

IDENTIFICATION

Species: *Panicum hallii* HAL

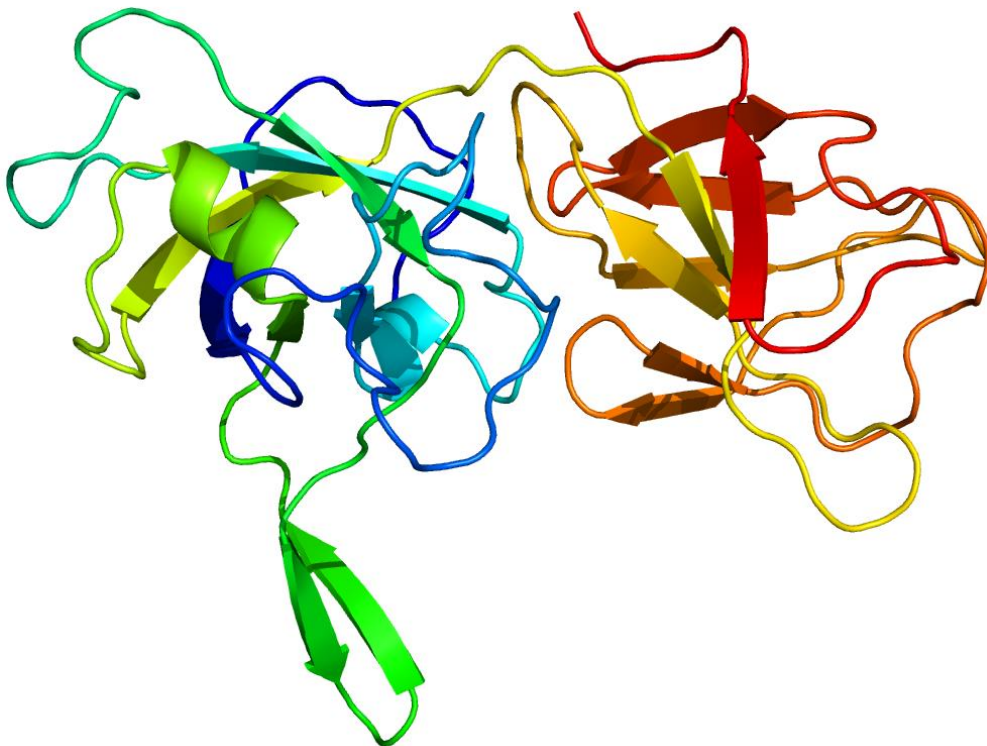
Locus: PhHAL.5G438500

Gene Model: PhHAL.5G438500.1.p

Description: PhhEXPA-16

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/PhalliiHAL_v2_1

KEGG:-

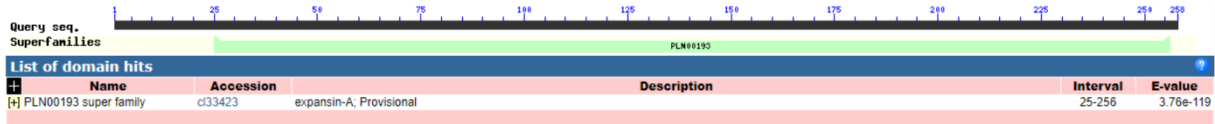
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhhEXPA-16

MAKMLALLMMTPCAFFFFFLGGPSVAAAQWTPAFATFYGGSDASGTMGGACGYG
 NLYNAGYGTRTTALSTALFNNGAMCGACFTIACDARRSRYCKPGASITVTATNLCPP
 NWALAGDRGGWCNPPRRHFDMSQPAWESIAVYRAGIVPVNYRRVPCRRAGGVRF
 VGGRSYFELVTVANVGGSGVVAQAWIRGARTDWMAMTRNWGANWQSNAYLNGQ
 SLSFRLRSDDGRIVTANNVAPPGWWFGGTYTSNAQFY*

CDS (coding sequence)

>PhhEXPA-16

ATGGCGAAGATGCTCGCGCTCCTGATGATGACCCCGTGCGCCTTCTTCTTCTTCTT
 CTTCCTCGGAGGGCCGTCGGTGCGGGCTCAATGGACACCCGCCTTCGCCACC
 TTCTACGGCGGCAGCGATGCCTCCGGCACCATGGGCGGCGCGTGCGGGTACGGC
 AACCTTTACAACGCGGGGTACGGGACGCGGACGACGGCGCTGAGCACGGCGCTC
 TTCAACAACGGCGCCATGTGCGGGCGCTTCAACATCGCCTGCGACGCCCGGC
 GGTCGCGCTACTGCAAGCCGGGCGCCTCCATCACCGTCACGGCCACCAATCTCTG
 CCCGCCAACTGGGCGCTGGCCGGCGACCGCGGCGGCTGGTGCAACCCTCCGCGC
 CGGCACTTCGACATGTCGCAGCCGGCGTGGGAGTCCATCGCCGTCTACCGCGCCG
 GGATCGTTCCGGTGAACCTACCGCCGCGTGCCGTGCCGGCGCGCCGGCGGCGTCCG
 GTTCACCGTCGGCGGGAGAAGCTACTTCGAGCTGGTGACGGTGGCGAACGTGGG
 CGGCAGCGGCGTGGTGGCGCAGGCCTGGATCAGGGGCGCCCGGACGGACTGGAT
 GGCCATGACCCGGAACCTGGGGCGCCAACTGGCAGAGCAACGCCTACCTCAACGG
 GCAGAGCCTCTCGTTCGCGCTCCGGTCCGACGACGGCCGCATCGTCACGGCCAAC
 AACGTCGCCCCCGGGGTGGTGGTTCGGCGGCACCTACACGTCCAATGCCCAGT
 TCTACTGA

Nucleotide

>PhhEXPA-16

GTACTCGCCTGACCGCCGGATTGATCGAGCAGTTGATTGGTGCTGGCAAGTGTC
 GGGGCAACGTACTACTATATACGGCTCCTTGGTGACGATTCCCTCGGCACCAACA
 CACCCGGTTCGTACGGCACCGAGCACTGGCAGCTAGCTGACATGGCGAAGATGCT
 CGCGCTCCTGATGATGACCCCGTGCGCCTTCTTCTTCTTCTTCTTCTTCTTCTT
 CCGGAGGGC
 CGTCGGTGGCGGCGGCTCAATGGACACCCGCCTTCGCCACCTTCTACGGCGGCGAG

CGATGCCTCCGGCACCATGGGTAAGCAAGCATCATATCCTGCTGCTCTTGCCATG
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CTGATCCTCCGATCGATCACCAGGCGGCGGTGCGGGTACGGCAACCTTTACAAC
GCGGGGTACGGGACGCGGACGACGGCGCTGAGCACGGCGCTCTTCAACAACGGC
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GCAAGCCGGGCGCCTCCATCACCGTCACGGCCACCAATCTCTGCCC GCCAACTG
GGCGCTGGCCGGCGACCGCGGCGGCTGGTGCAACCCTCCGCGCCGGCACTTCGAC
ATGTCGCAGCCGGCGTGGGAGTCCATCGCCGTCTACCGCGCCGGGATCGTTCCGG
TGA ACTACCGCCGCGTGCCGTGCCGGCGCGCCGGCGGCGTCCGGTTCACCGTCGG
CGGGAGAAGCTACTTCGAGCTGGTGACGGTGGCGAACGTGGGCGGCAGCGGCGT
GGTGGCGCAGGCCTGGATCAGGGGCGCCCGGACGGACTGGATGGCCATGACCCG
GAACTGGGGCGCCA ACTGGCAGAGCAACGCCTACCTCAACGGGCAGAGCCTCTC
GTTCCGCCTCCGGTCCGACGACGGCCGCATCGTCACGGCCAACAACGTCGCCCCC
CCGGGGTGGTGGTTCGGCGGCACCTACACGTCCAATGCCAGTTCTACTGACGAC
GCCC GATTCTATCTATTCTTGTGATTTTCTTGCATGTCTCTTTTTTTCTTCTTCT
TTTTCTTGGCTCTTTATTTGTTCTTGTCGTAAAAATGTGCAGTATATTTATGCATT
ATTATTGC