

IDENTIFICATION

Species: *Musa acuminata*

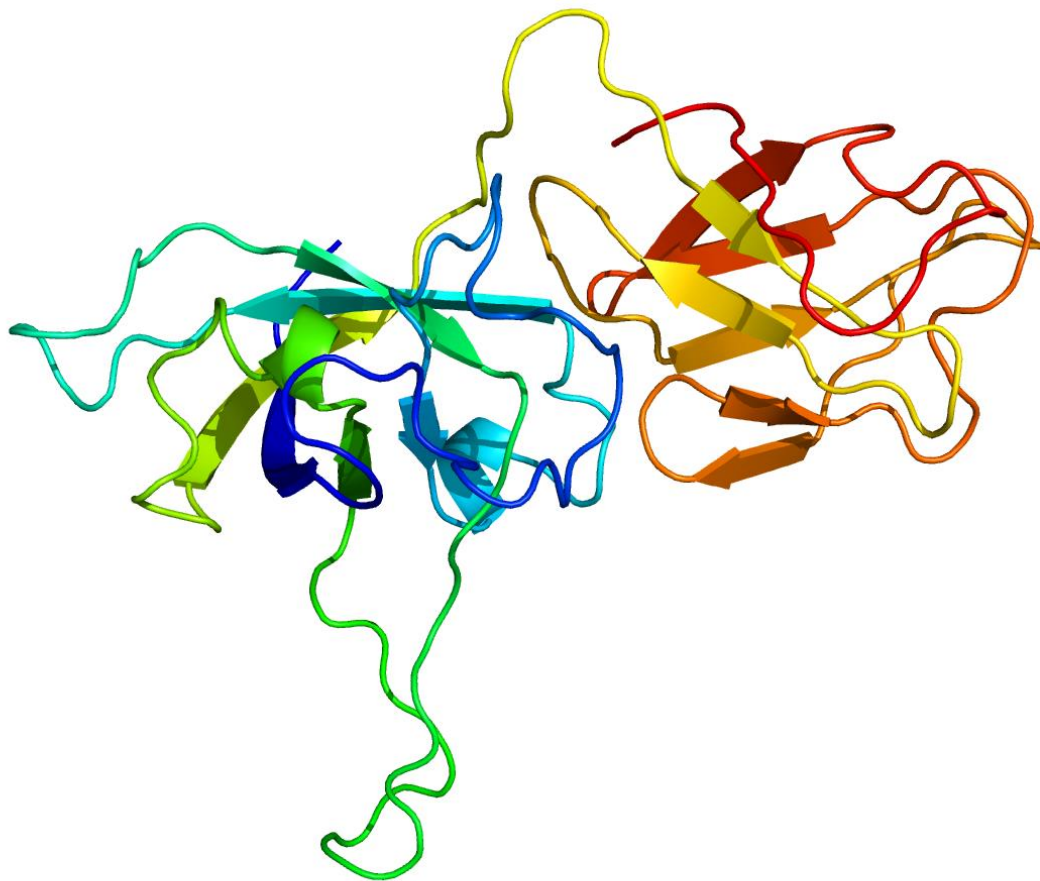
Locus: GSMUA_Achr5P07630_001

Gene Model: GSMUA_Achr5P07630_001

Description: MacEXPA-19

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Macuminata_v1

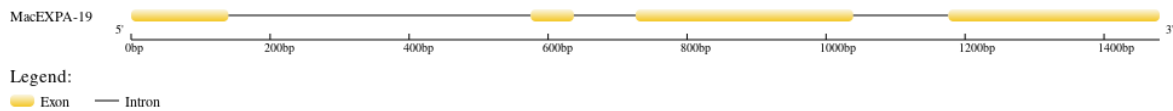
KEGG: <https://www.genome.jp/entry/T03447>

EXTERNAL RESOURCES

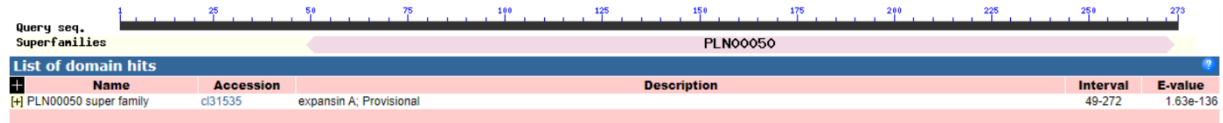
<https://banana-genome-hub.southgreen.fr/>

<https://musabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MacEXPA-19

MQRIRYTELGEAAKELQPPFPFTLNPNVSALSIYSRENLPLTSFNVCVGGWSSAHATFY
GGSDASGTMGGACGYGNLYSQYGTDTAALSTALFNNGQSCGACFEIMCGSDNGW
CLQGSIIVTATNFCPPNNALPSDNGGWCNPPRQHFDLSQPVFQRIAQYKAGIVPVQYR
RVPCA KKGIRFTINGHSYFNLVLITNVGGAGDVVAVSIKGSRTGWQPMSRNWQON
WQSNSCLDGGQSLSFVTTS DGHSVTSANVAPPNWSFGQTYSGAQF*

CDS (coding sequence)

>MacEXPA-19

ATGCAGAGGATAAGATACTGAACCTCGGAGAAGCAGCAAAGGAGCTCCAGCCA
CCGTTCCCTTTCACTTTAAATCCTGTATCTGCTCTGTCCATTTACTCCAGGGAGAA
TCTACCACTGACTTCCTTTAATGTGTGTGTTGGCGGATGGTCTAGTGCACATGCTA
CCTTCTATGGAGGTAGTGATGCGTCTGGGACTATGGGAGGAGCCTGTGGGTATGG
GAACCTCTACAGCCAAGGTTATGGTACCGACACTGCGGCGCTGAGCACTGCTCTG
TTCAACAATGGCCAGAGCTGTGGAGCTTGTGTTTGAGATCATGTGCGGGAGTGACA
ATGGATGGTGTCTCCAGGGGTCGATCATTGTCACTGCGACCAACTTCTGCCC GCC
CAACAACGCTCTCCCCAGCGACAATGGCGGATGGTGCAACCCTCCCCGGCAGCAC
TTCGATCTCTCTCAGCCGGTTTTCCAACGCATCGCGCAATACAAAGCAGGCATTG
TTCCTGTT CAGTACAGAAGAGTTCCTTGTGCGAAGAAGGGGGGCATCAGGTTTAC
GATCAACGGCCACTCCTACTTCAACTTGGTCCTGATCACCAACGTTGGTGGTGCT
GGGGACGTGGTGGCGGTGCCATCAAGGGGTTCGAGGACCGGGTGGCAGCCGATG
AGCCGCAACTGGGGACAAA ACTGGCAGAGTAACAGCTGCCTGGACGGCCAGTCC
CTCTCTTTCACGGTCAACCAGCGACGGCCACAGCGTTACGTCGGCGAACGTCG
CGCCACCCA ACTGGAGCTTCGGCCAGACCTACTCCGGCGCCCAGTTTTGA

Nucleotide

>MacEXPA-19

ATGCAGAGGATAAGATACTGAACCTCGGAGAAGCAGCAAAGGAGCTCCAGCCA
CCGTTCCCTTTCACTTTAAATCCTGTATCTGCTCTGTCCATTTACTCCAGGGAGAA
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GTTACAAGAACCTTGCTCGACTTGCACCTCGAAGTTGGTTCGAGCTAAGCAGTAG
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GAATATGTTACTGTGTAGCTCAGTTTCGGTTAGCTGTTAATATACTATTCCCTCCAC
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CCCTCCACTTTGGTCTATAAGTACGCAGGACCTTCCTCAGGCCTTCCTCACCGGGC
TTCTTTTCCATTGCTTAACCTTTGTTGGTGTACTTAGGTTCCCACCCCTTGCTCTCA
TCTCTCCACCATGGAGTTTCCTGGACTCTCCCTGTTTGCCCTTCTCATCATGTTTCGG
AGCTGCTCGTGGATACAGTGGCGGATGGTCTAGTGCACATGCTACCTTCTATGGA
GGTAGTGATGCGTCTGGGACTATGGGTAGGCATGCGAACCACATCTGTCTTTTAT
CTTGTTTCATCATGCAAACCTGTGCTAATCTTTGTTCCGTTTGACCCAACGTATGG
CAGGAGGAGCCTGTGGGTATGGGAACCTCTACAGCCAAGGTTATGGTACCGACA
CTGCGGGCGCTGAGCACTGCTCTGTTCAACAATGGCCAGAGCTGTGGAGCTTGTTT
TGAGATCATGTGCGGGAGTGACAATGGATGGTGTCTCCAGGGGTTCGATCATTGTC
ACTGCGACCAACTTCTGCCCCGCCAACAAACGCTCTCCCCAGCGACAATGGCGGAT
GGTGAACCCTCCCCGGCAGCACTTCGATCTCTCTCAGCCGGTTTTCCAACGCATC
GCGCAATACAAAGCAGGCATTGTTCCCTGTTTCAGTACAGAAGGTAAGAAAAGAGC
AGCTACCGGTTAATGCAACTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
CTCTCTCCTCTGCTCAGAAACCTGAAAGGCTCTGAGTTCTGAAGCAAATCGAATG
GCTTGAGTACAGAGTTCCTTGTGCGAAGAAGGGGGGCATCAGGTTACGATCAAC
GGCCACTCCTACTTCAACTTGGTCCTGATCACCAACGTTGGTGGTGTCTGGGGACG
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CACGGTCACCACCAGCGACGGCCACAGCGTTACGTCGGCGAACGTCGCGCCACC
CAACTGGAGCTTCGGCCAGACCTACTCCGGCGCCCAGTTTTGA