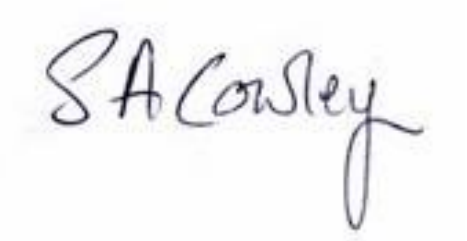
Certificate of analysis

SFC832-03-06

Signature: Jane Vowles Date: 07/04/2015

Supervisor signature: Date: 07/04/2015

Sally Cowley

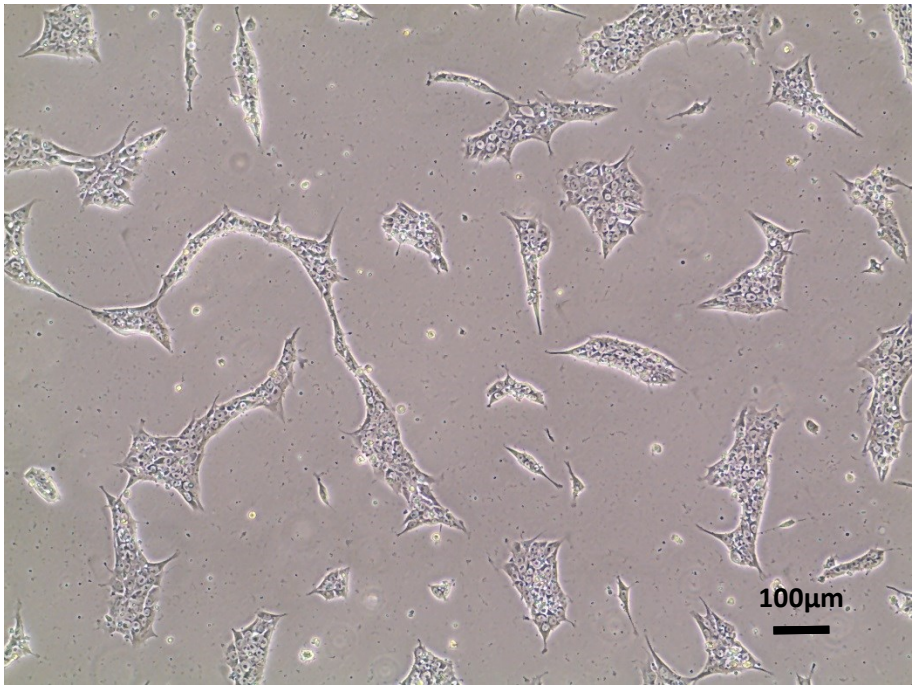


Source of fibroblasts and reprogramming information

- SF832 from UOXF 23/07/2012
- Reprogrammed at UOXF JMSCF JV
- Reprogrammed on 17/07/13 at passage 4
- Cytotune v1 WP3 SOP10

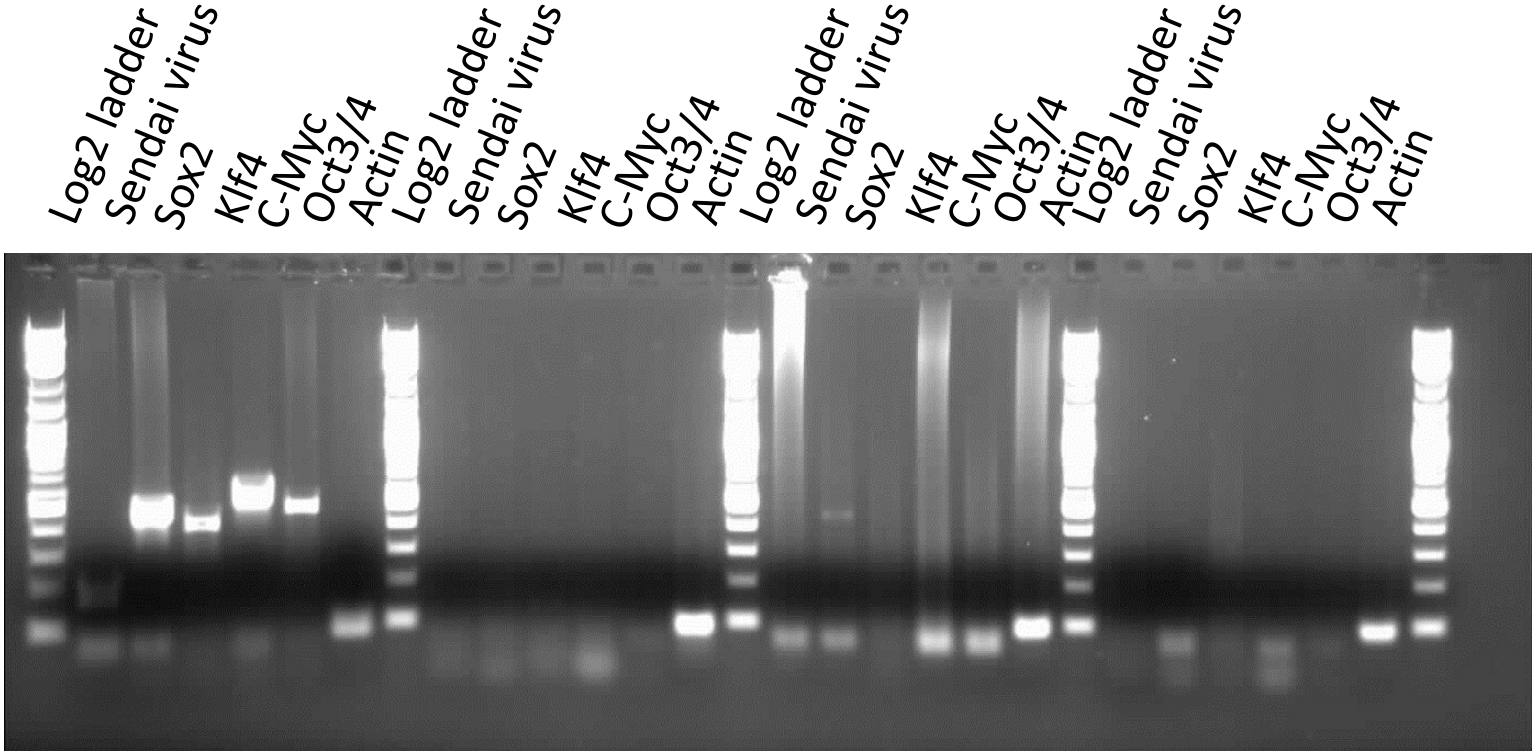
Viability post-thaw and Morphology according to SOP19 passage 18

- Cell count immediately post-thaw 2.39 x 10^6
- Viability immediately post-thaw 90.8%
- Photo at 24h post-thaw:



Sendai clearance: according to WP3 SOP15

undetectable at passage 18 except faint residual Sox; see test at later passage

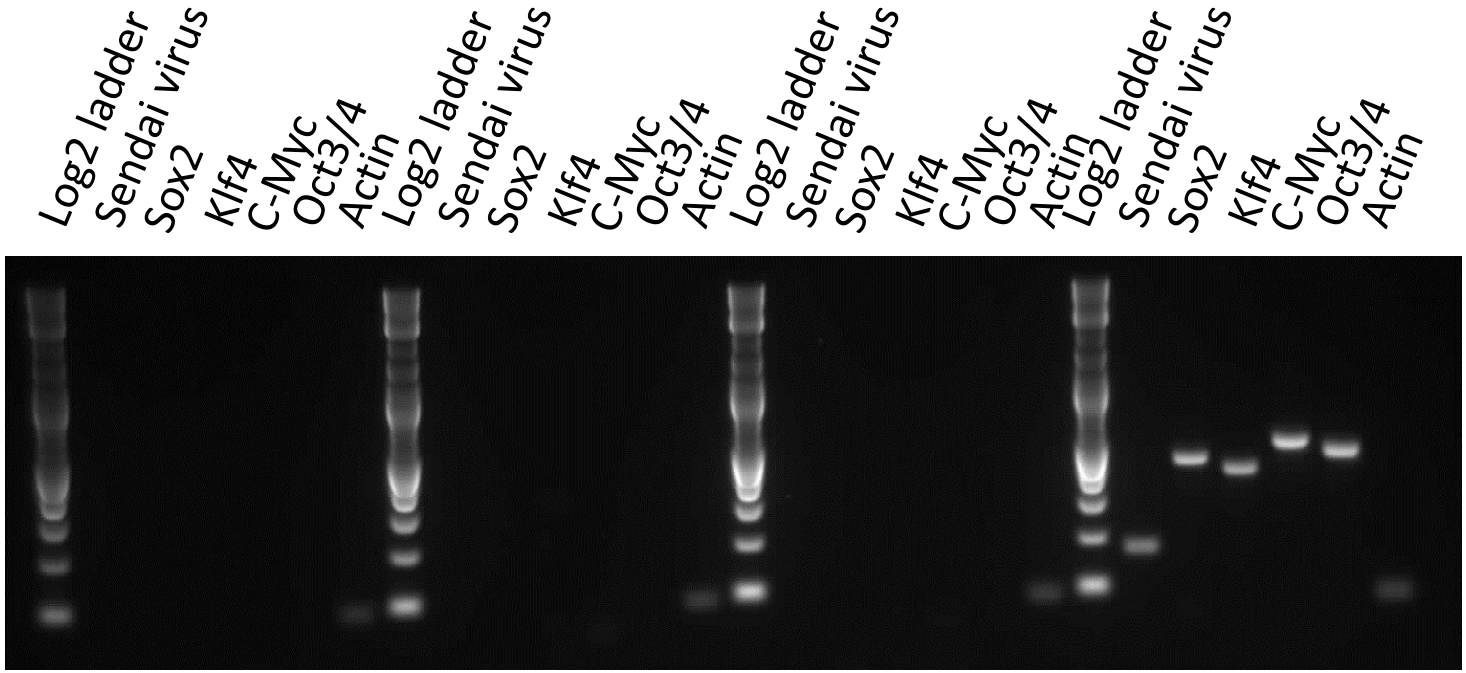


+ control SFC821-03-01 SFC832-03-06 SFC837-03-03

Product sizes: SeV 181bp; SeV-Sox 451bp; SeV-Klf 410bp; SeV-Myc 532bp; SeV-Oct 483bp; Actin 92bp

Sendai clearance: according to WP3 SOP15

undetectable at passage 22



- control SF817 SFC824-03-03 SFC832-03-06 + control

Product sizes: SeV 181bp; SeV-Sox 451bp; SeV-Klf 410bp; SeV-Myc 532bp; SeV-Oct 483bp; Actin 92bp

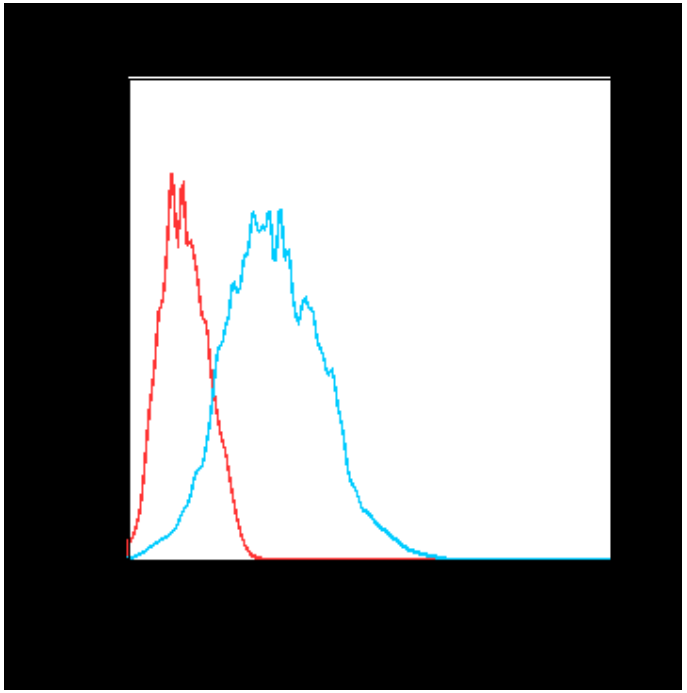
Mycoplasma test:
According to MycoAlert Lonza LT07-318
Undetectable at passage 18

Sample	Operator	Passage No.	Reading 1	Reading 2	Ratio / Status
+ve Control			5.040	237.4	**47.1**
-ve Control			7.488	0.897	**0.12**
SFC832-03-06	JV	p18	1.721	0.792	**0.460**

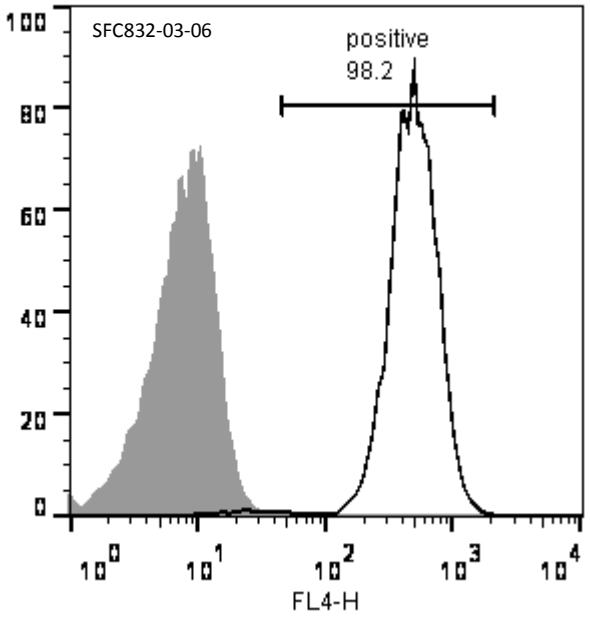
Results mean
Ratio **0 - 0.999** negative for mycoplasma
Ratio **1 – 1.3** Borderline Result (retest required)
Ratio above **1.3** positive for mycoplasma

Flow cytometric analysis according to WP3 SOP 20 and 21 passage 18

Tra-1-60:



NANOG:



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

- Passage 18
- Identity to parent fibroblasts confirmed
- Karyotype abnormalities acceptable: 1 moderate region allelic imbalance Chr6 which is present in parental fibroblasts
- For details and raw data see StemDB