IDENTIFICATION

Species: *Musa acuminata*

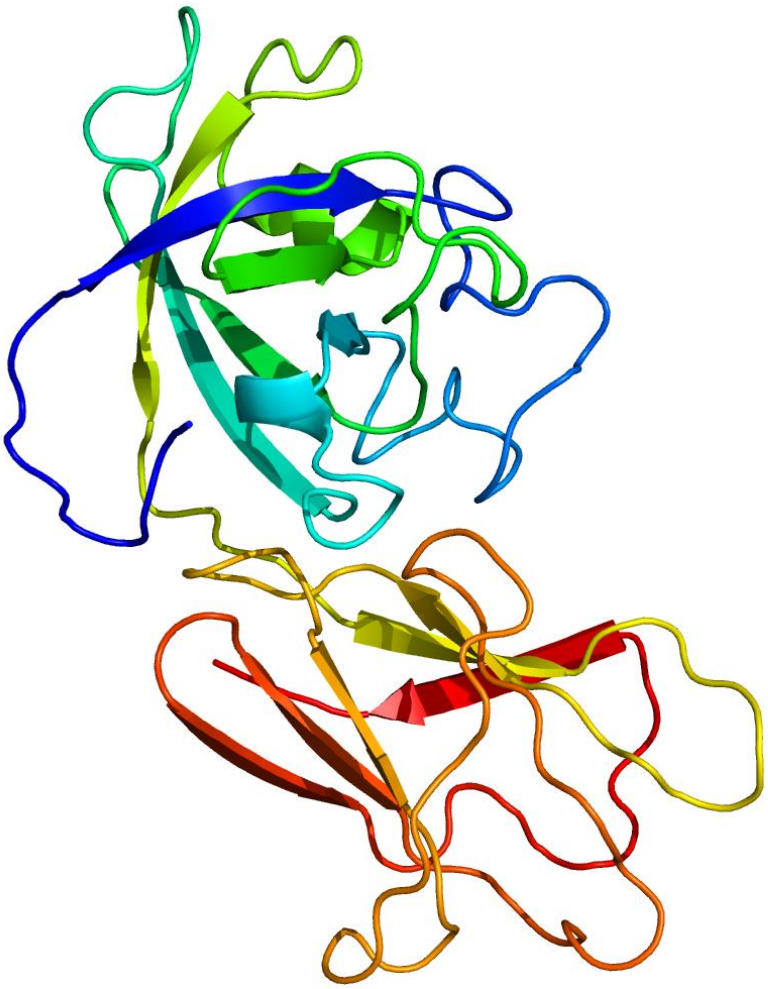
Locus: GSMUA_Achr4P28010_001

Gene Model: GSMUA_Achr4P28010_001

Description: MacEXPA-16

Family: Alpha Expansin

3D structure:



GENOME DATABASES

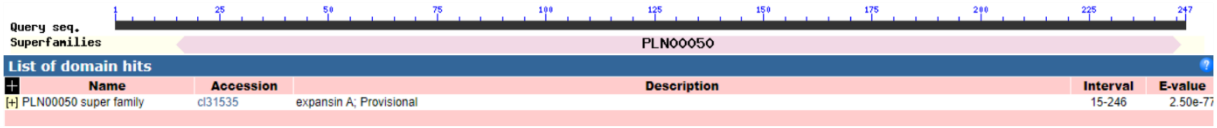
Phytozome: https://phytozome-next.jgi.doe.gov/info/Macuminata_v1
KEGG: https://www.genome.jp/entry/T03447

EXTERNAL RESOURCES

https://banana-genome-hub.southgreen.fr/
https://musabase.org/

GENE STRUCTURE

DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MacEXPA-16

MAMTVISVVVVMSFALMAMAVMAQGPWDTADATFYGDMSGKATMGGTCGYDNL
FEHGYGLSNTALSTVLFNDGEKCGACFELKCAAGPDRCKEGSTIVTATSFCPPAPVSL
CNPPQKHFDLSMAMYMKIAKTAYSGSIPVQFRRVPCVREGDIGFEFRGNPFWISVLV
YNVAGSGDVAKLSVRGSNTTWVPMTRSWGQRWQLSFRPEMVGQSLSFKVTTGDNK
TVESVDVAPANWQFGQRYTGGQF*

CDS (coding sequence)

>MacEXPA-16

ATGGCGATGACTGTGATCAGTGTGGTTGTCGTCATGTCCTTTGCTCTCATGGCCAT
GGCAGTGATGGCACAGGGTCCATGGGACACTGCCGACGCCACTTTCTACGGCGAC
ATGTCCGGCAAAGCGACCATGGGCGGAACTTGTGGGTATGACAATCTCTTCGAGC
ACGGATACGGGCTGTCGAACACGGCGCTGAGCACGGTGCTGTTCAACGATGGGG
AAAAATGCGGTGCATGCTTCGAGTTGAAGTGCGCAGCGGGACCCGACAGGTGCA
AGGAGGGGAGCACCATCGTGACGGCGACCAGCTTCTGCCCGCCGGCACCCGTCA
GCCTGTGCAACCCGCCCCAGAAGCACTTCGACCTCTCCATGGCCATGTACATGAA
GATCGCCAAGACAGCCTATTCGGGCAGCATCCCCGTGCAGTTCCGGCGAGTACCG
TGCGTCAGGGAGGGCGACATCGGATTCGAGTTCAGGGGGAACCCCTTCTGGATCT
CGGTGCTGGTGTACAACGTGGCCGGCTCCGGCGACGTGGCGAAGCTGTCGGTGA
GGGGATCCAACACCACCTGGGTGCCGATGACGAGGTCGTGGGGACAGAGGTGGC
AGCTCAGTTTCAGGCCAGAGATGGTGGGACAGAGCCTTTCGTTCAAGGTGACGAC
AGGCGACAACAAGACGGTGGAGTCGGTCGACGTCGCTCCAGCGAACTGGCAGTT
CGGACAGCGGTATACAGGCGGCCAATTCTGA

Nucleotide

>MacEXPA-16

ATGGCGATGACTGTGATCAGTGTGGTTGTCGTCATGTCCTTTGCTCTCATGGCCAT
GGCAGTGATGGCACAGGGTCCATGGGACACTGCCGACGCCACTTTCTACGGCGAC
ATGTCCGGCAAAGCGACCATGGGTGAGTTCAGCTGCCTCTCCCTCTTTCTACTACT
GCTCCTTTGTCGTTGTCTTCCCCTCTCAGTCCAATGAGCAGGTCACAAGCGCTGCA
TGCACGCAGAGGAGATTTTGCTGCAGTTAAATCGTGTTCATGGGTAGAGAAAGAG
AGAGAGAGAGAGAGATCTGACCATGTGTTTTGTACTGGTACAGGCGGAACTTGTG

GGTATGACAATCTCTTCGAGCACGGATACGGGCTGTCGAACACGGCGCTGAGCAC
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GCGGGACCCGACAGGTGCAAGGAGGGGAGCACCATCGTGACGGCGACCAGCTTC
TGCCCGCCGGCACCCGTCAGCCTGTGCAACCCGCCCCAGAAGCACTTCGACCTCT
CCATGGCCATGTACATGAAGATCGCCAAGACAGCCTATTCGGGCAGCATCCCCGT
GCAGTTCCGGCGAGTACCGTGCGTCAGGGAGGGCGACATCGGATTCGAGTTCAG
GGGGAACCCCTTCTGGATCTCGGTGCTGGTGTACAACGTGGCCGGCTCCGGCGAC
GTGGCGAAGCTGTCGGTGAGGGGATCCAACACCACCTGGGTGCCGATGACGAGG
TCGTGGGGACAGAGGTGGCAGCTCAGTTTCAGGCCAGAGATGGTGGGACAGAGC
CTTTCGTTCAAGGTGACGACAGGCGACAACAAGACGGTGGAGTCGGTCGACGTC
GCTCCAGCGAACTGGCAGTTCGGACAGCGGTATACAGGCGGCCAATTCTGATGA
GGAATTGGAGCAGAAAGCAAGGGAAACTATTAGTACATACAATATAAGGAAGCC
ACCTAACCATGCACGGGCTTCTTCACTGGCTTTTGAAGTCATATCTATTCCTGCAC
GCAGTTTAATATTTGCATTACCTTGCTTC