

IDENTIFICATION

Species: *Panicum hallii* HAL

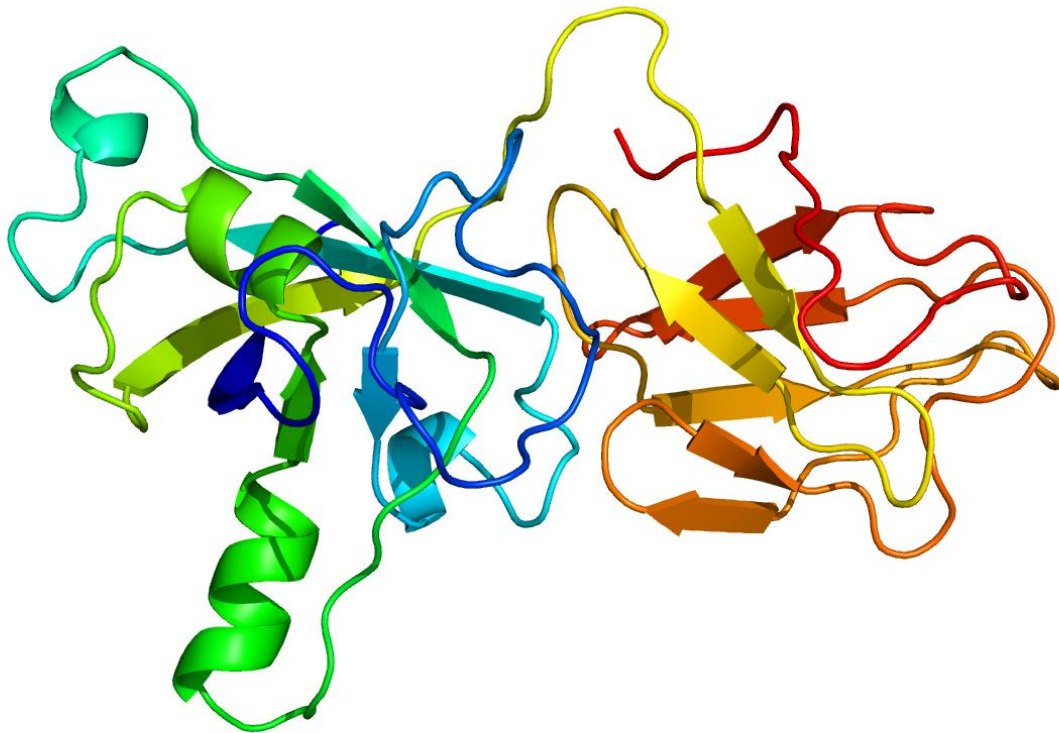
Locus: PhHAL.5G438200

Gene Model: PhHAL.5G438200.1.p

Description: PhhEXPA-15

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

KEGG:-

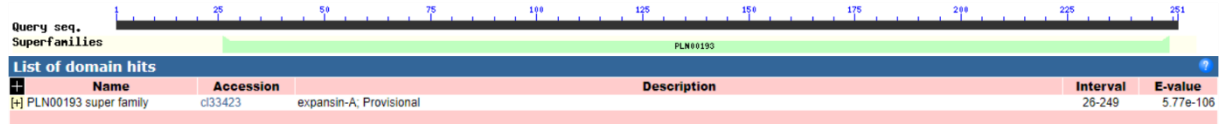
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhhEXPA-15

MEKAILLLLLSLCAARLDGAVAQQYWTPATATFYGGSDASGTMGGSCGYGNLYSA
GYGTQTTALSTALYGDGASCGACFLVTC DASRTQYCKPGSPSVTVTATNFCPPNYGD
PSGWCNSPRQHFDMSQPAWETIGVYQAGVVPVNYRRVPCQRSGGVRFGLSGHDYFE
LVLITNVGGAGAVAAA WIKGSSTDWLPMSRNWGANWQSSAYVTGQSLSFKVQTDD
GRSVVAYDVAPANWQFGCTYQASANFY*

CDS (coding sequence)

>PhhEXPA-15

ATGGAGAAGGCGATCCTGCTCTTGCTGCTGAGCCTGTGCGCCGCCGGCTCGACG
GCGCCGTGGCGCAGCAGTACTGGACGCCGGCCACCGCGACGTTCTACGGCGGGA
GCGACGCGTCCGGCACCATGGGCGGGTCGTGCGGGTACGGCAACCTGTACAGCG
CCGGGTACGGGACGCAGACGACGGCGCTGAGCACGGCGCTCTACGGCGACGGCG
CCTCCTGCGGCGCGTGCTTCTGGTCACCTGCGACGCGTCGCGGACGCAGTACTG
CAAGCCGGGTTCGCCGTCGGTGACCGTGACGGCGACCAACTTCTGCCCGCCCAAC
TACGGCGACCCAGCGGGTGGTGCAACTCGCCGCGGCAGCACTTCGACATGTCGC
AGCCGGCGTGAGACCATCGGCGTGTACCAGGCCGGCGTGGTCCCCGTGAACT
ACCGGCGGGTGCCGTGCCAGCGGTCCGGCGGGGTCAGGTTCCGGCCTCAGCGGGC
ACGACTACTTCGAGCTCGTGCTGATACCAACGTCGCGCGGCGCCGGCGCGGTGGC
CGCGGCGTGATCAAGGGCTCCTCCACGGACTGGCTGCCGATGAGCCGCAACTG
GGGGGCGAACTGGCAGAGCAGCGCCTACGTCACCGGGCAGAGCCTGTCGTTCAA
GGTGCAGACGGACGACGGCAGGTCCGTCGTGGCGTACGACGTGGCGCCGGCGAA
CTGGCAGTTCGGCTGCACCTACCAGGCCTCGGCCAACTTCTACTAG

Nucleotide

>PhhEXPA-15

ATTTGCAAGTGATCAGTGATCTTGCCAGGCAGGCGGTGTCTTCTGAGGGACGAT
GGAGAAGGCGATCCTGCTCTTGCTGCTGAGCCTGTGCGCCGCCGGCTCGACGGC
GCCGTGGCGCAGCAGTACTGGACGCCGGCCACCGCGACGTTCTACGGCGGGAGC
GACGCGTCCGGCACCATGGGTGACGTTCTACTGCAACCATTTTCGTTTTGAATTGA
AGAACTCTGACCCACGCGTTCGTGGCATTGACGTGCGCGTCCCTCGTTGCGCAGG
CGGGTTCGTGCGGGTACGGCAACCTGTACAGCGCCGGGTACGGGACGCAGACGAC

GGCGCTGAGCACGGCGCTCTACGGCGACGGCGCCTCCTGCGGGCGCGTGCTTCCTG
GTCACCTGCGACGCGTCGCGGACGCAGTACTGCAAGCCGGGTTTCGCCGTCGGTGA
CCGTGACGGCGACCAACTTCTGCCCGCCAACTACGGCGACCCAGCGGGTGGTG
CAACTCGCCGCGGCAGCACTTCGACATGTCGCAGCCGGCGTGCGGAGACCATCGG
CGTGTACCAGGCCGGCGTGGTCCCCGTGAACTACCGGGCGGGTGCCGTGCCAGCGG
TCCGGCGGGGTCAGGTTTCGGCCTCAGCGGGCACGACTACTTCGAGCTCGTGCTGA
TCACCAACGTCGGCGGGCGCCGGCGCGGTGGCCGCGGCGTGATCAAGGGCTCCT
CCACGGACTGGCTGCCGATGAGCCGCAACTGGGGGGCGAACTGGCAGAGCAGCG
CCTACGTCACCGGGCAGAGCCTGTCGTTCAAGGTGCAGACGGACGACGGCAGGT
CCGTGTCGGCGTACGACGTGGCGCCGGCGAACTGGCAGTTCGGCTGCACCTACCA
GGCCTCGGCCAACTTCTACTAGAGAGTGATGAGATGAATAGGTGCCGCACATGCT
ATTTGTGAATTAGTTGGACCGGATCCATGATTGCTAAGGAGGCTTGAAAGCCTCG
ACTCAATGGGCCGTGTTAAGAAAATCAGCCCATGAGTTGGGGTTTGGAGAGAAA
ATCCTTAAAAATAGTGCATATATGATCTTTGCAAAAAGATAAATTAGAAACCGCAT
CCTCTTAATAAGCGCACTTTGAAATATTTTTAAGTGTGCATTTAACAAAATTTAGT
TTCC