

## IDENTIFICATION

**Species:** *Panicum hallii* HAL

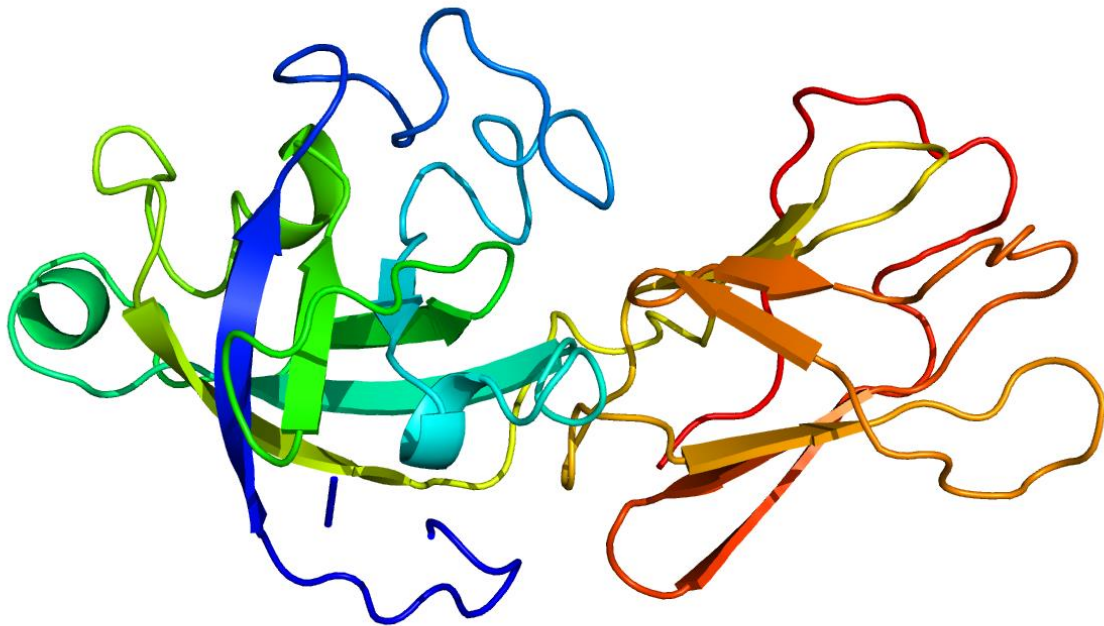
**Locus:** PhHAL.9G028900

**Gene Model:** PhHAL.9G028900.1.p

**Description:** PhhEXPA-20

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

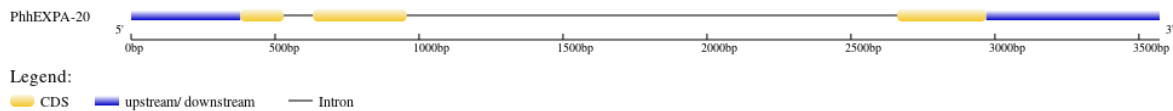
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PhalliiHAL\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PhalliiHAL_v2_1)

KEGG:-

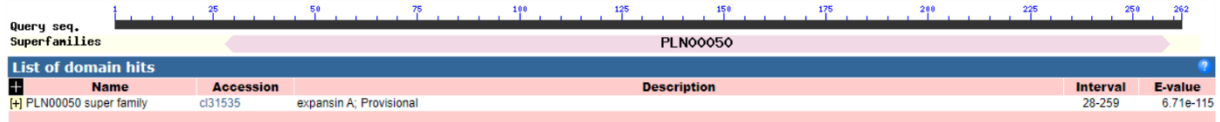
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhhEXPA-20

MAAMPAALVLLLVAALAAPAAARIPGVYGGGDWQSAHATFYGGSDASGTMGGAC  
GYGNLYSQGYGVNNAALSTALFNEGLSCGACFEIKCENQPGWRWCRAGPSILVTAT  
NFCPPNYALPSDNGGWCNPPRPHFDLAMPMFLHIAEYRAGIVPVS YRRVPCRKSGGV  
RFTINGFRYFNLVLITNVAGAGDIVRASVKSSSTGWLPMSRNWQNWQSNAILVGDA  
LSFRVTGSDRRTSTSWNVAPRNWQFGQTFEGKNFRV\*

### CDS (coding sequence)

>PhhEXPA-20

ATGGCGCAATGCCGGCGGCGCTGGTGTCTCCTGGTGGCCGCGCTGGCCGCCC  
CCGCCGCCGCCCGCATTCCCGGCGTGTACGGCGGCGGCGACTGGCAGAGCGCGC  
ACGCCACGTTCTACGGCGGCAGCGACGCCTCGGGCACCATGGGCGGCGCGTGC  
GGTACGGCAACCTGTACAGCCAGGGGTACGGCGTGAACAACGCGGCGCTGAGCA  
CGGCGCTGTTCAACGAGGGCCTGAGCTGCGGCGCCTGCTTCGAGATCAAGTGC  
GAACCAGCCCCGGGTGGCGGTGGTGCCGCGCCGGGAGCCCCCTCCATCCTGGT  
GACGGCCACCAACTTCTGCCCGCCAACTACGCGCTCCCCTCCGACAACGGCGGCT  
GGTGCAACCCGCCGCGCCCCCACTTCGACCTCGCCATGCCCATGTTCTCCACATCG  
CGAGTACCGCGCCGGCAGTCCCGTCTCCTACCGCCGGGTGCCGTGCCGGAAG  
TCCGGCGGCGTGCGGTTACCATCAACGGCTTCCGCTACTTCAACCTGGTGTCTAT  
CACCAACGTGGCCGGCGCCGGCGACATCGTGCGCGGAGCGTGAAGAGCTCCAG  
CACCGGGTGGCTGCCATGTCCCGGAAGTGGGGCCAGAACTGGCAGTCCAACGC  
AATCCTCGTCGGCGACGCGCTCTCCTTCCGCGTCACCGGCAGCGACCGCCGCACC  
TCCACCTCCTGGAACGTGCCCCGCGCAACTGGCAGTTCGGCCAGACCTTCGAGG  
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### Nucleotide

>PhhEXPA-20

GAGCACAGCGCCACTGCGTACTTGCACGTACCACGCCATCAGGCAGGCGGTTAC  
CTTCCCCGGCATCAGCTGCTAAACCCGGCAATCAATCGCGCGTTCTCCTCCGCGC  
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