

1 ***Robust detection of undifferentiated iPSC among differentiated cells***

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8 **Supplementary Figure Legends**

9 **Figure S1**

10 Validation of differentiated cells toward hepatic lineage. Gene expression analysis of the
11 undifferentiated iPSC (iPSC), Definitive endoderm (DE), hepatic endoderm (HE),
12 immature hepatocyte (IH) , and mature hepatocyte (MH).

13
14 **Figure S2.**

15 Definitive endoderm (DE), hepatic endoderm (HE), and immature hepatocyte (IH) mature
16 hepatocytes (MHs)
17 Novel markers were down-regulated during differentiation in five different iPSC clones.
18 #1-#5 represents Ff-I01, Ff-I01s04, 1231A3, 1383D2 and 1383D6, respectively.

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20 **Figure S3.**

21 Estimated actual RNA count of the markers in one undifferentiated iPSC by droplet
22 digital PCR.

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24 **Figure S4.**

25 Correlation between doubling time at undifferentiated iPSC and residual
26 undifferentiated cell number at HE (left). Correlation between passage number of
27 undifferentiated iPSC and its doubling time (right).

28
29 **Figure S5.**

30 Marker gene expression in three germ lineages derived using different differentiation
31 methods. a-c) represent adequate differentiation of trilineage. bar: 100um d) Marker
32 gene expression in each lineage evaluated by qPCR. e) Actual residual undifferentiated
33 cell number per cm² when cells were seeded at a density of 8x10⁴ cells/cm².

Figure S1

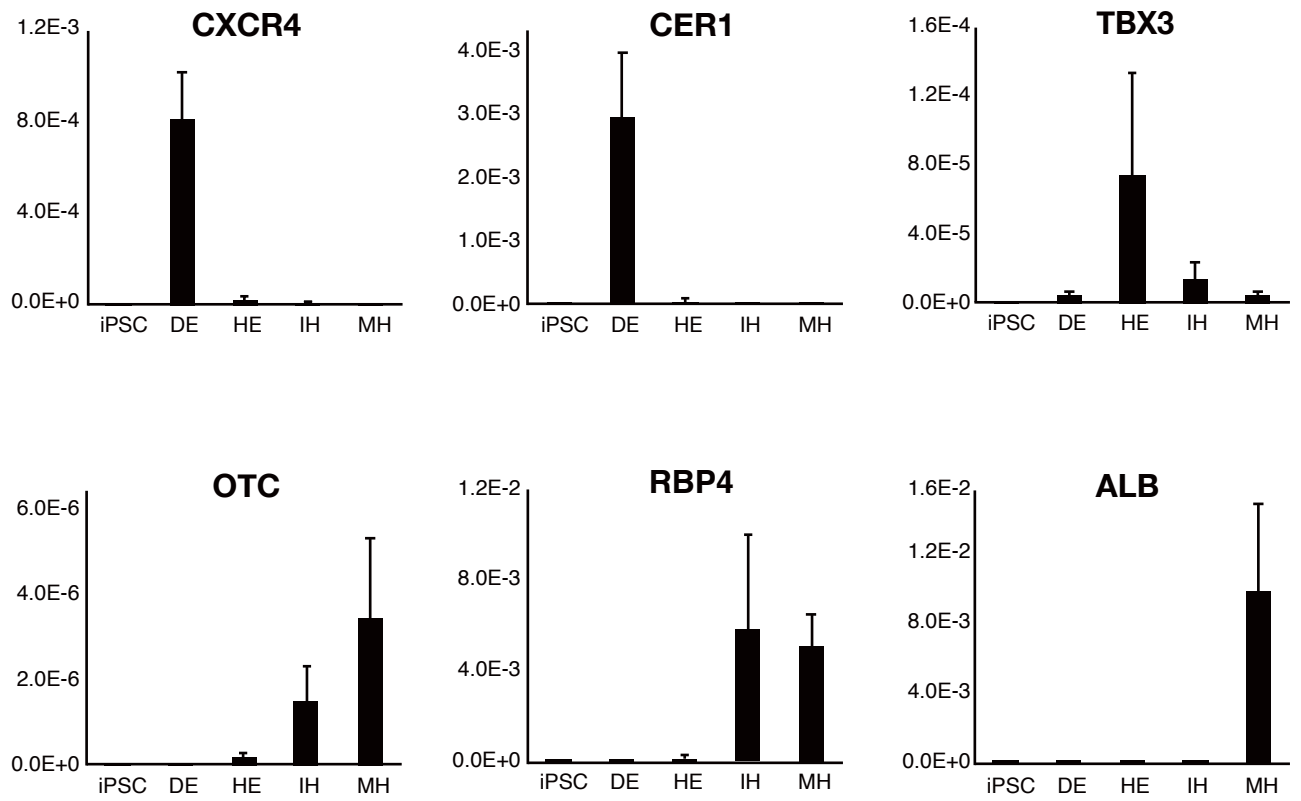


Figure S2

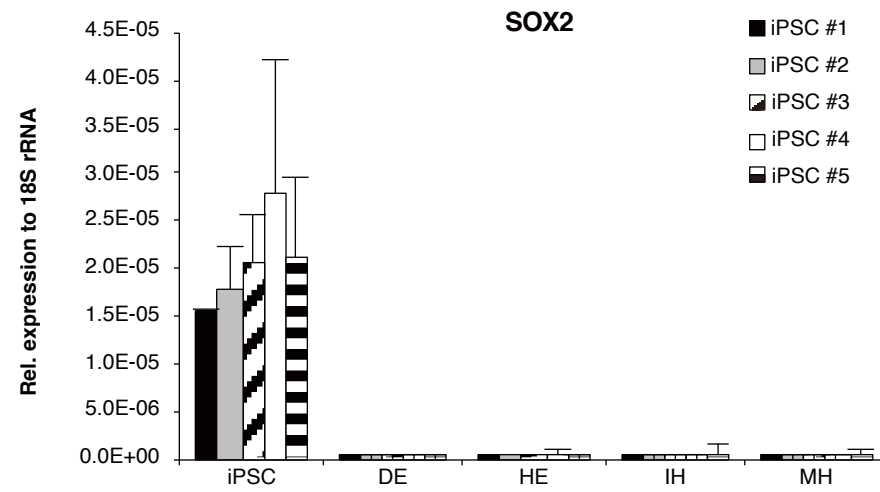
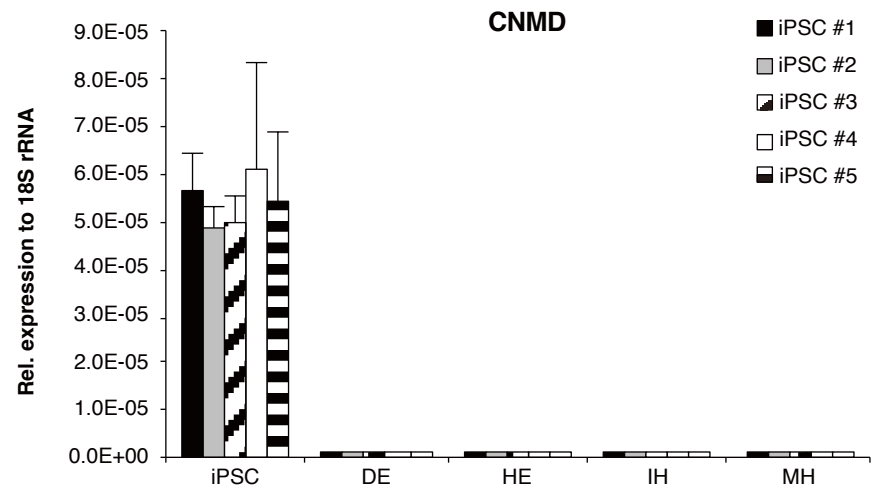
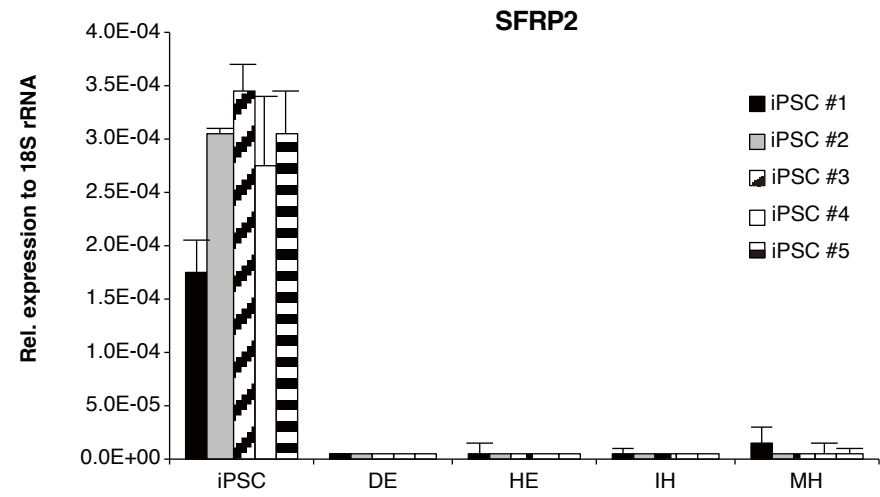
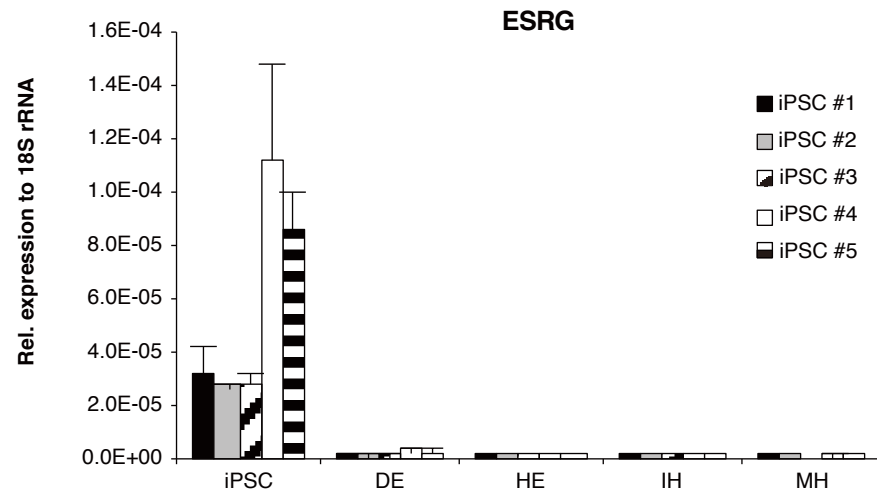


Figure S3

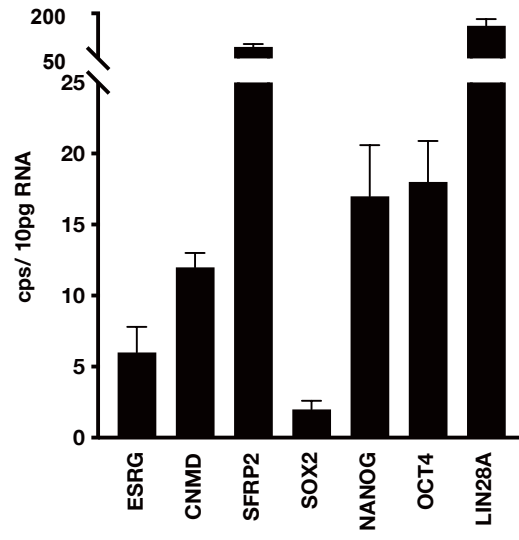


Figure S4

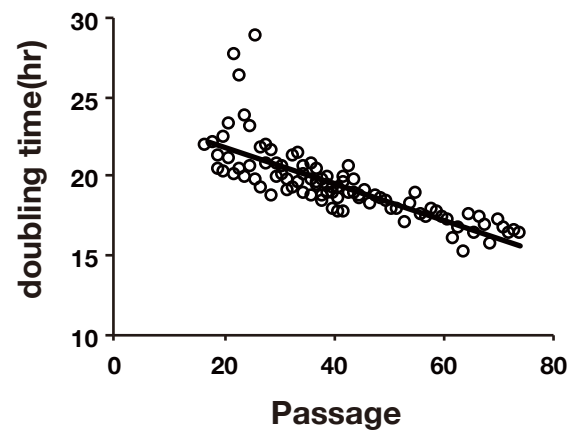
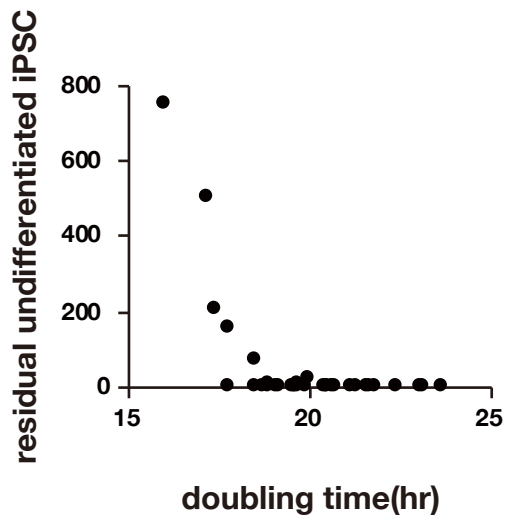


Figure S5

