



UK Dementia
Research Institute

CARDIFF
UNIVERSITY

PRIFYSGOL
CAERDYDD

Certificate of analysis

DRICUi025-A

Operator: J Winston Date: 10/10/2024

Supervisor: H Hall-Roberts Date: 10/10/2024

Signature: *HCRoberts*

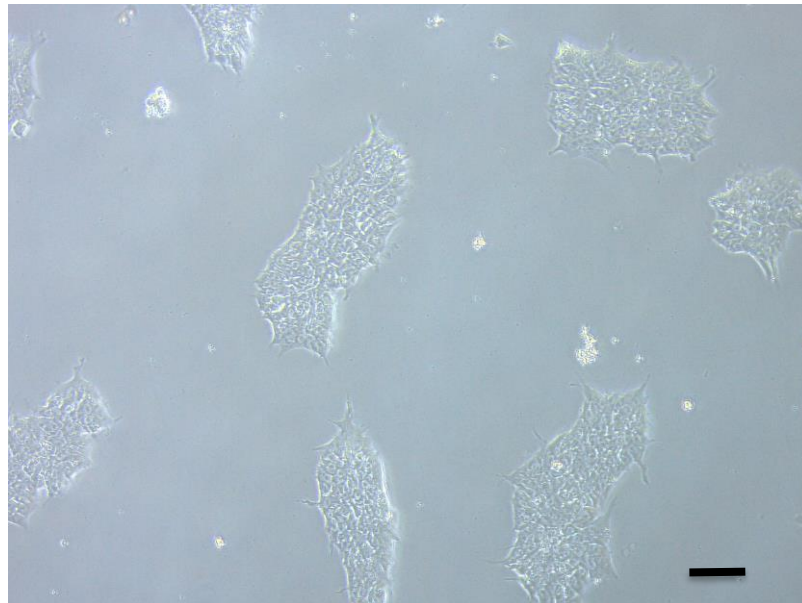
Source of cells and reprogramming information

- CF00C90472A T cells from Cardiff 10/05/2022
- Reprogrammed at UOXF AKA IPMAR27
- Reprogrammed on 06/2021 Sally Cowley/Sarah Ellwood (Oxford)
- Reprogramming system Cytotune v2
- Clone DRICUi025-A = IPMAR27A4
- Banked at p20 07/2023 Sarah Ellwood (Oxford)
- Cytotune performed at Oxford by Sarah Ellwood, other QC at Cardiff by Jincy Winston

Viability post-thaw and Morphology according to JMSCFSOP19 passage 21

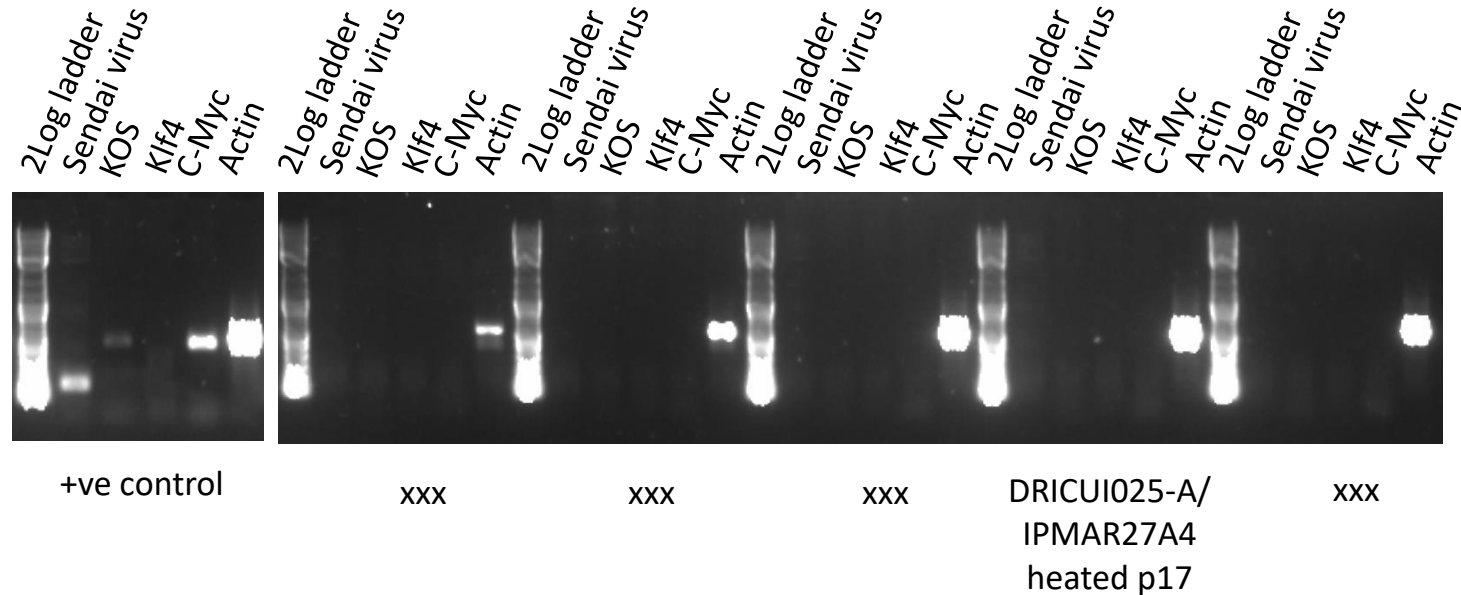
- Vial cell count immediately post-thaw 1.99×10^6
- Viability immediately post-thaw 76%
- Photo at day 2 post-thaw (scale bar = $100\mu\text{m}$):

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



Sendai Cytotune 2 clearance: according to Cytotune manual

Klf4 not determinable but Virus backbone,
KOS and c-Myc undetectable at passage 17 so overall pass



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

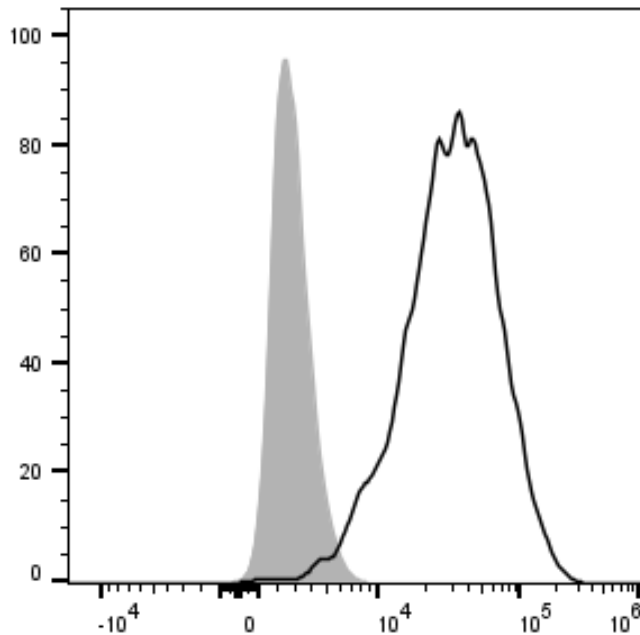
Sterility:

Mycoplasma test performed by Eurofins Genomics on 13/09/2024, undetectable at passage 22.

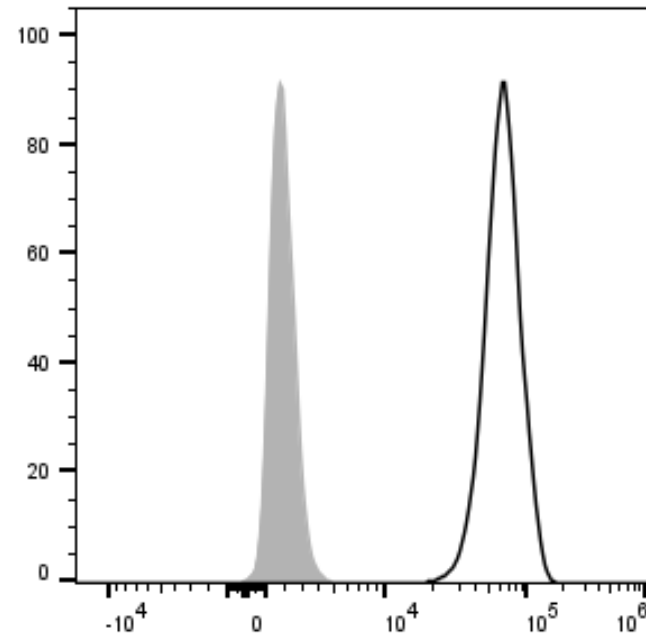
Visual inspection of thawed cells cultured without antibiotic/antimycotic for 4 days:
no evidence of bacteria, yeast or fungus.

Flow cytometric analysis according to JMSCFSOP05 passage 21

DRICUi025-A TRA-1-60 97.6%



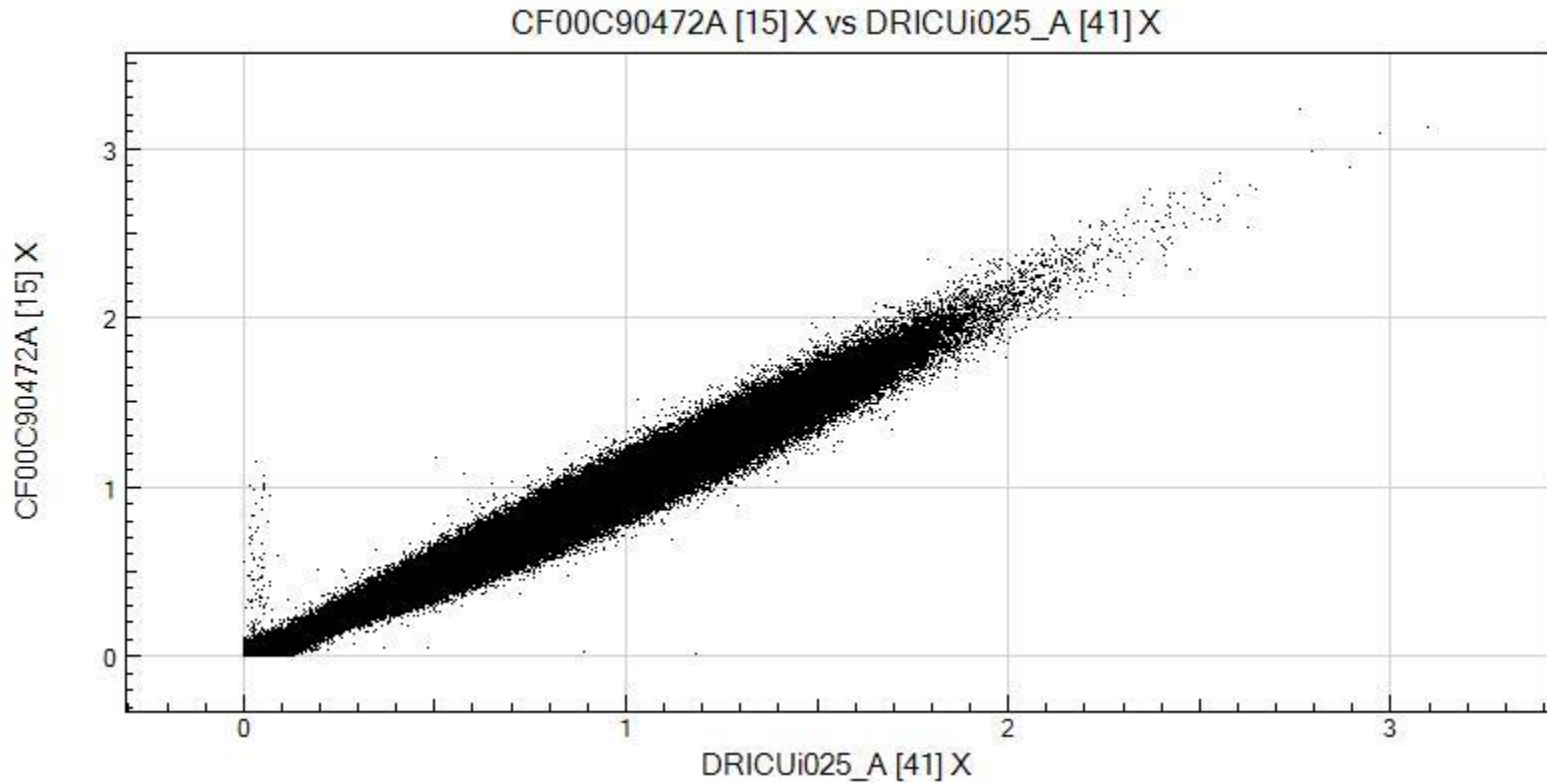
DRICUi025-A Nanog 99.7%



Illumina GSA SNP analysis according to JMSCFSOP16

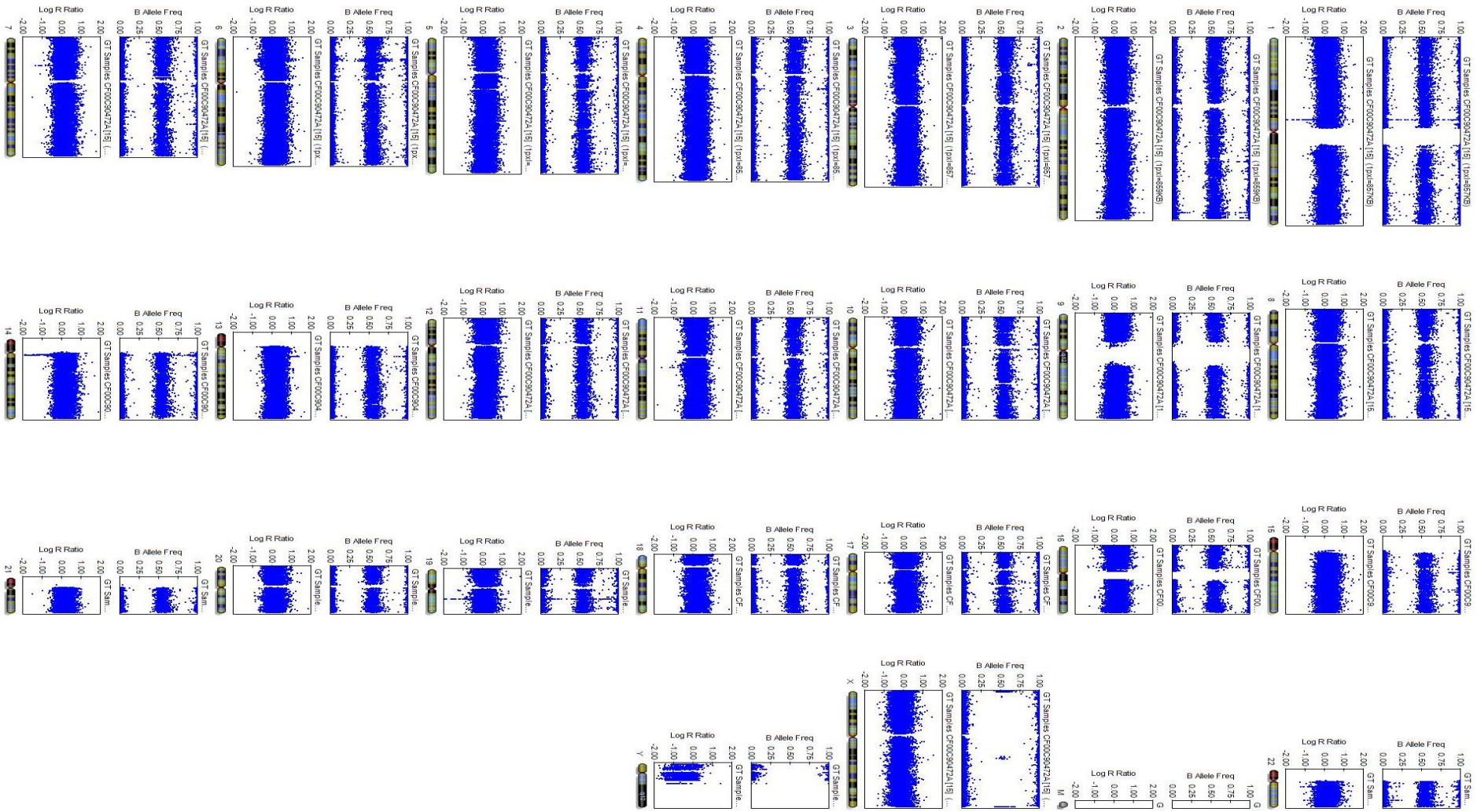
- Passage 20
- Identity to parent PBMC confirmed
- Karyotype abnormalities:
 - No gross abnormalities detected vs PBMC

Alignment of CF00C90472A PBMC SNPs with DRICUi025-A



Regression
Coefficient
 $R^2 = 0.9875$

Karyogram CF00C90472A PBMC



Karyogram DRICUi025-A

