

Supplementary Table 1 Primers and probe sequences for *RecQ like helicase 5, telomerase-associated protein 1(TEP)-886 and TEP1-449 genotyping*

Gene (SNP)	Primer name	Primer sequence (5'→3')	Tm (°C)	Probe sequence
<i>TEP1</i> (rs1713449)	Wild-type forward primer	CAACTAAACCTATGGCACGCTCATT AGTCCACTCTCTTCGTCAGAGCTTC TGGTGGaAACCG	45.6 °C	FAM-CA ACTAA ACCTA CCAAC TCACAT ACTCTC
<i>TEP1</i> (rs938886)	Wild-type forward primer	CAACTAAACCTACCTCGCGGTTGTG TCTCCACTCTCTTCTTTGGCCAGGTT CCAaAGG	53.6 °C	CACTCT CTTC-P
<i>RECQL5</i> (rs820196)	Wild-type forward primer	CAACTAAACCTACCAACTGTTCTAC TCTCCACTCTCTTCGGCCCCTTACCT GCTcAAGT	63.2 °C	
<i>TEP1</i> (rs1713449)	Mutant forward primer	CCTAATCATCAATAGTGAGGACCTT ACTCACCTATCCATCAGAGCTTCTG GTGGTAcCCA	46.0 °C	HEX-CC TAATC ATCAA CCACTT ACCAT CACTTC
<i>TEP1</i> (rs938886)	Mutant forward primer	CCTAATCATCAACTCTACCATGCAT GTTACCTATCCATCATTTGGCCAG	54.8 °C	ACCTAT CCAT-P

	forwar	GTTCa ATAGC	
	d		
	primer		
<i>RECQL5</i> (rs820196)	Mutan	CCTAATCATCAACCACCGTGCATCA	65.2 °C
	t	CTTCACCTATCCATGGCCCCCTTACCT	
	forwar	GCg GAAGC	
	d		
	primer		
<i>TEP1</i> (rs1713449)	Revers	AGTGGGCACAACAGAAGGTTATT	
	e		
	primer		
<i>TEP1</i> (rs938886)	Revers	CCAAACCTGAATCTGGTGAGTG	
	e		
	primer		
<i>RECQL5</i> (rs820196)	Revers	CTGGAGCAAGACCTGCATCG	
	e		
	primer		

Tag sequences are shown in bold and artificial mutation sites in lower case.

TEP1: Telomerase-associated protein 1; *RECQL5*: RecQ like helicase 5.