

## IDENTIFICATION

**Species:** *Musa acuminata*

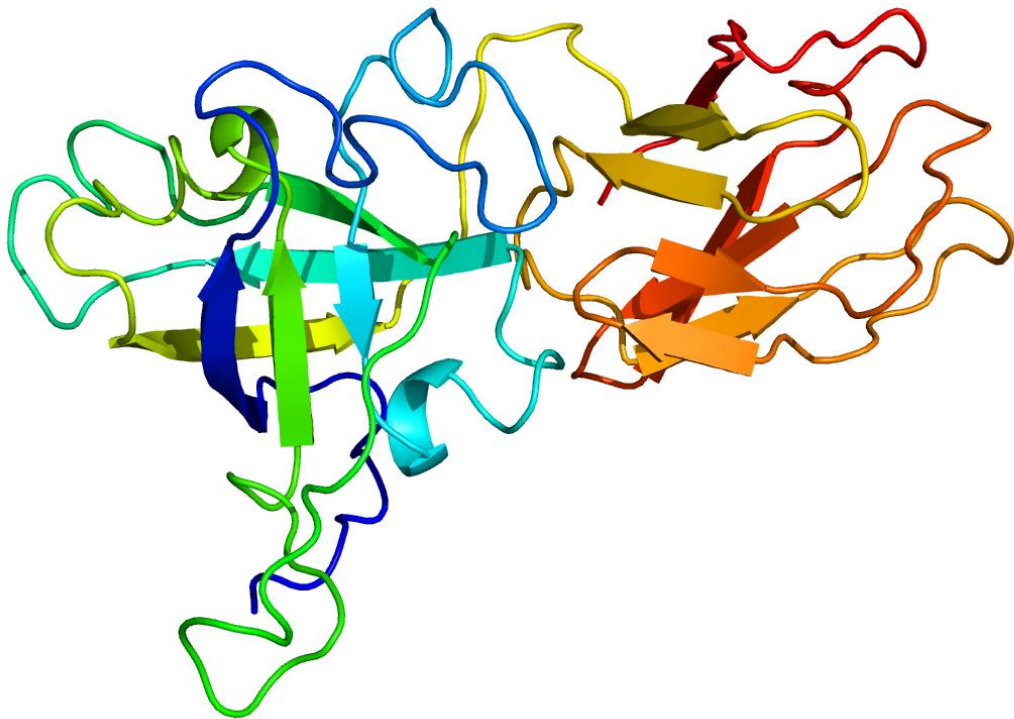
**Locus:** GSMUA\_Achr10P22630\_001

**Gene Model:** GSMUA\_Achr10P22630\_001

**Description:** MacEXPA-30

**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)

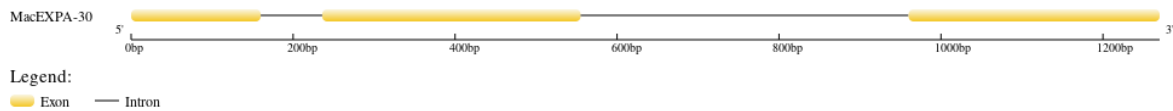
KEGG: <https://www.genome.jp/entry/T03447>

## EXTERNAL RESOURCES

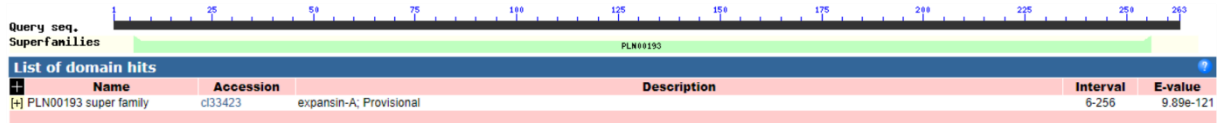
<https://banana-genome-hub.southgreen.fr/>

<https://musabase.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>MacEXPA-30

MASICSAVAATVALVLASSALLADARIPGVYTGQWQSAHATFYGGSDASGTMGGA  
CGYGNLYSQGYGVETAALSTALFNDGLSCGACFEIKCADDPRWCKGGSPSIFITATNF  
CPPNYALPSDDGGWCNPPRPHFDLAMPMLKIAEYRAGIVPVSYRRVPCRKSGGIRFT  
INGFQYFNLVLITNVAGAGDIIRATVKGSRTGWMPMSRNWQNWQSNAALVGQSL  
FRVTGSDHRTSTSWNIAPATWQFGQTFSGKNFRV\*

### CDS (coding sequence)

>MacEXPA-30

ATGGCTTCGATCTGCAGCGCCGTGGCCGCGACGGTCGCCCTCGTCCTCGCGTCGT  
CCGCGCTCCTCGCCGACGCTCGCATCCCCGGCGTATACACCGGCGGCCAGTGGCA  
GAGCGCCCACGCCACCTTCTACGGTGGCAGCGATGCCTCCGGCACCATGGGCGGG  
GCGTGTGGGTACGGGAACCTCTACAGCCAGGGGTACGGGGTGGAGACGGCGGGC  
CTGAGCACGGCGCTGTTCAACGACGGGCTCAGCTGTGGGGCGTGCTTTGAGATCA  
AGTGCGCGGACGATCCCCGGTGGTGCAAGGGCGGCAGCCCTTCCATCTTCATCAC  
GGCCACCAACTTCTGCCCCCCTCACTACGCTCTCCCCTCCGATGACGGCGGCTGG  
TGCAACCCGCCCCGCCCTCACTTCGACCTCGCCATGCCCATGTTCCCTCAAGATCGC  
CGAGTACCGCGCCGGCATTGTCCCCGTCTCCTACCGCAGGGTGCCGTGCAGGAAG  
TCGGGCGGGATACGGTTCACCATCAACGGCTTCCAGTACTTCAACCTGGTGCTCA  
TCACCAACGTGGCCGGCGCCGGCGACATCATCCGCGCCACCGTGAAGGGCTCCCG  
CACCGGGTGGATGCCCATGTCCCGCAACTGGGGCCAGAACTGGCAGTCCAACGC  
CGCCCTCGTCGGCCAGTCCCTCTCCTTCCGCGTACCGGCAGCGACCACCGCACCC  
TCCACCTCCTGGAACATCGCCCCCGCCACCTGGCAGTTCGGCCAGACCTTCTCCG  
GCAAGAACTTCCGGGTCTGA

### Nucleotide

>MacEXPA-30

ATGGCTTCGATCTGCAGCGCCGTGGCCGCGACGGTCGCCCTCGTCCTCGCGTCGT  
CCGCGCTCCTCGCCGACGCTCGCATCCCCGGCGTATACACCGGCGGCCAGTGGCA  
GAGCGCCCACGCCACCTTCTACGGTGGCAGCGATGCCTCCGGCACCATGGGTACG  
TACCTGCCCTCGCTCGATCTCTCCCCGCCACCCACCTGCATTTCCGCTGGTTCATG  
GGCTGGTTGTTCGACGGCGGGGCGTGTGGGTACGGGAACCTCTACAGCCAGGGGT

ACGGGGTGGAGACGGCGGGCGCTGAGCACGGCGCTGTTCAACGACGGGCTCAGCT  
GTGGGGCGTGCTTTGAGATCAAGTGCGCGGACGATCCCCGGTGGTGCAAGGGCG  
GCAGCCCTTCCATCTTCATCACGGCCACCAACTTCTGCCCCCAACTACGCTCTC  
CCCTCCGATGACGGCGGGTGGTGCAACCCGCCCCGCCCTCACTTCGACCTCGCCA  
TGCCCATGTTCCCTCAAGATCGCCGAGTACCGCGCCGGCATTGTCCCCGTCTCCTAC  
CGCAGGTACAGTCACGCACGCCCTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCG  
CCTTCCTCTGGTACGCACTTGATCCATGAGAGCATTCAATGGTCCTTCGCTCTTCA  
CCACATGACATGTTCTCCTACCGCACCACACCAAATCTGGCCCCGCCCGTGACTCC  
TCTGCCTCTCTCTCTCTCTCTCTCTCGCACTAACGCGTCGCGAAACCGCGTGAATC  
ATGGGAGACCGAGGGCGAGACTGCGGGCACTTGCCCCACGCACCCTTGACAGAA  
CATGAATACCTCGGCCACCGCCACTGTTCTGCCATGTTCCGCTGTCCCCCGTTG  
TGGCGGTGCAGCGTCTCGAGCGTTTGGACGTCTTGATGTGATGCACACGCCACCA  
AACATTGCCGTTTCTTGTGCAGGGTGCCGTGCAGGAAGTCGGGGCGGGATACGGTT  
CACCATCAACGGCTTCCAGTACTTCAACCTGGTGCTCATCACCAACGTGGCCGGC  
GCCGGCGACATCATCCGCGCCACCGTGAAGGGCTCCCGCACCGGGTGGATGCC  
ATGTCCCGCAACTGGGGCCAGAACTGGCAGTCCAACGCCGCCCTCGTCGGCCAGT  
CCCTCTCCTTCCGCGTCACCGGCAGCGACCACCGCACCTCCACCTCCTGGAACAT  
CGCCCCGCCACCTGGCAGTTCGGCCAGACCTTCTCCGGCAAGAACTTCCGGGTC  
TGA