

Materials List for:

# Efficient Generation Human Induced Pluripotent Stem Cells from Human Somatic Cells with Sendai-virus

In Young Choi<sup>1</sup>, HoTae Lim<sup>1</sup>, Gabsang Lee<sup>1</sup>

<sup>1</sup>Institute for Cell Engineering, Department of Neurology and Neuroscience, Johns Hopkins University School of Medicine

Correspondence to: Gabsang Lee at [glee48@jhmi.edu](mailto:glee48@jhmi.edu)

URL: <https://www.jove.com/video/51406>

DOI: [doi:10.3791/51406](https://doi.org/10.3791/51406)

## Materials

Name	Company	Catalog Number	Comments
CytoTune-iPS Reprogramming Kit	Invitrogen	A1378002	
CF-6,MEFs, neomycin-resistant, mitomycin C treated	Global stem	GSC-6105M	5 x 10 <sup>5</sup> /6 cm or 12.5 x 10 <sup>5</sup> /24-well plate
Trypsin EDTA 0.25% Trypsin with EDTA 4Na 1X	Invitrogen	25200114	
DMEM/F-12 medium	Invitrogen	11330-032	
24-well Cell Culture Plate, flat-bottom with lid	BD	353935	
Y-27632	TOCRIS	1254	10 µM (Stock: 10 mM)
basic fibroblast growth factor	LIFE TECHNOLOGIES	PHG0263	10 ng (Stock : 100 ug)
Knock-out serum replacement	Gibco	10828028	
Dulbecco's Modified Eagle Medium (D-MEM, DMEM) (1X), liquid (high glucose)	Invitrogen	11965118	
Fetal bovine serum	Thermo Scientific Fermentas	SH30071.03	
L-Glutamine-200 mM (100X), liquid	GIBCO	25030-081	1/100
MEM Non-Essential Amino Acids Solution, 100X	LIFE TECHNOLOGIES	11140050	1/100
2-Mercaptoethanol (1,000X), liquid	GIBCO	21985023	1/1,000
Hausser Phase Contrast Hemacytometers	Hausser Scientific	02-671-54	
EmbryoMax 0.1% Gelatin Solution	Millipore	ES-006-B	
SSEA-4	DSHB	MC-813-70	1/200
anti-Tra-1-81	Cell Signaling	4745S	1/200
mouse monoclonal Oct4 antibody	Santa Cruz	SC-5279	1/1,000
Nanog	R&D	AF1997	1/1,000
Alexa Fluor 488 goat anti-mouse	Invitrogen	948492	1/2,000
DPBS (Dulbecco's Phosphate-Buffered Saline), 1X without calcium & magnesium	Cellgro	21-031-CV	
QuantiTect Reverse Transcription Kit	QIAGEN	205313	
PCR Master Mix [2X]	Thermo Scientific Fermentas	K0171	
Trizol	Invitrogen	15596018	
picking hood	NuAire	NU-301	
dissecting scope	Nikon	SMZ745	