

## IDENTIFICATION

**Species:** *Panicum hallii*

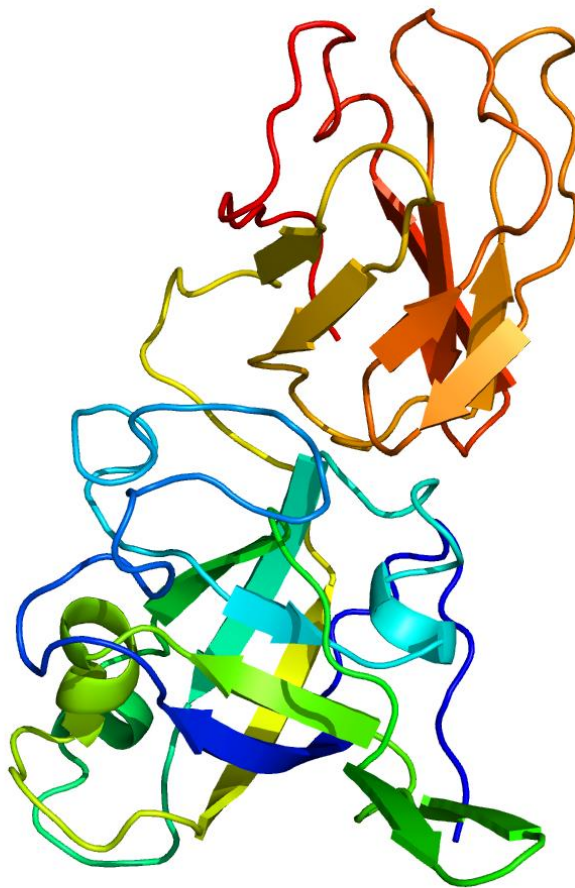
**Locus:** Pahal.4G080800

**Gene Model:** Pahal.4G080800.1.p

**Description:** PhEXPA-12

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

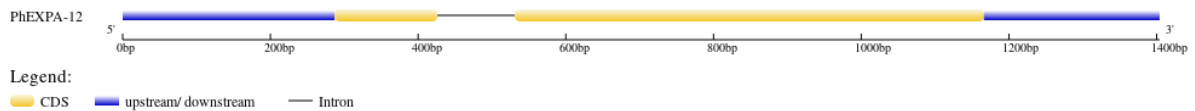
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Phallii\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1)

KEGG: <https://www.genome.jp/entry/T07366>

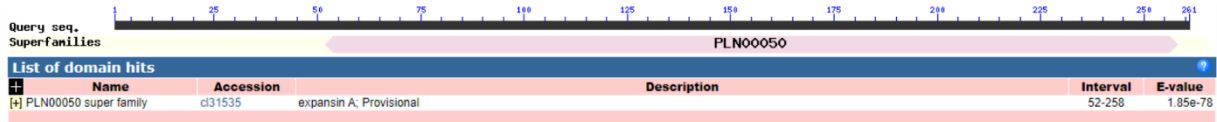
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhEXPA-12

MASSLPLFLLLLLSGAGFCGGVRLGSGGYEDWRLGTATYVKEFQPHPLNDGGGACG  
YGDLDIFRYGRYTAGLSAALFGRGGACGGCYELRCVNHQWCLRGSPTVVVTATDF  
CPANMGLADEAGGWCNFPREHLELSEAFLRVAKAKADIVPVQFRRVSCDRAGGM  
RFTITGSAHFLQVLITNVAADGEVAAVKVKGSRGTGWIPMGRNWGQNWQCDADLRG  
QPLSFEVTGGRGRTVTAYSVASADWMFAQTFEGKQFVE\*

### CDS (coding sequence)

>PhEXPA-12

ATGGCGAGCTCCCTGCCCTGTTCTTGCTGCTGCTGCTGCTGCCGGAGCCGGCTTCTG  
CGGCGGCGTACGGCTCGGCAGTGGCGGCTACGAGGACTGGAGGCTCGGCACCGC  
CACCTACGTCAAGGAGTTCAGCCGCACCCGCTCAACGACGGTGGCGGGCCTGC  
GGGTACGGCGACCTGGACATCTTCAGGTACGGGCGCTACACGGCGGGGCTGAGC  
GCGGCGCTGTTTCGGGCGCGGCGGCGCCTGCGGTGGCTGCTACGAGCTCCGGTGCG  
TGAACCACATCCAGTGGTGCCTCCGGGGCAGCCCAACGGTGGTGGTGACGGCGA  
CGGACTTCTGCCCCGCCAACATGGGCCTCGCCGATGAGGCCGGCGGCTGGTGCAA  
CTTCCCCCGGGAGCACCTCGAGCTGTCGGAGGCCGCGTTCCTCCGCGTCGCCAAG  
GCCAAGGCAGACATCGTGCCGGTGCAGTTCCTGATGGGTGAGCTGCGACAGGGCG  
GGCGGCATGCGGTTACGATCACCGGCAGCGCGCACTTCCTGCAGGTGCTGATCA  
CCAACGTGGCGGCCGACGGCGAGGTGGCCGCCGTGAAGGTGAAGGGGTCGAGGA  
CCGGGTGGATCCCGATGGGGCGGAAGTGGGGCCAGAACTGGCAGTGCGACGCCG  
ACCTCCGCGGCCAGCCGCTGTCTGTTTCGAGGTCACCGGCGGGAGGGGCCGGACGG  
TCACCGCGTACAGCGTCGCGTCCGGCGGACTGGATGTTTCGCGCAGACGTTTCGAGGG  
CAAGCAGTTCGTCGAGTAG

### Nucleotide

>PhEXPA-12

AAGTCACGGTGCGGCACCTCGCACAGTTGCAGGCCTGCAGCCACATCACATGCAC  
GTGCCGCCCATCCCGCGTGCAGCGCCTCGTGCCCCAGCAATATAAGCACGGCCGCC  
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TGTTCAACGACGGCGCGTTCGTGCGGGCGTTGCTTCAAGCTCACCTGCGACGCGCG  
CGCGGACCCGCAAGTGGTGCCGCCGGGGCACCTCCGTACCCATCACGGCGACCAA  
CTTCTGCCCGCCAACTACGCGCTGCCCTCTGACGACGGCGGGTGGTGCAACCCG  
CCGCGGCAGCACTTCGACATGGCGCAGCCGGCGTGGGAGAGGATCGGCATCTAC  
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GAGTTCGCCGACGTCGTGCCGCCGTCGTGGACGTTCCGGGCTGACGTACGCGAGCA  
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