

## IDENTIFICATION

**Species:** *Panicum hallii* HAL

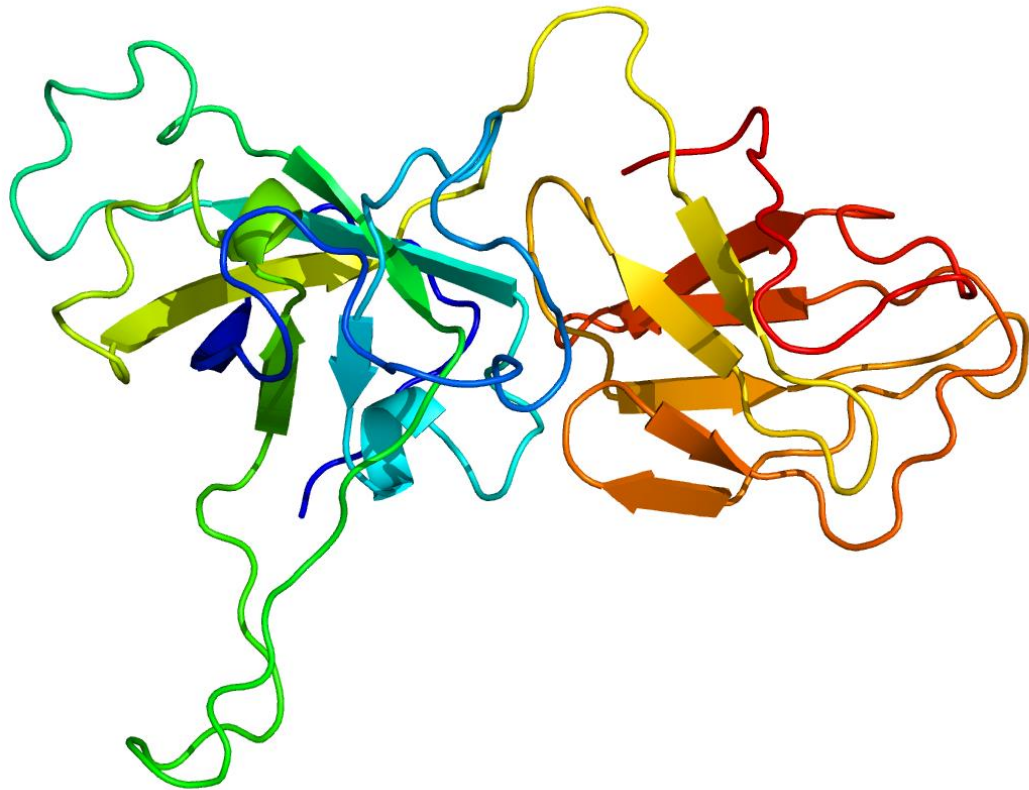
**Locus:** PhHAL.1G109300

**Gene Model:** PhHAL.1G109300.1.p

**Description:** PhhEXPA-03

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

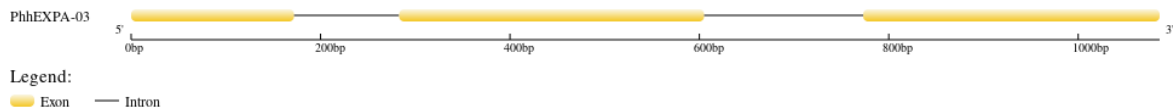
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PhaliiHAL\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PhaliiHAL_v2_1)

KEGG:-

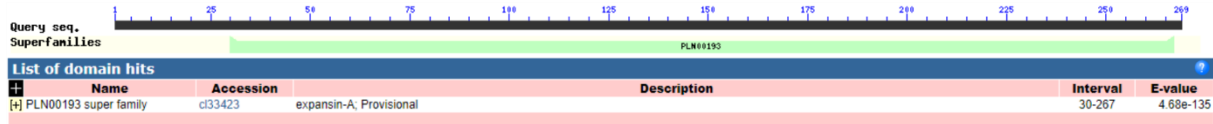
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhhEXPA-03

MAPALAPVLA AVLLALGWAVAVAADGVTTNASAPPTTGWLKAHATFYGGADAS  
DTMGGACGYGDLYLQYGT RTAALSTALFNDGASCGQCYEIA CDHETDPTWCKPG  
ATVTV AATNFCPPNYALPSDNGGWCNPPRPHFDMAQPAWERIGVYRAGIIPVMYRR  
VPCVRRGGVRFMINGHDYFNLVLVTNVAAAGSIKSMEVKAADSTDWTPMARNWGA  
NWHSMAYLTGKMLSFRVTNTDGQALEFANVVPQGWKFGQTFASKLQFS\*

### CDS (coding sequence)

>PhhEXPA-03

ATGGCTCCAGCTCTAGCTCCAGTCCTCGCGGCAGTGTTGCTCGCACTCGGCTGGG  
CGGTGGCCGTGGCCGCAGACGGCGTCACGACCAACGCGTCGGCTCCGGCGCCGA  
CGACCGGGTGGCTCAAGGCGCACGCCACATTCTACGGCGGTGCCGACGCCTCCGA  
CACCATGGGTGGCGCGTGCGGGTACGGGGACCTGTACTTGCAGGGGATACGGCAC  
GCGCACGGCGGCGCTGAGCACGGCGCTCTTCAACGACGGCGCGTTCGTGCGGCCA  
GTGCTACGAGATCGCGTGCGACCACGAGACCGACCCGACGTGGTGCAAGCCCGG  
CGCCACGGTCACCGTCGCGGCCACCAACTTCTGCCCGCCAACTACGCGCTGCC  
AGCGACAACGGCGGGCTGGTGCAACCCGCCGCGCCCCACTTCGACATGGCGCAG  
CCGGCGTGGGAGAGGATCGGCGTCTACCGTGCAGGCATCATCCCAGTCATGTACA  
GAAGAGTTCATGCGTGCGACGGGGCGGCGTAAGGTTCATGATCAACGGGCACG  
ACTACTTCAACCTTGTGCTCGTTACCAATGTTGCGGCCGCAGGCTCGATCAAATCC  
ATGGAAGTCAAGGCCCGCGATTTCGACTGATTGGACGCCGATGGCGCGCAACTGG  
GGCGCGAACTGGCACTCCATGGCCTATCTCACCGGCAAATGCTCTCGTTCAGGG  
TGACCAACACCGATGGACAAGCTCTTGAATTCGCAAACGTGGTGCCACAAGGAT  
GGAAGTTTGGCCAGACTTTCGCAAGCAAATTGCAGTTCAGCTGA

### Nucleotide

>PhhEXPA-03

ATGGCTCCAGCTCTAGCTCCAGTCCTCGCGGCAGTGTTGCTCGCACTCGGCTGGG  
CGGTGGCCGTGGCCGCAGACGGCGTCACGACCAACGCGTCGGCTCCGGCGCCGA  
CGACCGGGTGGCTCAAGGCGCACGCCACATTCTACGGCGGTGCCGACGCCTCCGA  
CACCATGGGTAAACACATACTCGCTTCATCACTAATCACGCACGCCAAGAAATG  
CCAGTGCACACGCACGGCAGCTACCGCGACGATGTGTATACGCTCTGTTTGC

GGCATGCAGGTGGCGCGTGCGGGTACGGGGACCTGTACTTGCAGGGATACGGCA  
CGCGCACGGCGGCGCTGAGCACGGCGCTCTTCAACGACGGCGCGTCGTGCGGCC  
AGTGCTACGAGATCGCGTGCGACCACGAGACCGACCCGACGTGGTGCAAGCCG  
GCGCCACGGTCACCGTCGCGGCCACCAACTTCTGCCCCGCCAACTACGCGCTGCC  
CAGCGACAACGGCGGCTGGTGCAACCCGCCGCGCCCCACTTCGACATGGCGCA  
GCCGGCGTGGGAGAGGATCGGCGTCTACCGTGCAGGCATCATCCCAGTCATGTAC  
AGAAGGTGTGTGCATAGTGACTTGTCTTTTTTTTTTTGAGAGAGAATATGTACTCAA  
TACTGAATTGTCTTTGCTACTCTCTTATGCAATAACTGTGAAAAAGGGAGAGAGA  
TCTCACTTGCATTGCAGTAGACGGACGGTAGTAGTCTTAAACAGAAAAATTCTCA  
CTTGACAGAGTTCCATGCGTGCGACGGGGCGGCGTAAGGTTTCATGATCAACGGGCA  
CGACTACTTCAACCTTGTGCTCGTTACCAATGTTGCGGCCGCAGGCTCGATCAA  
TCCATGGAAGTCAAGGCCGCCGATTCGACTGATTGGACGCCGATGGCGCGCAACT  
GGGGCGCGAACTGGCACTCCATGGCCTATCTCACCGGCAAAAATGCTCTCGTTCAG  
GGTGACCAACACCGATGGACAAGCTCTTGAATTCGCAAACGTGGTGCCACAAGG  
ATGGAAGTTTGGCCAGACTTTCGCAAGCAAATTGCAGTTCAGCTGA