

Table 1 Sequence of primers and description

Primer	Sequence (5'-3')	Annealing temperature (°C)	Description
UPM (10X)	Long (0.4 µmol/L) CTAATACGACTCACTATAGGGCAAGCAGT GGTATCAACGCAGAGT	70.3	RACE-PCR Universal primers
	Short (2 µmol/L) CTAATACGACTCACTATAGGGC	58.2	
NUP(10 µmol/L)	AAGCAGTGGTATCAACGCAGAGT	60.2	
VIN3-F1 (10 µmol/L)	TTGCGGCGAATCTTGTGGAATGT	60.2	Fragment detection
VIN3-R1 (10 µmol/L)	GCATTGCTCGGCGTGTCAACTAA	62.0	
VIN3-3'-GSP1 (10 µmol/L)	GCATTGTGAACAGGCTCGCTTGTGGTG	66.6	<i>ApVIN3</i> 3' RACE
VIN3-3'-GSP2 (10 µmol/L)	TGGTAAGGTGGTTGGAATGCGAAGGGTA	64.9	
VIN3-sense (10 µmol/L)	ATGGAACCCAACTTCTCAGGTTTTG	60.3	Amplification of CDS
VIN3-antisense (10 µmol/L)	TCAGCTAAACAATCTAGTGCACAGAC	60.4	sequence
qVIN3-F (10 µmol/L)	GCGATAATAATCAAGCACCA	53.7	Real-time PCR analysis
qVIN3-R (10 µmol/L)	GCATTCCAACCACCTTAC	55.8	
Actin-F (10 µmol/L)	CAGTGTCTGGATTGGAGG	55.3	Internal reference gene
Actin-R (10 µmol/L)	TAGAAGCACTTCCTGTG	53.6	primer