

## IDENTIFICATION

**Species:** *Panicum hallii*

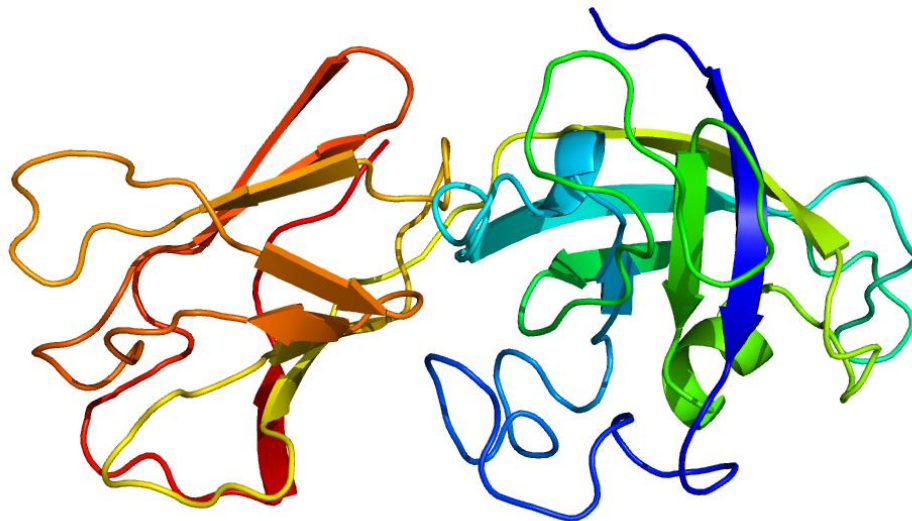
**Locus:** Pahal.9G239100

**Gene Model:** Pahal.9G239100.1.p

**Description:** PhEXPA-29

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

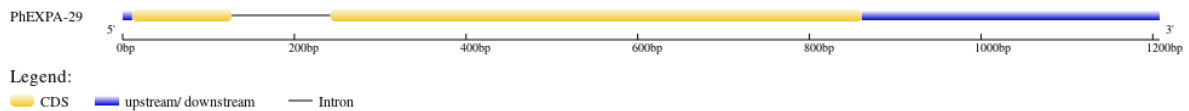
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Phallii\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1)

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

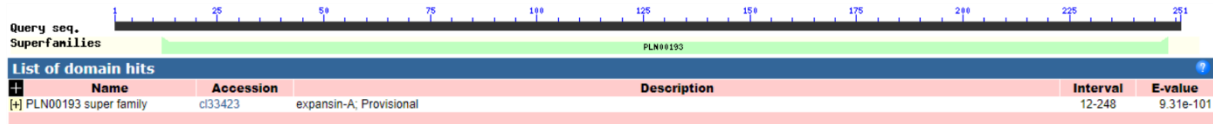
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhEXPA-29

MVKSPILSTLVLAACVALATAQGSPGTATFYGGADGSGTMGGACGYGNLYDSGYG  
VLNAALSETLFSDGASCGQCYTISCDGSRPGGEYCKPGTSITVSATNLCpanyALPNG  
GWCgPGRPHFDMAQPAWEHIGVYQAGIIPVVYQQVKCSRGGGVRFsiAGCNYFLLIN  
IQNLGGSGSVGAAWIKGDSTGWIQMSRNWGANWQALAGLVGQGLSFAVTSTGGQY  
IQFLNVVPAWWQFGETYTTNKNYYY\*

### CDS (coding sequence)

>PhEXPA-29

ATGGTCAAGTCCCCGATTTTGTCCACGCTCGTCCTTGCGGCGTGCGTCGCGCTCGC  
CACGGCCCAGGGGTCTCCGGGCACCGCCACGTTCTACGGCGGAGCCGACGGCTCT  
GGCACCATGGGTGGCGCGTGC GGGTACGGCAACCTCTACGACTCCGGGTACGGC  
GTGCTGAACGCGGCGCTGAGCGAGACGCTGTTCAGCGACGGCGCGTCTGCGGG  
CAGTGCTACACCATCTCGTGCGACGGGTGCGGCCCGGGCGGCGAGTACTGCAAGC  
CCGGCACGTCGATCACGGTCTCGGCCACCAACCTGTGCCCCGGCCAACTACGCGCT  
GCCAACGGCGGGTGGTGC GGCCCGGGGCGCCCCACTTCGACATGGCGCAGCC  
GGCGTGGGAGCACATCGGCGTCTACCAGGCCGGCATCATCCCCGTGGTGTACCAG  
CAGGTCAAGTGCTCGCGCGGCGGGCGGCGTGC GCTTCAGCATCGCCGGGTGCAACT  
ACTTCTGCTCATCAACATCCAGAACCTCGGCGGCAGCGGCTCCGTGGGCGCCGC  
GTGGATCAAGGGCGACAGCACGGGTGGATCCAGATGTCAAGGAACTGGGGAGC  
CAACTGGCAGGCCCTCGCCGGGCTCGTTCGGCCAGGGGCTCAGCTTTGCCGTGACC  
AGCACCGGCGGGCAGTACATCCAGTTCCTCAACGTCGTGCCGGCGTGGTGGCAGT  
TCGGCGAGACCTACACCACCAACAAGAACTACTACTACTAA

### Nucleotide

>PhEXPA-29

ATGAAAACGACCAAGTCCCTGGTCTTACTATGCACAGTCCTTGCGGCGTGCCCTCG  
CGCTCGCCGAGCTGGCTGGTCTCCGGGCACCGCCACGTTCTACGGCGGAGCCGA  
TGGCTCCGGCACAATGGGTGAGTAGATTTTCCGTATGCATTTCCGGCACAAGGGCA  
ATCTACCCGTCTTCCCAGTTTCGGACATTTTACTTGTATACTTTGCTAATGTGTGC  
ATGTGTATGACGATGAATAGGCGGCGCGTGC GGCTACGACAACCTGTACAACGCT  
GGGTACGGCGTTAACAAACGCGGCGCTGAGCACGACGCTGTTCAACGACGGCGCG

TCCTGCGGCCAGTGCTACAAGATCACCTGCGACCGGTACGCCCCGGGCGGCCAGT  
ACTGCAAGCCCCGGCAACAGCATCACCGTACAGCGACCAACCTGTGCCCGCCA  
ACTACGCGCTCCCCAACGGCGGCTGGTGC GGCCCCGGGGCGCCCCACTTCGACAT  
GGCGCAGCCGGCGTGGGAGCACATCGGCGTCTACCAGGCCGGCGTTCGTCGCGGT  
CTTCTACCAGCAGGTCAAGTGCTCGCGCAGCGGCCGGCGTGCGCTTCAGCATCGCC  
GGCTCCAACACTTTCCTGCTCGTCAACATCCAGAACCTCGCCGGCAGCGGCTCAG  
TGACCGCGGCCTGGGTCAAGGGCGACAAGACGGGCTGGATCCAGATGTCCAGGA  
ACTGGGGCGCCAACCTGGCAGGCGCTCTCCGGGCTCGTCGGCCAGAGCCTCAGCTT  
CGCCGTGACCAGCACCGGCGGGCAGTACATTCAGTTCCTGAACGTCGTCCCGAGC  
TGGTGGCAGTTCGGCATGGCCTTACCACCAACAAGAATTCGTCCGCTAGCTAA  
ACCGTGTGCAAGCAGCATAGTTCTCTTTATCTCCTTTGCAAGCAATTCGGGGTGCT  
GTTGTGTCGAATGGCGAGTGCGAGCTTTGATTTTCATGGAGCCTTTTATGCACTT  
GTGCCATTGCATCCTAGTTGGCCACCTGAATGGCTTGTCTCCTACGTGATGCTCCG  
ACTGCAGGAGGAAATAGCAAGGGTCTTTGGAATGTTACATAGACCTTATTAAGGC  
TTACATCTGTTTTCAATGCTTTAGATACCACACATTATGTCTTTTTTAAGAGAGGA  
TTCTGTGCCCTCCAAATATGTTTCATCAAGAGAAATTGAGTTTTACAAGCA