

IDENTIFICATION

Species: *Panicum hallii*

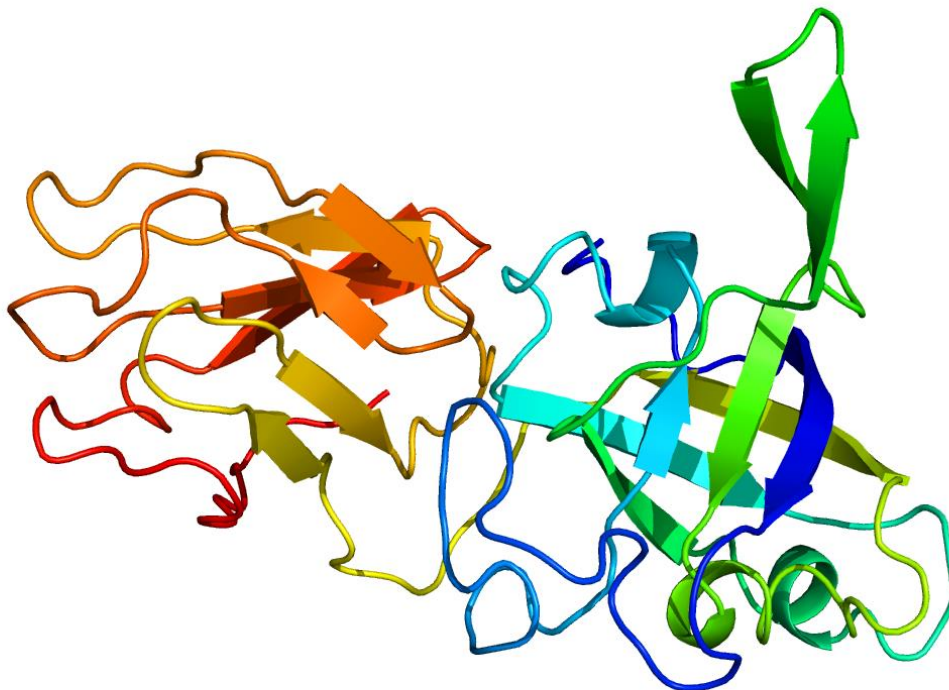
Locus: Pahal.9G238500

Gene Model: Pahal.9G238500.1.p

Description: PhEXPA-23

Family: Alpha Expansin

3D structure:



GENOME DATABASES

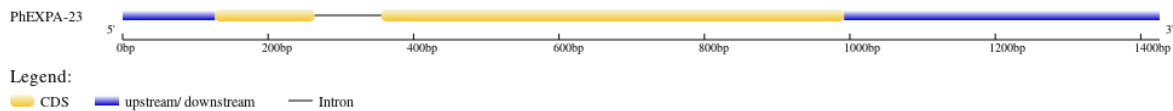
Phytozome: https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1

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

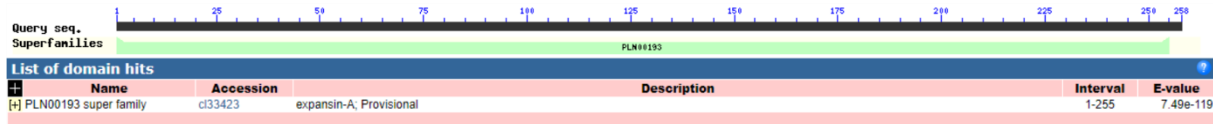
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhEXPA-23

MGSTAAMLLRSVAVLALLAMSATTAQAQYWNSTGATFYGGRDGSMTMGGACGYD
NLYNQGYGVLNAALSQVLFNDGASGQCYNIKCDTGKSGWCKPGYSVTVTATNLC
PPNYAITTNGGGWCNPPRPHFDMSQPAWEQIGIYRAGIIPVLYQRVPCTRQGGVRFIT
SGFNFYQLVLITNVAGSGSIRSMSVKGASTGWIAMTRNWGALWQCSSALVGEPLSFA
VTSTGGQTLYMNNIAPAWWTFGMTFASNNQFAY*

CDS (coding sequence)

>PhEXPA-23

ATGGGCAGCACCGCGGCGATGCTGCTCAGGTCCGTCGCCGTCCTCGCCCTCCTCG
CCATGTCGGCGACAACGGCGGGCGGCAGTACTGGAACAGCGGGACGGCGACGT
TCTACGGCGGCAGGGACGGTTCGGGACGATGGGCGGCGCGTGCGGGTACGACA
ACCTGTACAACCAGGGGTACGGGGTGCTGAACGCGGGCGCTGAGCCAGGTGCTGT
TCAACGACGGCGCGTCTGCGGCCAGTGCTACAACATCAAGTGCACACCGGCA
AGTCCGGGTGGTGCAAGCCCGGCTACTCCGTCACCGTCACCGCCACCAACCTGTG
CCCGCCAACTACGCCATCACCAACGGGGGAGGCTGGTGCAACCCGCCGCG
CCCCACTTCGACATGTTCGCAGCCGGCGTGGGAGCAGATCGGCATCTACCGCGCC
GGCATCATCCCCGTCTCTACCAGCGGGTGCCGTGCACGAGGCAGGGAGGGGTG
AGGTTACCATCTCCGGCTTCAACTACTTCCAGCTGGTGCTCATCAACACGTCGC
CGGCAGCGGCTCCATCCGGTCCATGTCGGTGAAGGGCGCCAGCACCGGGTGGAT
CGCGATGACGCGGAAGTGGGGCGCACTGTGGCAGTGCAGCTCGGCGCTCGTCCG
CGAGCCGCTCTCCTTCGCGGTCACCTCCACCGGCGGCCAGACGCTGTACATGAAC
AACATCGCGCCGGCGTGGTGGACCTTCGGCATGACGTTCCGCCAGCAACAACAGT
TTGCCTACTAA

Nucleotide

>PhEXPA-23

ACAGTAGTAGCGCACACCACTTGTCAACTAACAGTTCTTCTTGCTTGATCCTTCGT
TCGTGAGCTTCGTGGTCCGGTCTTCACTAGCTAGATCCTACCGTTCGAGACGCCGC
AGGGGGTGGTGGCAATGGCGACGCCAGACTGCCTCCGGCCGTCTTCTTCTCCT
CGCTGTCGTCGCGCTGCTCGCTGCGCCGGCCCGCGTGGCGGCCCTGGTCCAGGGGC
ACGGCCACGTTCTACGGCGGCAGTGACGCCTCCGGCACAAATGGGTACGCTACTTG

GGCATAATGCGTGCGTGCATAACGCCCTGATGAAGACTAATTCATAAACCTGACC
GACCATGGTGCAAATAAACTGCAGGGCGGGGCGTGCGGGTACGGCAACCTGTAC
ACGACGGGGTACGGCACGGCCACGACGGCGCTGAGCCAGGTGCTCTTCAGCGGC
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GGTGGTGCCGCCCGGGCGCCGGTCCCCTGACGGTCACCGCCACCAACCTCTGCCC
GCCCAACTACGCGCTCCCCAGCAACAACGGCGGCTGGTGCAACCCGCCGCGGGC
GCACTTCGACATGGCGCAGCCGGCCTGGGTCAAGATCGGGCGTCTACCAGGGCGG
CATCATCCCCGTGCTGTACCAGCGCGTGGCCTGCGTCCGGCAGGGCGGGCGTGCGC
TTCACCATCACGGGGTTCAACTACTACGAGCTCGTGCTCATCTCCAACGTCGGCG
GCAGCGGCTCCGTCGCCAGCGCCTGGGTCCAGGGCACGTCCACCAACCGGGTGCC
CATGAGCAGGAATTGGGGCGCGAACTGGCAGTCGCTCGCCGGGATCGCCGGACA
GGCGCTCACCTTCGGCGTCACCACCACGGGCGGACAGTACATCGTCTTCCAGAAC
GTCGTGCCCGTCAACTGGGCGTTCGGCATGTCCTTCATGAGCAACCTGCAGTTCTC
CTACTGATCATTCTCACCTGCCTGCACTTAGAGCCTAGCTGCAAGGAGGGAGCG
AGCACTGACTGCTGGCTATAGCATTCTTCAGACCGTCAGTAGATAGATTGGAGGA
AAGCTCTCCGGCTGGAGCACTTGCATCATGTGCAAATATGTCCTAAGTTTTAGTT
TATATTGTCAGTAATTCAGACCCCATGTCACGCTAGCGCCTAGCTAGCCATGTAC
ACCCTCTCTGATTAATAAATAATGTAATCATTTTTAGATTTGCACAAAAGAGTTAGA
AGAGTGTGTGTGAAGTAACCATGTTTACCTTTCCATCAGTCACTCATGCACAAAC
GGGTAGGACTTCAGTCACCCCTTAGCTTTTTGTTCCACTTTTCTTACTTTGAAATG
CACATTTGTTCAATTCGAACGAGCTTTGAGTTGATATAATACCCTAGAGAAG