

**Table S1. Primer sequences**

Gene name	Direction	Sequence	Assay
hTERT	Forward	CATTTTCATCAGCAAGTTTGGAAG	qRT-PCR
	Reverse	TTTCAGGATGGAGTAGCAGAGG	
GFP-hTERT	Forward	CAACGAGAAGCGCGATCA	qRT-PCR
	Reverse	GCGGCATCTTGTACAGCTC	
CDKL3	Forward	CGTTTCCATGGTGGCAAGTG	qRT-PCR
	Reverse	GGGCTTTTACTACGGCGTCA	
HIPK4	Forward	CAGGTCTCGCCTGAGGATGA	qRT-PCR
	Reverse	GGGTCTGGCCTCTCAGCTT	
MAP3K7	Forward	TGGTGCTGAACCATTGCCA	qRT-PCR
	Reverse	TGCAACCAGCAGTAAGTTTGG	
RET	Forward	TCTCAGAGGAGGAGACACCG	qRT-PCR
	Reverse	CGGGTCTGACATGCCATAGA	
$\beta$ -Actin	Forward	CACTCTTCCAGCCTTCCTTC	qRT-PCR
	Reverse	GTACAGGTCTTTGCGGATGT	