

S1 Table. Primers used for PG genes

Primer name	Sequence (5'-3')	Type	
PG1-1F-3RACE	GAACACTAAAATCACTGGCGG		
PG1-2F-3RACE	GTGAACCCACTCCATTCCCCATCGAA		
PG1-3F-3RACE	GAGAGACTGGTTTGGTTAGGGATGTA		
PG2-1F-3RACE	GACGACTGCTTTGTCACTGGAGGTGG		
PG2-2F-3RACE	AACATCAAGACGGAAACCAACGCA		
PG3-1F-3RACE	CAAGGACGTCAGCGAAATTGGTGT		
PG3-2F-3RACE	ACACTGAACGGCAAAGGTATCG		
PG3-3F-3RACE	AGGGAGGTCACGGTATCGCTGTCTG		
PG3-4F-3RACE	CGTGCTCAGAAACGGAACCAACAT		
PG3-5F-3RACE	TCGCTGTTGCTGTAGGAGGTTATG		
PG4 F-3RACE	GAAGTGGAGAGTCAGCAACGTGAA		
PG5-1F-3RACE	CAAGCGTCCTGAAGGCGACCCAAC		
PG5-2F-3RACE	CAAAGTTTGGGTGGTCGATGCCGC		
PG6 F-3RACE	TAGGTAACACTACATCCTGGAGCGAG		
PG1-1R-5RACE	TTTCAAATGAAATCAGAGCCT	3'RACE and 5'RACE for PGs from <i>Apolygus lucorum</i>	
PG1-2R-5RACE	TACGAACAGGTCCCGAATAAC		
PG1-3R-5RACE	TTGTCCCAACGATGTCCT		
PG2-1R-5RACE	AACAGGAAACATCCAAGGGTG		
PG2-2R-5RACE	CACAAAGAACAAGCACCCAAG		
PG3-1R-5RACE	GTCCAGAGTCTTCCCAGCAGG		
PG3-2R-5RACE	TGCGACCTTTGATGATAATGAG		
PG3-3R-5RACE	CAGCGACGAGAAGGAAGACAC		
PG3-4R-5RACE	TGCCTCCGAGTCCGTCCCACC		
PG3-5R-5RACE	CAATCAAGTGTCCAGGTTTTCC		
PG4 R-5RACE	GGGCTCCTACGCTCGTCTTCA		
PG5-1R-5RACE	GCAGGAGTTGATTGAAAACCCGTG		
PG5-2R-5RACE	TTATCGTCAAATGTGATGTGGTGG		
PG6 R-5RACE	TCTGGGGAGGTGTTCTAAGC		
PG1-1F	GCAGTGATCGGTTTCGACTGAG		Gene specific primers used for the cloning of the open reading frames of <i>Apolygus lucorum</i> PG genes
PG1-1R	GGGAATTAGGGACAATGTGTAT		
PG1-2F	GTGCCGTGTGTTGTTGATGAC		
PG1-2R	TCACGGCATAGTATTTATTCA		
PG1-3F	ACTGCGAGAATGATGTTCGC		
PG1-3R	AGGTACGAGATAGGATTATA		
PG2-1F	TCGAGCAGCACTGAAAGCTA		
PG2-1R	CATTATTCATATTTTATTGC		
PG2-2F	AATTTCTCTCGTTAGCTGCAC		
PG2-2R	ATCTTTTTTTCTTTATTGAA		
PG3-1F	AGCGCATCTGATTCAGCTAA		
PG3-1R	AATTGAACAATTCTCTGTATT		
PG3-2F	AGTCTTCGGCAGGCACCAGAAAGC		
PG3-2R	GATAATTGATATATTTTAATTGTC		
PG3-3F	GAGGTGAGATAACTGATTGTG		

PG3-3R	AAACAAGACGTTATCTAACTT	
PG3-4F	TCAAGATCTCAGAGAGAGCGG	
PG3-4R	GACACTTCGAAACACGAGTTT	
PG3-5F	AATATTCTTGCCAACGATTGAACC	
PG3-5R	GTAATGTAATTTTAGTTTATTTC	
PG4F	CAGTCCCATTCTCACAGTT	
PG4R	ACGTTGCGACTAAATTATTTA	
PG5-1F	ACACTTCACCTAGAACAACCTCAAC	
PG5-1R	GCAGTAGATTAGTTTATTGAGTCC	
PG5-2F	AGACTTTTCATCTCACCAAGA	
PG5-2R	CATAAAATATTTATTTGAGGG	
PG6F	CGAGCTGTCAGCTTAGGAAC	
PG6R	CAAATCCCAACATTCAGTAT	
PG1-1 F	CCAAGCATGGTGGACATAACAC	Oligonucleotide primers used for gene expression analysis of the PG genes from <i>Apolygus lucorum</i> .
PG1-1 R	CTCCGACACACTTGGCATTTC	
PG1-1 Probe	FAM-TACAATCAAGACGACTGCTTTGCGACAACA-TAMRA	
PG1-2 F	TTGATTGACGGTGAAGGCCATA	
PG1-2 R	ATTGGCGACGAAACAATCTTTT	
PG1-2 Probe	FAM-CCACGGAGGCAAAAAGAAGCCCA-TAMRA	
PG1-3 F	TCTAATTGCGGCAGTCGC	
PG1-3 R	CCGCTTGTCAGCACTTTTCTT	
PG1-3 Probe	FAM-CAATAACTTCGACCAACTCGCTGCGG-TAMRA	
PG2-1 F	GGTGCCACAACACTGCTATTTT	
PG2-1 R	TCTTCCAGCCCTGCCGTCT	
PG2-1 Probe	FAM-AGAATAACCGTTGACAACAAAGCTGCCG-TAMRA	
PG2-2 F	CGATCTCCAAAATAACCGTTGA	
PG2-2 R	CGGTGACGAAGCAGTCATCTT	
PG2-2 Probe	FAM-TTGGGTTATGCCACCAACATTACTGTCCG-TAMRA	
PG3-1 F	GAGGACACAACACTGACGGTTT	
PG3-1 R	TTCCATGTCCTCCACGACACT	
PG3-1 Probe	FAM-CCAAGACGACTGTCTGGCTCTCAGCTC-TAMRA	
PG3-2 F	ACGACTGTCATCACACCGACTT	
PG3-2 R	GGCAGTCGTCTTGATTGTAACTC	
PG3-2 Probe	FAM-CACAAGAAAGGAGGCCACAACACAGACG-TAMRA	
PG3-3 F	TCAACGTTCCCGCTGGAA	
PG3-3 R	GTAACGCGTCCATGGAATTCTAT	
PG3-3 Probe	FAM-TGCACTTGACTTCCAAGGTTTCGACG-TAMRA	
PG3-4 F	TCATCGGCAACTACCTGAACTC	
PG3-4 R	ATTTCCAGTTGGATCCGTTCTT	
PG3-4 Probe	FAM-CTCCCATCCAGGATCTGACCATCA-TAMRA	
PG3-5 F	ATGTACCCGCTGGAAAGTCATT	
PG3-5 R	CAGGTTTTCCCTCGACAGTCAA	
PG3-5 Probe	FAM-AACCAAAATTACTTTCACTGGCCGCATCA-TAMRA	
PG4 F	CGTCATTCTCAAGGATATCCAACA	
PG4 R	TTGGAACCTCCCTTTTGAACAG	
PG4 Probe	FAM-AATCATCGTCCACGGAAACTACCCCAAC-TAMRA	
PG5-1 F	ACTTCAAGCGGCCAAAAACTCT	
PG5-1 R	ATCTGCCAGCGAATTCCA	

PG5-1 Probe	FAM-TCAATGTTCCCTGCTGGAGTCACGCTCG-TAMRA
PG5-2 F	AACGTCGTTGATGATGTCCTTGT
PG5-2 R	TCCACCGTTAGCATAGTTACCAA
PG5-2 Probe	FAM-AAGGTAATCAACAACGACAACGGAATCCGC-TAMRA
PG6 F	CATCGCAGTCAAATCAGGAACT
PG6 R	ACCAGCACTCGTTCCACAATAT
PG6 Probe	FAM-CCAGAACAACACTACTGCTCGGGAGGACA-TAMRA
Actin F	TCTTGCGGTATCCACGAAAC
Actin R	GAGGGCGGTGATTTCTTCT
Actin Probe	FAM-ACTCCATCATGAAGTGCGACGTCGA-TAMRA
GAPDH F	CTGGAGCTGAATACGTCGTTGAA
GAPDH R	GAGGGATCGTAGGCTTCCAAGTT
GAPDH Probe	FAM-AAAGCAAAGGCCACATCGACGGA-TAMRA
