

## IDENTIFICATION

**Species:** *Musa acuminata*

**Locus:** GSMUA\_Achr2P16370\_001

**Gene Model:** GSMUA\_Achr2P16370\_001

**Description:** MacEXPA-08

**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)

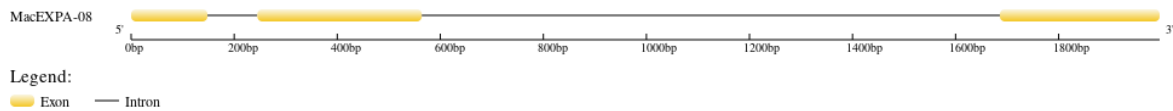
KEGG: <https://www.genome.jp/entry/T03447>

## EXTERNAL RESOURCES

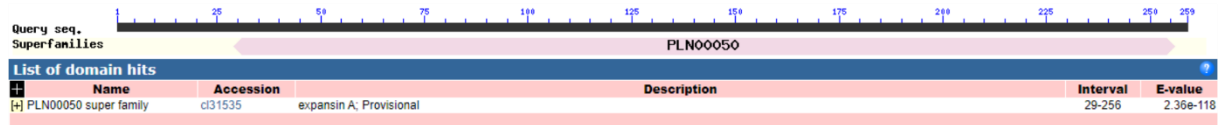
<https://banana-genome-hub.southgreen.fr/>

<https://musabase.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>MacEXPA-08

MALASFVSLASLLALLAPAAGRIPGVYTTGGQWQSAHATFYGGSDASGTMGGACGY  
GNLYSQGYGVQTAALSTALFNEGQSCGSCFEIKCADDPRWCHGGSPSIFITATNFCPP  
NYALPSDNNGWCNPPRPHFDLSMPMFLKIAEYRAGIVPVSFRRVPCRKSGGIRFTING  
FQYFNLVLITNVAGAGDLVRASVKGSRTIEWPMSRNWGQNWQSNVVLVGQSLSFR  
VTGSDRRTSTSWNIVPSTWEFGQTFEGKNFRV\*

### CDS (coding sequence)

>MacEXPA-08

ATGGCGTTGGCCTCCTTCGTCTCCCTCGCCTCACTCCTGGCCCTCCTGGCGCCGGC  
GGCTGGGCGCATTCCC GGCGTCTACACTGGCGGTCAGTGGCAGAGCGCCCACGCC  
ACCTTCTACGGCGGCAGTGACGCGTCCGGCACCATGGGAGGGGCGTGTGGGTAC  
GGGAATCTGTACAGCCAGGGGTACGGGGTGCAGACGGCGGGCGCTGAGCACGGCG  
CTGTTCAACGAGGGGCAGAGCTGCGGGTTCGTGCTTCGAGATCAAGTGCGCGGAC  
GACCCGCGGTGGTGCCACGGCGGGAGCCCCTCCATCTTCATCACTGCTACCAACT  
TCTGCCCCGCCAACTACGCTCTCCCCTCCGACAACGGCGGGTGGTGCAACCCACC  
ACGCCCCCACTTCGACCTCTCCATGCCATGTTCCCTCAAGATCGCCGAGTACCGC  
GCTGGCATCGTACCCGTCTCCTTCCGAAGGGTCCCTTGCAGGAAATCCGGTGGGA  
TCCGCTTACGATCAACGGGTTCAGTACTTCAACCTGGTGCTGATCACC AACGT  
GGCGGGCGCCGGCGACCTCGTCCGCGCCAGCGTGAAAGGGTCCCGCACCGAGTG  
GATGCCCATGTCCC GCAACTGGGGCCAGAACTGGCAGTCCAACGCCGTCCCTCGTC  
GGCCAGTCCCTCTCCTTCCGCGTCAACGGCAGCGACCGCCGCACCTCCACCTCCT  
GGAACATCGTCCCCTCCACCTGGGAGTTCGGCCAGACCTTCGAGGGCAAGAACTT  
CCGCGTCTGAA

### Nucleotide

>MacEXPA-08

ATGGCGTTGGCCTCCTTCGTCTCCCTCGCCTCACTCCTGGCCCTCCTGGCGCCGGC  
GGCTGGGCGCATTCCC GGCGTCTACACTGGCGGTCAGTGGCAGAGCGCCCACGCC  
ACCTTCTACGGCGGCAGTGACGCGTCCGGCACCATGGGTAAAGCCACATTCCTATG  
ATAGTCACCGATCTCTTGCGTCCAGCCTCGAACGAAGCGGGGAGTGACGACGTTT  
GTGTGCCGGATGCTGGGTTTGCAGGAGGGGCGTGTGGGTACGGGAATCTGTACA

GCCAGGGGTACGGGGTGCAGACGGCGGGCGCTGAGCACGGCGCTGTTCAACGAGG  
GGCAGAGCTGCGGGTTCGTGCTTCGAGATCAAGTGCGCGGACGACCCGCGGTGGT  
GCCACGGCGGGAGCCCCTCCATCTTCATCACTGCTACCAACTTCTGCCCCGCCAA  
CTACGCTCTCCCCTCCGACAACGGCGGGTGGTGCAACCCACCACGCCCCACTTC  
GACCTCTCCATGCCATGTTCTCAAGATCGCCGAGTACCGCGCTGGCATCGTAC  
CCGTCTCCTTCCGAAGGTATTCCTCCTTTTTGTAGAGCTCCTCTGCTCGGATCTTCA  
TCGTTTGATCTTTACGATGCGTGTAGATTCATGCTGGTTTCGATCTGTGCTCTTAG  
AATTGGCCTTAAAAGACGCCCTAAACATGGAACCATTATTTGTGAAATAATTAC  
GAACGCGTCCATCTTACGCGCATGGATTACGCGACGATGTGGCTGCGTATGGGGC  
GTTGGATGGGAAGCCTCCAATGTAAAGGGGCTTTACGCTCCTATGCGACATTTG  
ATCCCGCGACATCTTTCCCCTAAATGGTATCCTTCTCGTGGCATCAATTCCACCTT  
CTTCAGTACTGCTTTCCAATGTCCTCATAATCGCTTAAACTTCGTGTGCTTTGTGC  
GATTCACTCATCCTCTTTCCTTTATTTTACTTATTTTTCTCCATGCAATGACATCCT  
TCTTTGGCTGTGTTGTTTTGGGTAGAGATTCCGGTTCCTTTCCCTATCAAAAGTTC  
ACTTTCCAGAATTGTTCCACAGTGTGTTGAATTGACGAGAGTGCCACTCTCGTCA  
ATATTCTTCGGTCTCCGACGCCTGGTTTAGGACACCGGACAATATATTCAGGAT  
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GGCGCCGGCGACCTCGTCCGCGCCAGCGTGAAAGGGTCCCGCACCGAGTGGATG  
CCCATGTCCCGCAACTGGGGCCAGAACTGGCAGTCCAACGCCGTCTCGTCCGGCC  
AGTCCCTCTCCTTCCGCGTCACCGGCAGCGACCGCCGCACCTCCACCTCCTGGAA  
CATCGTCCCCTCCACCTGGGAGTTCGGCCAGACCTTCGAGGGCAAGAACTTCCGC  
GTCTGA