

## IDENTIFICATION

**Species:** *Panicum hallii* HAL

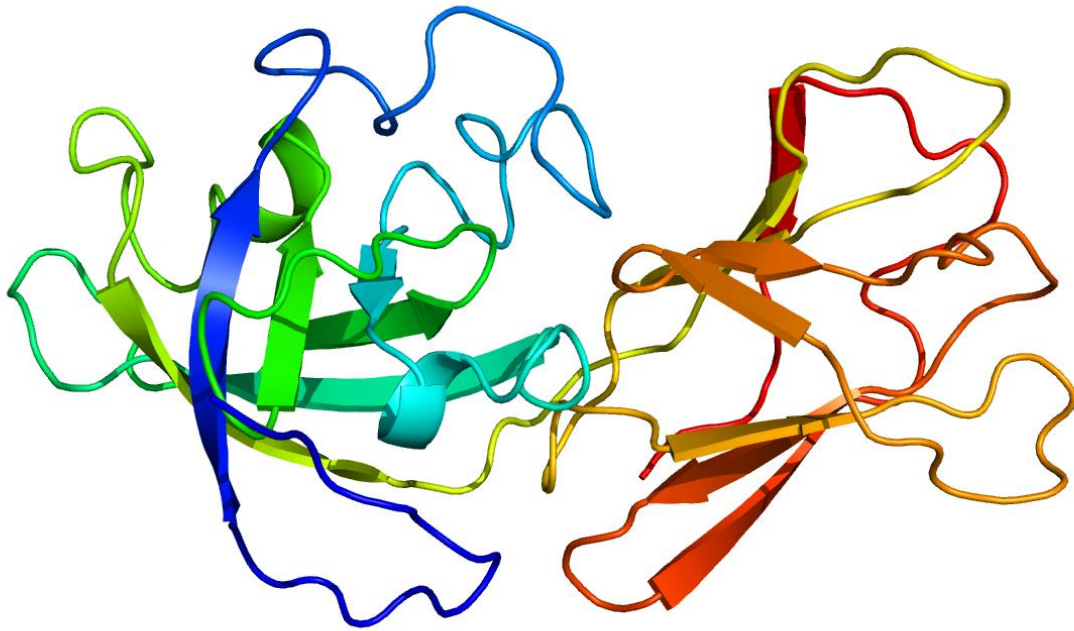
**Locus:** PhHAL.9G417800

**Gene Model:** PhHAL.9G417800.1.p

**Description:** PhhEXPA-29

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/PhalliiHAL\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PhalliiHAL_v2_1)

KEGG:-

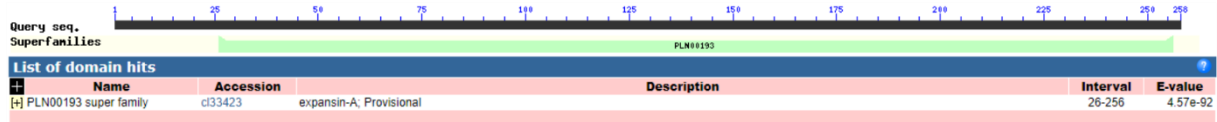
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhhEXPA-29

MASPSTAILALAVALVCAATAANARFTAMQWTPAHATFYGDETA AETMGGACGYG  
NLYATGYGTDTAALSTTLFKDGYGCGTCYQIRCAGSPWCYRGSPVITVTATNLCPPN  
WAQDSNNGGWCNPPRTHFDLSKPAFMRMAQWRAGIVPVMYRRVPCVRRGGLRFA  
LQGNPYWLLAYVMNVAGAGDVAEMSVRSGRGAWVRMSHNW GASFQAFAQLGGR  
ALSFKVTSYTTRQTVVATNVAPANWCLGLTYQARVNFS\*

### CDS (coding sequence)

>PhhEXPA-29

ATGGCTTCTCCATCCACAGCCATCTTGGCCCTCGCCGTCGCGTTGGTCTGCGCAGC  
CACCGCCGCGAATGCGAGGTTACGGCGATGCAGTGGACTCCGGCGCACGCCAC  
GTTCTACGGCGACGAGACCGCGGCCGAGACCATGGGTGGGGCGTGCGGGTACGG  
CAACCTGTACGCGACGGGGTACGGCACGGACACGGCTGCGCTGAGCACGACACT  
GTTCAAGGACGGGTACGGGTGCGGGACGTGCTACCAGATCCGGTGCGCGGGCTC  
CCCCTGGTGCTACCGGGGCTCGCCGGTGATCACGGTGACGGCGACCAACCTGTGC  
CCGCCAACTGGGCGCAGGACTCCAACAACGGCGGGCTGGTGCAACCCGCCGCGG  
ACCCACTTCGACCTCTCCAAGCCGGCGTTCATGCGGATGGCCCAGTGGCGCGCCG  
GCATCGTGCCGGTCAATGTACCGGCGGGTGCCCTGCGTGAGGGCGCGGCGGCTCCG  
GTTTCGCGCTCCAGGGGAACCCCTACTGGCTGCTGGCGTACGTGATGAACGTGGCC  
GGCGCCGGCGACGTCGCGGAGATGTTCGGTGAGGAGCGGGCGCGGCGCGTGGGTG  
CGCATGAGCCACAACCTGGGGCGCGTTCGTTTCAGGCGTTCGCGCAGCTCGGCGGCC  
GGGCGCTCAGCTTCAAGGTCACCTCCTACACCACCCGGCAGACCGTTCGTCGCCAC  
CAACGTTCGCGCCGGCAAACCTGGTGCCCTCGGGCTCACGTACCAGGCCCGCGTCAAC  
TTCTCCTGA

### Nucleotide

>PhhEXPA-29

ATGGCTTCTCCATCCACAGCCATCTTGGCCCTCGCCGTCGCGTTGGTCTGCGCAGC  
CACCGCCGCGAATGCGAGGTTACGGCGATGCAGTGGACTCCGGCGCACGCCAC  
GTTCTACGGCGACGAGACCGCGGCCGAGACCATGGGTACGTTGCTGCTTGTACG  
GTGCGTTAGCGGCGCCGCTTCTTGGCATTTCGCTTACGGGTGCCGAGATTGTT  
TTCGCCGAAGGTGGGGCGTGCGGGTACGGCAACCTGTACGCGACGGGGTACGGC

ACGGACACGGCTGCGCTGAGCACGACACTGTTCAAGGACGGGTACGGGTGCGGG  
ACGTGCTACCAGATCCGGTGC GCGGGCTCCCCCTGGTGCTACCGGGGCTCGCCGG  
TGATCACGGTGACGGCGACCAACCTGTGCCCGCCAACTGGGCGCAGGACTCCA  
ACAACGGCGGGCTGGTGCAACCCGCCGCGGACCCACTTCGACCTCTCCAAGCCGGC  
GTTTCATGCGGATGGCCCAGTGGCGCGCCGGCATCGTGCCGGTCATGTACCGGCGG  
GTGCCCTGCGTGAGGCGCGGCGGCTCCGGTTCGCGCTCCAGGGGAACCCCTACT  
GGCTGCTGGCGTACGTGATGAACGTGGCCGGCGCCGGCGACGTCGCGGAGATGT  
CGGTGAGGAGCGGGCGCGGCGCGTGGGTGCGCATGAGCCACAACCTGGGGCGCGT  
CGTTTCAGGCGTTCGCGCAGCTCGGCGGCCGGGCGCTCAGCTTCAAGGTCACCTC  
CTACACCACCCGGCAGACCGTTCGTCGCCACCAACGTCGCGCCGGCAAACCTGGTGC  
CTCGGGCTCACGTACCAGGCCCGCGTCAACTTCTCCTGAAACTGAGAGGCCGGAG  
GAGCACGTCGTTCCGTAGCAGAAGTTTGCAGGAGCTGTGATGCCGAGAACGCTCT  
GCCCTGCTACGATGTTCCATTGTTTTCTCTGTTCTCGTAGTTCAGAGTTCAGTCA  
GATTTGGGACGTGTCGAGCGTTGCCCCCGTCCATGAGGAGCAGTGGGTTTGACGC  
CAGCATTATTGATGTAAAGCTTGCTTAATTTTTTTCTGGAAGACCGATGGGCGCA  
AATCATGGC