

Derive iPSC from Human Blood !

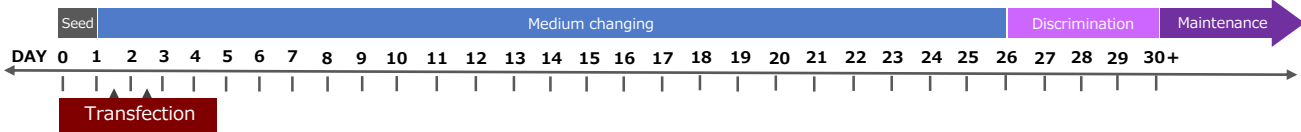
Powerful & Easy Protocol



【Advantages】

- 🔥 No integration
- 🔥 Free of virus
- 🔥 Feeder-free
- 🔥 Derived from whole blood EPCs
- 🔥 Optimized EPC* protocol
- 🔥 Only 2x transfection

Only 2 transfections required! Select iPSC colonies in less than a month!



*EPC = Epithelial Progenitor Cells

Reagents for Self-Replicative RNA reprogramming (five wells in a standard 6-well plate format)

Product	Cat. No.	Volume
Stemgent StemRNA-SR Reprogramming Kit Content: · OKSIM sRNA · microRNA Reprogramming Cocktail · B18R Recombinant Protein	00-0075	—
NutriStem® XF/FF	01-0005	500 mL
bFGF	RCHEOT002	25 µg
StainAlive™ TRA-1-60 Antibody (DyLight™ 488), Mouse anti-Human	09-0068	100 µL

※ Requires hypoxic growth condition (5% O₂)

【 Reference 】

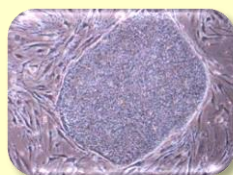
1. Yoshioka, N. et al. (2013) Efficient generation of human iPSCs by a synthetic self-replicative RNA. *Cell Stem Cell*; 13(2): 246-54.
2. Geti, I. et al. (2012) A practical and efficient cellular substrate for the generation of induced pluripotent stem cells from adults: blood-derived endothelial progenitor cells. *Stem Cells Transl Med.*; 1:855-65.

Human iPSC establishment & differentiation service available!



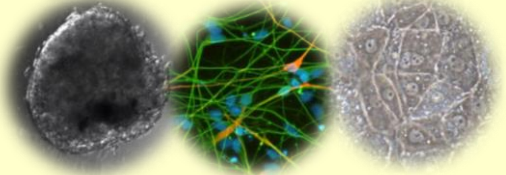
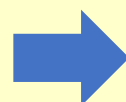
Tissue procurement

Specimens procured from specific patients in hospitals worldwide



hiPSC establishment

mRNA reprogramming or srRNA reprogramming



Mature functional cell types

Differentiated Neurocytes, Cardiomyocytes, Hepatocytes

Select your desired services, let the experts derive your cells!

Make your own original iPSC !

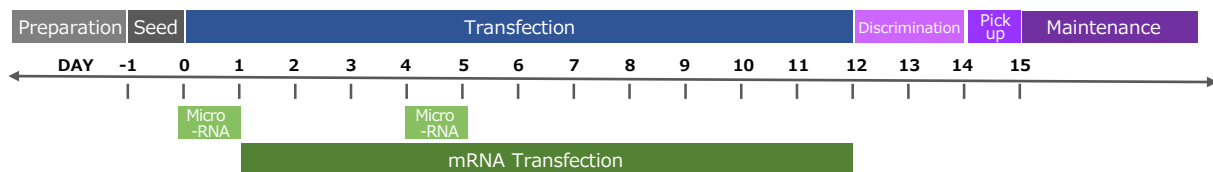
The latest reprogramming technology (for fibroblasts)

www.reprocell.com/en

[Advantages]

- 👉 No integration
- 👉 No need for screening
- 👉 Free of virus
- 👉 Time saving, iPSC in 14 days
- 👉 Feeder-free
- 👉 High efficacy (over 1%)

Easy transfection by changing media for 12 days!



Reagents for Self-Replicative RNA reprogramming (9-10 wells in a standard 6-well plate format)

Product	Cat. No.	Volume
mRNA Reprogramming Kit component: • Stemgent mRNA Reprogramming Factors Set: hOKSML • Stemgent Pluriton™ Reprogramming Medium • B18R Recombinant Protein	00-0071	–
microRNA Booster Kit component: • microRNA Reprogramming Cocktail, • B18R Recombinant Protein	00-0073	–
Stemgent Stemfect RNA™ Transfection Kit component: • Stemfect™ RNA Transfection Reagent, • Stemfect™ Buffer	00-0069	–
NutriStem® XF/FF	01-0005	500 mL
bFGF	RCHEOT002	25 µg
Nuff cells (newborn foreskin fibroblasts)	GSC-3002G GSC-3006G	4-5×10 ⁶ cells
StainAlive™ TRA-1-60 Antibody (DyLight™ 488), Mouse anti-Human	09-0068	100 µL
StainAlive™ TRA-1-81 Antibody (DyLight™ 488), Mouse anti-Human	09-0069	100 µL

※ Requires hypoxic growth condition (5% O₂)

[Reference]

- Mandal PK, Rossi DJ. (2013) Reprogramming human fibroblasts to pluripotency using modified mRNA. *Nature Protocols*. 8(3):568-82
- Angel M, Yanik MF. (2010) Innate immune suppression enables frequent transfection with RNA encoding reprogramming proteins. *PLoS One*. 5(7):e11756
- Warren L, et al. (2010) Highly efficient reprogramming to pluripotency and directed differentiation of human cells with synthetic modified mRNA. *Cell Stem Cell*. 5;7(5):618-30.
- Yakubov E, et al. (2010) Reprogramming of human fibroblasts to pluripotent stem cells using mRNA of four transcription factors. *Biochem Biophys Res Commun*. 394(1):189-93.

Inquiry

Email : info_jp@reprocell.com

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ReproCELL, Inc.

KDX Shin-yokohama 381 Bldg. 9F
3-8-11 Shin-yokohama,
Kohoku-ku, Yokohama 222-0033
Kanagawa, Japan
Tel: +81 (0) 45 475 3887
Fax: +81 (0) 45 474 1006
Email: info_jp@reprocell.com

