

Table S1: Primers sequences (5' to 3') and amplification conditions used for NoMe-seq, ChIP and *hTERT* expression and promoter gene analysis. The positions of the amplicons are indicated in Fig S1.

Primer name	Primers*	Annealing °C
Sequencing		
hTERT-5kbpromoter-seq	FW : ACCCTTCTCAAGGGAAAACCAGA RV : TGAATCATTCAATCCTTGGGG	60
hTERT-promoter-seq	FW (-712) : AACAGATTTGGGGTGGTTTG RV (-435) : CTGGCCTGATCCGGAGAC	54-56
	FW (-514) : TCCCCTTCACGTCCGGCAT RV (+53) : TCCCACGTGCGCAGCAGGAC	60
	FW (-347) : GGCCGATTGACCTCTCT RV (+120) : AGCACCTCGCGGTAGTGG	60
NOMeSeq		
hTERT-5kbpromoter-NOMeSeq	FW-5kbBS3F : TTTGGAGAGAGGAGTTTGAG RV-5kbBS2R : TCATTCAATCCTTAAAAATAAAAAATAATA	51
hTERT-promoter-NOMeSeq :	FW BS1F : GGGYTTGTGTTAAGGAGYTAAAGT RV BS3R : CCARCCCTAAARCCCAA	58
PCR		
hTERT-qPCR	FW : CGGAAGAGTGTCTGGAGCAA RV : CTCCCACGACGTAGTCCATG	58
GAPDH-qPCR	FW : CACCCATGGCAAATTCATGGC	58

	RV : GCATTGCTGATGATCTTGAGGCT	
ChIP		
hTERT-ChIP-up5kb (-5401)	FW : CCAAAGGCGTAAAACAGGAA RV : CCTCGTGTACTTTCCCTTGC	60
hTERT-ChIP-up2.5kb (-2582)	FW : AAACCTCCCTGGGCTCAAGT RV : CGGTGTATCCCCAGTCTACG	60
hTERT-ChIP-up1.0kb (-1102)	FW : GTTTCTCGCCCTTAGATCC RV : GCAGGACAGCTGAGGACTTC	60
hTERT-ChIP-up0.8kb (-773)	FW : CTCCATTTCCACCCTTTCT RV : ACTTGGGCTCCTTGACACAG	60
hTERT-ChIP-up0.2kb (-233)	FW : CAGGCCGGGCTCCCAGTGGA RV : GGAAGGTGAAGGGGCAGGAC	65
hTERT-ChIP- down1.3kb (+1310)	FW : TGCCCCAGCGCTACTGGCAA RV : TCGCAGCGGGCAGTGCGTCTTGA	67
hTERT-ChIP- down6.5kb	FW : TGGCAACGCTTGTCACCTTA RV : ACGTCAATCCATGTGAGGGG	60
hTERT-ChIP- down12.5kb	FW : CGTCTTTCTTTTATGTCACGGAG RV : AATGCTTTGCAACTTGCTCCA	60
hTERT-ChIP- down41.7kb	FW : CCATCCCCAGATTCGCCATT RV : CTGTGTACAGGGCACACCTT	60

*Y = C or T and R = A or G

Table S2: List of single nucleotide polymorphisms (SNPs) identified by genetic sequencing of the hTERT promoter.

SNPs	Allele	References
rs33958877 GRCh38.p12-g.1295567 GRCH37.p13-g.1295682	A/C (NB4-LR1 and NB4-LR1 ^{SFD})	(Montesanto et al., 2018)
rs35161420 GRCh38.p12-g.1295337 GRCH37.p13-g.1295452	G/C (NB4-LR1 and NB4-LR1 ^{SFD})	(Montesanto et al., 2018)
rs35226131 GRCh38.p12-g.1295258 GRCH37.p13-g.1295373	A/G (NB4-LR1 and NB4-LR1 ^{SFD})	(Montesanto et al., 2018) (Zhang et al., 2016a)
rs2735845 GRCh38.p12-g.1300469 GRCH37.p13-g.1300584	C/G (NB4-LR1 and NB4-LR1 ^{SFD})	(Zhang et al., 2016b; Zhang et al., 2014) (Pande et al., 2011) (Beesley et al., 2011) (Ge et al., 2016) (Zhou et al., 2016)
rs27355946 GRCh38.p12-g.1300314 GRCH37.p13-g.1300429	A>C (NB4-LR1 and NB4-LR1 ^{SFD})	(Pande et al., 2011)
rs2736103 GRCh38.p12-g.1300286 GRCH37.p13-g.0300401	A>G (NB4-LR1 and NB4-LR1 ^{SFD})	(Pande et al., 2011)
rs773702876 GRCh38.p12-g.1300251_1300255 GRCH37.p13-g.1300366_1300370	delTGCCT (NB4-LR1 and NB4-LR1 ^{SFD})	-

Supplementary references

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