

# AG08C5 iPSC pluripotency analysis by RT-qPCR

**RT-qPCR analysis of pluripotency markers:** Total RNAs were extracted using RNeasy Plus Mini Kit (Qiagen, cat. No. 74134) according to the manufacturer's recommendations. RNA were reverse transcribed with random hexamers primers by RevertAid™ Reverse Transcriptase (Thermo Fischer Scientific, cat, No. EP0451). Quantitative PCR (qPCR) analysis was then performed using SYBR Green Mastermix (Qiagen) in the CFX-connect system (Bio-Rad). RT-qPCR assays were carried out in triplicate following the manufacturer's protocols. Relative expression levels were normalized to GAPDH house-keeping gene expression using the  $\Delta\Delta C_t$  method. Sets of gene-specific primers used were as follows :  
GAPDH : GTGGACCTGACCTGCCGTCT / GGAGGAGTGGGTGTCGCTGT,  
NANOG: TGAACCTCAGCTACAAACAG / TGGTGGTAGGAAGAGTAAAG,  
OCT4: CCTCACTTCACTGCACTGTA / CAGGTTTTCTTTCCCTAGCT  
SOX2: CCCAGCAGACTTCACATGT / CCTCCCATTCCCTCGTTTT.

**Result:** We validated the activation of endogenous pluripotency genes, namely NANOG, OCT4 and SOX2 in AG08C5 iPS compared to fibroblasts.

