

## ◆ Ff-I14s04-AB II-KO-13(QHJI; iPS cells expressing the highest HLA in Japan※1)

Clone ID	Ff-I14s04-AB II-KO-13	Product	Human iPS cells
Source	Peripheral Blood, Human	Race	Japanese
Passage No.	32	Gender	Male
Label Name	21B78	Manufacture	Feb. 13 <sup>th</sup> , 2021
		Dates	
Culture medium	StemFit AK03N	Substrate	iMatrix-511MG
Culture Method	Feeder-free (**2)		
Genome-editing	CRISPR-Cas9 (**2)		
techniques			
Use and Provision	Please check our web site ;		
of this cell stock	https://www.cira-foundation.or.jp/e/project/index.html		

<sup>(※1)</sup> **Reference;** Okita, et. al., Nat Methods. 2011 8(5): 409-412

## For Research Use Only

## **Test Result**

Test	Method	Result	
Sterility	BacT/ALERT	Negative	
Mycoplasma	PCR	Negative	
Endotoxin	LAL	< 0.017 EU/mL	
Morphology	Microscope	Consistent with human ES cells	
STR genotyping	PCR	Consistent with the donor cells	
Karyotype	G-banding	46,XY[20]	
CNV(*3)	WGS, SNP	No de novo CNVs (>1kbp) were found in COSMIC Cancer Gene Census (ver.88) and Shibata list(**4).	
SNV/Indel <sup>(※3)</sup>	WGS	No de-novo non-synonymous SNVs/Indels were found in COSMIC Cancer Gene Census (ver.88) and Shibata list (**4).	
	Sanger Sequencing	Detected of edits	
Gene editing confirmation	Flow cytometry	HLA-A(-) = 99.98 % HLA-C(+) = 99.88 %	
Cardiac differentiation	Reference: "Funakoshi et al., 2016, Sci Rep."	TnT(+) = 85.86 %	
Undifferentiated markers Flow cytometry		TRA-1-60(+): 92.9 %	
Thawed postnatal cells	Counting the number of the cells (**5)	2.05 × 10 <sup>5</sup> cells (Survival rate ; 91.8 %)	

<sup>(※2)</sup> **Reference**; Huaigeng Xu, et al. Targeted Disruption of HLA Genes via CRISPR-Cas9 Generates iPSCs with Enhanced Immune Compatibility. Cell Stem Cell. 2019 Apr 4;24(4):566-578.



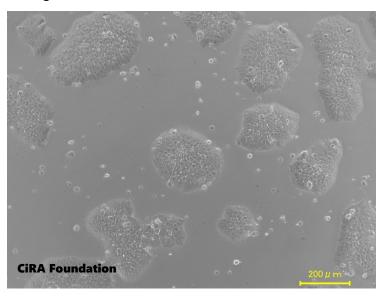
Number of proliferating cells
after thawing

Counting the number of the cells after culturing for 4 days(\*\*5).

 $7.69 \times 10^5$  cells (Number of seeded cells :  $0.77 \times 10^5$  cells)

- $(\cancel{\times}3) \ \ \text{CNV; Copy Number Variation , SNV/Indel; Single nucleotide variants /Insertion Deletion}$
- (¾4) The PMDA Science Board "Current Perspective on Evaluation of Tumorigenicity of Cellular- and Tissue-based Products Derived from induced Pluripotent Stem Cells (iPSCs) and iPSCs as Their Starting Materials" (Cellular- and Tissue-based Products Subcommittee, 20 August 2013)
- (%5) NucleoCounter® NC200

## ■Image



Please contact us if you have any questions.

(ips-request@cira-foundation.or.jp)



Reprint or reproduction of this page without permission is prohibited.