

## IDENTIFICATION

**Species:** *Panicum hallii*

**Locus:** Pahal.5G110400

**Gene Model:** Pahal.5G110400.1.p

**Description:** PhEXPA-14

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

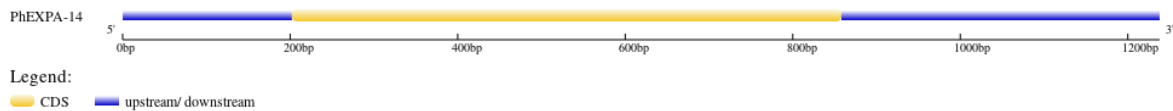
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Phallii\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1)

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

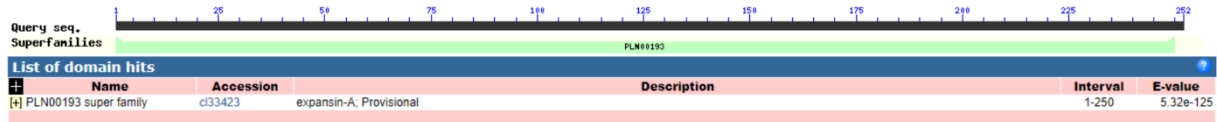
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhEXPA-14

MATANVFFLLLCSTFCFLARRAAGDYGGWQSAHATFYGGGDASGTMGGACGYGNL  
YSTGYGTNTAALSTALFNDGASCGQCFELRCDNAGQSCLPGTITVTATNFCPPNYGLP  
SDDGGWCNPPRPHFDMAEPAFLQIAQYRAGIVPVA YRRVPCVKKGGIRFTINGHSYF  
NLVLVTNVAGAGDVQSVSIKGSSTGWQAMSRNWGQNWQSNLLDGGQALSFKVTAS  
DGRCVTSNNAAPAGWQFGQTFEGGQF\*

### CDS (coding sequence)

>PhEXPA-14

ATGGCGACCGCCAATGTCTTCTTCCCTCCTGCTCTGCTCGACCTTCTGCTTCCTCGC  
CCGCCGGGCTGCCGGCGACTACGGCGGGTGGCAGAGCGCCACGCCACGTTCTA  
CGGCGGCGGCGACGCGTCCGGCACAATGGGCGGGGCGTGCGGGTACGGGAACCT  
GTACAGCACCGGGTACGGCACCAACACGGCGGGCGCTGAGCACAGCGCTGTTCAA  
CGACGGCGCCTCGTGCGGGCAGTGCTTCGAGCTCCGGTGCGACAACGCGGGGCA  
GTCGTGCCCTGCCGGGCACCATCACCGTGACGGCCACCAACTTCTGCCCGCCCAAC  
TACGGCCTCCCCAGCGACGACGGCGGCTGGTGCAACCCGCCGCGCCCGCACTTCG  
ACATGGCCGAGCCGGCCTTCTCCAGATCGCGCAGTACCGCGCCGGCATCGTGCC  
CGTCGCGTACAGGAGGGTGCCGTGCGTGAAGAAGGGCGGGATCCGGTTCACCAT  
CAACGGCCACTCCTACTTCAACCTGGTGCTGGTGACCAACGTGGCCGGCGCCGGC  
GACGTGCAGTCCGTGTCCATCAAGGGCTCCTCCACCGGGTGGCAGGCCATGTCCC  
GCAACTGGGGCCAGA ACTGGCAGAGCAACTCGCTGCTCGACGGCCAGGCCCTCT  
CCTTCAAGGTCACCGCCAGCGACGGCCGCTGCGTCACCAGCAACAACGCCGCGCC  
GGCCGGCTGGCAGTTCGGCCAGACTTTCGAGGGCGGCCAGTTCTAG

### Nucleotide

>PhEXPA-14

CACACACATCTATATACATCCCCGATCGGTCAAGAACTAGCCC GCCGGCCGGAC  
GGCGGCGAGCTTGTAGATCTGTCATGGCGAGAACTAGTTGGTCGTCGGCGATGGT  
CGTGGCTGCTGCATTGGTCATGGCAGCCGCTGCGGCACAAGCACAAGTGCGGAG  
CGCGTACTATTACCAGCAGCAGCAGCCCGCTTCAGGGCGTCGGACTGGCAGGAC  
GGCAGCGCCACCTTCTACGGCGACGACTCCGGCCTGGGCGCGGACTTCGGCGGGC  
CGTGCGGCTTCGGCGCCAGCGACATCCTGTCCCTCTACTCCACGTACACGGCGGC

GCTGAGCACGCCGCTCTTCTCGCAGGGCAACGGGTGCGGGCAGTGCTACGAGCTC  
CGCTGCGTCAACTCCCGGTGGTGCAACCCCGGCTCGCCGTCGGTCACCGTCACCG  
GCACCAACCTCTGCCCCGCCAACTGGTACCTCCCCAGCGACAACGGCGGGCTGGTG  
CAACCCGCCGCGGCAGCACTTCGACATGGCGCCGCCCTCCTTCTACCGCCTCGCG  
CAGCGGGTTCGCGGGAATCATCCCCGTCCAGTTCGCGCCGCGTCCCGTGCCGGAGGC  
CCGGTGGGGTCAGGCTCTGCCTGCAGGGGAACTACTACTGGCTGCTCGTCTACGT  
CATGAACGTCGCCGGCGGGCGGCGACGTCAGCGACCTGGCCGTCAAGCGCGCCGG  
GGACCCCGACTGCAACTACGCGCACGCCAGCCACAACCTGGGGGGTACGTACCA  
GGTCTTCGGCGCGCTGAGGAACGCGCGGGGGGCTCGTCGTCAAGATGACCAGCTA  
CAGCTCGCCGCAGCAGACCATCGTCGTCGACGACGCCATACCCGCAGGATGGAG  
CACAGGACTCTGCTACCAGGGATCAAACAACCTTCTATTGACGATAGGATCATCAT  
CAGATCTATATATTCAGACCTGCTGCGTGCTGCTAGCTTTTGGATCTTCATTCCTT  
GATTTTCTTCCTCGTTCTCCTCAACTTCTGCAACTATTATGTATGTATATTTCTCCC  
TGTGTGGATCCATTTTATATATGCTCCCTTGAGTTATTTATTTGGGTTTCGTATATT  
AGCTAGGATGGATGTCAGTGCTAATCGATCTTCTCCGGATTAAATATGTCAGTAT  
GCGCACGTATGTATGTGTTCTTCTCGTCCTATAAAAATCAAAGATTCCTTTTTCTT  
TGTTAAATATATGTATACTACCTTGAT