

Wnt signaling promote embryonic stem cells cultivation and somatic reprogramming

Table S1. Real-time PCR primers

Primers	Forward sequence	Reverse sequence
<i>pou5f1</i>	AGGAAGCCGACAACAATG	CGGGCACTTCAGAAACAT
<i>sox2</i>	GCGGAGTGAAACTTTTGTCCCGG	GAAGCGTACTTATCCTTGCCATC
<i>nanog</i>	TCTTCCTGGTCCCCACAGTTT	GCAAGAATAGTTCTCGGGATGAACC
<i>akp</i>	CAACCTGACTGACCCTTCGATCCTG	ATCCTGCCTCCTCCACC
<i>e-cadherin</i>	CAGGTCTCCTCATGGCTTTGCCCTC	CGAAAAGAAGGCTGTCCCTACTTAT
<i>utf1</i>	TGTCCCGGTGACTACGTCT	CCCAGAAGTAGCTCCGTCTCT
<i>zfp42</i>	GAACCCACTGAGACTGGAGG	TTCACCTTATAGCCAGGGTCAT
<i>dppa3</i>	GACCCAATGAAGGACCCTGAA	GCTTGACACCGGGTTTAG
<i>tcf1</i>	ATCTGCTCATGCCCTACC	GGTGTGACTGCTGAAATGTT
<i>tcf3</i>	AGCTCGGACTCCGAGGCGGAGA	GGTACCCAGGATACGCAGGTCC
<i>tcf4</i>	CACCCGGCCATCGTCACAC	GCCACCTGCGCCCGAGAAT
<i>lef1</i>	TGAGTGCACGCTAAAGGAGA	ATAATTGTCTCGCGCTGACC
β -catenin	ATGGACGTGGGCGAACTTTTA	CGCCATCCCTGTCAATAATCTG
<i>parp1</i>	GTGACTTTTTAGCGGAGTACGC	CCAGCGGTCAATCATAACCAGGAAC
<i>kdm2b</i>	GATGCTGAGCGGTATCATCCG	GAGACAGCGATCCATGAGCAGACA
<i>tet1</i>	CAGTGGTGCTAATGCAG	AGCATGAACGGGAGAATCGG
<i>suv39h1</i>	CTGTGCCGACTAGCCAAGC	ATACCCAGGCCACTTAACCAG
<i>pecam1</i>	CAAGCGAAGGATAGATAAGA	CAGCGAAACTAACAACG
<i>epcam</i>	GCTGGCAACAAGTTGCTCTCTGAA	CGTTGCACTGCTTGGCTTTGAAGA
<i>crb3</i>	CACCGGACCCTTTCACAAATA	CCCCTGCTATAAGGAGGACT
<i>ocln</i>	CCTCCAATGGCAAAGTGAATGGCA	TGTTTCATAGTGGTCAGGGTCCGT
<i>cldn3</i>	ACCAACTGCGTACAAGACGAG	CAGAGCCGCCAACAGGAAA
<i>cldn4</i>	GTCCTGGGAATCTCCTTGCC	TCTGTGCCGTGACGATGTTG
<i>cldn7</i>	GGCCTGATAGCGAGCACTG	GTGACGCACTCCATCCAGA
<i>thy1</i>	TGCTCTCAGTCTTGCAAGGTG	TGGATGGAGTTATCCTTGGTGTT
<i>n-cadherin</i>	AGCGCAGTCTTACCGAAGG	TCGCTGCTTTCATACTGAACCTT
<i>zeb1</i>	TGCTCACCTGCCCCGATTGTGATA	AGTGCACCTGAACTTGCGGTTTCC
<i>zeb2</i>	TGATAGCCTTGCAAACCCTCGGA	ATTGTGGTCTGGATCGTGGCTTCT
<i>snai1</i>	TTGTGTCTGCACGACCTGTGGAAA	TCTTCACATCCGAGTGGGTTTGA
<i>snai2</i>	CACATTCGAACCCACACATTGCCT	TGTGCCCTCAGGTTTGATCTGTCT
<i>gapdh</i>	TGTGTCCGTCGTGGATCTGA	TTGCTGTTGAAGTCGCAGGAG

Table S2. Semi-Quantitivy RCR primers

Primers	Forward sequence	Reverse sequence
<i>Endogenous-oct4</i>	TCTTTCCACCAGGCCCCCGGCTC	TGCGGGCGGACATGGGGAGATCC
<i>Total-oct4</i>	CTGAGGGCCAGGCAGGAGCACGAG	CTGTAGGGAGGGCTTCGGGCACTT
<i>Endogenous-sox2</i>	TTGCCTTAAACAAGACCACGA	TAGAGCTAGACTCCGGGCGATGA
<i>Total-sox2</i>	GGTTACCTCTTCTCCCACTCCAGC	TCACATGTGCGACAGGGGCGAG
<i>Endogenous-klf4</i>	GCGAACTCACACAGGCGAGAAACC	TCGCTTCTCTTCTCCGACACA
<i>Total-klf4</i>	CACCATGGACCCGGGCGTGGCTGCC	TTAGGCTGTTCTTTCCGGGGCCAC
<i>Endogenous-c-myc</i>	TGACCTAACTCGAGGAGGAGCTGGAATC	AAGTTTGAGGCAGTAAAATTATGGCTGAAGC
<i>Total-c-myc</i>	CAGAGGAGGAACGAGCTGAAGCGC	TTATGCACCAGAGTTTCGAAGCTGTTCCG
<i>Gata4</i>	AACCAGAAAACGGAAGCCCAAG	TACGCGGTGATTATGTCCCAT
<i>Mixl1</i>	TGTACCAGACATCCACTTGCG	CCAGGAGTCCAACCTTTGAGCCA
<i>Sox17</i>	GGACCCGGCTTCTTTGCA	ACACTGCTTCTGGCCCTCA
<i>Foxa2</i>	AGCCGTGAAGATGGAAGGG	CGAGATGTACGAGTAGGGAGGT

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<i>T</i>	CCCGGTGCTGAAGGTAATGTG	ATGAACTGGTCTCGGAAAGC
<i>Flt1</i>	TACGAAAAGTCCGTGTCCTCGC	TTTCAGGTCTCTCCTTCGGCT
<i>Nestin</i>	GGCATCCCTGAATTACCCAA	AGCTCATGGGCATCTGTCAA
<i>Nefl</i>	GGCATCCCTGAATTACCCAA	AGCTCATGGGCATCTGTCAA
<i>Sox1</i>	ATGTCAACGGCTGGGCTAA	TAGTGCTGTGGCAGCGAGT
<i>βIII-tubulin</i>	ACCTCCCTTCGATTCCCTG	CCATCTCATCCATGCCCTC
<i>Gapdh</i>	GCAGTGGCAAAGTGGAGATT	GTCTTCTGGGTGGCAGTGT

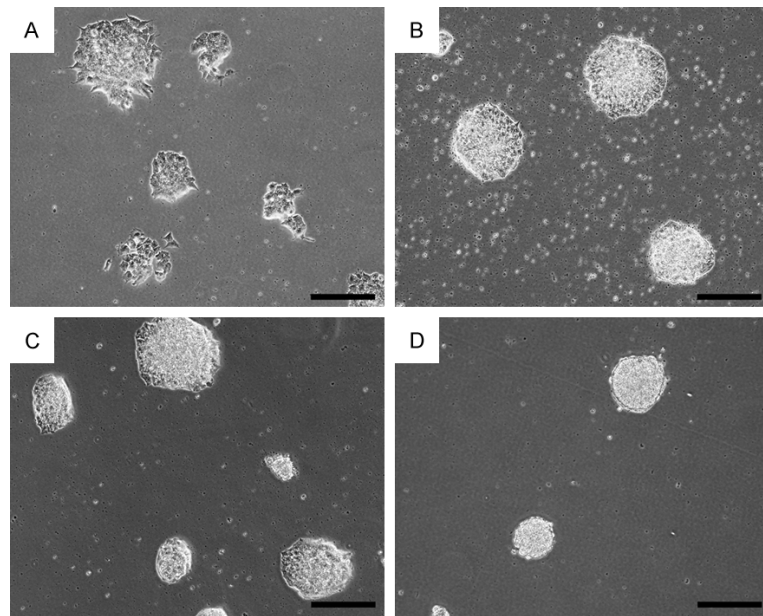


Figure S1. Morphology of ES cells in Wnt3a-CM during feeder-free culture. A. ES cells were exposed in ESCs-M; B. ES cells were exposed in 10% Wnt3a-CM; C. ES cells were exposed in 30% Wnt3a-CM; D. ES cells were exposed in 50% Wnt3a-CM. Bar=100 μ m.

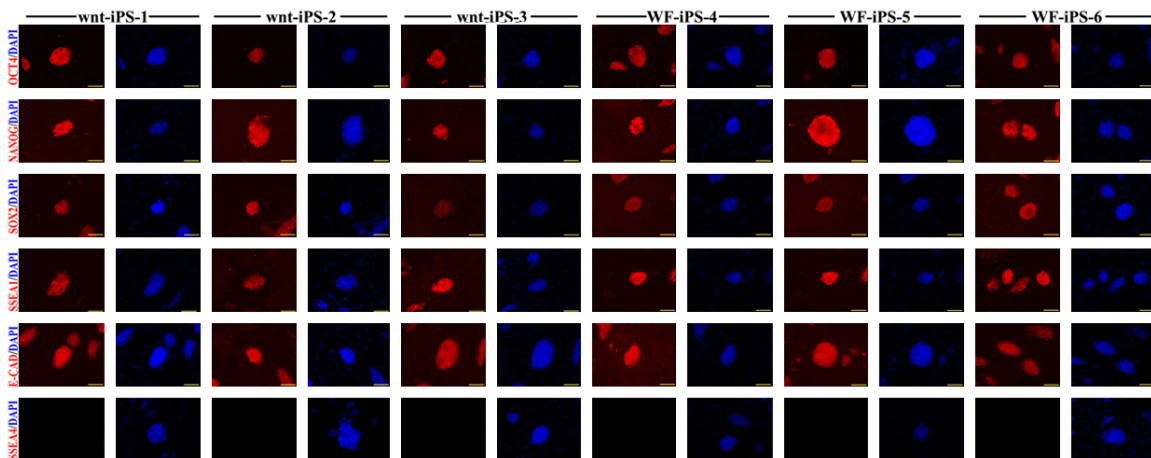


Figure S2. Pluripotent analysis of iPS cells that derived from L-Wnt3a feeder layer. Immunostaining of Oct4, Nanog, Sox2, SSEA1, SSEA4 and E-cadherin in iPS cells, bar=100 μ m.