



Figure S1: Assessment of primed and naive hiPSCs (hESCs, hiPSCs) pluripotency in different culture media conditions.

Table S1. Overview of primary and secondary antibodies, corresponding company, application and dilution of use.

Antibody	Company (Cat. No.)	Application (Dilution)
Rabbit anti-OCT4	Santa Cruz Biotechnology (sc9081)	IF (1:25)
Mouse anti-SSEA4	Hybridoma Bank (MC-813-70)	IF (1:03)
Goat anti-SOX2	Santa Cruz Biotechnology (sc-17320)	IF (1:25)
Goat anti-Nanog	R&D Systems (AF1997)	IF (1:25)
Mouse anti -TRA-1-81	Millipore (MAB4381)	IF (1:200)
Goat anti-FOXA2	R&D Systems (AF2400)	IF (1:25)
Mouse anti-TUJ1	Covance (MMS-435)	IF (1:500)
Rabbit anti-GFAP	Abcam. (ab7260)	IF (1:1000)
Mouse anti-ASMA	Sigma-Aldrich (A5228)	IF (1:400)
Rabbit anti-SOX9	Sigma-Aldrich (AB5535)	IF (1:300)
Alexa Fluor 488 donkey anti-goat IgG	ThermoFisher Scientific (A11055)	IF (1:200)
Alexa Fluor 546 donkey anti-mouse IgG	ThermoFisher Scientific (A10036)	IF (1:200)
Alexa Fluor 647 donkey anti-goat IgG	ThermoFisher Scientific (A21447)	IF (1:200)
Alexa Fluor 647 donkey anti-mouse IgG	ThermoFisher Scientific (A31571)	IF (1:200)
Alexa Fluor 488 donkey anti-rabbit IgG	ThermoFisher Scientific A21206	IF (1:200)
Alexa Fluor 488 donkey anti-mouse IgG	ThermoFisher Scientific (R37114)	IF (1:200)
Alexa Fluor 546 donkey anti-goat IgG	ThermoFisher Scientific (A11056)	IF (1:200)
Alexa Fluor 546 donkey anti-rabbit IgG	ThermoFisher Scientific (A10040)	IF (1:200)
LIVE/DEAD APC.Cy7 (viability)	Invitrogen (L-34975)	FC (1:1000)
Mouse anti- CD24 PE	BD Bioscience (560991)	FC (1:50)
Mouse anti- CD57 APC	BD Bioscience (560845)	FC (1:50)
Mouse anti- CD75 FITC	BD Bioscience (555654)	FC (1:50)
Mouse anti- CD130 BV421	BD Bioscience (566223)	FC (1:50)
Mouse anti- CD90 PE.Cy7	BD Bioscience (561558)	FC (1:50)

Table S2. Overview of genes, primer sequences and annealing temperatures used for RT-qPCR.

Gene	Primer Sequence (5'-3')	Annealing temperature (°C)
SSEA4	Stage-specific embryonic antigen-4 Fw: TGGACGGGCACAACCTTCATC Rv: GGGCAGGTTCTTGGCACTCT	60
NANOG	Homeobox protein NANOG Fw: TCTCCAACATCCTGAACCT Rv: GCGTCACACCATGCTAT	57
SOX2	SRY-Box transcription factor 2 Fw: GCACAACCTCGGAGATCAG Rv: CAGCGTGACTTATCCTTCT	57
OCT4	Octamer-binding transcription factor 4/POU5F1 Fw: AGAGGCAACCTGGAGAAT Rv: ATAGTCGCTGCTTGATCG	57
REX1	Reduced expression 1 Fw: CCTGCAGGCGGAAATAGAAC Rv: GCACACATAGCCATCACATAAGG	60
KLF2	Kruppel-like factor 2 Fw: CACCAAGAGTTCGCATCTGAAGG Rv: TACATGTGCCGTTTCATGTGCAG	57
KLF17	Kruppel-like Factor 17 Fw: GGGATGGTGCATAGATTCA Rv: GCCTCACCTCACCTAACAA	57

DPPA3	Developmental pluripotency associated 3	Fw: ATCGGAAGCTTTACTCCGTCGAG Rv: CCCTTAGGCTCCTTGTGTTGTTGG	57
NESTIN	Neuroepithelial stem cell protein	Fw: CCTGGGAAAGGGAGAGTACC Rv: TGGTCCTTCTCCACCGTATC	55
PAX6	Paired box 6	Fw: GTCCATCTTTGCTTGGGAAA Rv: TAGCCAGGTTGCGAAGAACT	63
T-BXT	T-Box Transcription Factor T	Fw: GCAAAAGCTTTCCTTGATGC Rv: ATGAGGATTTGCAGGTGGAC	60
HAND1	Heart and neural crest derivatives expressed 1	Fw: CTGGCTCTTCTCTCTTGTC Rv: CGTCTGGTTCTCTTCTCAG	60
GATA4	GATA binding protein 4	Fw: GGGACGGGTCACCTATCTTGTC Rv: GGTGGTGGTCTGGCAGTT	57
GATA6	GATA binding protein 6	Fw: GTGCCCAGACCACTTGCTAT Rv: CCCTGAGGCTGTAGGTTGTG	60
GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	Fw: GGTCGGAGTCAACGGATTTG Rv: TGGAAGATGGTGATGGGATT	60