



Article

Protein Kinase C Is Involved in Vegetative Development, Stress Response and Pathogenicity in *Verticillium dahliae*

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Table S1. Sequences and purpose of the primers used in this study

Primer name	Primer sequence (5'-3')	Purpose
<i>VdPKC</i> -F	GATGCGAAGGAAGAGGATT	Amplification of <i>VdPKC</i> gene
<i>VdPKC</i> -R	ATTGCTTGCGACAGAACT	
<i>VdPKC</i> -q-F	AGGAGATGCGAAGGAAGA	Detection of <i>VdPKC</i> expression level
<i>VdPKC</i> -q-R	CCAAGAGACAGGCGAATT	
β -tubulin-F	TTTCCAGATCACCCACTCC	Detection of expression of reference gene
β -tubulin-R	ACGACCGAGAAGGTAGCC	
<i>VdPKC</i> -up-F	ccaagctcaagcttaagcttCTCTGACGCCATCACAGAGT	Amplification of upstream homologous fragment of <i>VdPKC</i> gene
<i>VdPKC</i> -up-R	atgccgaccgggaaccagttAGCTGTGCGAGACAGGTCGAT	
<i>VdPKC</i> -down-F	aatatcagttgggtgcaggGAGCCAGGACATGATAGATGACT	Amplification of downstream homologous fragment of <i>VdPKC</i> gene
<i>VdPKC</i> -down-R	attaacgccgaattgaattcTCCGTACCTTGTATAAAATGTTGTAA G	
<i>Hyg</i> -F	AACTGGTTCCCGGTCGGCATCTACTC	Amplification of <i>Hyg</i> gene
<i>Hyg</i> -R	CCTGCAGCCCAACTGATATTGAAGGAGC	
up- <i>Hyg</i> -F	CTCTGACGCCATCACAGAGT	Knockout transformer validation
up- <i>Hyg</i> -R	AAATTTTGTGCTCACCGCCTGGAC	
<i>Hyg</i> -down-F	TCTCCTTGCATGCACCATTCCTTG	
<i>Hyg</i> -down-R	TCCGTACCTTGTATAAAATGTTGTAAAG	
<i>VdPKC</i> -tg-F	GATGCGAAGGAAGAGGATT	Detection of <i>VdPKC</i> target gene fragments
<i>VdPKC</i> -tg-R	ATTGCTTGCGACAGAACT	
<i>Hyg</i> -tg-F	CCTGAACTCACCGCGACGTC	Detection of <i>Hyg</i> target gene fragments
<i>Hyg</i> -tg-R	CTATTCCTTTGCCCTCGGACGAGTG	
<i>VdPKC</i> -hb-F	eggccagtccaagcttCCGGATTAATGCCAACTGCG	Amplification of <i>VdPKC</i> and upstream homologous segments
<i>VdPKC</i> -hb-R	gcagcttctgcgaattcTTCAAAGTCGGCCGTGTAG	
<i>VdPKC</i> -cx-F	ACGTGAGAAGCCGACTGC	Amplification of <i>VdPKC</i> target gene segments by complementing mutants
<i>VdPKC</i> -cx-R	TGAACTTGTGGCCGTTTACG	
<i>actin</i> -F	GCTTCCCGATGGTCAAGTCA	Detection of expression of reference gene
<i>actin</i> -R	GGATTCCAGCTGCTTCCATTC	
<i>Vd</i> -F	CCGCCGGTCCATCAGTCTCTCTGTTTATAC	

<i>Vd</i> -R	CGCCTGCGGGACTCCGATGCGAGCTGTAAC	Detection of <i>Verticillium dahliae</i> biomass
q-VdPks1-F	CTCGTCCTGATCCGTATCCCA	Detection of <i>VDAG_00190</i> expression level
q-VdPks1-R	TGTGAATTGAGGCAGGCATG	
q-VdBrn1-F	TGGCATCAAGACAGACATGTA	Detection of <i>VDAG_03665</i> expression level
q-VdBrn1-R	ACAACGCGAGCGATGTTCGAT	
q-VdScd1-F	AAAGGTGTTTGAGAGCGGAC	Detection of <i>VDAG_03393</i> expression level
q-VdScd1-R	ATCTCCCTCTCCACAACAGC	
q-VdBrn2-F	TATGTCCCTGGCGGCTTTAA	Detection of <i>VDAG_00183</i> expression level
q-VdBrn2-R	TGATCCACTCGCAGTCTTCA	
q-VdCmr1-F	AGTTCAGAGGAAGCCGTCTT	Detection of <i>VDAG_00195</i> expression level
q-VdCmr1-R	CAGCGTCGTGACAGTATTCG	
VDH1-F	GTCTATTCATCTGGTTCCTCCCTA	Detection of <i>VDH1</i> expression level
VDH1-R	CAAACCTCTTACAATGTTGACGC	

Note: lowercase letters are primer sequences of splices