



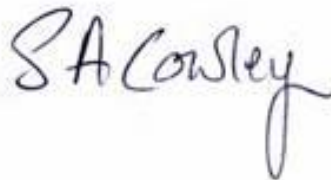
S I R W I L L I A M  
**DUNN SCHOOL**  
O F P A T H O L O G Y

# Certificate of analysis

DRICUi016-A

Operator: SH Ellwood Date: 23/06/2023

Supervisor: SA Cowley Date: 02/08/2023

Signature: 

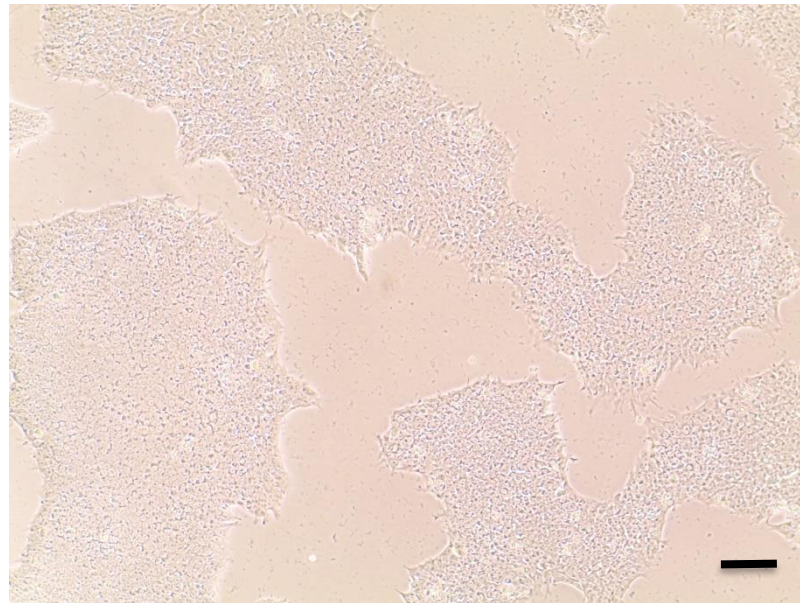
# Source of cells and reprogramming information

- GU66A10008a T cells from Cardiff 16/12/2021
- Reprogrammed at UOXF AKA IPMAR19
- Reprogrammed on 04/2022 SC
- Reprogramming system Cytotune v2
- Clone DRICUi016-A = IPMAR19A4
- Banked at p13 10/2022 SE

# Viability post-thaw and Morphology according to JMSCFSOP19 passage 14

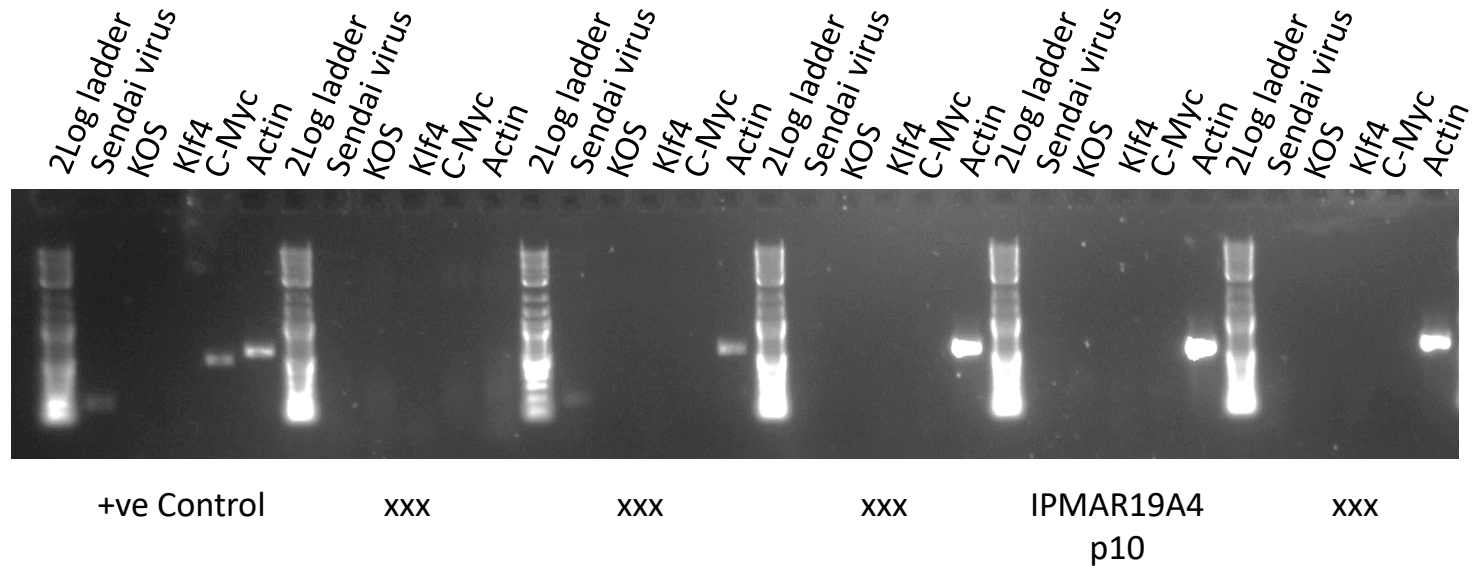
- Vial cell count immediately post-thaw  $2.32 \times 10^6$
- Viability immediately post-thaw 92.9%
- Photo at day 3 post-thaw (scale bar =  $100\mu\text{m}$ ):

Day 3 post-thaw, 20% plated to 1w.6wp



# Sendai Cytotune 2 clearance: according to Cytotune manual

KOS and Klf4 undeterminable but  
Virus backbone and c-Myc undetectable at passage 10 so overall pass



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 14.

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				5.25	61.96	<b>11.80</b>
-ve control				6.158	0.414	<b>0.07</b>
	IPMAR19A4 DRICUI016-A	p14	SE	2.279	0.955	<b>0.42</b>

Results mean:

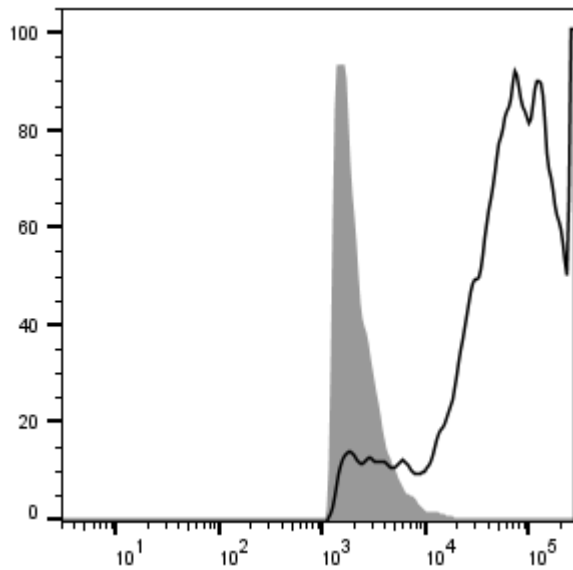
Ratio **0 - 0.999** negative for mycoplasma

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

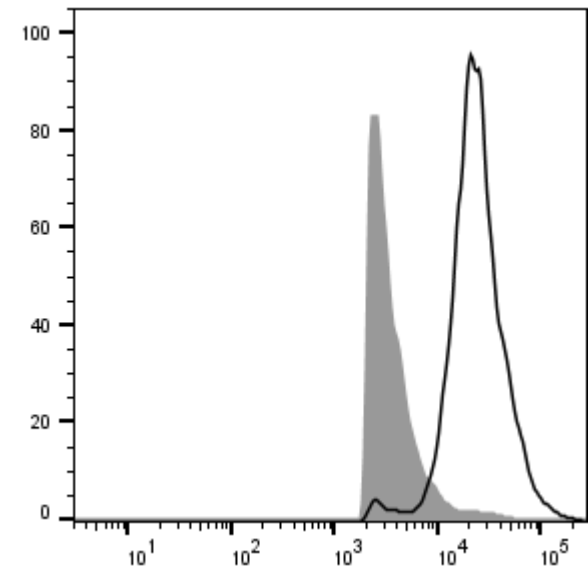
Ratio above **1.3** positive for mycoplasma

# Flow cytometric analysis according to JMSCFSOP05 passage 14

DRICUi016 Tra-1-60 87.6%



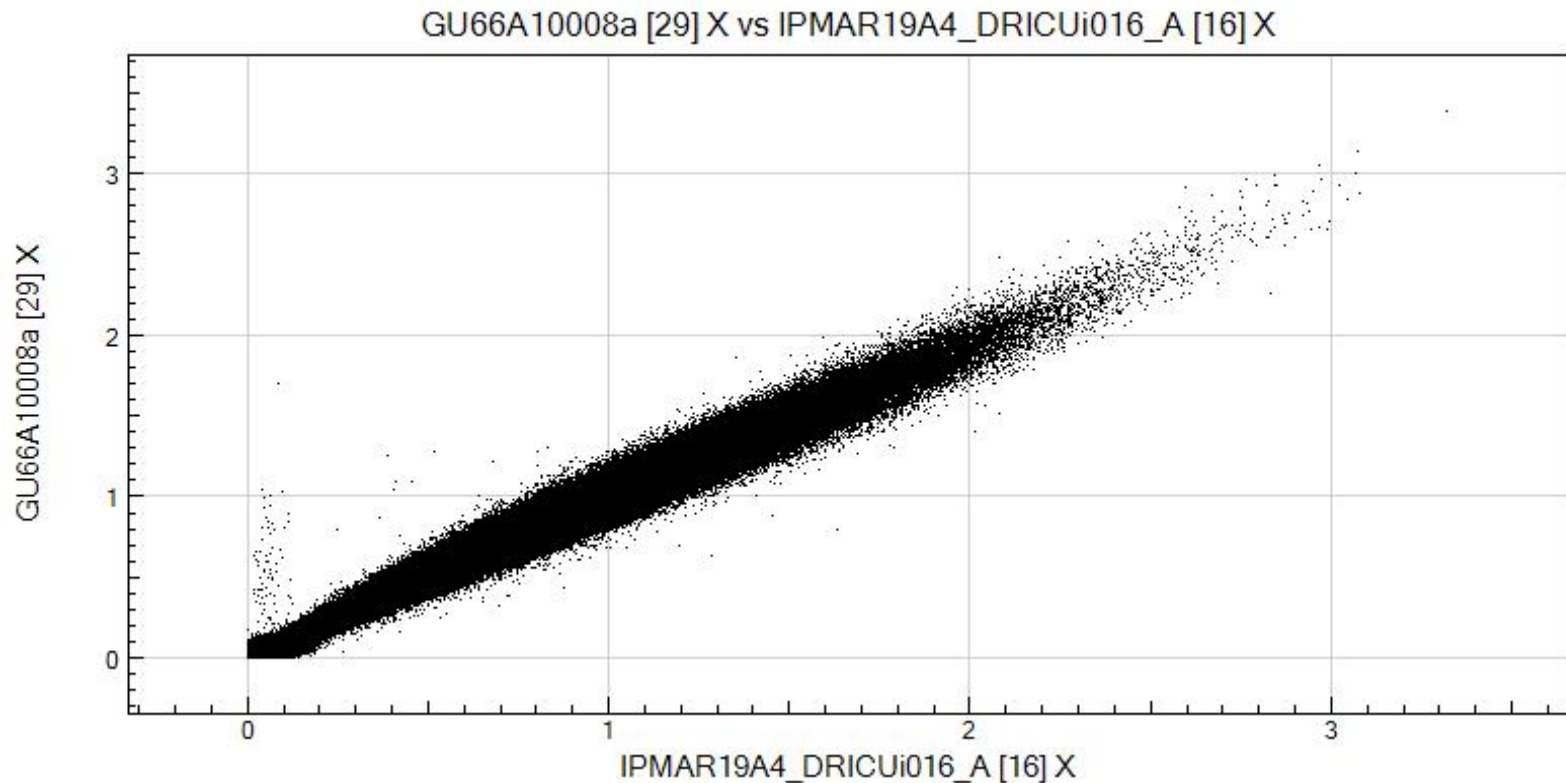
DRICUi016 Nanog 77.3%



# Illumina GSA SNP analysis according to JMSCFSOP16

- Passage 13
- Identity to parent PBMC confirmed
- Karyotype abnormalities:
  - No gross abnormalities detected vs PBMC

# Alignment of GU66A10008A PBMC SNPs with DRICUi016-A

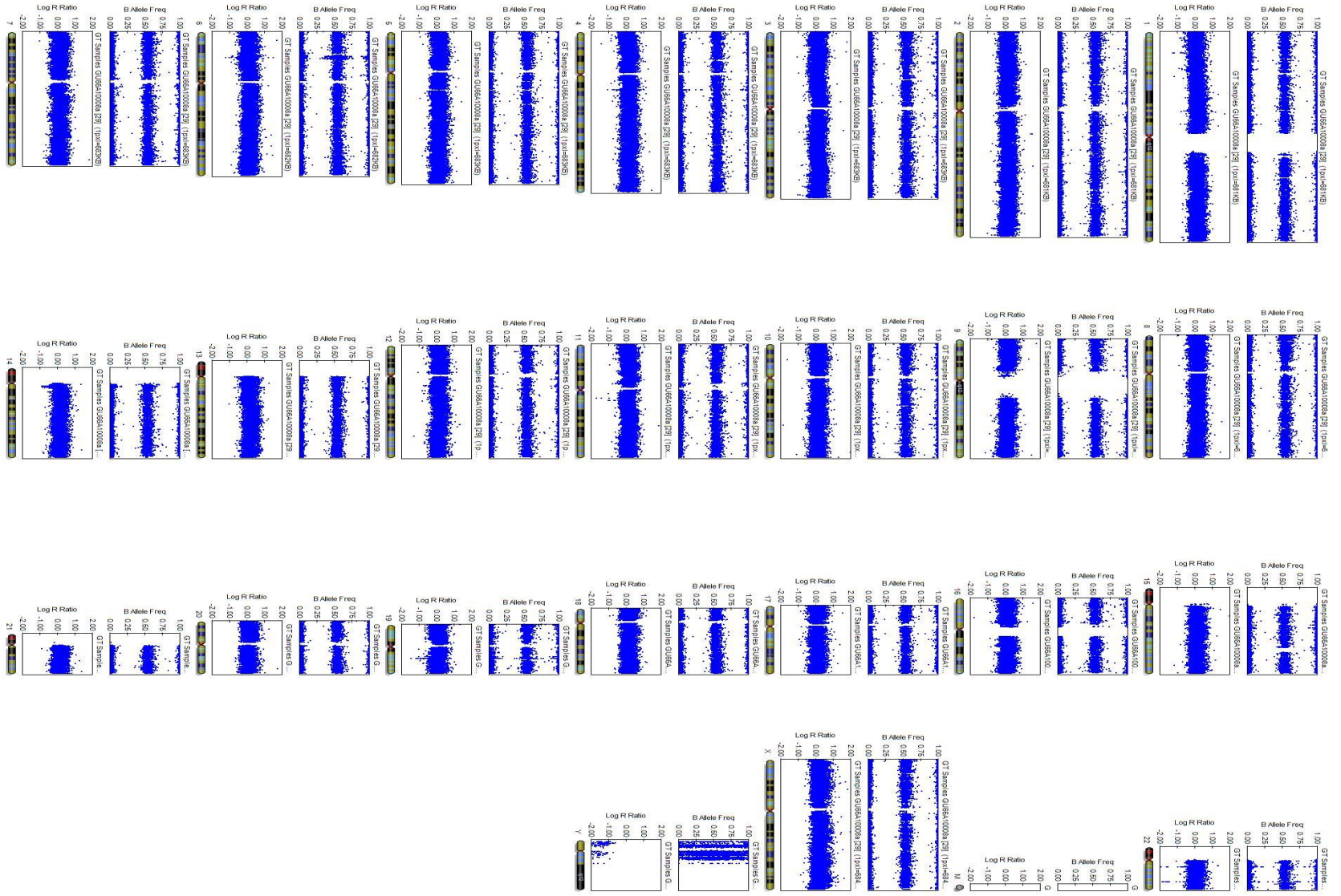


Regression Coefficient

$R^2$  : 0.9877



# Karyogram GU66A10008a PBMC



# Karyogram DRICUi016-A

