

IDENTIFICATION

Species: *Panicum hallii*

Locus: Pahal.9G599900

Gene Model: Pahal.9G599900.1.p

Description: PhEXPA-33

Family: Alpha Expansin

3D structure:



GENOME DATABASES

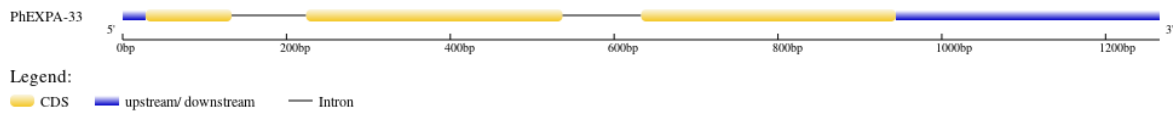
Phytozome: https://phytozome-next.jgi.doe.gov/info/Phallii_v3_1

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

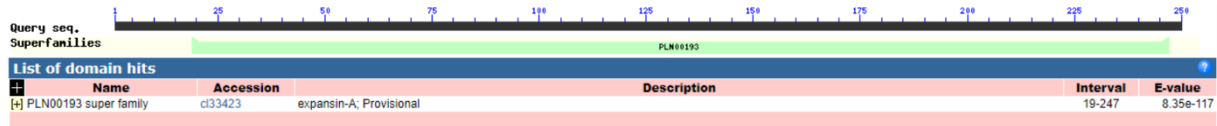
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PhEXPA-33

MDRVLTLFVVVAAFFAPAKGWNYGTATFYGGADASGTMGGACGYGNLYQAGYG
TNTAALSSVLFNNGAACGQCYLIMCDSNASPWCKGGAAVTITATNFCPPNWAQPSN
RGGWCNPPRPHFDMAQPAWERIGVYKAGIIPVLYQQVTCWRQGGIRITIGGSTFFQL
VNFANVAGSGSIRSVSVKGKTGWIALNRNWGANWQCNSALVGQELSFIVTSNGGQ
TLYLNNVPAWWRFGMAFASNYNFYY*

CDS (coding sequence)

>PhEXPA-33

ATGGACAGAGTCCTCACGTTGTTTCGTCGTCGTAGCGGCGGCGTTCCTTCGCGCCGG
CGAAGGGCTGGAACACTACGGGACGGCGACGTTCTACGGCGGGGCCGACGCCTCCG
GCACGATGGGTGGCGCGTGCGGGTACGGGAACCTGTACCAGGCGGGGTACGGGA
CGAACACGGCGGCGCTGAGCTCGGTGCTGTTCAACAACGGCGCGGCGTGCGGGC
AGTGCTACCTGATCATGTGCGACAGCAACGCGTCGCCATGGTGCAAGGGCGGCG
CCGCGGTGACCATCACGGCCACCAACTTCTGCCCCGCCAACTGGGCACAGCCCAG
CAACCGCGGCGGCTGGTGCAACCCGCGCGCCCCACTTCGACATGGGCGCAGCCC
GCCTGGGAGCGCATCGGCGTCTACAAGGCCGGCATCATCCCCGTCTCTACCAGC
AGGTGACGTGCTGGAGGCAGGGAGGGATCCGGATCACCATCGGAGGGTCCACGT
TCTTCCAGCTGGTGAACCTTCGCGAACGTGGCCGGGAGCGGCTCGATCCGGTCCGT
GTCGGTGAAGGGGACCAAGACGGGGTGGATCGCGCTGAACCGCAACTGGGGCGC
CAACTGGCAGTGCAACTCGGCGCTCGTCGGCCAGGAGCTCTCCTTCATCGTCACC
TCCAACGGCGGCCAGACGCTCTACCTCAACAACGTCGTGCCGGCGTGGTGGCGGT
TCGGCATGGCCTTCGCCAGCAACTATAACTTCTACTACTGA

Nucleotide

>PhEXPA-33

ATGGGGCAACGTTTCTGCACCAGCTGCTGCTCGCCGTTCTTGCGCTCTGCTTATT
TGCACCGGCGAGATCGGACGAGTGGCTCCCGGCCACCGCCACGTTCTACGGTGGC
GCCGACGGCTCCGACACAATGGGTAAGCATAACAGTCAGAGTATTGTCTGAACTTG
TGCACGGCACGGAGTGCACACAGACACAGTGTGACGTGTATGCACCGTGTGCAC
ACAGGCGGAGCGTGCGGGTACGGCAACCTGTACGACCAGGGATACGGCATCAAC

AACGCCGCGCTGAGCACGGCGCTGTTCAACGACGGCGCGGGCGTGCGGGCAGTGC
TACGTGATCATCTGCGACACCAGCAAGTCCGGGTGGTGCCGGCCGGGCAAGTGG
GTCGCCGTCTCCGCCACCAACTTCTGCCCCGCCAACTGGTCGCTCCCCGGCGGCG
GCTGGTGCGGCCCGCCTCGCCCCACTTCGACATGTCCCAGCCCCGCCTGGGAGAA
CATCGGCATCTACAGCGCCGGCATCATCCCCGTCCTCTACCAACGGTAACACTAT
AAGCAAGTCCAGCTCGATCGATCGATACACCCAGTGCAAGCTGCTCACCAGCAAC
TGATCCTTGGAGTTACGTTGGATGCGTGCAGGATCAAGTGCTGGAGGGACGGCGG
CGTGCGGTTACCATCGCCGGCTTCAACTACTTCGAGCTGGTGCTGGTGACCAAC
GTGGCCGGGAGCGGCTCCATCCAGAGCATGGCGGTGAAGGGCACCACCACGGAT
TGGATCCAGATGTCCAGGAACTGGGGCGCCAACCTGGCAGTGCCTCGCCGCGCTCG
CCGGCCAGGGGCTCAGCTTCGCGCTCACCTCCACCGGCGGCCAGACGATCGTCTT
CCAGGACGTCGTGCCGGCGTGGTGGCAGTTCGGCCAGACCTTCACCACCACCAG
AATTCGACTACTAATCGCCCCAGAAAACGGCCGGTCCATCCACAAGCGCGCGC
CGCTATGTGATCATTTGTTTTCTCCATGCTAAAATCCGTTATTTTTCTATTTATTGA
TTATTTATACTGCTTCGTTAATGTCAGCTCATCTCATTTGTAGTTTGAATCACTTGA
GTATTTTTGAAATCGCCAACTGATGGTTGTAAATTGGATAATTTGTTTTCATGCGA
TTGTAATTTTTCACAAACATTTACTAAGCTTGTC AATGTCAGTGGCATGCATATAT
GTGGGCTCTATATCTCATTGATGCATCAATGGCAAGTACTAAGTGATTGTAAAA