

Table S1 – List of utilized primer sequences

Gene	Primer sense	Primer antisense
NANOG	TGAACCTCAGCTACAAACAGGTG	AACTGCATGCAGGACTGCAGAG
KLF4	ACCCACACAGGTGAGAAACC	ATGTGTAAGGCGAGGTGGTC
SOX2	AGAACCCCAAGATGCACAAC	CGGGGCCGGTATTATAATC
OCT3/4	CTTGCTGCAGAAGTGGGTGGAGGAA	CTGCAGTGTGGGTTTCGGGCA
NODAL	AGCATGGTTTTGGAGGTGAC	CCTGCGAGAGGTTGGAGTAG
ACTIVIN	AAAGCTTCATGTGGGCAAAG	AATCTCGAAGTGCAGCGTCT
TGFB1	CAACAATTCCTGGCGATACCT	CGTTGATGTCCACTTGCAGT
SMAD2	TCCCAGCAGGAATTGAGCCACA	GTTCTGCTGGAGAGCCTGTGTCC
SMAD4	CAGCACCACCCGCCTATGCC	TGGAACACCAATACTCAGGAGCAGG
ALK4	GGAGCGTCTTGTCTTTGGAG	TGCAACAGGATCGACTTGAG
TGFBRII	CAACCACAGGGCATCCA	TCGTGGTCCCAGCACTCA
TBX3	CGGGAAGGCGAATGTTTCCTCCA	GGTCGGCCTTACCAGCCACC
CD133	CAGAGTACAACGCCAAACCA	AAATCACGATGAGGGTCAGC
MCHERRY	GCGCCTACAACGTCAACATC	GCGTTCGTA CTGTTCCACGA
CDKN1A	CCTGTCACTGTCTTGACCCCTTG	AGAAGATCAGCCGGCGTTT
CDKN1B	TAATTGGGGCTCCGGCTAACT	TTGCAGGTCGCTTCCTATTTC
CDKN1C	TCTGATCTCCGATTTCTTCGC	TGCTGCTACATGAACGGTCC
CYCLIN D1	CGTGGCCTCTAAGATGAAGGA	CGGTGTAGATGCACAGCTTCT
HCNT1	GGTGGCCTGCCTCCTGGATT	AAGCAGCAAGAGCTAGACCCCTCT
HCNT3	CTTTTCTGGAGTACACAGATGCT	CGGCAGGACCTTAAATGCAAA
HENT1	CTCTCAGCCCACCAATGAAAG	CTCAACAGTCACGGCTGGAA
HENT2	TCTCCAACCTCTCAGCCCA CCAA	CCTGCGATGCTGGACTTGACCT
ABCC1	GGAATACCAGCAACCCCGACTT	TTTTGGTTTTGTTGAGAGGTGC
ABCG2	TCATGTTAGGATTGAAGCCAAAGGC	TGTGAGATTGACCAACAGACCTGA
B-ACTIN	GCGAGCACAGAGCCTCGCCTT	CATCATCCATGGTGAGCTGGCGG

Table S2. Oligonucleotides for the production of 5 shRNAs against p21

shRNA	Sequence
p21.1 FW	gatccCCGGCTGATCTTCTCCAAGAGGAACTCGAGTTCCTCTTGAG AAGATCAG CTTTTTGggtac cg
p21.1 RV	aattcggtagccCAAAAAGCTGATCTTCTC CAAGAGG AACT CGAGTTCCTCTTGAGAGAAGATCAGCCGGg
p21.2 FW	gatccCCGGGCTGATCTTCTCCAAGAGGAACT CGAGTTCCTCTTGAGAGAAGATCAG CTTTTTGggtac cg
p21.2 RV	aattcggtagccCAAAAAGCTGATCTTCTC CAAGAGG AACT CGAGTTCCTCTTGAGAGAAGATCAGCCGGg
p21.3 FW	gatccCCGGGACACCACTGGAGGGTGACTT CTCGAG AAGTCA CCCTC CAGTGGTGCTTTTTGggtacc g
p21.3 RV	aattcggtagccCAAAAAGACACCA CTGGAGGGTGACTT CTCGAGA AGTCA CCCTC CAGTGGTGCTCCGG g
p21.4 FW	gatccCCGGCCGCGACTGTGATGCGCTAATCTCGAGATTAGCGCAT CACAGTCG CGGTTTTTGggtacc g
p21.4 RV	aattcggtagccCAAAAACCG CGACTGTGATGCG CTAATCTCGAGATTAGCGCAT CACAGTCGCGG CCGG g
p21.5 FW	gatccCCGGGTCACTGTCTTGACCTTGTCTCGAG ACAAGGTACAAGA CAGTGA CTTTTTGggtac cg
p21.5 RV	aattcggtagccCAAAAAGTCACTGTCTTGACCTTGT CTCGAGA CAAGGTACAAGA CAGTGACC CGGg