

IDENTIFICATION

Species: *Panicum hallii*

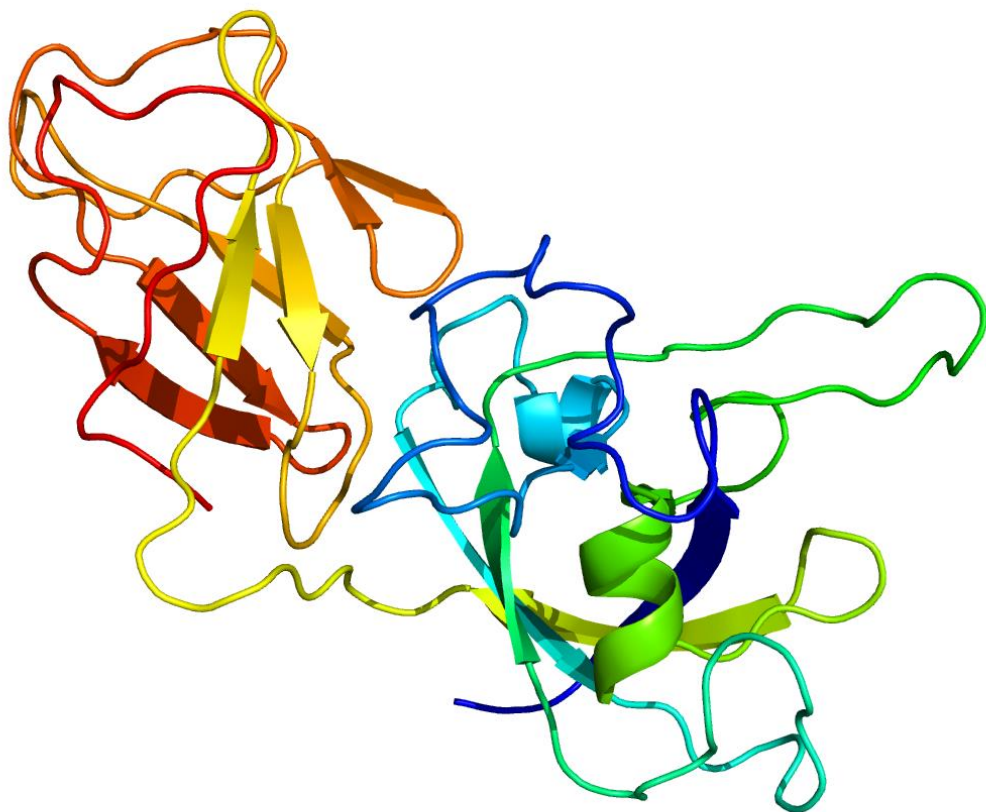
Locus: Pahal.9G238400

Gene Model: Pahal.9G238400.1.p

Description: PhEXPA-22

Family: Alpha Expansin

3D structure:



GENOME DATABASES

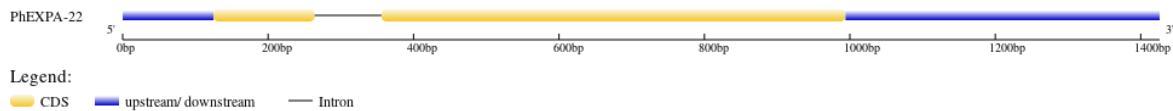
Phytozome: https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1

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

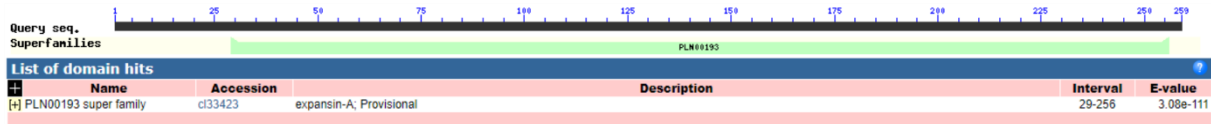
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhEXPA-22

MATPRRLPPAVFFLAVVALLAAPAAVAAWSRGTATFYGGSDASGTMGGACGYGNL
YTTGYGTATTALSQVLFSGGASCGQCFQIACDSQTDGRWCRPGAGPVTVTATNLCPP
NYALPSNNGGWCNPPRAHFDMAQPAWVKIGVYQGGIIPVLYQRVACVRQGGVRFTI
TGFNYELVLISNVGGSGSVASAWVQGTSTNRVPMsrNWGANWQSLAGIAGQALTF
GVT TTGGQYIVFQNVVPVNWAFGMSFMSNLQFSY*

CDS (coding sequence)

>PhEXPA-22

ATGGCGACGCCAGACGACTGCCTCCGGCCGTCTTCTTCCTCGCTGTCGTCGCGCT
GCTCGCTGCGCCGGCCGCCGTGGCGGCCTGGTCCAGGGGCACGGCCACGTTCTAC
GGCGGCAGTGACGCCTCCGGCACAATGGGCGGGGCGTGCGGGTACGGCAACCTG
TACACGACGGGGTACGGCACGGCCACGACGGCGCTGAGCCAGGTGCTCTTCAGC
GGCGGCGCGTCTGTCGGCCAGTGCTTCCAGATCGCGTGCGACTCCCAGACGGATG
GGCGGTGGTGCCGCCCGGGCGCCGGTCCCGTGACGGTCACCGCCACCAACCTCTG
CCCGCCAACTACGCGCTCCCCAGCAACAACGGCGGCTGGTGCAACCCGCCGCG
GGCGCACTTCGACATGGCGCAGCCGGCCTGGGTCAAGATCGGGGTCTACCAGGG
CGGCATCATCCCCGTGCTGTACCAGCGCGTGGCCTGCGTCCGGCAGGGCGGGCGTG
CGCTTACCATCACGGGGTTCAACTACTACGAGCTCGTGCTCATCTCCAACGTCG
GCGGCAGCGGCTCCGTCGCCAGCGCCTGGGTCCAGGGCACGTCCACCAACCGGG
TGCCCATGAGCAGGAATTGGGGCGCGAACTGGCAGTCGCTCGCCGGGATCGCCG
GACAGGCGCTCACCTTCGGCGTCACCACCACGGGCGGACAGTACATCGTCTTCCA
GAACGTCGTGCCCGTCAACTGGGCGTTCGGCATGTCTTCATGAGCAACCTGCAG
TTCTCCTACTGA

Nucleotide

>PhEXPA-22

ACAGTAGTAGCGCACACCACTTGTCAACTAACAGTTCTTCTTGCTTGATCCTTCGT
TCGTGAGCTTCGTGGTCCGGTCTTCACTAGCTAGATCCTACCGTTCGAGACGCCGC
AGGGGGTGGTGGCAATGGCGACGCCAGACGACTGCCTCCGGCCGTCTTCTTCTCCT
CGCTGTCGTCGCGCTGCTCGCTGCGCCGGCCCGCGTGGCGGCCTGGTCCAGGGGC
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GGCATAATGCGTGCGTGCATAACGCCCTGATGAAGACTAATTCATAACCCTGACC
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GGTGGTGCCGCCCGGGCGCCGGTCCCCTGACGGTCACCGCCACCAACCTCTGCCC
GCCCAACTACGCGCTCCCCAGCAACAACGGCGGGTGGTGCAACCCGCCGCGGGC
GCACTTCGACATGGCGCAGCCGGCCTGGGTCAAGATCGGCGTCTACCAGGGCGG
CATCATCCCCGTGCTGTACCAGCGCGTGGCCTGCGTCCGGCAGGGCGGGCGTGCGC
TTCACCATCACGGGGTTCAACTACTACGAGCTCGTGCTCATCTCCAACGTCGGCG
GCAGCGGCTCCGTCGCCAGCGCCTGGGTCCAGGGCACGTCCACCAACCGGGTGCC
CATGAGCAGGAATTGGGGCGCGAACTGGCAGTCGCTCGCCGGGATCGCCGGACA
GGCGCTCACCTTCGGCGTCACCACCACGGGCGGACAGTACATCGTCTTCCAGAAC
GTCGTGCCCGTCAACTGGGCGTTCGGCATGTCCTTCATGAGCAACCTGCAGTTCTC
CTACTGATCATTCTCACCTGCCTGCACTTAGAGCCTAGCTGCAAGGAGGGAGCG
AGCACTGACTGCTGGCTATAGCATTCTTCAGACCGTCAGTAGATAGATTGGAGGA
AAGCTCTCCGGCTGGAGCACTTGCATCATGTGCAAATATGTCCTAAGTTTTAGTT
TATATTGTCAGTAATTCAGACCCCATGTCACGCTAGCGCCTAGCTAGCCATGTAC
ACCCTCTCTGATTAATAAATAATGTAATCATTTTTAGATTTGCACAAAAGAGTTAGA
AGAGTGTGTGTGAAGTAACCATGTTTACCTTTCCATCAGTCACTCATGCACAAAC
GGGTAGGACTTCAGTCACCCCTTAGCTTTTTGTTCCACTTTTCTTACTTTGAAATG
CACATTTGTTCAATTCGAACGAGCTTTGAGTTGATATAATACCCTAGAGAAG