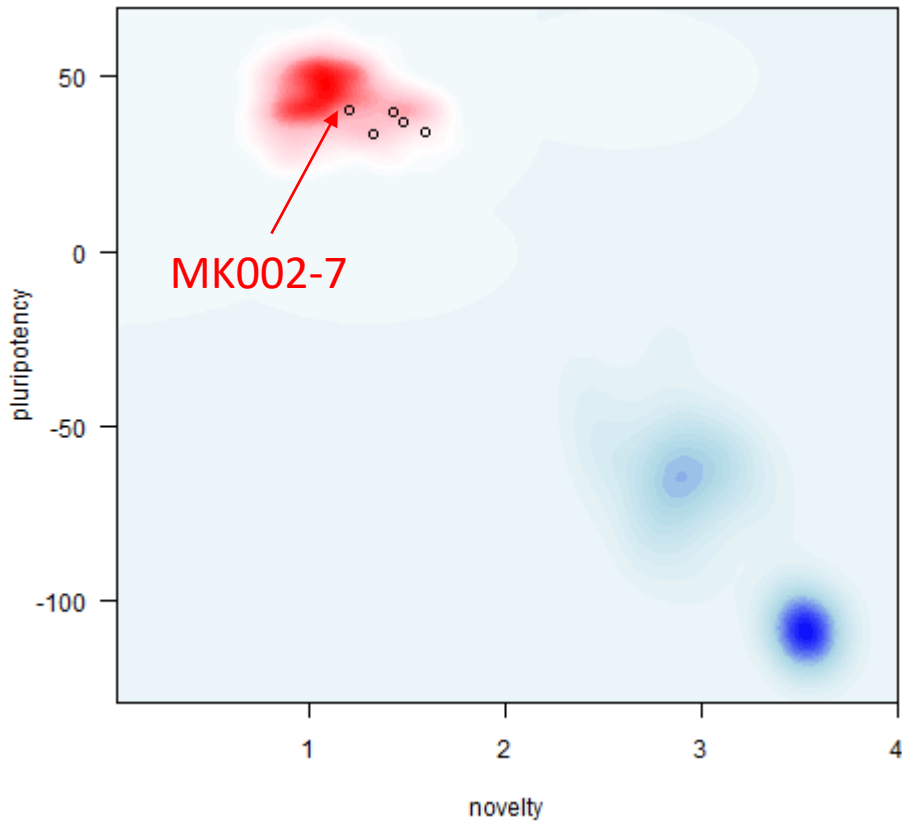
>0.10 positive for mycoplasma

Silencing of transgenes



(normalised to NHDF transduced with Yamanaka reprogramming retroviruses/Nakanishi SeV 5d before harvest, 'NHDF+Y', relative to actin)

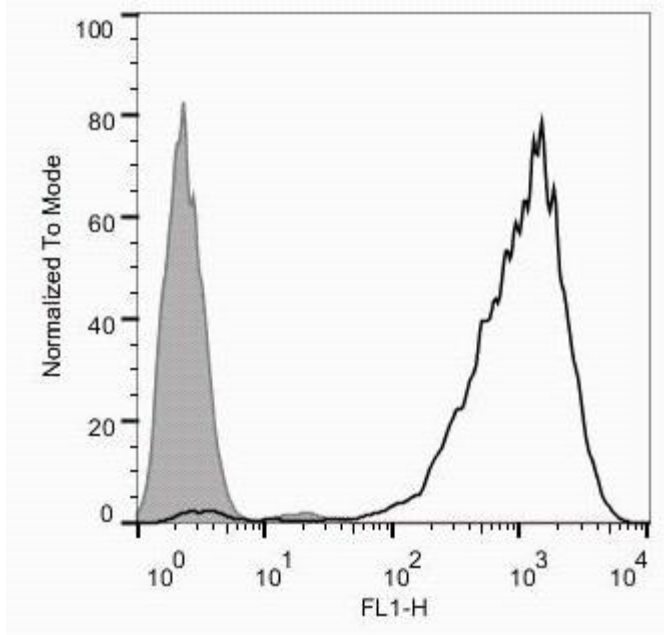
PluriTest analysis of Illumina HT12v4 transcriptome array p19



	pluri-raw	pluri logit-p	novelty	novelty logit-p	RMSD
JR023_2	34.33	1	1.59	0.06	0.47
MK002_7	40.77	1	1.20	0.00	0.43
MK088_7	36.84	1	1.48	0.02	0.40
MK144_1	33.82	1	1.33	0.00	0.42
MK144_10	39.68	1	1.43	0.01	0.44

Flow cytometric analysis of pluripotency markers passage 17

Tra-1-60:



SNP analysis

Illumina Human CytoSNP-12v2.1 beadchip array

- Passage p10
- Identity to parent fibroblasts confirmed
- Karyotype abnormalities: none detected

