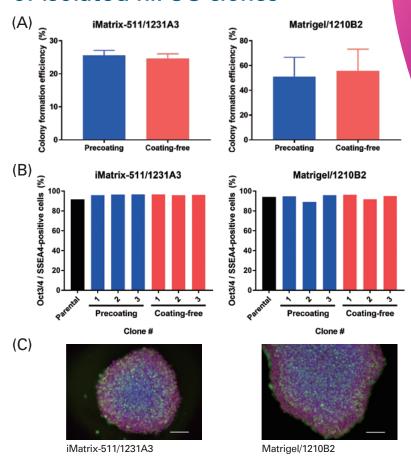
Cloning efficiency with coating-free protocol and pluripotency analysis of isolated hiPSC clones



1231A3 and 1210B2 (Human episomal iPSC lines established by CiRA) were cloned on iMatrix-511 or Matrigel_® by the precoating or coating-free method.

(A) Comparison of the cloning efficiency of hiPSCs by two different methods. Bars represent the means ± S.D. (n=3). (B,C) Analysis of pluripotent markers in isolated hiPSC clones. Expression levels of pluripotent markers were evaluated by (B) FACS and (C) ICC (Blue: DNA. Green: Tra1-60. Red: Oct3/4). Scale bars: 100 µm.

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Feeder-free medium for ES/iPS cells



Key Points for **single-cell cloning**with **coating-free method**



Superior colony-forming efficiency

Enables efficient single-cell cloning



Coating-free protocol

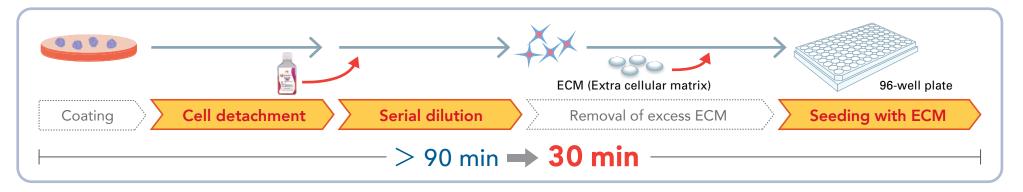
No coating process, No incubation

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Brief protocol for single-cell cloning by the coating-free method



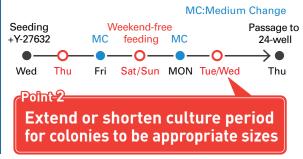


- Detach cells and resuspend in culture medium supplemented with 10 μM Y-27632.
 - * Also see our Technical tips: Key points for successful single-cell passage
- Prepare 10 mL of 10 cell/mL cell suspension by serial dilution with culture medium with 10 μM Y-27632.
- Add iMatrix-511 or Matrigel_® to the prepared cell suspension and mix thoroughly.

ЕСМ	Amount	Final conc.
iMatrix-511 (0.5 mg/ml)	35 µl	1.75 μg/ml
Matrigel _®	100 μl (×1/100)	10 μl/ml

- Plate 100 μL (= 1 cell) in each well of the 96-well plate immediately.
- Replace medium with fresh culture medium without Y-27632 at least every three days. Around day 8, select single colonies to be passaged to a 24-well plate.

<Medium Change Schedule Example>



- After washing the colonies with 100 μl of PBS, detach the cells with 50 μl of cell detaching solution and incubate at 37 °C for 10 min.
 - * Accutase or TrypLE™ can be used * Incubation times may vary

7 Carefully remove cell detaching solution.

8

Dissociate colonies by pipetting with 100 µl of culture medium with 10 µM Y-27632. Transfer resuspended cells to ECM-coated 24-well plate with 400 µl of culture medium containing 10 µM Y-27632 immediately.

Point-4

Detach the colonies one by one as reattachment can occur soon after adding the culture medium

Change the medium to fresh culture medium without Y-27632 at least every three days.

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