

## IDENTIFICATION

**Species:** *Musa acuminata*

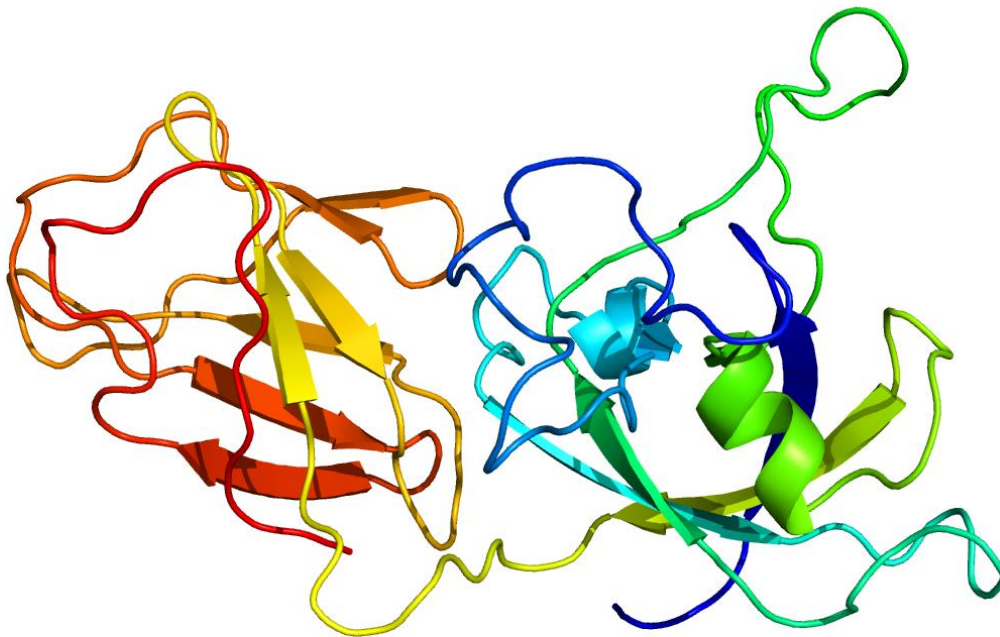
**Locus:** GSMUA\_Achr2P18850\_001

**Gene Model:** GSMUA\_Achr2P18850\_001

**Description:** MacEXPA-10

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Macuminata\\_v1](https://phytozome-next.jgi.doe.gov/info/Macuminata_v1)

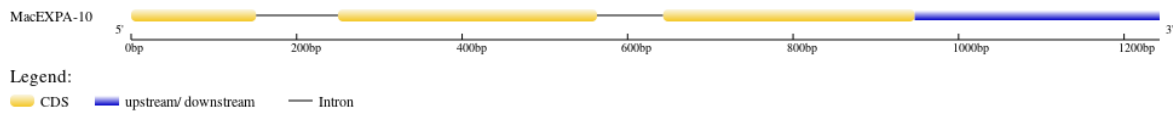
KEGG: <https://www.genome.jp/entry/T03447>

## EXTERNAL RESOURCES

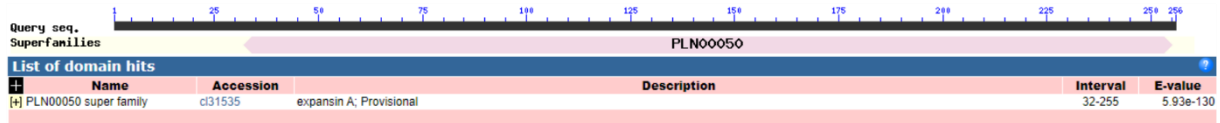
<https://banana-genome-hub.southgreen.fr/>

<https://musabase.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>MacEXPA-10

MALPKCSLYHVLFFSLPSLCFFLSGALADSYGWRNAHATFYGGGDASGTMGGACGY  
GNLYGQGYGTNTAALSTALFDNGLSCGACYEMRCADNPQWCLPGSVVVTATNFCPP  
NYALPNDNGGWCNPPLQHFDLAEP AFLQIAQYRAGIVPVSFRRVPCVRKGGIRFTVN  
GHSYFNLV LITNVGGAGDVHAVSIKGSKTGWQSMSRNWQNWQNSYLDGQSLSF  
QVTTGDGSTVTSY NVAPAGWQFGQTFEGGQL\*

### CDS (coding sequence)

>MacEXPA-10

ATGGCTTTGCCAAAGTGTTCCCTCTACCATGTTCTCTTCTTCTCACTGCCTTCCTTG  
TGCTTCTTCCTATCAGGAGCCCTCGCGGATTCTACGGATGGCGGAACGCCCATG  
CCACGTTCTACGGCGGTGGCGACGCCTCCGGCACTATGGGAGGGGCTTGTGGCTA  
CGGCAACCTCTACGGCCAGGGCTACGGGACCAACACCGCCGCCCTCAGCACCGC  
GCTCTTCGACAACGGGCTCAGCTGCGGCGCCTGCTACGAGATGCGGTGCGCCGAC  
AATCCCCAGTGGTGCCTCCCGGGCTCCGTCGTCGTCACCGCCACCAACTTCTGCC  
CCCCAACTACGCCCTTCCAACGACAACGGCGGCTGGTGCAACCCTCCCCTGCAG  
CACTTCGACCTCGCCGAGCCCGCCTTCCCTCCAGATCGCTCAGTACCGCGCCGGAA  
TCGTCCCCGTCTCCTTCCGCAGGGTGCCCTGCGTGAGGAAGGGAGGCATAAGGTT  
CACCGTCAACGGCCACTCCTACTTCAACCTGGTGCTGATCACCAACGTCGGCGGG  
GCCGGCGACGTGCACGCGGTGTCGATCAAGGGGTCCAAGACAGGGTGGCAGAGC  
ATGTCGCGCAACTGGGGCCAGAACTGGCAGAGCAACTCCTACCTCGACGGGCAG  
AGCCTCTCCTTCCAGGTGACGACCGGCGACGGGAGCACGGTCACCAGCTACAAC  
GTCGCGCCCGCCGGGTGGCAGTTCGGGCAGACCTTCGAGGGAGGGCAGTTGTAG

### Nucleotide

>MacEXPA-10

ATGGCTTTGCCAAAGTGTTCCCTCTACCATGTTCTCTTCTTCTCACTGCCTTCCTTG  
TGCTTCTTCCTATCAGGAGCCCTCGCGGATTCTACGGATGGCGGAACGCCCATG  
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CAATATCTCTCATTATGTTTGCTGGAATTACCTCGAATATCTCTCGTGCATCTTA  
AGGTGGCTCGGTTGGTTGATGCCGACAGGGGCTTGTGGCTACGGCAACCTCTA  
CGGCCAGGGCTACGGGACCAACACCGCCGCCCTCAGCACCGCGCTTTCGACAAC

GGGCTCAGCTGCGGGCGCCTGCTACGAGATGCGGTGCGCCGACAATCCCCAGTGGT  
GCCTCCCGGGCTCCGTCGTCGTCACCGCCACCAACTTCTGCCCCCCCAACTACGCC  
CTTCCCAACGACAACGGCGGCTGGTGCAACCCTCCCCTGCAGCACTTCGACCTCG  
CCGAGCCCCGCCTTCCTCCAGATCGCTCAGTACCGCGCCGGAATCGTCCCCGTCTC  
CTTCCGCAGGTGTGCGACTTTCCGCCGCTCTTGAAGCAGACATGCCTATATAAAG  
CTTCTCATGGCGCATCGTTGCTGCTGTCTCACAGGGTGCCCTGCGTGAGGAAGGG  
AGGCATAAGGTTACCGTCAACGGCCACTCCTACTTCAACCTGGTGCTGATCACC  
AACGTCCGGCGGGGCCGGCGACGTGCACGCGGTGTCGATCAAGGGGTCCAAGACA  
GGGTGGCAGAGCATGTCGCGCAACTGGGGCCAGAACTGGCAGAGCAACTCCTAC  
CTCGACGGGCAGAGCCTCTCCTCCAGGTGACGACCGGGCGACGGGAGCACGGTC  
ACCAGCTACAACGTCGCGCCCCGCCGGGTGGCAGTTCGGGCAGACCTTCGAGGGA  
GGGCAGTTGTAGAGACCTCGCGGCTTCGAGAGGGAAGGAAGGGAAGGCTGCTTC  
TTAGGCAGAGGCGTTGGCTTGGTGGATCGCAGAGGTTGTTTCATTAGCGCCCGC  
TGAGGCGTACATATGTCGATGACTATTGCAGAGATTGTAGCAGTACACGATTCAG  
GATGAGTGGATCGTGACAGCAAGCCAATTAAGGCCACGCTAGCATATTTTTTAC  
AAGGCTTTGAATAGGAAGAAGGTCGTATAGATTTTCATATTTGTA ACTATAGCTAG  
CATATTTTATTTAAACGAAATAATATATGTTGCT