

## IDENTIFICATION

**Species:** *Panicum hallii*

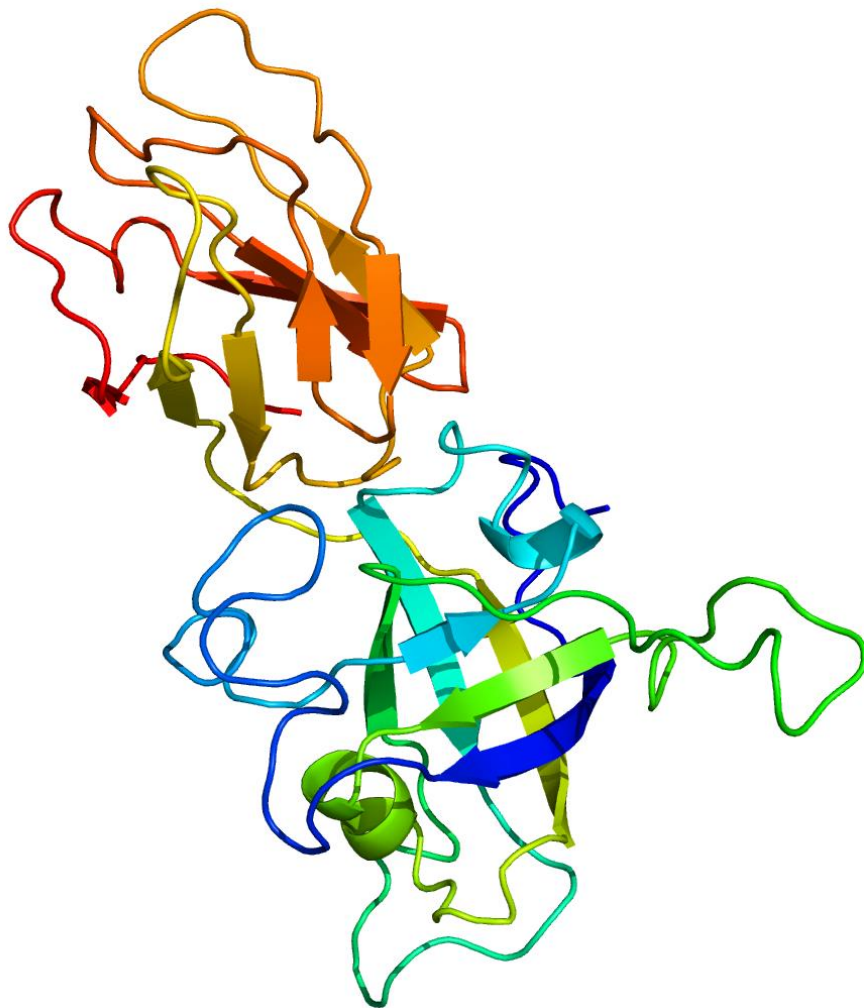
**Locus:** Pahal.1G112800

**Gene Model:** Pahal.1G112800.1.p

**Description:** PhEXPA-01

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

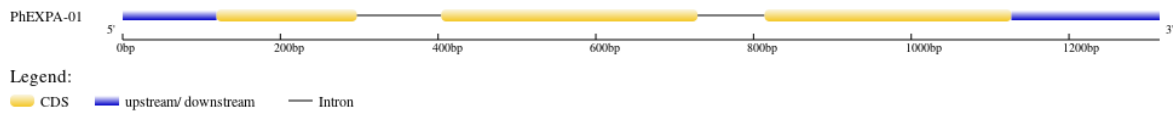
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Phallii\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1)

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

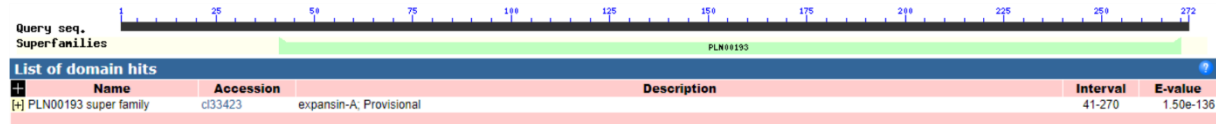
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhEXPA-01

MAPARVLTLLVLLATAAAWVLAADDAGPASTSSSSSPAPAGWLKAHATFYGGADA  
SGTMGGACGYGNLYSQGYGTRTAALSTALFNDGASCGQCYKIACDRKRADPAFCKP  
GVTVTVTATNFCPPNYALPGDNGGWCNPPRAHFDMAQPAWEKIGVYSSGGIIPVMYR  
RVPCVRRGGVRFSTNGHDYFNLVLIANVAAAGSIKSM DVKSSGSDNWMMPMARNWG  
AQWHSLAYLTGQSLSFRTD TDGQTLEFTNVVPKGWKFGQTFASKIQFK\*

### CDS (coding sequence)

>PhEXPA-01

ATGGCTCCAGCTCGAGTTCTCACACTCGTGTTGCTCGCCACAGCTGCTGCCTGGGT  
TTTGGCCGCGCTGATGACGCCGGCCCCGCCAGCACGTCGTCGTCGTCATCTCCG  
GCGCCGGCGGGATGGCTGAAGGCGCACGCCACGTTCTACGGCGGCGCCGACGCC  
TCCGGCACCATGGGCGGCGCGTGC GGGTACGGCAACCTGTACTCGCAGGGCTAC  
GGCACGCGGACGGCGGCGCTGAGCACTGCCCTCTTCAACGACGGCGCGTCTGTC  
GGCCAGTGCTACAAGATCGCCTGCGACCGCAAGAGGGCGGACCCGGCGTTCTGTC  
AAGCCCGGCGTGACGGTCACCGTCACGGCCACCAACTTCTGCCCGCCAACTACG  
CGCTGCCCGGCGACAACGGCGGCTGGTGCAACCCGCGCGGGCGCACTTCGACA  
TGGCCAGCCGGCCTGGGAGAAGATCGGCGTCTACAGCGGCGGTATCATCCCCGT  
CATGTACAGAAGGGTTCCTTGCGTGAGGCGAGGTGGGGTGC GGTTCACGAGCAA  
CGGGCACGACTACTTCAACCTTGTGCTCATAGCCAATGTCGCAGCAGCTGGCTCC  
ATCAAATCCATGGATGTCAAGAGCTCCGGTTCGGATAACTGGATGCCAATGGCGC  
GCAACTGGGGTGCCCAATGGCACTCCCTTGCATACCTTACGGGGCAAAGTCTCTC  
GTTTAGGGTCACCGACACCGATGGACAGACTCTTGAATTCACGAACGTGGTGCCA  
AAAGGATGGAAGTTTGGCCAAACATTCGCAAGCAAGATACAGTTCAAGTGA

### Nucleotide

>PhEXPA-01

TTGAGGAACACCTCTTGCAGTTGCAGGCAGCTCCGATCCACCTTCTGAGTCTGAG  
CTACAAACAGTAGCTTCTTCTCGTGACGCTTTCAGAGGCACACGAAACTGCGAGC  
GCGATCGGTATGGCTCCAGCTCGAGTTCTCACACTCGTGTTGCTCGCCACAGCTG  
CTGCCTGGGTTTTGGCCGCGCTGATGACGCCGGCCCCGCCAGCACGTCGTCGTC  
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GCCGACGCCTCCGGCACCATGGGTAAGCTCCTCTGATCTACCCGCTCAAAAACCA  
TGGGATAGCAGTGTATATGGCAGAATTAACCGGATTGTCATAACGGTTTTCTGA  
TGCTCATGTGTTACGGCAGGCGGCGCGTGCGGGTACGGCAACCTGTACTCGCAGG  
GCTACGGCACGCGGACGGCGGCGCTGAGCACTGCCCTCTTCAACGACGGCGCGT  
GTGCGGCCAGTGCTACAAGATCGCCTGCGACCGCAAGAGGGCGGACCCGGCGTT  
CTGCAAGCCCGGCGTGACGGTCACCGTCACGGCCACCAACTTCTGCCCGCCAAC  
TACGCGCTGCCCGGCGACAACGGCGGCTGGTGCAACCCGCCGCGGGCGCACTTC  
GACATGGCCCAGCCGGCCTGGGAGAAGATCGGGCGTCTACAGCGGCGGTATCATC  
CCCGTCATGTACAGAAGGTGGGCTAGTCTCTTGATCTTCACTTGATCAACAATTTT  
CCCCAAGATCATCATCTGAATTGAAGGTTGAATTGTTGGTTGCAGGGTTCCTTGC  
GTGAGGCGAGGTGGGGTGCGGTTCACGAGCAACGGGCACGACTACTTCAACCTT  
GTGCTCATAGCCAATGTGCGCAGCAGCTGGCTCCATCAAATCCATGGATGTCAAGA  
GCTCCGGTTCGGATAACTGGATGCCAATGGCGCGCAACTGGGGTGCCCAATGGCA  
CTCCCTTGCATACCTTACGGGGCAAAGTCTCTCGTTTAGGGTCACCGACACCGAT  
GGACAGACTCTTGAATTCACGAACGTGGTGCCAAAAGGATGGAAGTTTGGCCAA  
ACATTCGCAAGCAAGATACAGTTCAAGTGAGAGGGTCCATGTGGGATTTCTGCG  
GTCGATTTGTGGGAGTATGAACTACTAATTGAACATGGTCAAATGCTTGGAGTT  
GCTTCTACTGTATAAAATGTGCATTACTTGTATGTGGATACCTATTCAGCATCCAT  
GGCTTGTATCTCTCATTCTTTATATATATATATATATATATTCAGCGTTTAAAT