

## IDENTIFICATION

**Species:** *Panicum hallii*

**Locus:** Pahal.1G113400

**Gene Model:** Pahal.1G113400.1.p

**Description:** PhEXPA-05

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

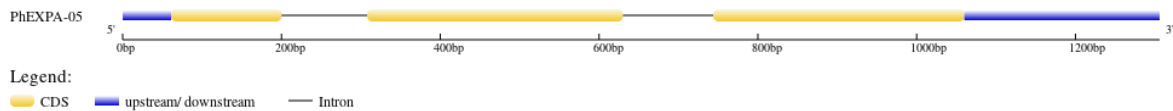
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Phallii\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1)

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

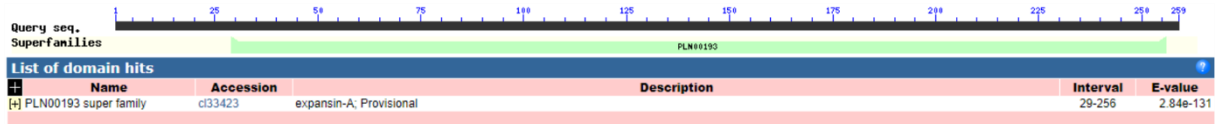
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhEXPA-05

MAGAYARAALALALWCALAAAAAGQTGQWLRAHATFYGGADASGTMGGACGYG  
NLYAQGYGTRTTALSTALFADGAACGQCYKLVCDRKTDRTWCKPGVSVTVTATNF  
CPPNWSIPSDRGGWCNPPRSHFDMAQPAWEKIGVYRGGIIPVIYRRVSCVKKGGVRF  
AINGHDYFNLVLVTNVAGPGSIRAMDVRGSRSPDWMPMARNWGANWYSLTYLNG  
QGLSFRVTVTDGQTIIVFANVPPNWRFGQSFASNLQFNL\*

### CDS (coding sequence)

>PhEXPA-05

ATGGCCGGAGCGTACGCCCGCGCGGCGCTCGCGCTCGCGCTCTGGTGCGCGCTGG  
CGGCCGCGGCGGCTGGGCAGACCGGCCAGTGGCTCCGGGGCGCACGCCACGTTCT  
ACGGCGGCGCCGACGCCTCCGGCACCATGGGAGGCGCGTGCGGGTACGGGAACC  
TGTACGCGCAGGGCTACGGCACGCGCACGACGGCGCTGAGCACGGCGCTCTTTGC  
GGACGGCGCCGCCTGCGGGCAGTGCTACAAGCTGGTGTGCGACCGCAAGACGGA  
CCGGACGTGGTGCAAGCCCGGGGTGTCGGTCACCGTCACGGCCACCAACTTCTGC  
CCGCCAACTGGAGCATCCCCAGCGACCGCGGGCGGCTGGTGCAACCCGCCGCGG  
TCGCACTTCGACATGGCGCAGCCGGCGTGGGAGAAGATCGGCGTCTACCGCGGC  
GGCATCATCCCCGTCATCTACCGAAGGGTGTCTGTGCGTGAAGAAGGGCGGGGTG  
CGCTTCGCCATCAACGGGCACGACTACTTCAACCTGGTGTCTGGTGACCAACGTGC  
CGGGGCCGGGGTCCATCAGGGCCATGGACGTCAGGGGGTCCCGGTCGCCGGACT  
GGATGCCCATGGCGCGCAACTGGGGCGCCAACTGGTACTCCCTCACCTACCTCAA  
CGGCCAGGGGCTCTCCTTCAGGGTCACCGTCACCGACGGCCAGACCATCGTCTTC  
GCCAACGTCGTGCCGCCAACTGGAGGTTCCGGCAGTCCCTTCGCCAGCAACCTGC  
AGTTCAACCTCTGA

### Nucleotide

>PhEXPA-05

GCATTCATTCAGTTCGAAATAAAGCCATTCTTTGCCAACGAACAAGATAGCTAAG  
CACGGCATGGCCGGAGCGTACGCCCGCGCGGCGCTCGCGCTCGCGCTCTGGTGCG  
CGCTGGCGGCCGCGGCGGCTGGGCAGACCGGCCAGTGGCTCCGGGGCGCACGCCA  
CGTTCTACGGCGGCGCCGACGCCTCCGGCACCATGGGTAAGCCCCACCTACTACC

TGCCGCTCACAACGCACGCACGCGACGTGCTAATCGTCGTTGATGAAAGATCGTA  
ACGGCTGATGTGCGACGCGACCTATCCATTGCAGGAGGCGCGTGCGGGTACGGG  
AACCTGTACGCGCAGGGCTACGGCACGCGCACGACGGCGCTGAGCACGGCGCTC  
TTTGCGGACGGCGCCGCTGCGGGCAGTGCTACAAGCTGGTGTGCGACCGCAAG  
ACGGACCGGACGTGGTGCAAGCCCGGGGTGTCGGTCACCGTCACGGCCACCAAC  
TTCTGCCCCGCCAACTGGAGCATCCCCAGCGACCGCGGGCGGCTGGTGCAACCCGC  
CGCGGTGCGACTTCGACATGGCGCAGCCGGCGTGGGAGAAGATCGGGGTCTACC  
GCGGCGGCATCATCCCCGTCATCTACCGAAGGTGATACGCACGCAACGATCGCAG  
CACATCAGAAATAATTGTCTTTCTACACACATCGATCGTCGATCGATCTCACCAC  
GTCGATCTCCAAACCAAATTGCAACTGGTTTGCAGGGTGTTCGTGCGTGAAGAAGG  
GCGGGGTGCGCTTCGCCATCAACGGGCACGACTACTTCAACCTGGTGCTGGTGAC  
CAACGTCGCGGGGCGGGGTCCATCAGGGCCATGGACGTCAGGGGGTCCCGGTC  
GCCGGACTGGATGCCCATGGCGCGCAACTGGGGCGCCA ACTGGTACTCCCTCACC  
TACCTCAACGGCCAGGGGCTCTCCTTCAGGGTCACCGTCACCGACGGCCAGACCA  
TCGTCTTCGCCAACGTCGTGCCGCCAACTGGAGGTTCCGGGCAGTCCTTCGCCAG  
CAACCTGCAGTTCAACCTCTGAGCAAGCAATGCGTACGTACGTGCTGCCTCTGAT  
CTCGACCTCCGATCGATCGATTAAGGTGTTGGGTATAGGATGCAGCATATACCTG  
GATCGATTTGGAAGACATGCTGTGGAGAGAGA ACTGGTTGCCATATCTGTAGGAA  
TTGTA CTTATTACTACCTGCTTGGAGAATTTCGATCAAAAGATATTTTTGTTGATT  
GCTTGCGCTTGTAGTGTGCTGTGTGATGTACATAAATAGATTTTATT