

Table S1. Primers used to study the structure of the *Vrn-D1*, *ZCCT-D1*, *ZCCT-D2* and *Ppd-D1* genes.

Primer name	Primers sequence	Target sequence	Annealing Temp. °C	Product Size (bp)	Reference
AetVrn-D1_Intr1F1	TGTCTGCCTCATCAAATCCGTG	<i>Vrn-D1</i> intron 1 with 5437 bp deletion	62	747	[62]
AetVrn-D1_Intr1R1	AGGATTGAAGCGAGAGCAGAGG				
AetVrn-D1_Intr1F2	GTTGTCTGCCTCATCAAATCC	<i>Vrn-D1</i> intron 1 without deletion	61	998	[62]
AetVrn-D1_Intr1R2	AAATGAAAAGGAACGAGAGCG				
AetVrn-D1_Intr1F3	ACAGACCACCAGTGACCGAC	<i>Vrn-D1</i> intron 1 for new deletion	62	275	Current study [62]
AetVrn-D1_Intr1R1	AGGATTGAAGCGAGAGCAGAGG				
Ex1/C/F	GTTCTCCACCGAGTCATGGT	<i>Vrn-D1</i> intron 1 for new deletion	62	3500	[11]
AetVrn-D1_Intr1R1	AGGATTGAAGCGAGAGCAGAGG				
AetZCCT-D1_Intr1F1	AGTTGTTATCTTCCGCTGTC	<i>ZCCT-D1</i> intron 1 with 24 bp deletion	61	302 or 278	Current study
AetZCCT-D1_Intr1R1	CTCTCCTGCATTGTGGGATA				
AetZCCT-D2_Ex2F1	ACTGTGTGCTTCTTTGGACAC	<i>ZCCT-D2</i> exon 2 with 1 bp deletion	63	539 or 538	Current study
AetZCCT-D2_Ex2R1	TACCGGAACCATCCGAGG				
Ppd-D1_F	ACGCCTCCCACTACTG	<i>Ppd-D1</i> promoter region with 2089 bp deletion	54	454 or 228	[37]
Ppd-D1_R1	GTTGGTTCAAACAGAGAGC				
Ppd-D1_R2	CACTGGTGGTAGCTGAGATT				

Table S2. Primers used to analyze the expression level of the *Vrn-D1* gene.

Primer name	Primers sequence	Primer efficiency	Annealing Temp. °C	Reference
qAetVrn-D1_F4	GCTCTTCTTCTTCTTCCTTCAT	90,93%	63	Current study
qAetVrn-D1_R4	GGCTCACCATCCACAGT			
qAetGAPDH_F1	TTCGGAATCGTGAAGGGGAC	90,67%	63	Current study
qAetGAPDH_R1	CTCGTTGGCACGATGTTTCAG			
qSAMDC_F	TACTTCACAGCCGATAGC	93,44%	63	[72]
qSAMDC_R	CCGATTGTTGGACGATACT			
qACTIN_F	ATGGAAGCTGCTGGAATCCAT	107,4%	63	[25]
qACTIN_R	CCTTGCTCATAACGGTCAGCAATAC			