

## IDENTIFICATION

**Species:** *Panicum hallii* HAL

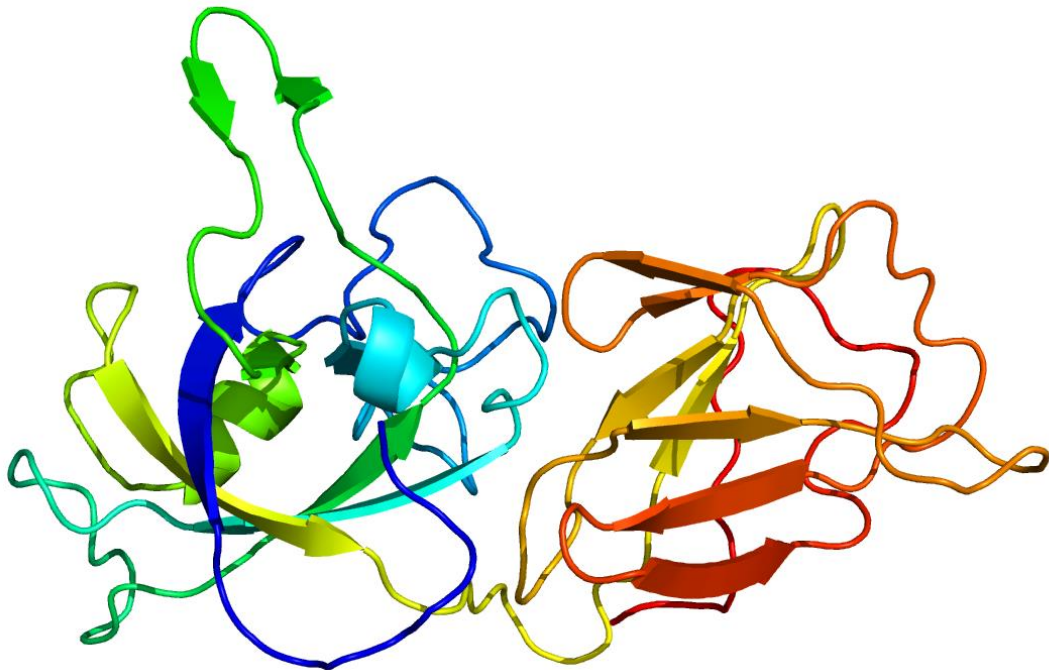
**Locus:** PhHAL.1G111100

**Gene Model:** PhHAL.1G111100.1.p

**Description:** PhhEXPA-05

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

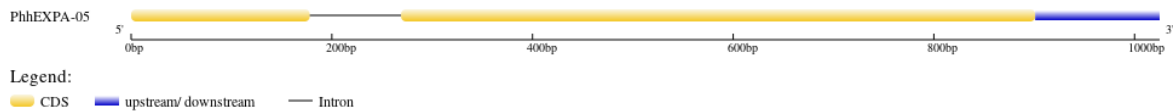
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PhalliiHAL\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PhalliiHAL_v2_1)

KEGG:-

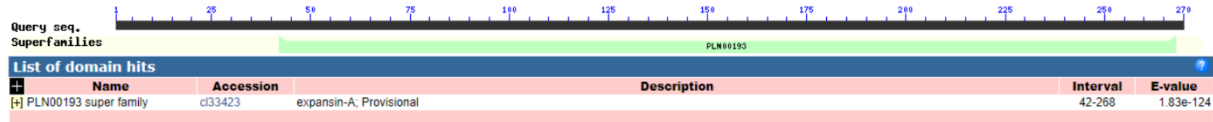
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhhEXPA-05

MTAVRAFAVALLALGWALAVAADNVTSSSSSPAPAPPPAVWQRGHATFYGGADA  
SGTMGGACGYGNLYSQGYGSRTAALSTVLFQDGASCQCQYKACDRKTDPTWCRPG  
VTVTVTATNFCPPNWELPDGGWCNTARPHFDMAQPAWEKIGADTRAGIIPVIYQRPV  
CARRGGVRFTHGHDYFNLVLTNVAAAGSIKSM DVRS SDSADWQPMARNWGAN  
WHSLAYLSGKRLSFRVTTTDGQTLFNTNVPPGWTFGLTFASNLQFK\*

### CDS (coding sequence)

>PhhEXPA-05

ATGACAGCAGTTAGAGCTTTCGCCGTCGCGCTGCTCGCACTCGGCTGGGCGCTGG  
CCGTGGCCGCGGACAACGTCACGACCAGCTCGTCGTCGTCTCCGGCGCCGGCGCC  
GCCTCCGGCAGTGTGGCAGCGGGGGCACGCGACGTTCTACGGGGGAGCAGATGC  
CTCCGGGACCATGGGCGGCGCGTGC GG GTACGGCAACCTGTACTCGCAGGGCTA  
CGGGTCGCGCACGGCGGCGTTGAGCACGGTGCTCTTCCAAGACGGTGCTTCCTGT  
GGGCAGTGCTACAAGATCGCGTGCGACCGCAAGACGGACCCGACGTGGTGCCGG  
CCCGGCGTGACGGTCACCGTCACTGCCACCAACTTCTGCCCGCCCAACTGGGAGC  
TCCCCGACGGCGGGTGGTGCAACACGGCGCGGCCCACTTCGACATGGCGCAGC  
CGGCGTGAGAGAAGATCGGCGCCGACACCCGCGCCGGCATCATCCCCGTCATCTA  
CCAGAGGGTCCCCTGCGCGAGGAGGGGCGGGGTGAGGTTACCATCAACGGGCA  
CGACTACTTCAACCTGGTGCTCGTGACCAACGTCGCCGCGGCTGGCTCCATCAAG  
TCCATGGACGTCAGGAGCTCCGACTCGGCCGACTGGCAGCCGATGGCGCGGAAC  
TGGGGCGCCAACTGGCACTCCCTGGCGTACCTCAGCGGGAAGAGGCTCTCGTTCA  
GGGTGACCACCACGGATGGCCAAACCCTCGAGTTCACGAACGTGGTGCCGCCTG  
GATGGACGTTCCGCCTCACATTCGCAAGCAACTTGCAGTTCAAATAA

### Nucleotide

>PhhEXPA-05

ATGACAGCAGTTAGAGCTTTCGCCGTCGCGCTGCTCGCACTCGGCTGGGCGCTGG  
CCGTGGCCGCGGACAACGTCACGACCAGCTCGTCGTCGTCTCCGGCGCCGGCGCC  
GCCTCCGGCAGTGTGGCAGCGGGGGCACGCGACGTTCTACGGGGGAGCAGATGC  
CTCCGGGACCATGGGTAAGTACCCGATTTTGCTTCATCTAGCTTTCGATTCTACAT  
TCATATATGTGTCGCTGATGATGACGTGCGTACGTGTAAATAACGGCAGGCGGCG

CGTGCGGGTACGGCAACCTGTACTCGCAGGGCTACGGGTCGCGCACGGCGGGCGTT  
GAGCACGGTGCTCTTCCAAGACGGTGCTTCCTGTGGGCAGTGCTACAAGATCGCG  
TGCACCGCAAGACGGACCCGACGTGGTGCCGGCCCGGCGTGACGGTCACCGTC  
ACTGCCACCAACTTCTGCCCCGCCAACTGGGAGCTCCCCGACGGCGGGTGGTGCA  
ACACGGCGCGGCCCCACTTCGACATGGCGCAGCCGGCGTGAGGAGAAGATCGGCG  
CCGACACCCGCGCCGGCATCATCCCCGTCATCTACCAGAGGGTCCCGTGCGCGAG  
GAGGGGCGGGGTGAGGTTCAACATCAACGGGCACGACTACTTCAACCTGGTGCTC  
GTGACCAACGTGCGCCGCGGCTGGCTCCATCAAGTCCATGGACGTCAGGAGCTCCG  
ACTCGGCCGACTGGCAGCCGATGGCGCGGAACTGGGGCGCCAACCTGGCACTCCC  
TGGCGTACCTCAGCGGGAAGAGGCTCTCGTTCAGGGTGACCACCACGGATGGCC  
AAACCCTCGAGTTCACGAACGTGGTGCCGCCTGGATGGACGTTCCGGCCTCACATT  
CGCAAGCAACTTGCAAGTCAAATAAGAACTTCGTTGGGATTTACCTGTTATTGAT  
GATCCGAGGGAATCAAATCCGTATACTGTGAAAAAAAAATGGTCTTAATAAGTT  
GTCATGTTGTACACTACTTGAGACGACACTGGTAGCAT