

N-methyltransferase CaASHH3 Acts as a Positive Regulator of Immunity Against Bacterial Pathogens in Pepper

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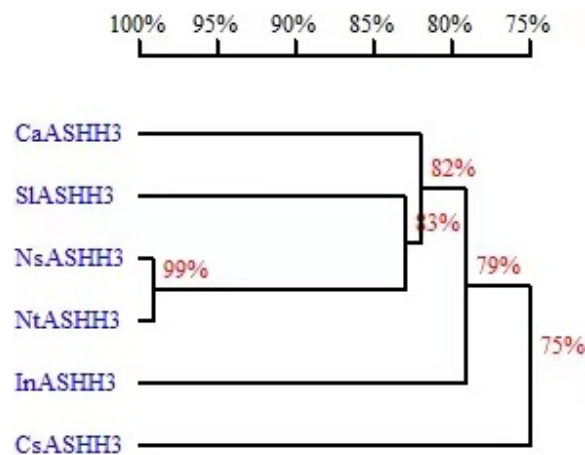
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SUPPLEMENTARY MATERIALS

Supplementary Figures



Supplementary Figure S1. Dendrogram presenting amino acid similarity of CaASHH3 and SET domains from other species

CaASHH3 shares 83% of amino acid identities with SIASHH3, NsASHH3 and NtASHH3, 82% of amino acid identities with InASHH3, and 79% with CsASHH3, respectively.

Supplementary Table S1. Pepper primers used for vectors' construction

Gene	Forward primer (5'-3')	Reverse primer (3'-5')	Size (bP)
<i>CaASHH3</i> ¹	ATGAAGCACAGTGGGGAAAA	TCATAGCTTCTGCTTGCATT	924
<i>Ca ASHH3</i> ²	CGCCACCTCTACCAAAGAG	ACAATGTTGTGTCAATCATCCA	310
<i>Ca ASHH3</i> ³	ATGAAGCACAGTGGGGAAAA	TAGCTTCTGCTTGCATTCCA	924

1Primers for full length cloning of CaASHH3

2Primers for construction of TRV:CaASHH3vector

3Primers for construction of 35S:CaASHH3-GFP

Supplementary Table S2. Primers used in Real timeqRT PCR analyses

Gene	Accession number	Forward primers (5'-3')	Reverse primers(3'-5')	Size (bp)
<i>CaASHH3</i> ¹	LOC107875209	GACGGTGAGACAAGAATTGAC	ATAGCTTCTGCTTGCATTCC	219
<i>CaPR1</i>	AF348141.1	GCCGTGAAGATGTGGGTCAATGA	TGAGTTACGCCAGACTACCTGAGTA	108
<i>CaNPR1</i>	X61679.1	ACTTCTTCGCCGACGCCAAG	GCCAACACATTACACAGAGCATC	190
<i>CaABR1</i>	CA524559	ATGACAGGCACAACAGAAGAAAAT	AATAAGTTATGACAGAGCCATTTT	148
<i>CaActin</i>	GQ339766	AGGGATGGGTCAAAGGATGC	GAGACAACACCGCCTGAATAGC	225
<i>18srRNA</i>	EF564281	CCGGTCCGCCTATGGTGTGCACCGGTCGT	GCAGTTGTTCTGCTTTTCATAAATCCAAG	285

C

AA

1 Specific primers to detect relative expression of CaWRKY30 designed according to the sequence in 3'UTR

Specific primers for marker genes

Supplementary Table S3. Primers used in ChIP experiment

Gene	GenBank Accession #	F_primer	R_primer
PNPR1-Tss	X61679.1	CAAAAAAATGGCAAACCTCTC	AGGGAAAAGAAGAGG AGATA
PHSP24-Tss	HM132040	TGAGTTTCTCGAATCCTTTTCCC	TTCGCCGACTTAGCTTC ACG
PPR1-Tss	XM_016683907. 1	AGTAGTGGCGGCTGTTATCG	AGCAGACTCTACAGGA TTAT
PNPR1-CK	X61679.1	GAGCTAATAAATGAGCAGGT	CAATTATCCAGGAAA ATGCT
PHSP24-CK	HM132040	TTTGACTCAATTTACTAGCG	CGTAAACTATTGATA TTTTA
PPR1-CK	XM_01668390 7.1	ATATAAATCCTTATTATAAG	ACCAAGTGGTCCATA ACGAT