Supplemental information

Figure S1

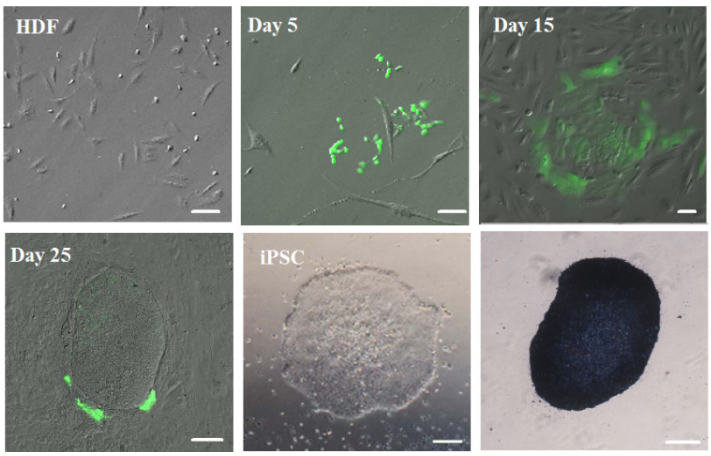

Figure S1. HDFs morphologic changes in the iPSCs derivation at day 5, day 15, and day 25 after electrotransfection with episomal plasmid. GFP represented transformed cells. Scale bar = 20 μm. iPS clone was stained with alkaline phosphatase, Scale bar = 200 μm.

Figure S2

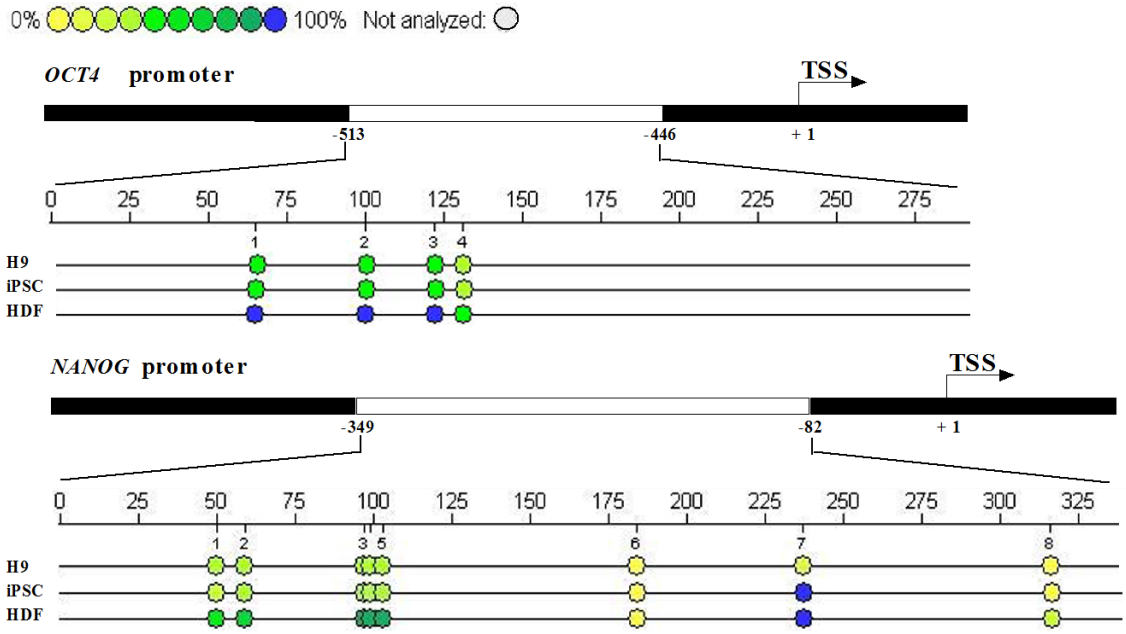

Figure S2. Bisulfite genomic sequencing of the promoter regions of *OCT4* and *NANOG* in H9 cells, iPSCs and HDFs. Different colors indicate the level of methylated CpGs.

Figure S3

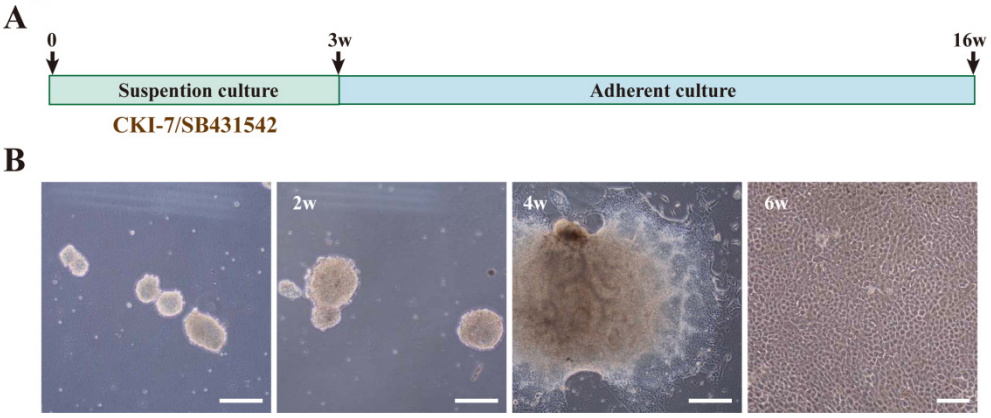

Figure S3. A. Schema of RPE differentiation protocol. **B**. Morphology of representative floating EB-like structures at 1 and 2 weeks. After that EBs were adhered on matrigel-coated dishes for differentiation. Polygonal cells were occurred at week 6. Scale bar = 200 μm.

Table S1. Primers used for PCR

Gene	Primer Sequence(5′ to 3′)	AT(°C)	Product(bp)
Endo-OCT4	F- GTACTCCTCGGTCCCTTTCC R- CAAAAACCCTGGCACAAACT	56	168
Endo-SOX2	F- CATGTCCCAGCACTACCAGA R- GTCATTTGCTGTGGGTGATG	56	243
Exo-OCT4	F- ACTTCACTGCACTGTACTCCTC R- CATAGCGTAAAAGGAGCAACA	56	212
Exo-SOX2	F- CATGTCCCAGCACTACCAGA R- TACATCCCCAGCCAGTTTGA	56	145
CD9	F- GTGCATGCTGGGACTGTTCTTCGGCTTC R- CACGCCCCCAGCCAAACCACAGCAG	56	360
DPPA5	F- ATATCCCGCCGTGGGTGAAAGTTC R- ACTCAGCCATGGACTGGAGCATCC	56	243
DNMT3B	F- TGCTGCTCACAGGGCCCGATACTTC R- TCCTTTCGAGCTCAGTGCACCACAAAAC	56	242
GRB7	F- CGCCTCTTCAAGTACGGGGTGCAGCTGT R- TGGGCAGGCTGAGGCGGTGGTTTG	56	241
NANOG	F- CAGCCCCGATTCTTCCACCAGTCCC R- CGGAAGATTCCCAGTCGGGTTCACC	56	391
OTX2	F- CAAAGTGAGACCTGCCAAAAAGA R- TGGACAAGGGATCTGACAGTG	56	179
SIX3	F- CAAGGAGTCTCACGGCAAG	56	163

	R- GCAATGCGTCTTCTGCTCG		
RX1	F- AAGCCTCATCATAGTTTCCAGTC R- AAGCCTCATCATAGTTTCCAGTC	56	168
MITF	F- TTGTCCATCTGCCTCTGAGTAG R- CCATTTAGTAAGTCCACATTCATTTCC	56	88
RPE65	F- TACAGAAAGCACTGAGTTGAGC R- CCATTTAGTAAGTCCACATTCATTTCC	56	154
TYR	F- GCAAAGCATACCATCAGCTCA R- GCAGTGCATCCATTGACACAT	56	145
SILVER	F- AGGTGCCTTTCTCCGTGAG R- AGCTTCAGCCAGATAGCCACT	56	128
GAPDH	F- GGACTCATGACCACAGTCCATGCC R- TCAGGGATGACCTTGCCCACAG	56	152