



◆ Ff-I01s04-AB II-KO-50(QHJI; iPS cells expressing the highest HLA in Japan※1)

|   |  |                          |                              |
|---|--|--------------------------|------------------------------|
| <b>Clone ID</b>                             | Ff-I01s04-AB II-KO-50  | <b>Product</b>           | Human iPS cells              |
| <b>Source</b>                               | Peripheral Blood, Human  | <b>Race</b>              | Japanese                     |
| <b>Passage No.</b>                          | 33   | <b>Gender</b>            | Male                         |
| <b>Label Name</b>                           | 21B81  | <b>Manufacture Dates</b> | Feb. 14 <sup>th</sup> , 2021 |
| <b>Culture medium</b>                       | StemFit AK03N  | <b>Substrate</b>         | iMatrix-511MG                |
| <b>Culture Method</b>                       | Feeder-free (※2)   |                          |                              |
| <b>Genome-editing techniques</b>            | CRISPR-Cas9 (※2)   |                          |                              |
| <b>Use and Provision of this cell stock</b> | Please check our web site ;<br><a href="https://www.cira-foundation.or.jp/e/project/index.html">https://www.cira-foundation.or.jp/e/project/index.html</a> |                          |                              |

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

(※2) **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.

**For Research Use Only**

**Test Result**

| Test                             | Method   | Result  |
|----------------------------------|--|---|
| <b>Sterility</b>                 | BacT/ALERT   | Negative  |
| <b>Mycoplasma</b>                | PCR  | Negative  |
| <b>Endotoxin</b>                 | LAL  | < 0.017 EU/mL   |
| <b>Morphology</b>                | Microscope   | Consistent with human ES cells  |
| <b>STR genotyping</b>            | PCR  | Consistent with the donor cells   |
| <b>Karyotype</b>                 | G-banding  | 46,XY[20]   |
| <b>CNV(※3)</b>                   | WGS, SNP   | No de novo CNVs (>1kbp) were found in COSMIC Cancer Gene Census (ver.88) and Shibata list(※4) .               |
| <b>SNV/Indel(※3)</b>             | WGS  | No de-novo non-synonymous SNVs/Indels were found in COSMIC Cancer Gene Census (ver.88) and Shibata list (※4). |
| <b>Gene editing confirmation</b> | Sanger Sequencing                                      | Detected of edits   |
|                                  | Flow cytometry   | HLA-A(-) = 100 %<br>HLA-C(+) = 99.98 %  |
| <b>Cardiac differentiation</b>   | Reference: “ Funakoshi <i>et al.</i> , 2016, Sci Rep.” | TnT(+) = 60.58 %  |
| <b>Undifferentiated markers</b>  | Flow cytometry   | TRA-1-60(+) : 90.0 %  |
| <b>Thawed postnatal cells</b>    | Counting the number of the cells (※5)                  | 2.21 × 10 <sup>5</sup> cells (Survival rate ; 93.7 %)   |

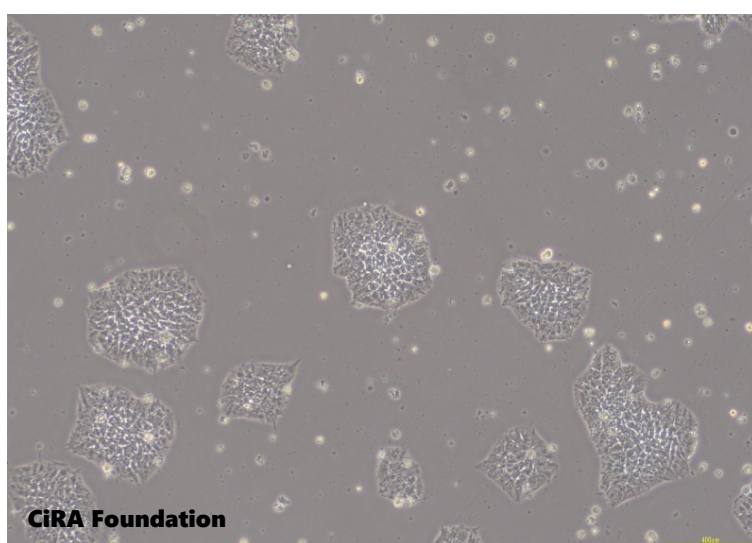
|  |   |  |
|--|---|--|
| <b>Number of proliferating cells after thawing</b> | Counting the number of the cells after culturing for 4 days <sup>(※5)</sup> . | 6.10 × 10 <sup>5</sup> cells (Number of seeded cells : 0.65 × 10 <sup>5</sup> cells) |
|--|---|--|

(※3) CNV; Copy Number Variation , SNV/Indel; Single nucleotide variants /Insertion Deletion

(※4) 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.

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