

Supplementary Information

Table S1. Primers for RACE of seven GST genes of *Panonychus citri*.

Gene name	GenBank accession number	Sequences of primers (5'-3')
<i>PcGSTm1</i>	JQ069034	5'RACE: CGGTATGATTGCTTGAGTTG 3'RACE: TCCTTCGTTACATTGGTCG
<i>PcGSTm2</i>	JQ069035	5'RACE: AGAAGAAGACGAATGGGTT 3'RACE: CCTAATCTTCCCTATTTTCATCG
<i>PcGSTm3</i>	JX846609	5'RACE: TGGAGCACCACCAAGTT 3'RACE: ACTCAGACTTTGGCGATTC
<i>PcGSTm4</i>	JX846610	5'RACE: TAACGGAGAATAGCCAAAG 3'RACE: AACATACATCGCAAGTTCTGG
<i>PcGSTd1</i>	JQ069033	5'RACE: TGGTCTTCTCCAATGAACTGTC 3'RACE: GATTTGGACAGTTCATTGGAGA
<i>PcGSTd2</i>	JQ069037	5'RACE: TCATCAACCAAGGTAGGG 3'RACE: GGACAATGGGTCACTTTACG
<i>PcGSTz1</i>	JQ069036	5'RACE: TGATGAATGAAACCAAACG 3'RACE: ATGCTTATCGTTATGGTGTCTG

Table S2. Primers for full-length confirmation of seven GST genes from *Panonychus citri*.

GenBank	Gene	Sequences of primers (5'-3')
JQ069034	<i>PcGSTm1</i>	M1FS: ATGGCTCCAACATATCGGTTATTGGC M1FA: TCATGTTGATTGATTGTTTCCCCATC
JQ069035	<i>PcGSTm2</i>	M2FS: ATGGCTCCTGTTATTGGTTATTG M2FA: TTAATCCTCCGGAGGATTGTGTCTG
JX846609	<i>PcGSTm3</i>	M3FS: ATGGCCCCGATTCTTGGCTACT M3FA: CTAAGTTTGAAGCGGAAATTAG
JX846610	<i>PcGSTm4</i>	M4FS: ATGACACCAATTATTGGTTATTG M4FA: TTAGTTAGACGGAGGATTGTGGC
JQ069033	<i>PcGSTd1</i>	D1FS: ATGTCCATCCAATTGTTTC D1FA: TTATTTTGAAGCTTTGGATT
JQ069037	<i>PcGSTd2</i>	D2FS: ATGGTCTTGGAATTGTATCAAT D2FA: TTAATGAGCAAGTTTTGATTT
JQ069036	<i>PcGSTz1</i>	Z1FS: ATGTCCAAGGTGAAATTATTTTC Z1FA: CTATTGTTTTGGTGCATCGGGTTG

Table S3. Primers for RT-qPCR of GST genes of *Panonychus citri*.

GenBank	Gene	Sequences of primers (5'-3')
JQ069034	<i>PcGSTm1</i>	M1qPCRs: TGGACCCAAATCTGAAGAGG M1qPCRa: AAGGGCAGTTGATGTTTGCT
JQ069035	<i>PcGSTm2</i>	M2qPCRs: GGCGAGAATAAGTTCGTTGC M2qPCRa: TGCTCGATCACCATTGAGAG
JX846609	<i>PcGSTm3</i>	M3qPCRs: ACTTGGTGGTGCTCCAGATT M3qPCRa: CCTCTTCTCCTTTGGGTCCT
JX846610	<i>PcGSTm4</i>	M4qPCRs: ACATCGCAAGTTCTGGGTTC M4qPCRa: GATCCGATGATTGGAAATCG
JQ069033	<i>PcGSTd1</i>	D1qPCRs: GAGTCGCTCGAGTTTTGGTC D1qPCRa: GAATTACCTGGGGCGAGTTT
JQ069037	<i>PcGSTd2</i>	D2qPCRs: GGAGCTAAACCCGATCCTTC D2qPCRa: CTGGATCGGTGACCAGTTCT
JQ069036	<i>PcGSTz1</i>	Z1qPCRs: CCGTTTGGTTTCATTCCATC Z1qPCRa: TGGTCTTTATTTCCGCCAAG
HM582445	<i>GAPDH</i>	GqPCRs: CTTTGGCCAAGGTCATCAAT GqPCRa: CGGTAGCGGCAGGTATAATG

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