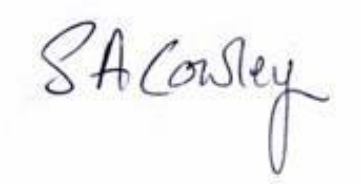
Certificate of analysis

SFC867-04-09

Operator: Olga Perestenko Date: 08/01/2016

Supervisor: Sally Cowley Date: 31/08/2016

Signature: 

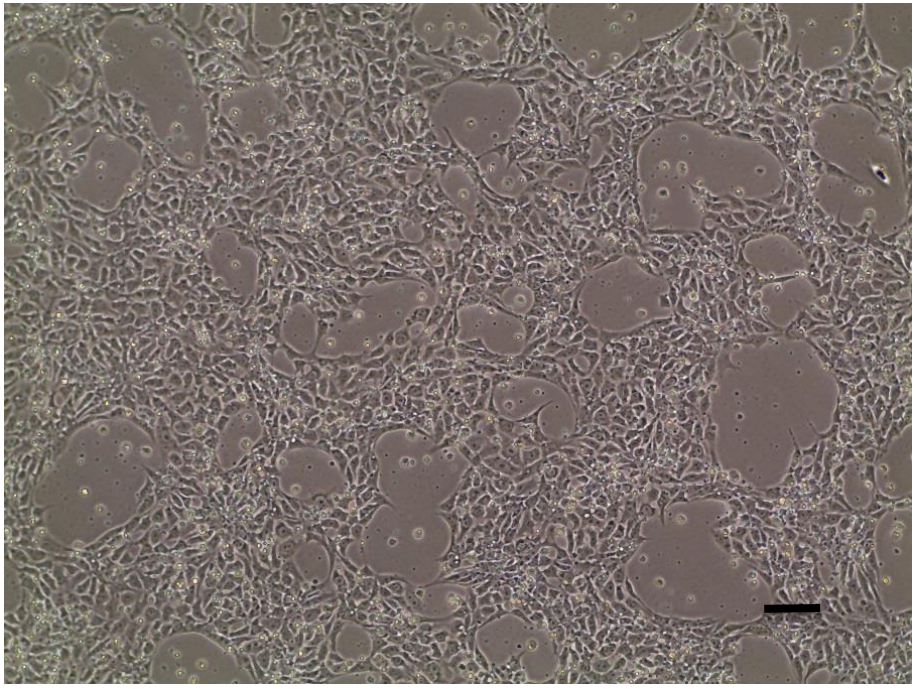
Source of fibroblasts and reprogramming information

- SF867 from Oxford University 01/08/2014
- Reprogrammed at UOXF JMSCF
- Reprogrammed on 11/06/2015 at passage 4
- Cytotune v2 WP3 SOP10

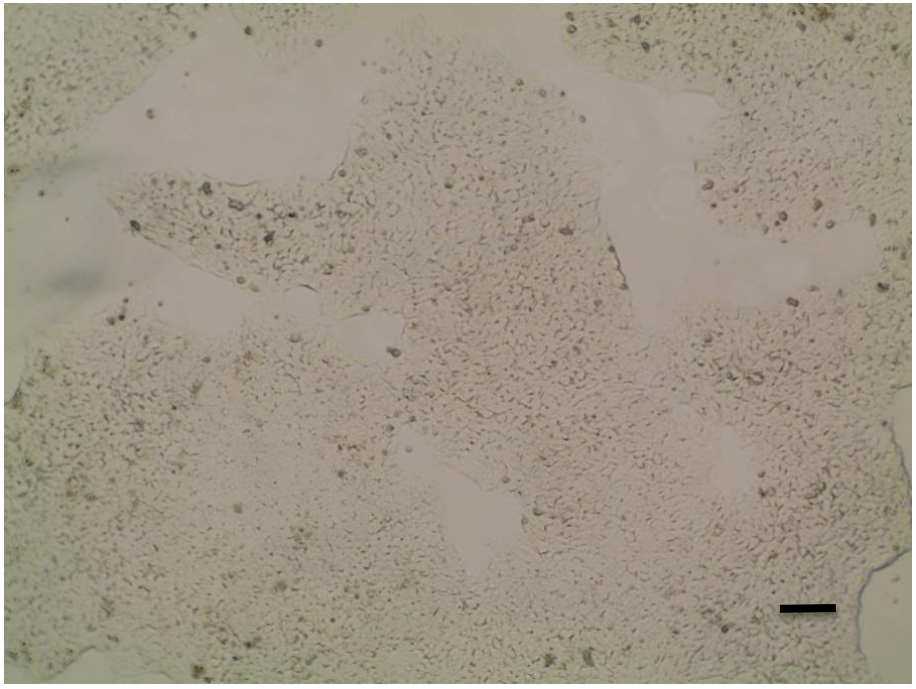
Viability post-thaw and Morphology according to SOP19 passage 16

- Cell count immediately post-thaw 3.9 x 10^5
- Viability immediately post-thaw 61.4%
- Photo at 24h and 4 day post-thaw (scale bar = 100µm):

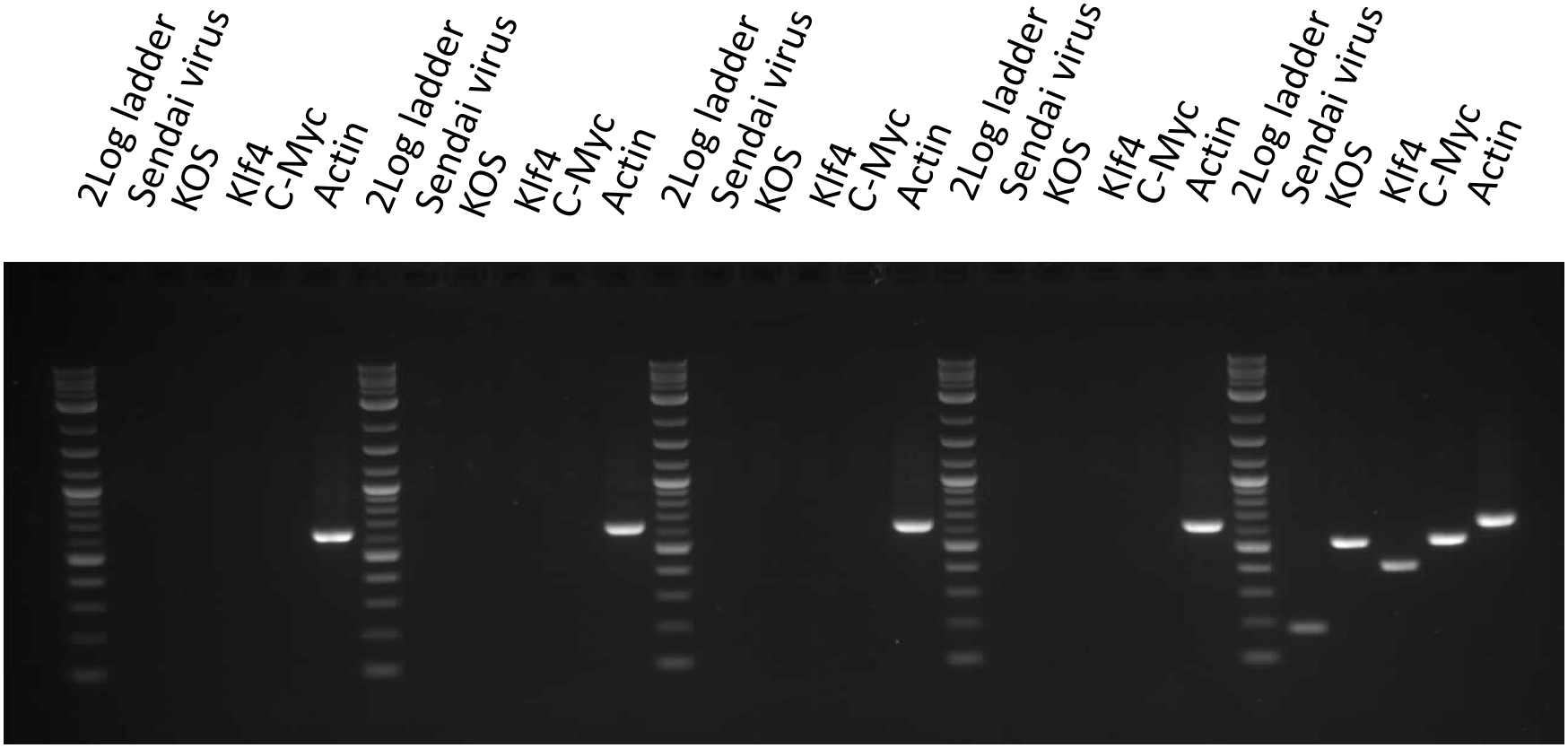
24h post-thaw 80% plated



Day 4 post-thaw 20% plated



Sendai clearance: according to WP3 SOP15 undetectable at passage 16



SFC121-03-02 **SFC867-04-09** SFC867-04-12 - control + control

Product sizes: SeV 181bp; KOS 528bp; SeV-Klf 410bp; SeV-Myc 532bp; Actin 623bp

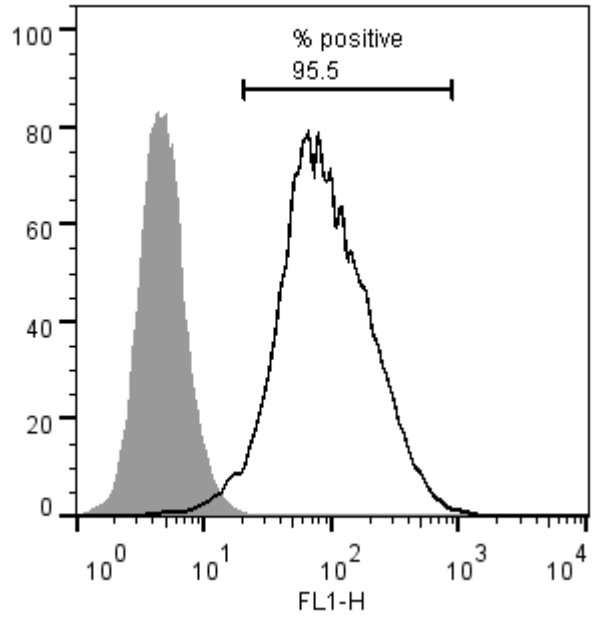
Mycoplasma Test:
According to MycoAlert Lonza LT07-318 undetectable at passage 16

Sample	Clone	Passage number	Initial	Reading 1	Reading 2	Ratio/Status
+ve control				8.20	284.00	**34.65**
-ve control				8.28	0.93	**0.11**
9	SFC867-04-09	p16	OP	1.95	0.72	**0.37**

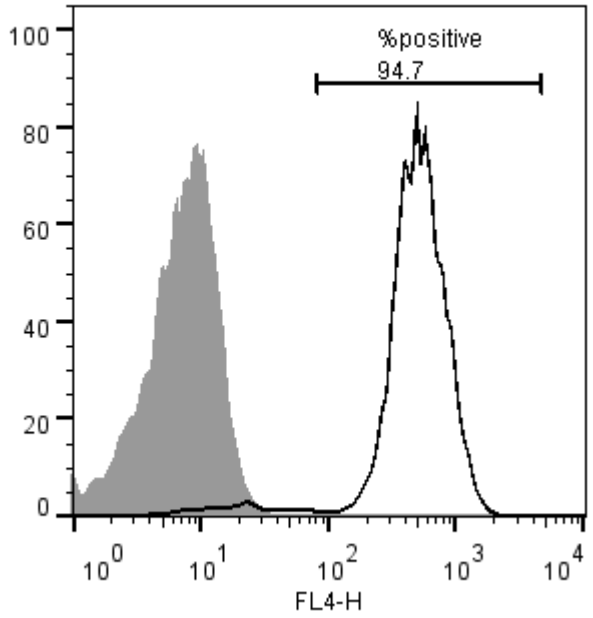
Results mean
Ratio **0 - 0.999** negative for mycoplasma
Ratio **1 – 1.3** Borderline Result (retest required)
Ratio above **1.3** positive for mycoplasma

Flow cytometric analysis according to WP3 SOP 20 and 21 passage 16

Tra-1-60:



NANOG:



SNP analysis according to WP3 SOP Preparation of DNA and RNA samples for Illumina arrays

- Passage 20
- Identity to parent fibroblasts confirmed
- Karyotype abnormalities: minor allelic imbalance C6 also indicated on fibroblasts
- For details and raw data see StemDB