

IDENTIFICATION

Species: *Panicum hallii*

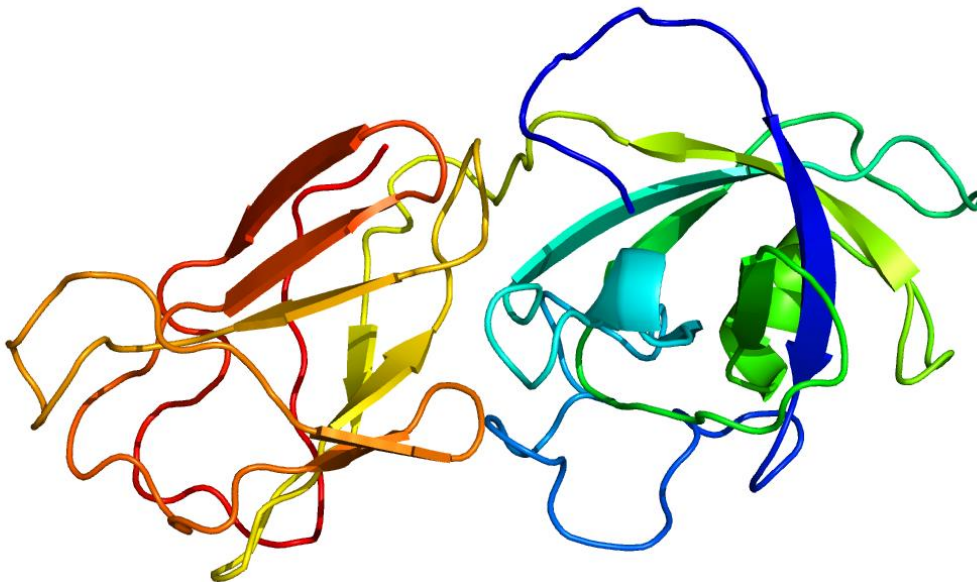
Locus: Pahal.9G449000

Gene Model: Pahal.9G449000.1.p

Description: PhEXPA-31

Family: Alpha Expansin

3D structure:



GENOME DATABASES

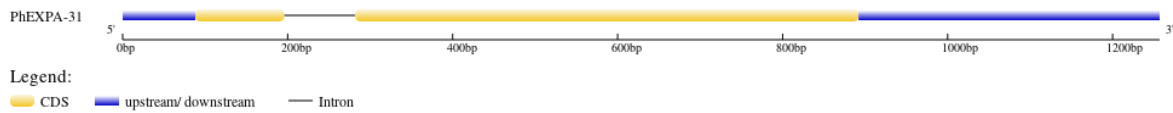
Phytozome: https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1

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

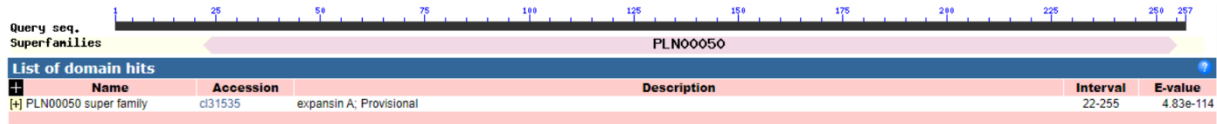
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhEXPA-31

MPSLQVLLLLLLALISLSSSARGYGVRWISAHATFYGGADASGTMGGACGYGDLYS
QGYGTETALSTALFSGGLSCGACFELRCAGGRGSCAPGGSVVVTATNFCPPNYALP
SGAGGWCNPLRHFDSLQPAFLRIARYRAGIVPVAYRRVPCRRRGGMRFTVNGHPYF
NLVLVSNVGGAGDVRAVAVRGGAGARARWRGMARNWGQNWQSGARLDGQALSF
RVTTSDRHSVVSYNVAPAGWAFGQTFGGQFP*

CDS (coding sequence)

>PhEXPA-31

ATGCCATCACTGCAGGTTCTGCTGCTGCTCTTGCTCGCCCTGATCTCGCTGTCCTC
TTCAGCTCGAGGCTATGGCGTCCGGCCGCTGGATCAGTGCACGACCCACCTTCTAC
GGCGGCGCCGACGCCTCCGGCACGATGGGCGGCGCGTGCGGGTACGGCGACCTG
TACAGCCAGGGTTACGGCACGGAGACGACGGCGCTGAGCACGGCGCTATTCAGC
GGCGGTCTGAGCTGCGGCGCGTGCTTCGAGCTGCGGTGCGCCGGCGGCGCGGGT
CGTGCGCGCCGGGCGGCTCCGTCTGGTGACGGCCACCAACTTCTGCCCGCCCAA
CTACGCGCTCCCCAGCGGCGCCGGCGGGTGGTGCAACCCGCCGCTGCGGCACTTC
GACCTGTCGACCCGGCGTTCCTCCGCATCGCCCGGTACCGCGCCGGCATCGTCC
CCGTGCGCTACCGCCGGGTGCCCTGCAGGCGGCGGGGCGGCATGCGCTTACCGT
GAACGGCCACCCCTACTTCAACCTGGTGCTGGTCAGCAACGTGGGCGGCGCCGGC
GACGTGCGCGCCGTGGCCGTGCGGGGCGGCGCAGGCGCCCGGGCGCGGTGGCGG
GGCATGGCCCGAACTGGGGCCAGA ACTGGCAGAGCGGCGCGCCTCGACGGG
CAGGCGCTCTCCTTACGGGTCACCACCAGCGACCGCCACTCCGTCTCTCCTACA
ACGTCGCGCCCGCCGGATGGGCCTTCGGCCAGACGTTACCGGCGGCCAGTTC
GTAG

Nucleotide

>PhEXPA-31

AGAGCTTAGCTGATCAAGCAAGAACAACACGACAGAACAACAACCGGATCCATG
GCTTCTCCATCCACAGCCATCTTGGCCCTCGCCGTCGCGTTGGTCTGCGCAGCCAC
CGCGGCGAACGCGAGGTTACGGCGATGCAGTGGACTCCGGCGCACGCCACGTT
CTACGGCGACGAGACCGCGGCCGAGACCATGGGTACGTTGCTGCTTGTACGGTG
CGTTAGCGGCGCCGCTTCTTGGCATTTCGCTTACGGGTGCCGAGATTGTTTTTC

GCCGCAGGTGGGGCGTGCGGGTACGGCAACCTGTACGCAACGGGGTACGGCACG
GACACGGCGGGCGCTGAGCACGACACTGTTCAAGGACGGGTACGGGTGCGGGACG
TGCTACCAGATCCGGTGC GCGAGCTCCCCCTGGTGCTACCGGGGCTCGCCGGTGA
TCACGGTGACGGCGACCAACCTGTGCCCGCCCAACTGGGCGCAGGACTCCAACA
ACGGCGGCTGGTGCAACCCGCCGCGGACCCACTTCGACCTCTCCAAGCCGGCGTT
CATGCGGATGGCCCAGTGGCGCGCCGGCATCGTGCCGGTCATGTACCGGCGGGTG
CCCTGCGTGAGGCGCGGCGGCCTCCGGTTCGCGCTCCAGGGGAACCCCTACTGGC
TGCTGGCGTACGTGATGAACGTGGCCGGCGCCGGAGACGTCGCGGAGATGTCGG
TGAGGAGCGGGCGCGGCGCGTGGGTGCGCATGAGCCACA ACTGGGGCGCGTCGT
TTCAGGCGTTCGCGCAGCTCGGCGGGCCGGGCGCTCAGCTTCAAGGTCACCTCCTA
CACCACCCGGCAGACCGTCGTCGCCACCAACGTCGCGCCGGCAA ACTGGTGCCTC
GGGCTCACGTACCAGGCCCGCGTCAACTTCTCCTGAAACTGAGAGGCCGGAGGA
GCACGTCGTTCCGTAGCAGAAGTTTGCAGGAGCTGTGATGCCGAGAACGCTCTGC
CCTGCTACGATGTTCCATTGTTTTCTCTGTTCTCGTAGTTCAGAGTTCAGTCAGA
TTTGGGACGTGTCGAGCGTTGCCCCCGTCCATGAGGAGCAGTGGGTTTGACGCCA
GCATTATTGATGTAAAGCTTGCTTAATTTTTTTTTTCTGGAAGACCGATGGGCGCA
AATCATGGCCGCGTTAATTTCAAGACCTGAGTCGTTGATCACGATGGCCGAAATT
TCTAGAGGCAAAAAGTTGCAACAAAATCAATATGATCATTGACAGTCTCAAC