

Supplementary Table 1. Primers and probes for reprogrammed cells

Primer Name	Sequence (5' to 3')	Purpose
Nanog-ES	CAGGTGTTTGAGGGTAGCTC	RT-PCR for endogenous mouse <i>Nanog</i>
Nanog-EAS	CGGTTTCATCATGGTACAGTC	
Oct4-ES	TCTTTCCACCAGGCCCCCGGCTC	RT-PCR for endogenous mouse <i>Oct3/4</i>
Oct4-EAS	TGCGGGCGGACATGGGGAGATCC	
Sox2-ES	TAGAGCTAGACTCCGGGCGATGA	RT-PCR for endogenous mouse <i>Sox2</i>
Sox2-EAS	TTGCCTTAAACAAGACCACGAAA	
Rex1-S	ACGAGTGGCAGTTTCTTCTGGGA	RT-PCR for mouse <i>Rex1</i>
Rex1-AS	TATGACTCACTTCCAGGGGGCACT	
Eras-S	ACTGCCCCATCAGACTGCTACT	RT-PCR for mouse <i>ERas</i>
Eras-AS	CACTGCCCTGTACTCGGGTAGCTG	
Criptio-S	ATGGACGCAACTGTGAACATGATGTTGCA	RT-PCR for mouse <i>Cripto</i>
Cripto-AS	CTTTGAGGTCTGGTCCATCACGTGACCAT	
Gdf3-S	GTTCCAACCTGTGCCTCGCTCTT	RT-PCR for mouse <i>Gdf3</i>
Gdf3-AS	AGCGAGGCATGGAGAGAGCGGAGCAG	
Dax1-S	TGCTGCGGTCCAGGCCATCAAGAG	RT-PCR for mouse <i>Dax1</i>
Dax1-AS	GGGCACTGTTTCAGTTCAGCGGATC	
Utf1-S	GGATGTCCCAGGTACTACGTCTG	RT-PCR for mouse <i>Utf1</i>
Utf1-AS	GGCGGATCTGGTTATCGAAGGGT	
FGF4-S	CGTGGTGAGCATCTTCGGAGTGG	RT-PCR for mouse <i>FGF4</i>
FGF4-AS	CCTTCTTGGTCCGCCCTTCTTA	
FbxF	TGCCAATGTTGGGAGTACA	RT-PCR for mouse <i>Fbx-15</i>
FbxR	AGATTTCCGATGGCATTCTG	
cMyc-ES	TGACCTAACTCGAGGAGGAGCTGGAATC	RT-PCR for endogenous mouse <i>c-Myc</i>
cMyc-EAS	AAGTTTGAGGCAGTTAAATATGGCTGAAGC	
Klf4-ES	GCGAACTCACACAGGCGAGAAACC	RT-PCR for endogenous mouse <i>Klf4</i>
Klf4-EAS	TCGCTTCCTCTCCTCCGACACA	
Nat1-U	ATTCTTCGTTGTCAAGCCGCCAAAGTGGAG	RT-PCR for mouse <i>Nat1</i>
Nat1-L	AGTTGTTTGCTGCGGAGTTGTCATCTCGTC	
pMXs-TgUS	GTGGTGGTACGGGAAATCAC	primer for specific amplification of pMXs derived transgenic transcript
pMXs-Sox2-TgDS	GGTCTCCTGGCCATCTTA	primer for specific amplification of pMXs derived Sox2 transgenic transcript
pMXs-Oct4-TgDS	TAGCCAGGTTTCGAGAATCCA	primer for specific amplification of pMXs derived Oct3/4 transgenic transcript
pMXs-cMyc-TgDS	AGCAGCTCGAATTTCTTCCA	primer for specific amplification of pMXs derived c-Myc transgenic transcript
pMXs-Klf4-TgDS	GGGAAGTCGCTTCATGTGAG	primer for specific amplification of pMXs derived Klf4 transgenic transcript
mCOL1 forward	GAAACCCGAGGTATGCTTGA	RT-PCR for mouse <i>TypeI Collagen</i>
mCOL1 reverse	GAGACCACGAGGACCAGAAG	
mRunx2 forward	GGACGAGGCAAGAGTTTCAC	RT-PCR for mouse <i>Runx2</i>
mRunx2 reverse	TGGCTCAGATAGGAGGGGTA	

mCRR9 forward	GTCGTCAGGTTGCGAGTG	RT-PCR for mouse <i>CRR9</i>
mCRR9 reverse	AAAACCTGGTAGCCCGAAACG	
Taqman mTERT probe	TTCAGGCCCTACAGGTTCCATGCATGT	<i>mTERT</i> qRT-PCR
Taqman mTERT forward	TTCTAGACTTGACAGGTGAACAGCC	
Taqman mTERT reverse	TTCCTAACACGCTGGTCAAAGGGA	
Taqman hRluc probe	CGACCAACTTCTGCAGCTTAAGTTCCG	<i>Rluc</i> qRT-PCR
Taqman hRluc forward	GCTTGATTCTTCTGACACAACAG	
Taqman hRluc reverse	AGTGGACACCCAGTGCCCT	
Taqman 18sRNA probe	AGCAATAACAGGTCTGTGATG	<i>18s</i> qRT-PCR
Taqman 18sRNA forward	TAGAGGGACAAGTGGCGTTC	
Taqman 18sRNA reverse	CGCTGAGCCAGTCAGTGT	
Taqman hTERT probe	TGGATTTGCAGGTGAACAGCCTCCA	<i>hTERT</i> qRT-PCR
hTERT forward	GAACATGCGTCGCAAACCTTTGG	
hTERT reverse	TGCAGCAGGAGGATCTTGATAGTG	
MeNanog-S	GATTTTGTAGGTGGGATTAATTGTGAATTT	methylation analysis of mouse <i>Nanog</i> promoter
MeNanog-AS	ACCAAAAAACCCACACTCATATCAATATA	
mTERT methF1	TTGTAGAGGGAAATTTTGTATGAGTG	methylation analysis of <i>mTERT</i> promoter
mTERT methR1	ATACTTAAAAACAACCAAAACCCA	
hTERT methF2	GTTTTTAGGGTTTTATATATATGTT	methylation analysis of transgenic <i>hTERT</i> promoter
hTERT methR2	ACCAACTTCTACAACCTTAAATT	
mNPYF3	GGGACACCGCTGATCGTTTATTTAAATTGGGTATGGTGGTAGATAAG	mouse <i>Nanog</i> promoter Pyrosequencing first PCR
mNPYR3	TTCTCTTCCATTCTTTCTACAACATAAAACCTTACTACAAAATCTC	
UNI Biotin	5'(Biotin)GGGACACCGCTGATCGTTTA	mouse <i>Nanog</i> promoter Pyrosequencing primer for second biotinylation PCR
mNPY3	AACCTTACTACCAAAATCTC	mouse <i>Nanog</i> promoter Pyrosequencing sequencing primer
OCT4 forward	GACAGGGGGAGGGGAGGAGCTAGG	RT-PCR for endogenous human <i>Oct3/4</i>
OCT4 reverse	CTTCCCTCCAACCAAGTTGCCCAAAC	
SOX2 forward	GGGAAATGGGAGGGGTGCAAAAGAGG	RT-PCR for endogenous human <i>Sox2</i>
SOX2 reverse	TTGCGTGAGTGTGGATGGGATTGGTG	
Nanog forward	TTTGGAAGCTGCTGGGGAAG	RT-PCR for endogenous human <i>Nanog</i>
Nanog reverse	GATGGGAGGAGGGGAGAGGA	
Klf4 forward	GCCACCCACACTTGTGATT	RT-PCR for endogenous human <i>klf4</i>
Klf4 reverse	TCCACTCACAAGATGACTCAGT	
c-Myc forward	TGCCTCAAATFGGACTTTGG	RT-PCR for endogenous human <i>c-Myc</i>
c-Myc reverse	GATTGAAATCTGTGTAACCTGC	
Lin28 forward	AGTTTTGAGGAGCAGGCAGA	RT-PCR for endogenous human <i>lin28</i>
Lin28 reverse	ACTTCCCTATCCAGGCCACT	
CRR9 forward	GCCATTGAGCTGTGGAAAGT	RT-PCR for human <i>CRR9</i>
CRR9 reverse	TCCCCAAACTCGTTCACCTCT	