

## IDENTIFICATION

**Species:** *Panicum hallii* HAL

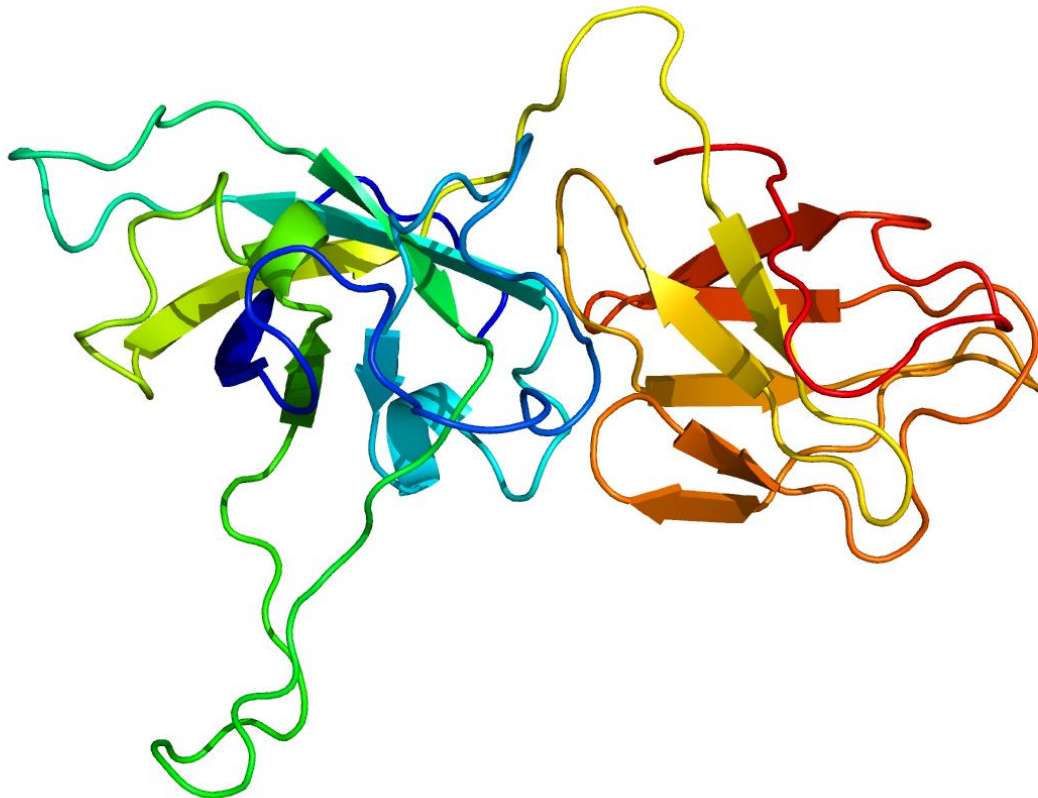
**Locus:** PhHAL.3G230500

**Gene Model:** PhHAL.3G230500.1.p

**Description:** PhhEXPA-08

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

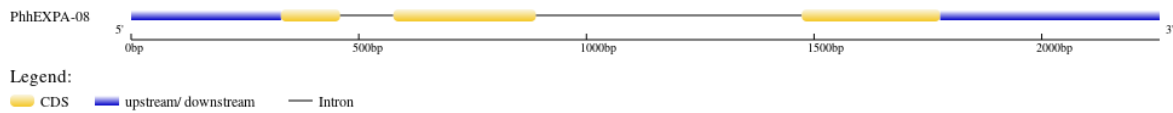
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PhalliiHAL\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PhalliiHAL_v2_1)

KEGG:-

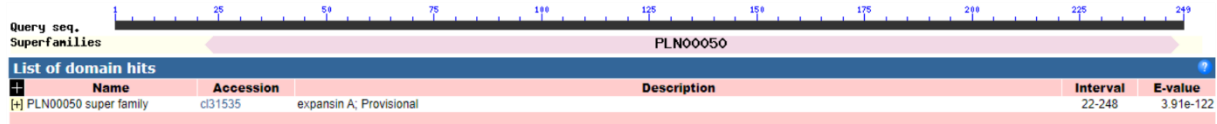
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhhEXPA-08

MAGAGALLLVLSLLAREAAAGGYGGWQSAHATFYGGGDASGTMGGACGYGNLYS  
SGYGTNTAALSTALFNDGAACGSCYELRCQNAGGSCLPGSITVTATNFCPPNYGLPS  
DDGGWCNPPRPHFDMAEPAFLHIAQYRAGIVPVAFRRVPCVKKGGIRFTINGHSYFN  
LVLVTNVAGAGDVRVSIRGTRTGWQPMSRNWQNWQSN AFLDQGALS FQVTASD  
GRTVTSNNAAPRGWQFGQTFEGAQF\*

### CDS (coding sequence)

>PhhEXPA-08

ATGGCCGGCGCCGGCGCCCTCCTCCTCGTCCTCAGCCTCCTCGCTCGGGAGGCCG  
CGGCCGGCGGCTACGGCGGGTGCCAGAGCGCGCACGCCACGTTCTACGGCGGCG  
GCGACGCGTCCGGCACAATGGGCGGCGCGTGCGGGTACGGCAACCTGTACAGCA  
GCGGGTACGGCACGAACACGGCGGCGCTGAGCACGGCTCTGTTCAACGACGGCG  
CGGCGTGCGGGTCTGCTACGAGCTGCGGTGCCAGAACGCGGGGGGTTTCGTGCCT  
GCCGGGCTCCATCACCGTGACGGCCACCAACTTCTGCCCGCCAACTACGGCCTC  
CCCAGCGACGACGGCGGCTGGTGCAACCCGCCGCGCCCGCACTTCGACATGGCC  
GAGCCGGCCTTCTCCACATCGCCAGTACCGCGCCGGCATCGTGCCCGTCGCCT  
TCAGGAGGGTGCCGTGCGTGAAGAAGGGCGGGATCCGTTTACCATCAACGGGC  
ACTCGTACTTCAACCTGGTGCTGGTGACCAACGTGGCGGGCGCCGGCGACGTGCG  
GTCCGTCTCCATCCGGGGCACCCGTACGGGGTGGCAGCCATGTCCCGGAACTGG  
GGCCAGAACTGGCAGAGCAACGCGTTCCTCGACGGCCAGGCGCTCTCCTTCCAGG  
TCACCGCCAGCGACGGCCGACCGTACCAGCAACAACGCGGGCGCCGCGCGGGT  
GGCAGTTCGGGCAGACCTTCGAGGGCGCCAGTTCTGA

### Nucleotide

>PhhEXPA-08

GCACGTCACTCCCTCCGGCCTCGGCTTTCCTCCTCGCTCTGCCTTTATGGCCGCCT  
TTCGTCGTCGCACCAGACCGCGAGGGAAATTACACGCGCGGCGCGCCCCGGTTT  
TTTTTTTCCCAACCGCCACCGGCGCATTGGCTTGGCTCGGGCTATAAATAGCTGGG  
CCGGGAGGGCCGAGCTTCTCACAGCCAGCGCCAGACAGCCAGACGTTCCACCC  
CAAGCAAGGTCGATAGCGGCTAGCTTTGGACGGTACCCTCCCGAGCTCGGAAGGT  
AGCTAGCTAGCTCGAAGCGGGCCGGGTCTCCTCGCTGCTGGTGGTAGTTAGCGAT

GGCCGGCGCCGGCGCCCTCCTCCTCGTCCTCAGCCTCCTCGCTCGGGAGGCCGCG  
GCCGGCGGCTACGGCGGGTGGCAGAGCGCGCACGCCACGTTCTACGGCGGCGGC  
GACGCGTCCGGCACAATGGGTGAGTAGTCGATCGACCAGAGCACCTTGTCATCTA  
GTTCTCGCCGCCGGCGGATTTCTCGGTAACCCAGACTCACACCGTATGCTCTGC  
ATGGACGTTTCGGCGCGGGCGGAACAGGCGGGCGCGTGCGGGTACGGCAACCTGTA  
CAGCAGCGGGTACGGCACGAACACGGCGGGCGCTGAGCACGGCTCTGTTCAACGA  
CGGCGCGGCGTGCGGGTCTGCTACGAGCTGCGGTGCCAGAACGCGGGGGGTTTC  
GTGCTGCCGGGCTCCATACCGTGACGGCCACCAACTTCTGCCCCGCCAACTAC  
GGCCTCCCCAGCGACGACGGCGGCTGGTGCAACCCGCCGCGCCCGCACTTCGACA  
TGGCCGAGCCGGCCTTCTCCACATCGCCCAGTACCGCGCCGGCATCGTGCCCGT  
CGCCTTCAGGAGGTACGCGCGGACCCGACCCGGCTAGCCTGGCCGCCCGCCGCA  
CATGCCGCGCAGGGCTCAGTTACTACTAGCACTCCACTCTCCACACCTGCCGTGC  
CGCGCTGCGCTGTTGGCACGGCTCGGTGTGGTCCCGCACGTCCGGCTGCGAGCGA  
GGCTCACGCGCCGCTCTGTCGTACCGCGTCCTTGGCTGGTTGGCCCGATCAGCCA  
AGCCAGCCCAAGCCCAACCAACCGCGCGTCGTCGGTTCGGACCTCGAAGGTCCGT  
GGGCCCCCGCGCCCGGTTCCGTCCATTAGTTCGGTGGGCCACCCTCCAGATTGCA  
TACGGGGCGTGGGGATAGGCAGGCTCCTGGGGCGACGCGCATGTGCCTTGCCCTTC  
AATGTTGTTGTTACCCCTAGCTAGTAGTACCTCCACCGCACTTCACTCTCACTCAC  
TCCTAGTGACATTTTGACACCACCGGCCAGGCCATCACGACCTGGTCGCCCCCTC  
GTAAAATCTTTTTTTCTTCACCTACCGCCACGTAAGTGAAGTACCGTTGCTTGAGA  
GAGCGAGACTGACCGATGAGCTGCCTCCCGACCGACCGATGCAGGGTGCCGTGC  
GTGAAGAAGGGCGGGATCCGTTTACCATCAACGGGCACTCGTACTTCAACCTGG  
TGCTGGTGACCAACGTGGCGGGCGCCGGCGACGTGCGGTCCGTCTCCATCCGGGG  
CACCCGTACGGGGTGGCAGCCCATGTCCCGAACTGGGGCCAGAAGTGGCAGAG  
CAACGCGTTCCTCGACGGCCAGGCGCTCTCCTTCCAGGTCACCGCCAGCGACGGC  
CGCACCGTCACCAGCAACAACGCGGGCGCCGCGCGGGTGGCAGTTCGGGCAGACC  
TTCGAGGGCGCCAGTTCTGATGCGGGGAGGCCTTCGATCTTCTTCTTCTCTCTG  
AAGGCCGCCGGCGCCGGCACCGCCGTCTTCTGATCTCCTCCGACCCGATCGTCTC  
CGCAGCAAGCACCGGGGGCGGACGACGGAGAGGGATATATATATTAATTATAAG  
CTATTGATCATTGGGTAATCCTCGATTTGTTTGGGTTTTTTTTTTTGGCGTTTTGCGC  
GTGATGATGGGAAAGACGAGGCCTTTCGACTATATTGAAGAAGAGAAGAGGGC  
CTCGCGCTATGCTGAGGCTGCTAATCTAGCACCCGCCTAGACGTTTCCTTCTCCGG  
ACTCTGGATCATATCGGAGTGAATGAATGAAACATTACTCTCCCTAGTACTGATA  
CTTGTACTTGAGCAAGGAATAATTGTAATTTATTTTGGGAAGAACCTTCGTATCATT  
GCCGTAATTGTACCCGATCGCACCGGCCCGCCCTTGCCTCGGAATTGATGGAA  
ACCGC