

Supplemental Table 1

Bisulfite modified sequencing

ANK1	Forward	5'-GAGGAGGTGTTTTTGTAAATTTG-3'
	Reverse	5'-CACCTACTACCTTCAACTAC-3'
	Sequencing	5'-ACCTAAATAACCCCCTCCTAACATCTC-3'

Methylation specific PCR

ANK1	M-MSP (F)	5'-GAGCGTTCGGTTCGATAG-3'
	M-MSP (R)	5'-TACGAAACCTATAACGTACG-3'
	U-MSP (F)	5'-GGGAGTGTTTGGTTTGATAGT-3'
	U-MSP (R)	5'-CTCTACAAAACCTATAACATACA-3'

Quantitative RT-PCR

Large ANK1	Forward	5'-GGCCCGCAACGACGACACG-3'
	Reverse	5'-AATGTGCAGGGGCGTGAATC-3'
Small ANK1	Forward	5'-TCAGGGGGTCCCTGTGCTTTGT-3'
	Reverse	5'-GCCCTGCTCATCCGTGAATTGC-3'
GAPDH	Forward	5'-CCATGGAGAAGGCTGGGG-3'
	Reverse	5'-CAAAGTTGTCATGGATGACC-3'
PGK1	Forward	5'-CTCCAGGAGCTCCAACTG-3'
	Reverse	5'-GCTCTCATGGATGAGGTGGT-3'