

## IDENTIFICATION

**Species:** *Panicum hallii* HAL

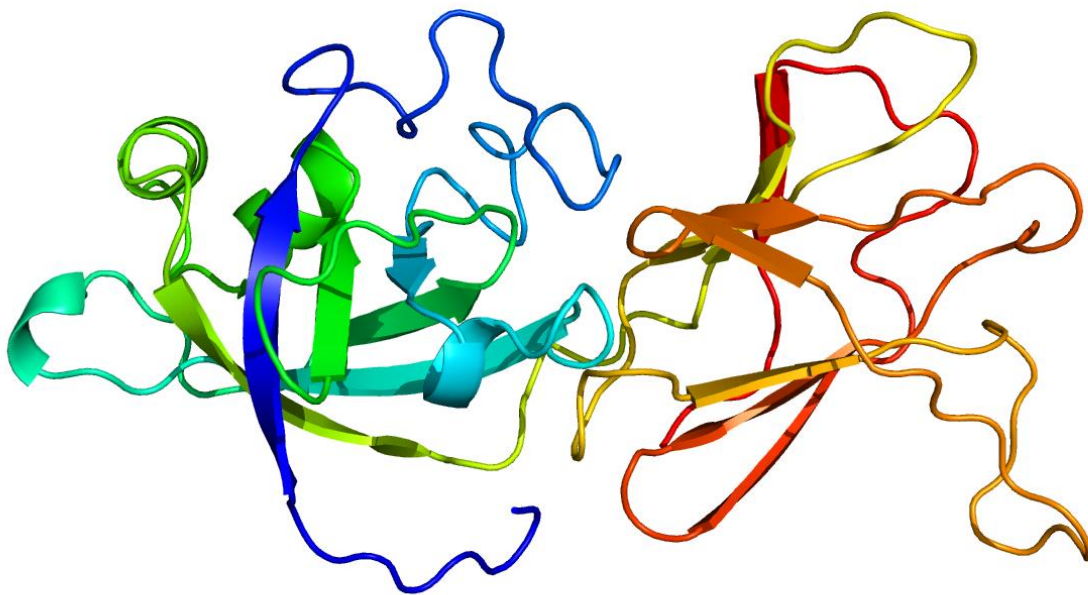
**Locus:** PhHAL.9G404500

**Gene Model:** PhHAL.9G404500.1.p

**Description:** PhhEXPB-23

**Family:** Beta Expansin

**3D structure:**



## GENOME DATABASES

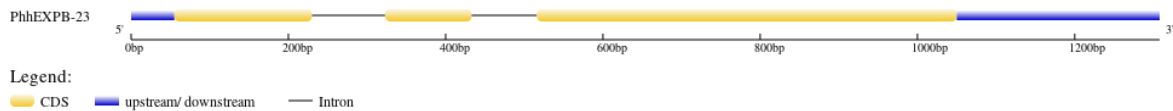
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PhalliiHAL\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PhalliiHAL_v2_1)

KEGG:-

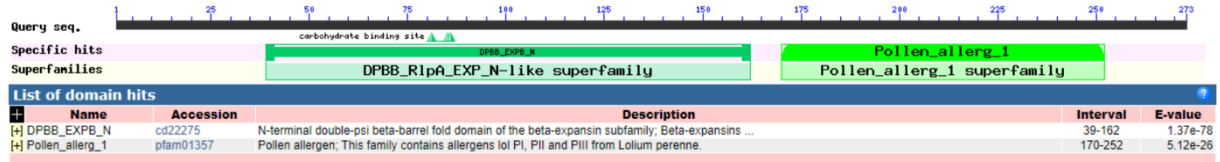
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PhhEXPB-23

MMPAAVIVSSSKVAAAALAFALFAVLASYAEAAPGGGWLPKATWYGAPNGAGP  
DDNGGACGFKHTNQYPYMSMTSCGNEPLFKDGGKGCACGYQIRCLNSTHDACSGRA  
KRVIITDMNYYPVSKYHFDLSGTAFGAMAKTGLNDKLRHAGILDIQFRRVPCNYKGL  
TVNFRVQVGSNPNYFAVLVQYAGKDGAVVQVDLMETDGATGRPTGAWTPMRVSW  
GAVWRLDTSRPLRAPFSLRIRSDSGKTLVADNVIPADWKPMTDYPSSVQFP\*

### CDS (coding sequence)

>PhhEXPB-23

ATGATGCCAGCCGCCGTGATCGTCTCCTCATCCAAGGTGGCTGCTGCGGCACTCG  
CCTTCGCGCTGTTCCGCCGTGCTTGCCTCGTACGCCGAGGCCGCGAAGCCCGGCGG  
CGGCTGGCTCCCCGCCAAGGCCACCTGGTACGGCGCGCCCAACGGCGCCGGCCCC  
GACGACAACGGCGGCGCGTGCGGGTTCAAGCACACCAACCAGTACCCCTACATG  
TCCATGACGTCGTGCGGGAACGAGCCCCTGTTCAAGGACGGCAAGGGCTGCGGC  
GCGTGCTACCAGATACGGTGCCTGAACAGCACCCACGACGCGTGCTCCGGCCGG  
GCGAAGCGCGTGATCATCACGGACATGAACTACTACCCGGTGTCCAAGTACCACT  
TCGACCTCAGCGGCACGGCGTTCGGCGCCATGGCCAAGACGGGGCTCAACGACA  
AGCTCCGGCACGCCGGCATCCTGGACATCCAGTTCGGCGGGTGCCCTGCAACTA  
CAAGGGCCTGACCGTCAACTTCCGCGTCCAGGTGGGGTCCAACCCCACTACTTC  
GCCGTGCTGGTGCAGTACGCCGGCAAGGACGGCGCCGTGGTGCAGGTTCGACCTC  
ATGGAGACCGACGGCGCCACGGGGCGGCCGACGGGGGCGTGGACGCCGATGCGC  
GTGTGCTGGGGCGCCGTGTGGCGGCTGGACACCAGCCGCCCGCTGCGGGCGCCCT  
TCTCGCTGCGCATCCGCAGCGACTCCGGCAAGACGCTGGTGGCCGACAACGTCAT  
CCCGGCGGACTGGAAGCCCATGACCGACTACCCATCCTCCGTCCAGTTCCTCTGA

### Nucleotide

>PhhEXPB-23

AGGCACAACATACGAGCACTACTAATCCCTGAGCTGGTAATACGATCGAGCTGA  
GATGATGCCAGCCGCCGTGATCGTCTCCTCATCCAAGGTGGCTGCTGCGGCACTC  
GCCTTCGCGCTGTTCCGCCGTGCTTGCCCTCGTACGCCGAGGCCGCGAAGCCCGGCG

GCGGCTGGCTCCCCGCCAAGGCCACCTGGTACGGCGCGCCCAACGGCGCCGGCC  
CCGACGACAACGGTATGCACGAGCAAAGCGTGCCCGGCCGCGCACCTGTCGTTTT  
TCCGCCGTCCCAATGTCAATGTGCGAGTGTCTGACGTGTCCTGTTTGCAGGCGGC  
GCGTGCGGGTTCAAGCACACCAACCAGTACCCCTACATGTCCATGACGTCGTGCG  
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GCTCCGGCCGGGCGAAGCGCGTGATCATCACGGACATGAACTACTACCCGGTGTC  
CAAGTACCACTTCGACCTCAGCGGCACGGCGTTCGGCGCCATGGCCAAGACGGG  
GCTCAACGACAAGCTCCGGCACGCCGGCATCCTGGACATCCAGTTCGGCGGGTG  
CCCTGCAACTACAAGGGCCTGACCGTCAACTTCCGCGTCCAGGTGGGGTCCAACC  
CCAACTACTTCGCCGTGCTGGTGCAGTACGCCGGCAAGGACGGCGCCGTGGTGCA  
GGTCGACCTCATGGAGACCGACGGCGCCACGGGGCGGCCGACGGGGGCGTGAC  
GCCGATGCGCGTGTTCGTGGGGCGCCGTGTGGCGGCTGGACACCAGCCGCCCGCTG  
CGGGCGCCCTTCTCGCTGCGCATCCGCAGCGACTCCGGCAAGACGCTGGTGGCCG  
ACAACGTCATCCCGGCGGACTGGAAGCCCATGACCGACTACCCATCCTCCGTCCA  
GTTCCCCTGAAACCGCAGCCGCATGGTGC AAGCGAATTAATCGTCCCTGATTGAA  
GCATTGTTGCTCGTCAGATACCCCGATCCATTGTTTAGTGTTGTCATCGTATAGTA  
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CAACTTTGAAATATACCATGCTGTGTGTGTGTAATGTAATAGACATACCATATAC  
TACTGTACGTGTCAAGTTGGCAAACGCGCGTGCACACATGATGATCC