



Applied StemCell

iPS Cell Generation Kit

Somatic cells can be reprogrammed to induced pluripotent stem cells (iPSC) by introducing reprogramming factors. Viral transduction is still the most efficient reprogramming method to date. Our preferred method is retroviral transduction as it tends to silence better than lentivirus. Our Retrovirus iPS Cell Generation Kit is ready to use – just thaw the vials and add the content to your cells.

Kit Components:

1. Four ready-to-use retroviral reprogramming factors

Full-length human genes: OCT4, SOX2, KLF4, LMYC

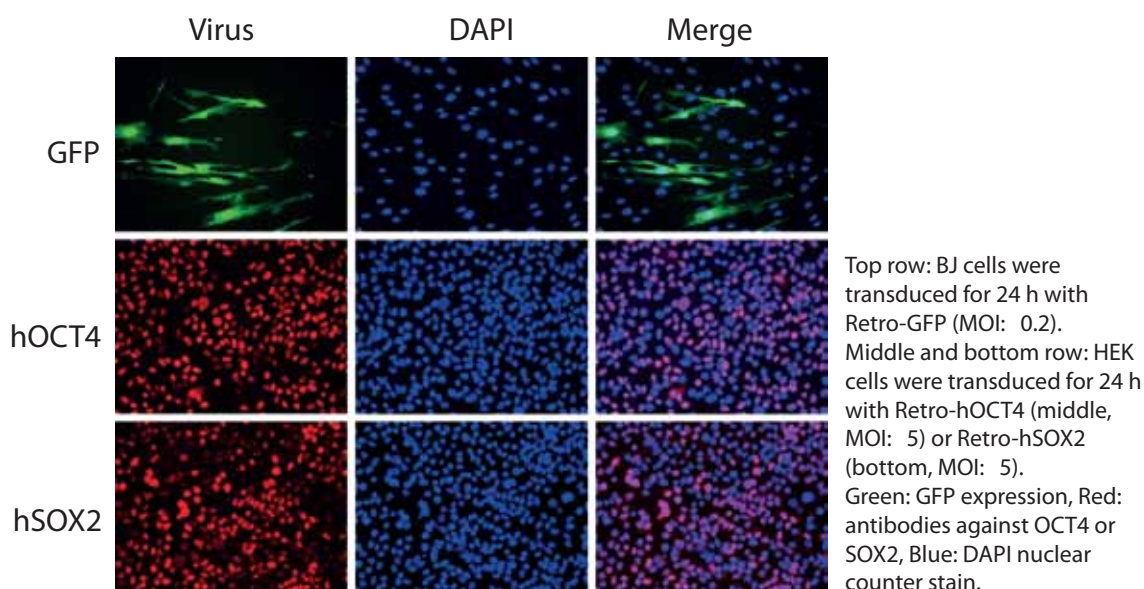
2. Retro-GFP Quantify transduction efficiency for your specific cells

3. Polybrene Enhance your transduction efficiency

4. Basal hiPS cell medium Just add supplements and FGF2

5. Feeder cells Pick your reprogrammed colonies and plate them on our ready-to-use mouse embryonic fibroblasts

ASK-3011 iPS Cell Generation Kit (up to 4 reactions) \$1200



Individual Retrovirus (packaged, 1ml, \$230 each) are also available:

ASR-2000 GFP ASR-2003 hOCT4

ASR-2001 hLMYC ASR-2004 hSOX2

ASR-2002 hKLF4

Reference: K. Takahashi et al., Cell. 131, 861-72 (2007)

Applied StemCell, Inc.

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iPS Cell Generation Kit Reprogramming Procedure

- 1 Determine the appropriate MOI for your cells. (suggested)
- 2 Plate the target cells to 70-80 % confluence.
- 3 Thaw the virus and dilute to desired concentration.
- 4 Transduce the cells with the virus solution for 24 hours.
- 5 Repeat transduction for higher reprogramming efficiency. (optional)
- 6 Replace the viral medium with reprogramming medium.
- 7 Pick iPCS colonies and plate onto provided MEF feeder cells.

For details, please visit: www.appliedstemcell.com.

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