

IDENTIFICATION

Species: *Panicum hallii* HAL

Locus: PhHAL.9G609600

Gene Model: PhHAL.9G609600.1.p

Description: PhhEXPA-33

Family: Alpha Expansin

3D structure:



GENOME DATABASES

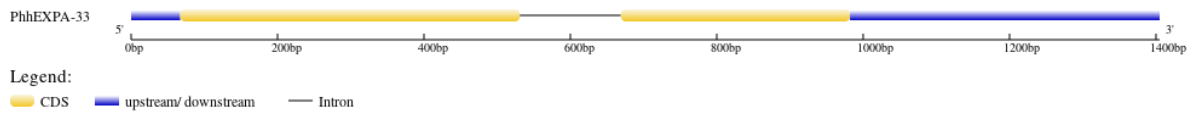
Phytozome: https://phytozome-next.jgi.doe.gov/info/PhalliiHAL_v2_1

KEGG:-

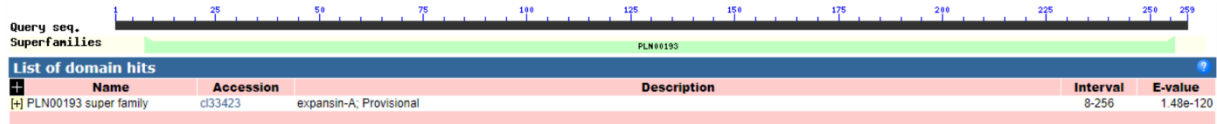
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhhEXPA-33

MHRRPPSFLFLVVAASRLVPAAAGDDGGWSKGTATFYGGGDASGTMGGACGYG
SLYWSGYGTDTAALSSPLFDDGASCGQCFKVTCDAGASQWCLKGKSVTVTATNLCP
PNYAVSGDEGGWCNPPRRHFDMAQPAWLQIAQYKGGIVPVLYQRTPCVKQGGVRF
TMAGSNYFVLVLITNVAGTGSVKAVVWVKGSSDRMPMSRNWGANWQSLAGLAGQ
ALTFGVTNTGGKTIVIPDVVPAWWKFGQSFTSGVQFSD*

CDS (coding sequence)

>PhhEXPA-33

ATGCACAGACGACCACCGAGCTTTCTTCTGTTTCCTCGTCGTCGCCGCGGCGTTCG
GGTTGGTGCCGGCGGCGGCGGGGACGACGGCGGCTGGTTCGAAGGGCACGGCCA
CGTTCTACGGCGGCGGCGACGCCTCCGGCACGATGGGTGGCGCGTGCGGGTACG
GGAGCCTGTACTGGTCCGGGTACGGGACGGACACGGCGGCGCTGAGCTCGCCGC
TGTTTCGACGACGGCGCGTTCGTGCGGGCAGTGCTTCAAGGTCACGTGCGACGCCGG
CGCGTCCCAGTGGTGCCTCAAGGGCAAGTCGGTGACCGTGACCGCCACCAATCTG
TGCCCGCCCAACTACGCCGTCTCCGGCGACGAGGGCGGCTGGTGCAACCCGCCCC
GCCGCCACTTCGACATGGCCCAGCCCGCCTGGCTCCAGATCGCCCAGTACAAGGG
CGGCATCGTGCCGGTGTCTACCAGAGGACGCCGTGCGTGAAGCAGGGAGGGGT
GCGGTTACCATGGCCGGGTCCA ACTACTTTCGTGCTGGTGTGCTCATCACAACGTG
GCCGGGACCGGGTTCGGTGAAGGCGGTGTGGGTGAAGGGGAGCAGCACGGACAG
GATGCCCATGAGCAGGA ACTGGGGCGCCA ACTGGCAGTCGCTCGCGGGGCTCGC
CGGCCAGGCGCTCACCTTCGGGGTACGAACACCGGCGGCAAGACCATCGTCATC
CCCGACGTTCGTGCCGGCATGGTGAAGTTCGGACAGTCTTTCACCTCCGGCGTCC
AGTTCTCCGACTGA

Nucleotide

>PhhEXPA-33

TAACAGCCAGTACCGCTCATCGTTCTCTGTAGCTAGCTACTCCACTACTTGCGGAA
AGTCTACGAAGATGCACAGACGACCACCGAGCTTTCTTCTGTTTCCTCGTCGTCGC
CGCGGCGTTCGCGGTTGGTGCCGGCGGCGGCGGGGACGACGGCGGCTGGTCGAA
GGGCACGGCCACGTTCTACGGCGGCGGCGACGCCTCCGGCACGATGGGTGGCGC
GTGCGGGTACGGGAGCCTGTACTGGTCCGGGTACGGGACGGACACGGCGGCGCT

GAGCTCGCCGCTGTTTCGACGACGGCGCGTCGTGCGGGCAGTGCTTCAAGGTCACG
TGCGACGCCGGCGCGTCCCAGTGGTGCCCTCAAGGGCAAGTCGGTGACCGTGACC
GCCACCAATCTGTGCCCGCCAACTACGCCGTCTCCGGCGACGAGGGCGGCTGGT
GCAACCCGCCCGCCGCCACTTCGACATGGCCCAGCCCGCCTGGCTCCAGATCGC
CCAGTACAAGGGCGGCATCGTGCCGGTGCTCTACCAGAGGTCGGTACTCGAGTTT
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AATTAAGCCAATTAGATCGTGGTTAAAAAAAATTAATCTCGTGGTGCGTTGATGT
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GGGTCCAACACTTTCGTGCTGGTGCTCATCACCAACGTGGCCGGGACCGGGTCCG
TGAAGGCGGTGTGGGTGAAGGGGAGCAGCACGGACAGGATGCCCATGAGCAGG
AACTGGGGCGCCAACACTGGCAGTCGCTCGCGGGGCTCGCCGGCCAGGCGCTCACCT
TCGGGGTCACGAACACCGGCGGCAAGACCATCGTCATCCCCGACGTCGTGCCGGC
ATGGTGGAAGTTCGGACAGTCTTTCACCTCCGGCGTCCAGTTCTCCGACTGATCG
ATCAGTCGACGACCAAACCGTCCGAGTTTCGAACGGCGCGCGGCTCCAACATCGT
CCGTCGGACCAGATGCCGATCTAGCTAGGCTTTCTGAGATTTCTGGTTGAAGAAG
CACATGCCATCTTAATTACAGAGATTAATAATTGGACAGGGCCATATGGAGTACT
GGGTGTATGAGCTGTGATATGTATAGCTATAGCCTGCTAGGCCATGCCGTTGAGG
ATCCATTATATTCATGATTCATGGCAGGTGTCGACTGAAAAGAGTGTAGTCTGGA
CTCTGGAGTAGTTGAGTTCTTTGCTGGAGACGGTGCCCGTATCAGTAGCTTTTCTT
CTTCTGTACATTGTTAATATTGCAGTCTTGTTGTGGTACTACTGTTCTGCTGTCCAC
ACTGGACAGTGCAAATAACCCATTATGACCT