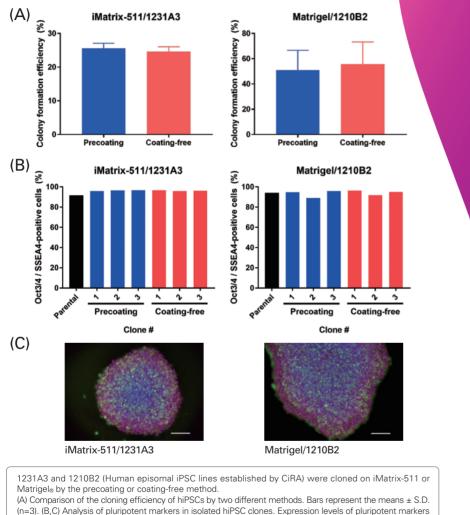
Cloning efficiency with coating-free protocol and pluripotency analysis of isolated hiPSC clones



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were evaluated by (B) FACS and (C) ICC (Blue: DNA, Green: Tra1-60, Red: Oct3/4), Scale bars; 100 um



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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

Benefit 2

Benefit

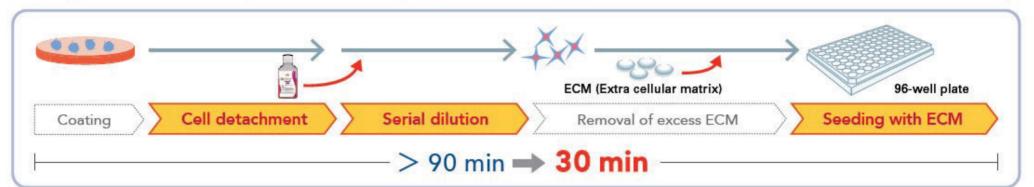
Coating-free protocol

No coating process, No incubation



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

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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.

Police

Concentration of ECMs!

ECM	Amount	Final conc.
Matrix-511 (0.5 mg/ml)	35 µl	1.75 µg/ml
Matrigel₀	100 µl (x1/100)	10 µl/ml



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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



Carefully remove cell detaching solution.

Remove very carefully because the colonies easily detach

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.

Pollo /

Police

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.

