



S I R W I L L I A M
DUNN SCHOOL
O F P A T H O L O G Y

Certificate of analysis

DRICUi004-A

Operator: SH Ellwood

Date: 20/06/2022

Supervisor: SA Cowley

Date: 21/12/2022

Signature:

SA Cowley

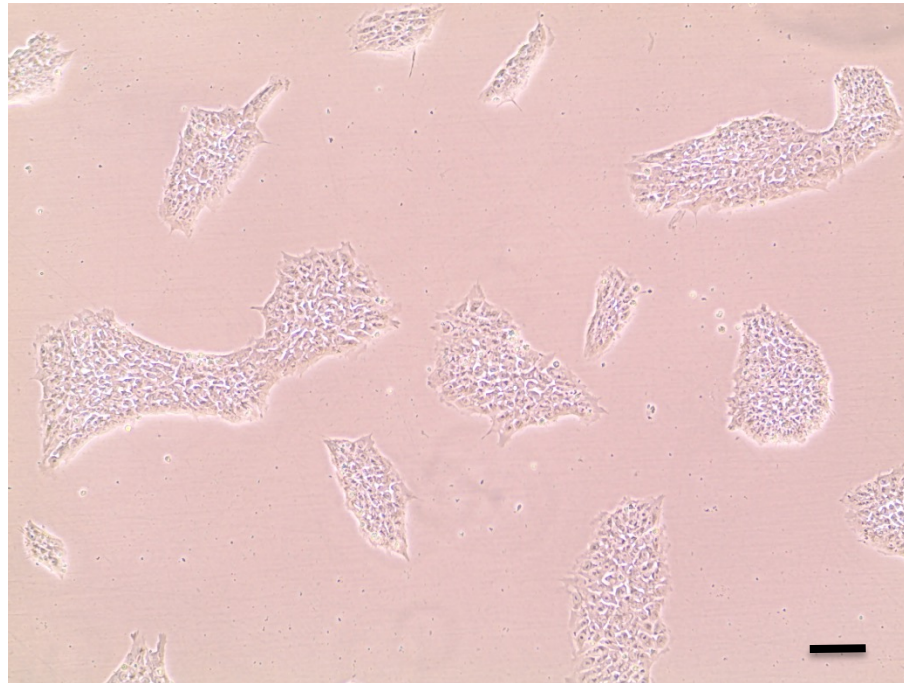
Source of cells and reprogramming information

- LC56A10012A T cells from Cardiff 09/06/2021
- Reprogrammed at UOXF AKA IPMAR02
- Reprogrammed on 06/2021 SC
- Reprogramming system Cytotune v2
- Clone DRICUi004-A = IPMAR02B5
- Banked at p11 09/2021 LB

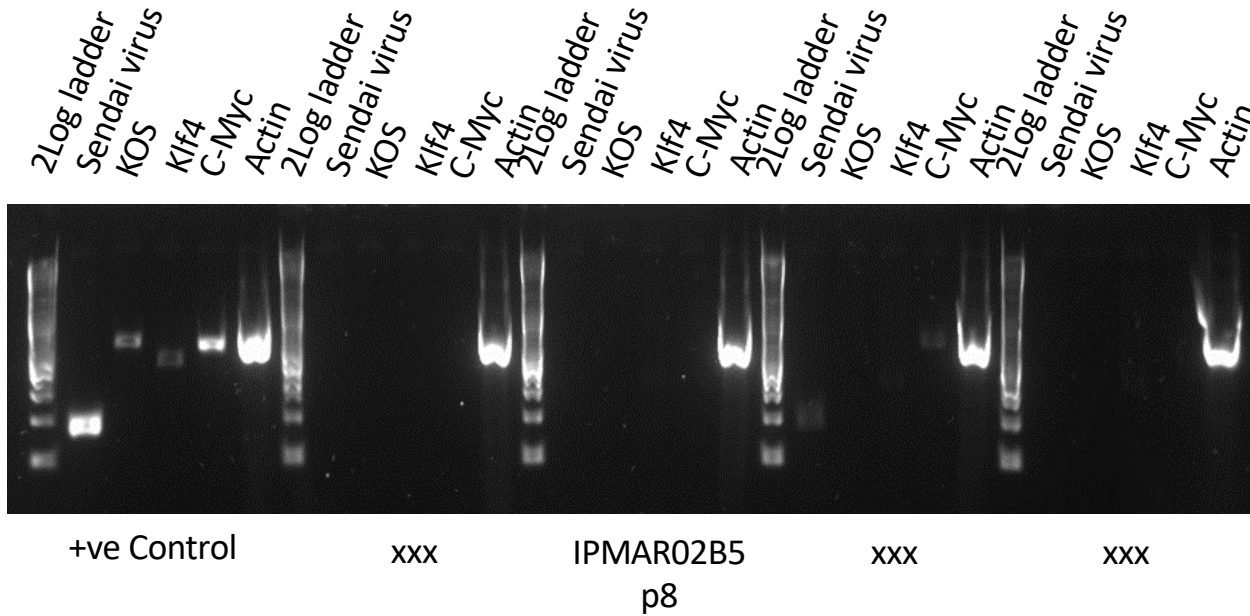
Viability post-thaw and Morphology according to JMSCFSOP19 passage 11

- Vial cell count immediately post-thaw 1.2×10^6
- Viability immediately post-thaw 90.6%
- Photo at day 2 post-thaw (scale bar = $100\mu\text{m}$):

Day 2 post-thaw, 20% plated to 1w.6wp



Sendai Cytotune 2 clearance: according to Cytotune manual Virus undetectable at passage 8



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

Sterility:

Mycoplasma Test: According to MycoAlert Lonza LT07-318 undetectable at passage 11.

Visual inspection of thawed cells cultured without antibiotic/antimycotic for 4 days:
no evidence of bacteria, yeast or fungus.

Sample	Clone	Passage number	Initial	Reading 1	Reading 2	Ratio/Status
+ve control				3.113	137.3	44.11
-ve control				4.135	0.713	0.17
	IPMAR02B5 DRICUi004	p11	SC	1.532	0.809	0.53

Results mean:

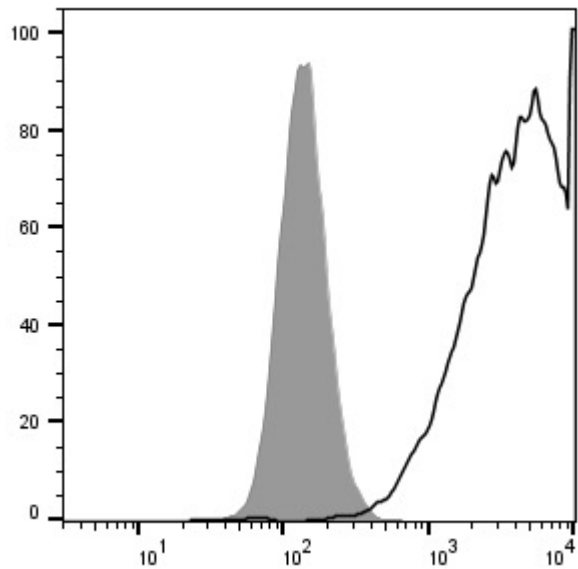
Ratio **0 - 0.999** negative for mycoplasma

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

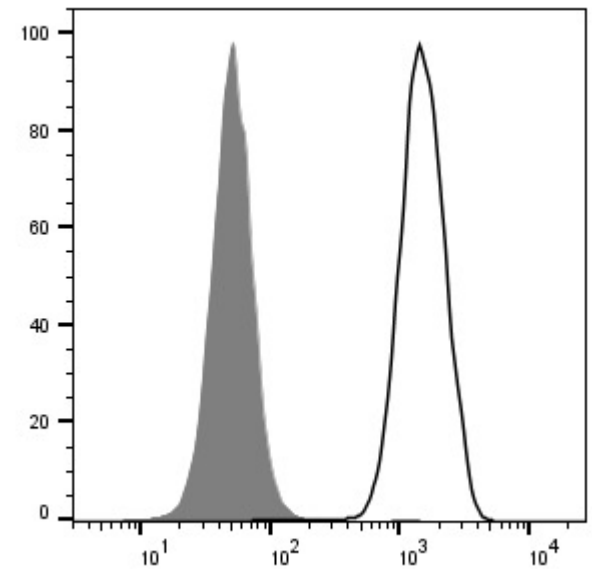
Ratio above **1.3** positive for mycoplasma

Flow cytometric analysis according to JMSCFSOP05 passage 11

DRICUi004-A Tra-1-60 98.4%



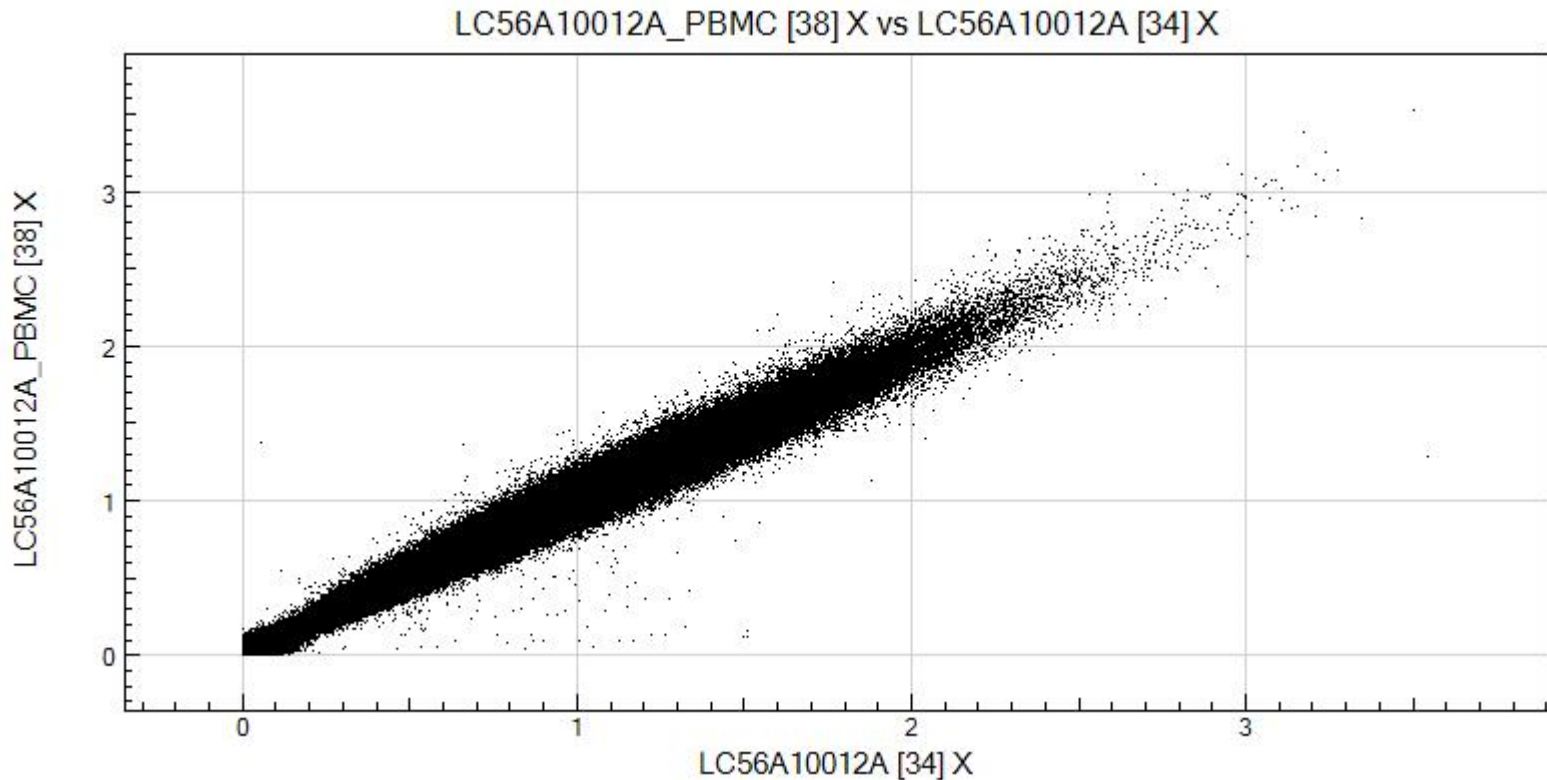
DRICUi004-A Nanog 99%



Illumina GSA SNP analysis according to JMSCFSOP16

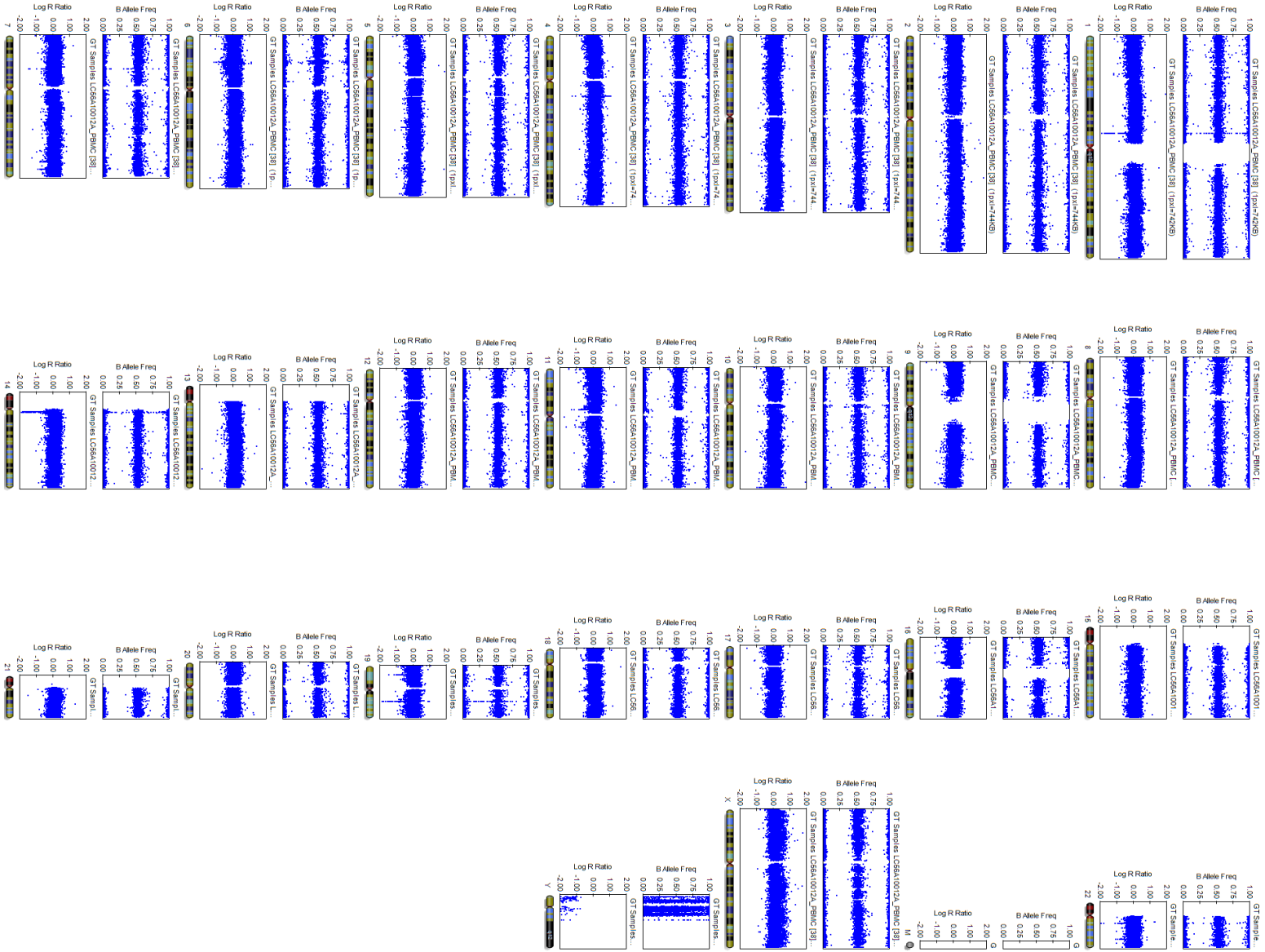
- Passage 11
- Identity to parent PBMC confirmed
- Karyotype abnormalities:
 - No gross abnormalities detected vs PBMC

Alignment of LC56A10012A PBMC SNPs with DRICUi004-A (LC56A10012A)



Regression Coefficient
 $R^2 : 0.9879$

Karyogram LC56A10012A PBMC



Karyogram DRICUi04-A

