



**Supplementary Table 1: Primer sequences**

Gene	Aim	Primer sequence
<i>hTERT</i>	shRNA	5'- AATTCAAAAAGGGTCTTTCTACCAGAGGTGCTTCTCTTGAATCATCTCTGGTAGCAAGACC-3
<i>hTERT</i>	PCR	5'CCACCTTGACAA-AGTACAG3' and 5'CGTCCAGACTCCGCTTCAT3
<i>Smad3</i>	RCR	5'CCGAATCCGATGTC-CCC3' and 5'CCCCTCCGATGTAGTAGAGCC3'
<i>Actin</i>	PCR	5'GCTCGTCGTCGACA-ACGGCTC3' and 5'CAAACATGATCTGGGTCSTCTTCTC3'
<i>ActRIIA(1-161)</i>	PCR	5-AAGAATTCAAATGGGAGCTGCTGCAAAG-3 and 5- AAGGATCCCTGTACACCCAAAATGCACAAAT G-3
<i>ActRIIB(1-160)</i>	PCR	5- AAGAATTCACATGACGGCGCCCTGGGTG-3 and 5- AAGGATCCCGGTACATCCAAAAGGCCAGCAG-3
<i>TGFbRII(1-214)P16</i>	PCR	5- AAGAATTCCCATGGGTCGGGGGCTGCTCAGG-3 and 5- AAGGATCCCGGTAGCAGTAGAAGATGATGATGAC-3
Telomere	Probe	5' CCCTAACCCCTAACCCCTAA 3'
CMV promoter	Sequencing	CGC AAA TGG GCG GTA GGC GTG