

Supplementary Material: Involvement of Three Esterase Genes from *Panonychus citri* (McGregor) in Fenpropathrin Resistance

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Table S1. Primers used for quantitative reverse transcription PCR (RT-qPCR) and double-stranded RNA (dsRNA) synthesis.

Primer Names		Sequence (5'–3')	Product Size (bp)
ORF Cloning	PcE1-F	<u>GGATCC</u> GATGATATTTAAGTTGCTAATATTTGTGC	1653
	PcE1-R	<u>CTCGAG</u> TAAAGCTCTTCATGGTTATCGG	
	PcE7-F	<u>CCATGGG</u> GATGAATTTGGAAGAGTTTAAAATGT	1692
	PcE7-R	<u>CTGCAG</u> TTAGTTTTCTAGTGGAAATTGGT	
	PcE9-F	<u>GGATCC</u> GATGAAATTAACTTTTCTTTATTTGTG	2118
	PcE9-R	<u>CTCGAG</u> TTAGAAATAAACACGATACATTCTAG	
RT-qPCR	PcE1-qF	GACGATGTTCCAATGATGT	182
	PcE1-qR	ATTTCAACCTTCCAGATTC	
	PcE7-qF	CCACTTATTTTCGCGATGGT	165
	PcE7-qR	TGATGAACGCTGATCCATGT	
	PcE9-qF	CCACCTTCAGGTCCAGTTGT	199
	PcE9-qR	ACGCTGGTTTAGGTTTGGTG	
dsRNA Synthesis	PcE1-dsF	taatacactactatagggAGTGTCTTCGCCTCGGTAA	363
	PcE1-dsR	taatacactactatagggGTGAGTTGGACAAGCGAGTG	
	PcE7-dsF	taatacactactatagggTTCTCGATCCCAGTGCCATT	458
	PcE7-dsR	taatacactactatagggTTACCACCCGAACCTTAGGCC	
	PcE9-dsF	taatacactactatagggCATCGAACCAACCTCACGTG	483
	PcE9-dsR	taatacactactatagggCGCTCCTTTAATGCCCAAGT	

ORF, open reading frame; The underlined regions are restriction enzyme sites. The lowercase letters represent the T7 promoter sequences for efficient in vitro transcription in dsRNA synthesis.