

Reprogramming of Pancreatic β Cells into Induced Pluripotent Stem Cells

Matthias Stadtfeld, Kristen Brennand,
and Konrad Hochedlinger

Supplemental References

- S1. Stadtfeld, M., Maherali, N., Breault, D.T., and Hochedlinger, K. (2008). Defining molecular cornerstones during fibroblast to iPS cell reprogramming in mouse. *Cell Stem Cell* 2, 230–240.

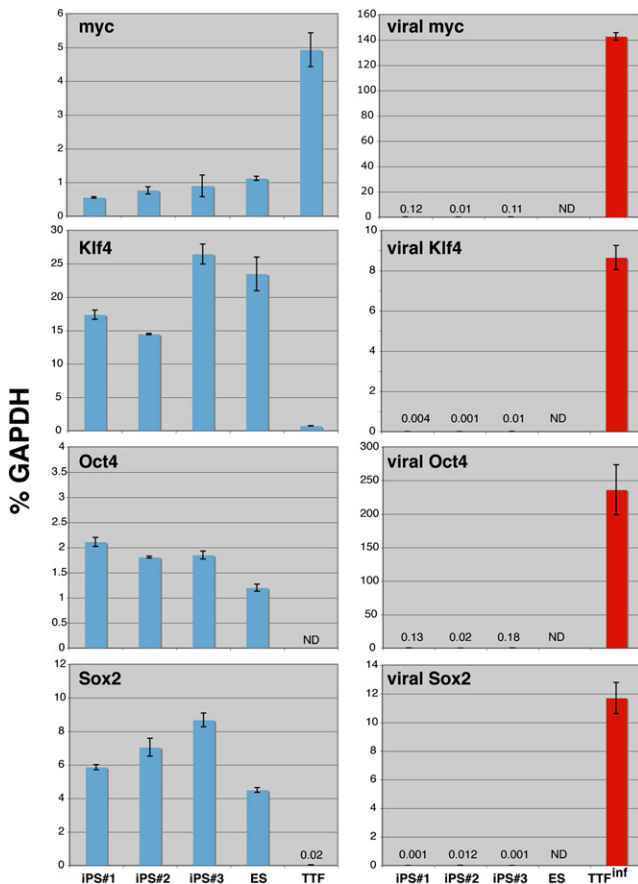


Figure S1. qPCR Analysis of β iPS

Bar diagrams show the expression of endogenous (blue) and viral (red) expression levels of *c-myc*, *Klf4*, *Oct4*, and *Sox2* relative to GAPDH in three β iPS clones cultured in the absence of doxycycline, V6.5 ESCs, RIP-Cre/*lacZ* tail-tip fibroblasts (TTFs), and TTFs expressing rTA from the ROSA26 locus [S1] infected with the respective inducible lentiviruses (TTF^{inf}) and cultured in the presence of doxycycline. Error bars indicate one standard deviation. “ND” stands for not detected.

Table S1. Primers Used for qPCR

Gene	Forward Primer (5' to 3')	Reverse Primer (5' to 3')
<i>Myc</i>	TAACTCGAGGAGGAGCTGGA	GCCAAGGTTGTGAGGTTAGG
<i>Klf4</i>	AACATGCCCGGACTTACAAA	TTC AAGGAATCCTGGTCTTC
<i>Oct4</i>	TAGGTGAGCCGTCTTTCCAC	GCTTAGCCAGGTTTCGAGGAT
<i>Sox2</i>	AGGGCTGGGAGAAAGAAGAG	CCGCGATTGTTGTGATTAGT
<i>Myc (viral)</i>	AAGAGGACTTGTTCGGAAA	TTGTAATCCAGAGGTTGATTATCG
<i>Klf4 (viral)</i>	ATGGTCAAGTCCAGCAAG	TGATATCGAATCCGTTTGTTC
<i>Oct4 (viral)</i>	GCTCGTTTAGTGAACCGTCAG	CGAAGTCTGAAGCCAGGTGT
<i>Sox2 (viral)</i>	GGCCATTAACGGCACACT	AAGCAGCGTATCCACATAGC
<i>GAPDH</i>	AGGTCGGTGTGAACGGATTG	TGTAGACCATGTAGTTGAGGTCA