

Figure 1. Generation of iPS Cells from MEF Cultures via 24 Factors

- (A) Strategy to test candidate factors.
- (B) G418-resistant colonies were observed 16 days after transduction with a combination of 24 factors. Cells were stained with crystal violet.
- (C) Morphology of ES cells, iPS cells (iPS-MEF24, clone 1-9), and MEFs. Scale bars = 200 mm.
- (D) Growth curves of EScells, iPS cells (iPS-MEF24, clones 2-1–4), and MEFs. 3×10⁵ cells were passaged every 3 days into each well of six-well plates.
- (E) RT-PCR analysis of EScell marker genes in iPS cells (iPS-MEF24, clones 1-5, 1-9, and 1-18), ES cells, and MEFs. Nat1 was used as a loading control.
- (F) Bisulfite genomic sequencing of the promoter regions of Oct3/4, Nanog, and Fbx15 in iPS cells (iPS-MEF24, clones 1-5, 1-9, and 1-18), ES cells, and MEFs. Open circles indicate unmethylated CpG dinucleotides, while closed circles indicate methylated CpGs.

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