Certificate of analysis

SFC049-03-10

Signature: Theodore Latsis: 11-08-2015

Supervisor signature: Lyle Armstrong

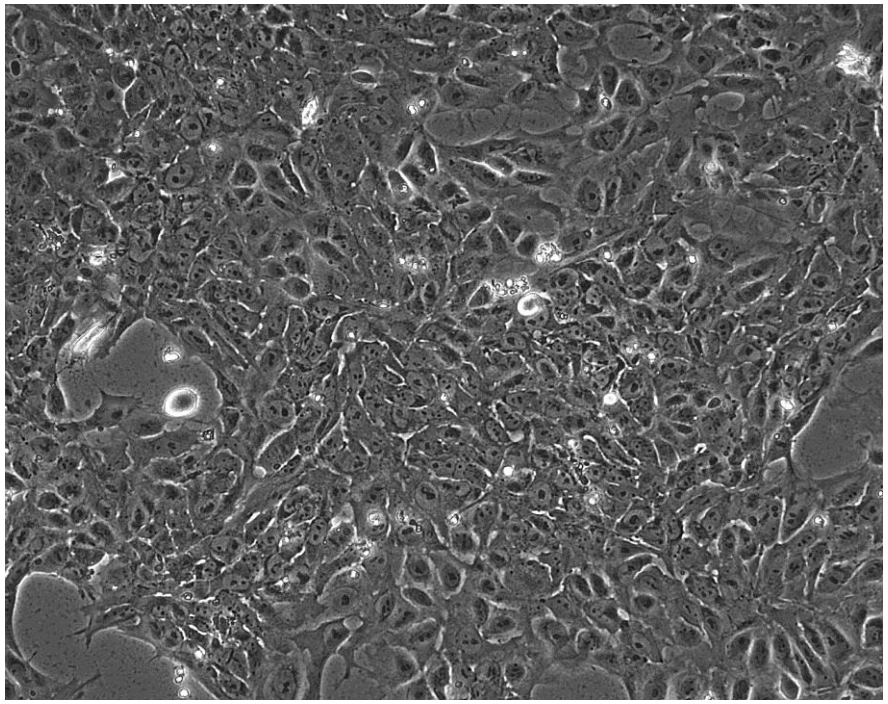
Date: 11-08-2015

Source of fibroblasts and reprogramming information

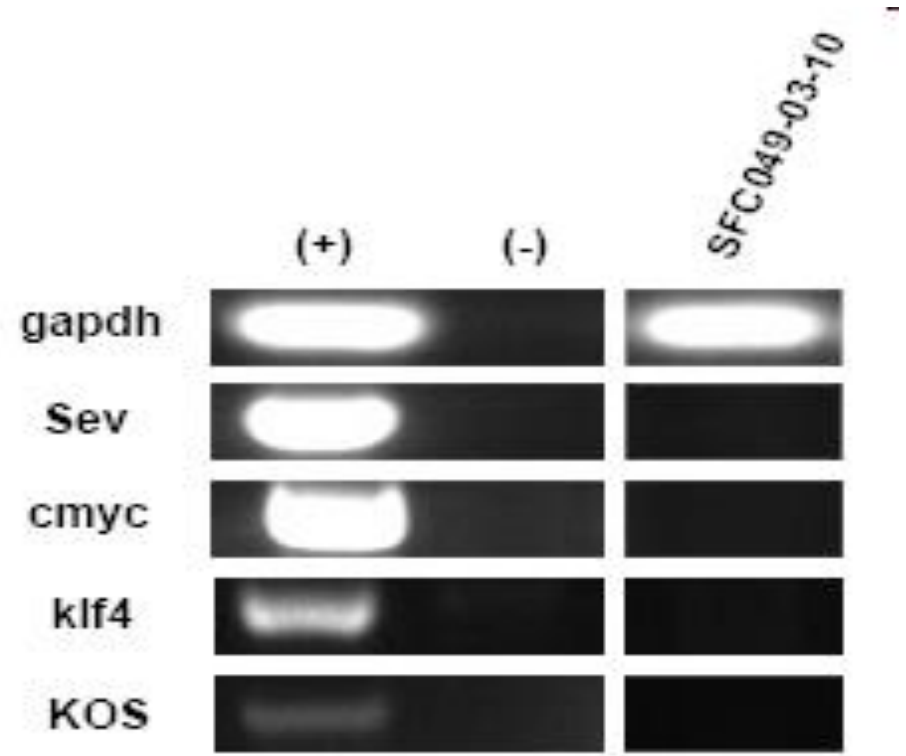
- SF049 from University of Oxford
- Reprogrammed at UNEW, on 13-01-2015 at passage 5
- Cytotune 2
- This cell line has been difficult to expand mainly due to differentiation when passaged. Over time, this clone became accustomed to EDTA (versene) passaging and differentiation was diminished. Cells/colonies should be passaged every 4-6 days. Cultures should not be allowed to become confluent as it will lead to differentiation.
- Cultures become confluent after 24-32h post thaw, so it is advisable that cells are seeded in 2 wells of a 6-well plate.

Viability post-thaw and Morphology according to SOP19 passage 21

- Cell count immediately post-thaw: 1.7x 10^6
- Viability immediately post-thaw: 83%
- Photo 32h post-thaw



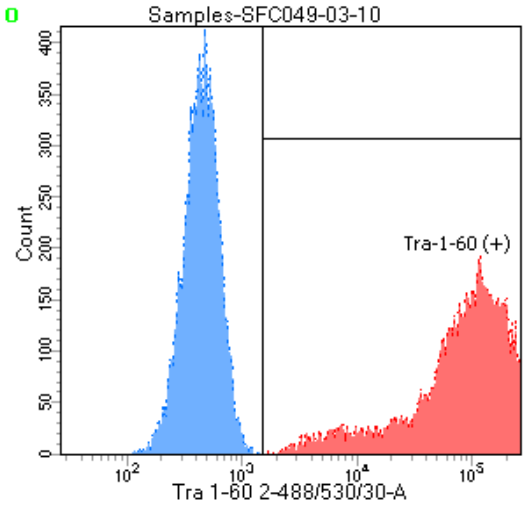
Sendai clearance: according to WP3 SOP15 undetectable at passage 21

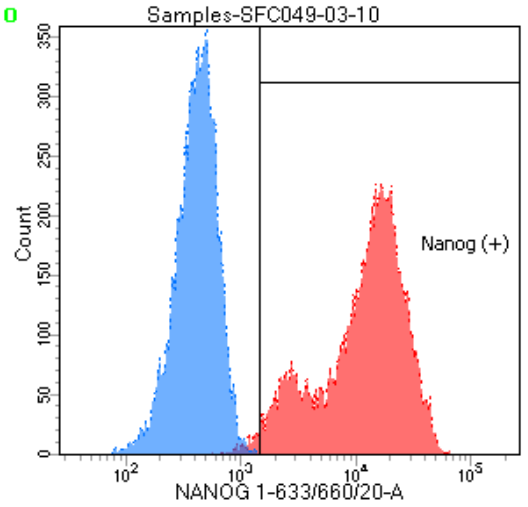


Mycoplasma test:
According to MycoAlert Lonza LT07-318
Undetectable at passage 21

> 1.2		Mycoplasma Contaminated	Positive Control	Negative Control	**Cell name**	SFC-049-03-10
0.9-1.2		Status Unknown - Restest within 24 hours	0.053	0.062	**A**	0.012
0-0.9		Mycoplasma Free	0.963	0.010	**B**	0.006
			18.068	0.166	**B/A**	0.483

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





Tube: SFC049-03-10

Population	#Events	%Parent	%Total
All Events	20,000	####	100.0
Cells	9,930	49.6	49.6
Tra-1-60 (+)	9,925	99.9	49.6
Nanog (+)	9,717	97.9	48.6
Samples/49/All Events	20,000	####	100.0
Samples/49/P1	9,231	46.2	46.2

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

- Passage 21
- Identity to parent fibroblasts confirmed
- Karyotype abnormalities: none detected
- For details and raw data see StemDB