



Certificate of analysis

iPS MK082-30

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Date: 06/01/2016

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Date: 28/07/2016

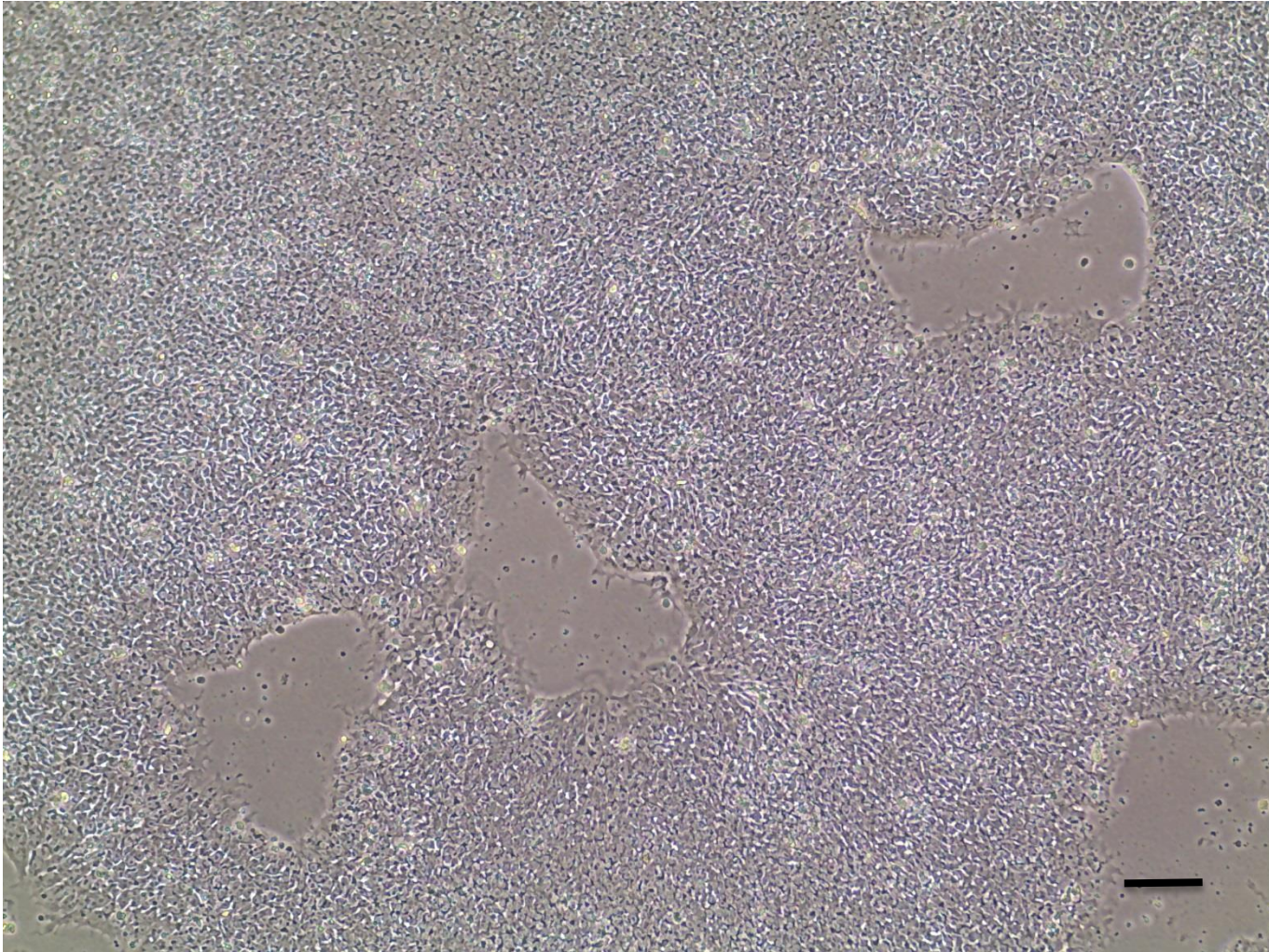
Signature: *SACowley*

Source of fibroblasts and reprogramming information

- HDF MK082 from OPDC
- Received 21/06/2011
- Male, aged 51, GBA mutation N370S
- Reprogrammed at UOXF JMSCF
- Reprogrammed on 09/01/2012 at passage 6
- Yamanaka retrovirus

Photo p16

(scale bar = 100 μ m)



Mycoplasma Test:

According to MycoAlert Lonza LT07-318 undetectable at passage 18

Sample	Clone	Passage number	Initials	Reading 1	Reading 2	Ratio/Status
+ve control				2.343	156.5	66.79
-ve control				3.27	0.362	0.11
1	MK082-26	p12+11	JV	4.166	2.231	0.54
2	MK082-30	p8+10	JV	1.332	0.889	0.67
3	MK082-31	p11+10	JV	4.847	2.372	0.49

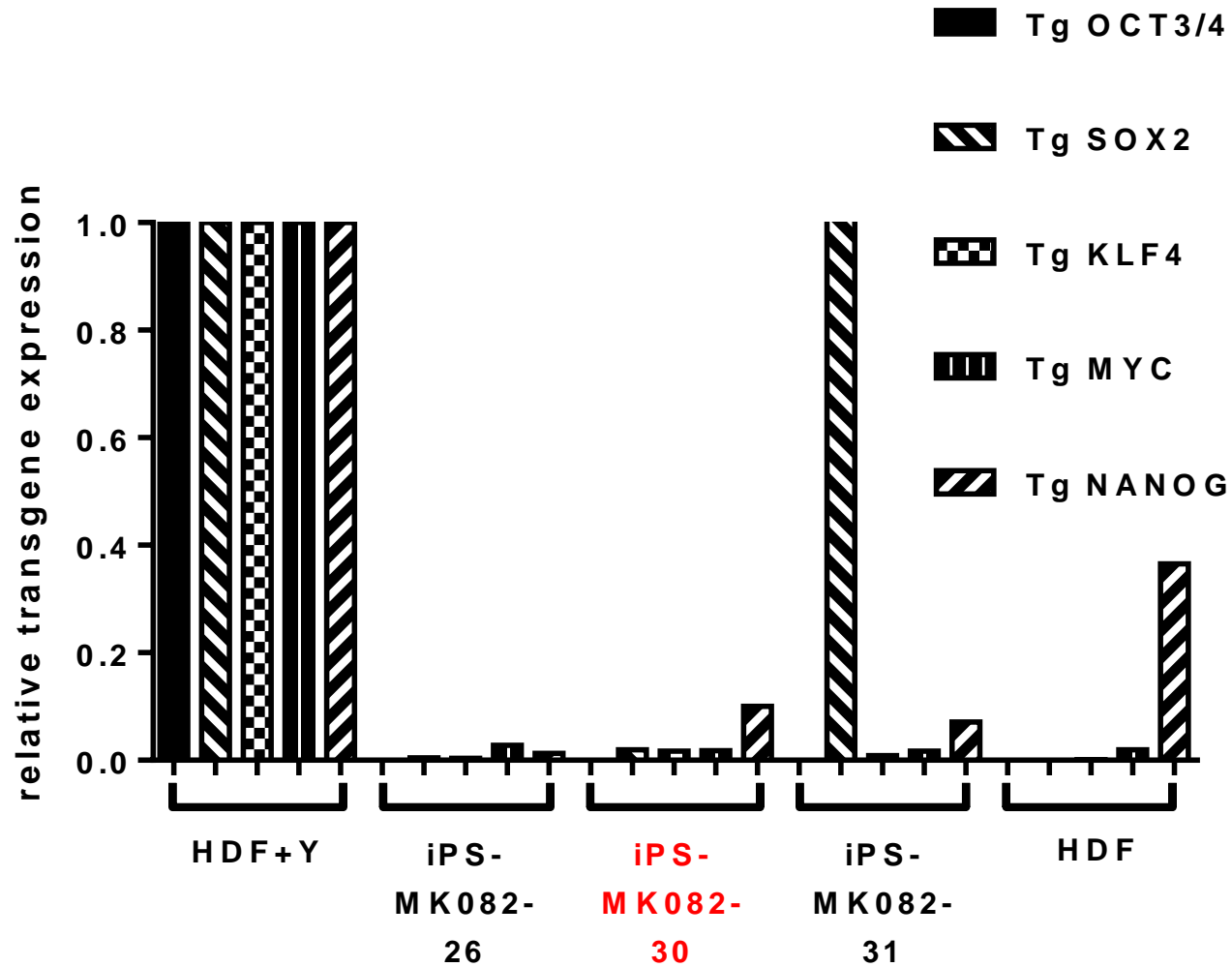
Results mean

Ratio **0 - 0.999** negative for mycoplasma

Ratio **1 – 1.3** Borderline Result (retest required)

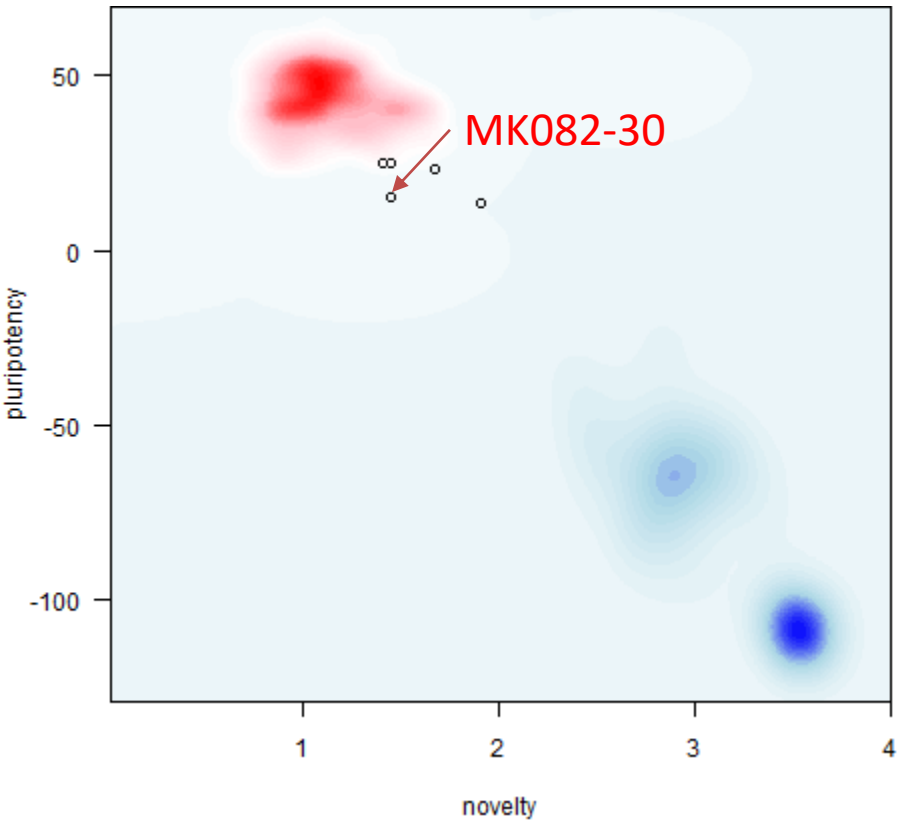
Ratio above **1.3** positive for mycoplasma

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 p15

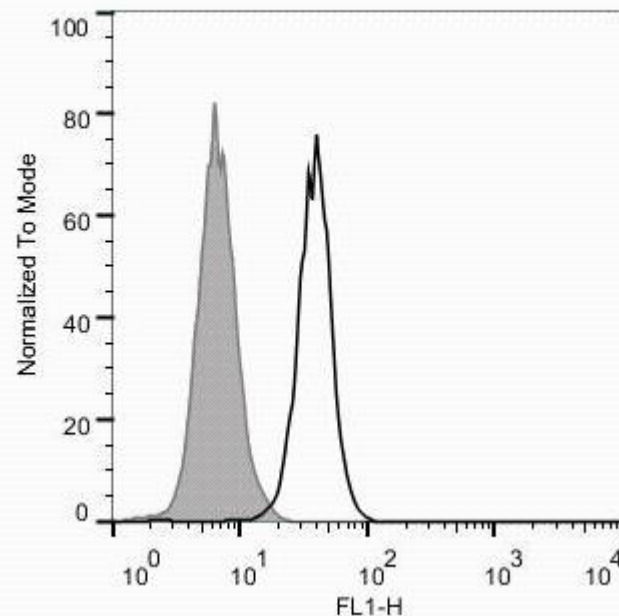
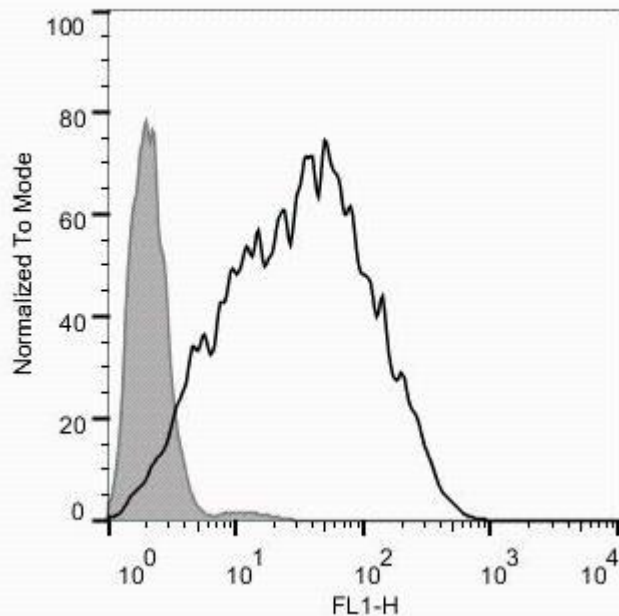


	pluri-raw	pluri logit-p	novelty	novelty logit-p	RMSD
iPS.MK082.26	25.29	1	1.46	0.02	0.41
iPS.MK082.30	15.37	1	1.46	0.02	0.46
iPS.MK082.31	24.89	1	1.42	0.01	0.40
iPS.MK088.1	23.43	1	1.67	0.13	0.50
iPS.MK088.7	13.57	1	1.91	0.63	0.60

Flow cytometric analysis of pluripotency markers passage 12

Tra-1-60:

NANOG:



SNP analysis

Illumina Human CytoSNP-12v2.1 beadchip array

- Passage 12
- Identity to parent fibroblasts confirmed
- Karyotype abnormalities: none detected

