

## IDENTIFICATION

**Species:** *Panicum hallii* HAL

**Locus:** PhHAL.1G108900

**Gene Model:** PhHAL.1G108900.1.p

**Description:** PhhEXPA-01

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

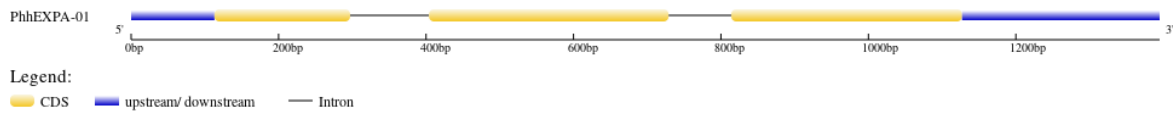
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PhaliiHAL\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PhaliiHAL_v2_1)

KEGG:-

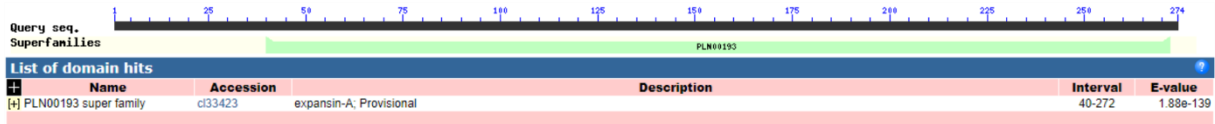
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhhEXPA-01

MAPARVLTLLVLLATAAAWVSAVAAADDAGPASTSLSSSPAPAGWLKAHATFYGGA  
DASGTMGGACGYGNLYSQYGTTRTAALSTALFNDGVSCGQCYKIACDRKRADPAF  
CKPGVTVTVTATNFCPPNYALPGDNGGWCNPPRAHFDMAQPAWEKIGVYSGGIIPV  
MYRRVPCVRRGGVRFTHDHFNLVLIANVAAAGSIKSMDVKSSSDNWMPMARN  
WGAQWHSLAYLTGQSLFRVTDTDGQTLFTNVVPKGWKFGQTFASKIQFK\*

### CDS (coding sequence)

>PhhEXPA-01

ATGGCTCCAGCTCGAGTTCTCACACTCGTGTTGCTCGCTACAGCTGCTGCCTGGGT  
TTCAGCCGTGGCCGCCGCTGATGACGCCGGCCCCGCCAGCACGTCGTTGTCGTCA  
TCTCCGGCGCCGGCAGGATGGCTGAAGGCGCACGCCACGTTCTACGGCGGCGCC  
GATGCCTCCGGCACCATGGGCGGCGCGTGCGGGTACGGCAACCTGTACTCGCAG  
GGCTACGGCACGCGGACGGCGGCGCTGAGCACTGCCCTCTTCAACGACGGCGTCT  
CGTGCGGCCAGTGCTACAAGATCGCCTGCGACCGCAAGAGGGCGGACCCGGCGT  
TCTGCAAGCCC GGCGTGACGGTCACCGTCACGGCCACCAACTTCTGCCC GCCAA  
CTACGCGCTGCCCGGCGACAACGGCGGCTGGTGCAACCCGCCGCGGGCGCACTTC  
GACATGGCGCAGCCGGCCTGGGAGAAGATCGGCGTCTACAGCGGCGGTATCATC  
CCCGTCATGTACAGAAGGGTTCTTGCCTGAGGCGAGGTGGGGTGCGGTTACGA  
TCAACGGGCACGACTACTTCAATCTTGCTCATAGCCAATGTTGCAGCAGCTGG  
CTCCATTAAATCCATGGATGTCAAGAGCTCCAGTTCGGATAACTGGATGCCAATG  
GCGCGCAACTGGGGTGCCCAATGGCACTCCCTTGCATACCTTACAGGGCAAAGTC  
TCTCGTTT AGGGTCACCGACACCGATGGACAGACTCTTGAATTCACGAACGTGGT  
GCCAAAAGGATGGAAGTTTGGCCAAACATTCGCAAGCAAGATACAGTTCAAGTG  
A

### Nucleotide

>PhhEXPA-01

AACACCTCTTGCAGTTGCAGGCAGCTCCGATCCACCTTCTGAGTCTGAGCTACAA  
ACAGTAGCTTCTTCTCGTGCAGCTTTCAGAGGCACACGAAACTGCGAGCGCGATC  
GGTATGGCTCCAGCTCGAGTTCTCACACTCGTGTTGCTCGCTACAGCTGCTGCCTG

GGTTTCAGCCGTGGCCGCCGCTGATGACGCCGGCCCCGCCAGCACGTCGTTGTCG  
TCATCTCCGGCGCCGGCAGGATGGCTGAAGGCGCACGCCACGTTCTACGGCGGGC  
CCGATGCCTCCGGCACCATGGGTAAGCTCCTCTGATCTACCCGCTCAAAAACCAT  
GGGATAGCAGTGTATATGGCAGAATTAACCCGGATTGTCATAACGGTTTTCTGAT  
GCTCATGTGTTACGGCAGGCGGGCGCTGCGGGTACGGCAACCTGTACTCGCAGGG  
CTACGGCACGCGGACGGCGGGCGCTGAGCACTGCCCTCTTCAACGACGGCGTCTCG  
TGCGGCCAGTGCTACAAGATCGCCTGCGACCGCAAGAGGGCGGACCCGGCGTTC  
TGCAAGCCC GGCGTGACGGTCACCGTCACGGCCACCAACTTCTGCCCGCCCAACT  
ACGCGCTGCCCGGGCACAACGGCGGGTGGTGCAACCCGCCGCGGGCGCACTTCG  
ACATGGCGCAGCCGGCCTGGGAGAAGATCGGGCTTACAGCGGGCGGTATCATCC  
CCGTCATGTACAGAAGGTGGGCTAGTCTCTTGATCTTCACTTGATCAACAATTTTC  
CCCCAGGATCATCATCTGAATTGAATGTTGAATTGTTGGTTGCAGGGTTCCTTGCG  
TGAGGCGAGGTGGGGTGCGGTTACGATCAACGGGCACGACTACTTCAATCTTGT  
GTCATAGCCAATGTTGCAGCAGCTGGCTCCATTAAATCCATGGATGTCAAGAGC  
TCCAGTTCGGATAACTGGATGCCAATGGCGCGCAACTGGGGTGCCCAATGGCACT  
CCCTTGCATACCTTACAGGGCAAAGTCTCTCGTTTAGGGTCACCGACACCGATGG  
ACAGACTCTTGAATTCACGAACGTGGTGCCAAAAGGATGGAAGTTTGGCCAAAC  
ATTCGCAAGCAAGATACAGTTCAAGTGAGAGGGTCCATGTGGAATTTCTGCGGT  
CGATTTGTGGGAGTATGAACTGCTAATTGAACATGGTCAAATGCTTGGAGTTGC  
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GGTTTGTATAAAGCTGGGTGTCATGTTGAATTGTTTCATCTGCTGGCAAATCACAA  
GCTTGGCTAATGAAGGCC