

IDENTIFICATION

Species: *Panicum hallii*

Locus: Pahal.4G354900

Gene Model: Pahal.4G354900.1.p

Description: PhEXPA-13

Family: Alpha Expansin

3D structure:



GENOME DATABASES

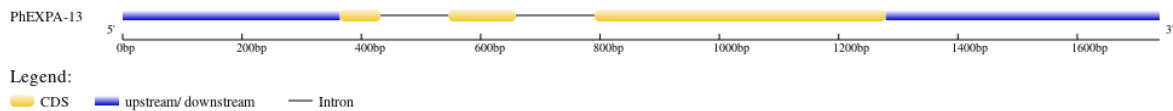
Phytozome: https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1

KEGG: <https://www.genome.jp/entry/T07366>

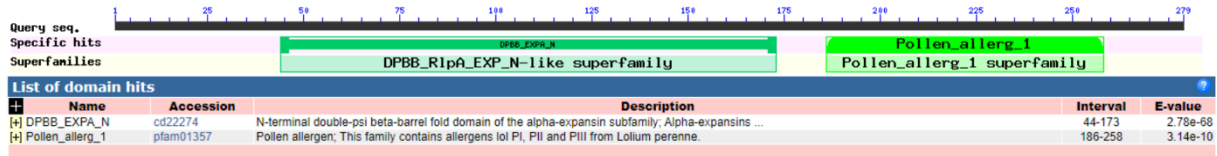
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhEXPA-13

MARTSWSSAMVVAAALVMAAAAAQAQVASAYYYQQQPFRASDWQDGSATFY
 GDDSLGADFGGACGFGASDILSLYSTYTAALSTPLFSQGNCGCQCYELRCVNSRWC
 NPGSPSVTVTGTNLCPPNWYLPDNDGGWCNPPRQHFDMAPPSFYRLAQRVAGIIPVQ
 FRRVPCRRPGGVRLCLQGNYYWLLVYVMNVAGGGDVSDLAVKRAGDPDCNYAHA
 SHNWGVITYQVFGALRNARGLVVKMTSYSSPQQTIVVDDAIPAGWSTGLCYQGSNNF
 Y*

CDS (coding sequence)

>PhEXPA-13

ATGGCGAGAACTAGTTGGTCGTCGGCGATGGTCGTGGCTGCTGCATTGGTCATGG
 CAGCCGCTGCGGCACAAGCACAAGTGGCGAGCGCGTACTATTACCAGCAGCAGC
 AGCCCGCCTTCAGGGCGTTCGGACTGGCAGGACGGCAGCGCCACCTTCTACGGCG
 ACGACTCCGGCCTGGGCGCGGACTTCGGCGGCGCGTGCAGGCTTCGGCGCCAGCG
 ACATCCTGTCCCTCTACTCCACGTACACGGCGGCGCTGAGCACGCCGCTCTTCTCG
 CAGGGCAACGGGTGCGGGCAGTGCTACGAGCTCCGCTGCGTCAACTCCCGGTGGT
 GCAACCCCGGCTCGCCGTCGGTCACCGTCACCGGCACCAACCTCTGCCCCGCCAA
 CTGGTACCTCCCCAGCGACAACGGCGGCTGGTGAACCCGCCGCGGCAGCACTTC
 GACATGGCGCCGCCCTCCTTCTACCGCCTCGCGCAGCGGGTCGCGGGAATCATCC
 CCGTCCAGTTCCGCCGCGTCCCGTGCCGGAGGCCCGGTGGGGTCAGGCTCTGCCT
 GCAGGGGAATACTACTGGCTGCTCGTCTACGTCATGAACGTCGCCGGCGGGCGGC
 GACGTCAGCGACCTGGCCGTCAAGCGCGCCGGGACCCCGACTGCAACTACGCG
 CACGCCAGCCACAACCTGGGGGGTACGTACCAGGTCTTCGGCGCGCTGAGGAAC
 GCGCGGGGGCTCGTCGTCAAGATGACCAGCTACAGCTCGCCGCAGCAGACCATC
 GTCGTGACGACGCCATACCCGCAGGATGGAGCACAGGACTCTGCTACCAGGGA
 TCAAACAACCTTCTATTGA

Nucleotide

>PhEXPA-13

CAATCGAGCTAGCTGAGCATATCCTATCCAGTTAGCTAGCTCACGCATAGCCTCT
 GAACTCCGAGTGGTAAGCTTGAAGGACAAGAAGCAGCAGCAGCAATGGCGAAG

CTTTGCTCAGTGCTGGTGACCGCAGTGGTCGTGCTCTCGCTTCTGACGAGCCCCAT
TGATTGCACCCGCAAGCTCAGCAAGCCCAGGACAAAGCCCAAGCCCAAGCCGGT
CAGCCACAGGCCGGCACCGGCAGCCAAGGTCAGCCACAAGCCGGCGGCCTGC
CGTCAAGGTCAGCCGCAAGCCGGCGCCTGCGGCCAAGGCCACCGCAACTACAC
CGCCACCCCTCCTCGCCGTCCACCGTGTATGGCTCCGGCGGCTGGCTGTCCGGC
GCCGGGGCCACGTACTACGGCGCCCCAACGGCGACGGCGGCGAAGGTCAGTAG
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CGCCGCCGGGAGTACGCCGCTGTACAGGGGCGGCGAGGGCTGCGGCGCCTGCTA
TGAGGTCAGCAACTCGTATGCTCGTGTAAATGGTGGTCTGGCACACGGCCTGCCA
CTGAACTGTCGTAGCTCAATTATTGCAAAGCTGTCGGCTGGTTCGCTCCACTCGTCT
CAAAAACACTACGGTAAAAATGTGCAGGTCAAATGCACGACCAACGCGGCCTGCTC
CGGCCACCCGGTGACCATCGTGATCACCGACCAGTCCCCCGGCGGGCTGTTCCCC
GGCGAGGTCGCCCACTTCGACATGAGCGGCACGGCGCTGGGCGCCATGGCGAAG
CCCGGCATGGCCGACAAGCTCCGCGCCGGCGGGCGTCTGAGGATCCAGTACAGG
CGGGTGCAGTGCAAGTACCCCGGCGTGAACGTCGCCTTCAAGGTGGACCAGGGC
GCCAACCCGTTCTACTTCGACGTGCTGGTTCGAGTTCGAGGACGACGACGGCGACC
TCAGCGCCGTGGAGCTCATGGAGGCCGGCAGCCGGGCCTGGACGCCCATGGCGC
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CCCCGCCGGGTGGAAGCCCGGGACGACCTACCGGTGCTGGTCAACTACCCCTGA
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