

## IDENTIFICATION

**Species:** *Panicum hallii*

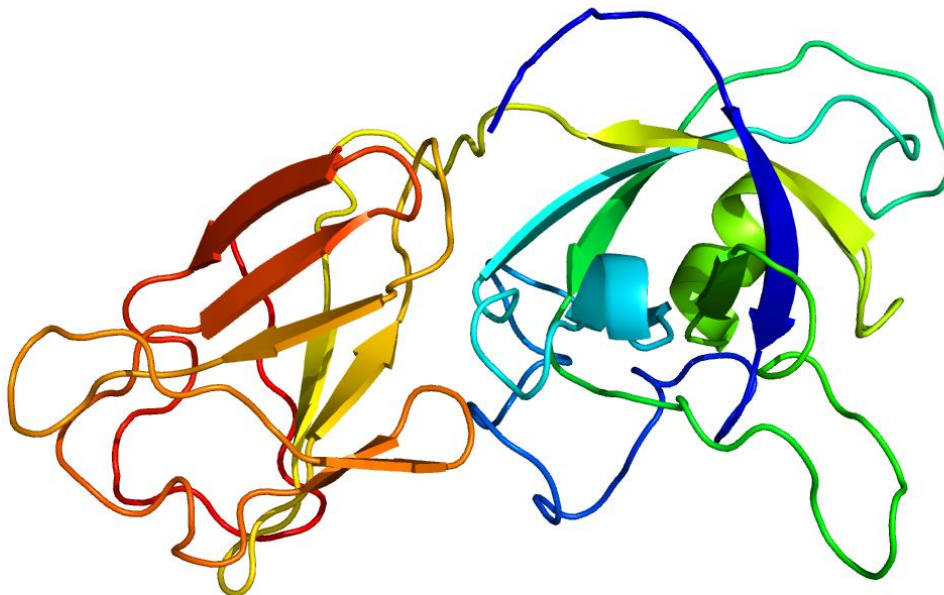
**Locus:** Pahal.9G239000

**Gene Model:** Pahal.9G239000.1.p

**Description:** PhEXPA-28

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

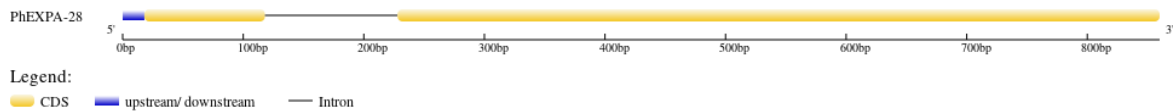
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Phallii\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1)

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

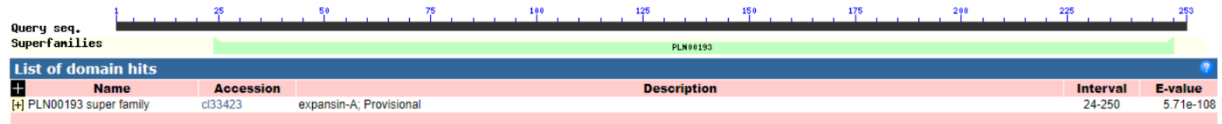
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhEXPA-28

MKTTKSLVLLCTVLAACLALAAAGWSPGTATFYGGADGSGTMGGACGYDNLNA  
GYGVNNAALSTTLFNDGASCGQCYKITCDRSRPGGQYCKPGNSITVTATNLCPPNYA  
LPNGGWCGPGRPHFDMAQPAWEHIGVYQAGVVPVFYQQVKCSRSSGGVRFISIAGSNY  
FLLVNIQNLAGSGSVTAAWVKGDKTGWIQMSRNWGANWQALSGLVGQSLSFAVTS  
TGGQYIQFLNVVPSWWQFGMAFTTNKNFVR\*

### CDS (coding sequence)

>PhEXPA-28

ATGAAAACGACCAAGTCCCTGGTCTTACTATGCACAGTCCTTGCGGCGTGCCTCG  
CGCTCGCCGACGCTGGCTGGTCTCCGGGCACCGCCACGTTCTACGGCGGAGCCGA  
TGGCTCCGGCACAATGGGCGGCGCGTGCGGCTACGACAACCTGTACAACGCTGG  
GTACGGCGTTAACAACGCGGCGCTGAGCACGACGCTGTTCAACGACGGCGCGTC  
CTGCGGCCAGTGCTACAAGATCACCTGCGACCGGTCACGCCCGGGCGGCCAGTAC  
TGCAAGCCCAGCAACAGCATCACCGTCACAGCGACCAACCTGTGCCCCGCCAACT  
ACGCGCTCCCAACGGCGGCTGGTGCAGCCCGGGCGCCCCACTTCGACATGGC  
GCAGCCGGCGTGGGAGCACATCGGCGTCTACCAGGCCGGCGTCTCCCGGTCTTC  
TACCAGCAGGTCAAGTGCTCGCGCAGCGGCGGCGTGCAGTTCAGCATCGCCGGCT  
CCAATACTTCTGCTCGTCAACATCCAGAACCTCGCCGGCAGCGGCTCAGTGAC  
CGCGGCCTGGGTCAAGGGCGACAAGACGGGCTGGATCCAGATGTCCAGGAACTG  
GGGCGCCAACCTGGCAGGCGCTCTCCGGGCTCGTCGGCCAGAGCCTCAGCTTCGCC  
GTGACCAGCACCGGCGGGCAGTACATTCAGTTCCTGAACGTCGTCCCGAGCTGGT  
GGCAGTTCGGCATGGCCTTCACCACCAACAAGAATTCGTCCGCTAG

### Nucleotide

>PhEXPA-28

ATGGCTAAATTCCTGATGCTGTGCACGATGGTTGCGGCGTGCCTCGCCCTTGCAG  
CCGCCGACTGGTCTCCCGGCACCGCCACATTCTACGGCGGCGTGCAGGGCTCCGG  
CACCATGGGTAAGCATGCACATAGTCCGGTACAACAAGAGCTAGCTCAAGAGAA  
CTGCATCGAATTACGTTCCAGCTGACATTGCATGCATACGTGTCATGTCTCCGGCG  
ATGCACAGGAGGCGCGTCCGGGTACGACAACCTGTACAACGCGGGGTACGGCGT  
CAACAACGCGGCGCTGAGCCAGACGCTCTTCAACGACGGCGCGTCTGCGGGCA

GTGTTACCTCATCACCTGCGACGGGTACGCCCCGGGCGGCCAGTACTGCAAGCCC  
AGCAGCAGCATCACGGTCTCGGCTACCAACCTGTGCCCGCCAACTACGCGCTCC  
CCAACGGCGGCTGGTGCGGCCCGGCCGCCCCACTTCGACATGTCGCAGCCGGC  
GTGGGAGCACATCGGCGTCTACCAGGCCGGCACCGTCCCCGTCTGTACCAACGG  
GTCCAGTGCTCGCGCAGCGGCCGGCGTGCGCTTCAGCATGGCTGGCTCCAATACT  
TCCTGCTCGTCAACATCCAGAACCTCGGGCGGCAGCGGCTCCGTGGCGGGCGGCATG  
GGTCCAGGGCGACAACACGGGGTGGATCCAGATGTCAAGGAACTGGGGCGCCAA  
CTGGCAGGCGCTCGCCGGGCTCGTCGGCCAGGGGCTCAGCTTCGCCGTGACCAGC  
ACCGGCGGGCAGTACATTCAGTTCCTCAACGCCGTGCCGGCGTGGTGGCAGTTCG  
GCATGGCCTTCTCCACCAATCAGAACTTCGTCTACTAG