

## IDENTIFICATION

**Species:** *Musa acuminata*

**Locus:** GSMUA\_Achr11P23660\_001

**Gene Model:** GSMUA\_Achr11P23660\_001

**Description:** MacEXPA-35

**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

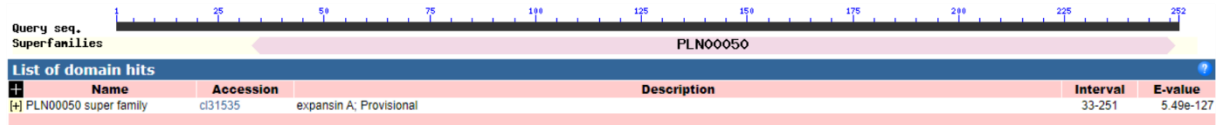
<https://banana-genome-hub.southgreen.fr/>

<https://musabase.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>MacEXPA-35

MAIPRFSLSDALFLLFSSSCFLARGTLGDSYDWQSAHATFYGGGDASGTMGGACGYG  
DLYSQGYGTNTAALSTALFNDGLSCGSCYELKCDDDPWCLPGSIVITATNFCPPNY  
ALPSDDGGWCNPPRPHFDMAEPAFLQIAQYRAGIVPVAFRRQKGGVRFTHINGHSYFN  
LVLITNVAGAGDVCAVSIKGSRTGWQVMSRNWQNWQSNAYLDGQSLSFQVTTSD  
GRTITSYDVVPTDWQFGQTFEGGQF\*

### CDS (coding sequence)

>MacEXPA-35

ATGGCCATCCCCAGGTTCTCTCTCTCCGACGCGCTCTTTCTTCTCTTCTCTTCCTCG  
TGCTTCCTCGCCCGAGGAACGCTGGGTGACTCTTACGATTGGCAGAGCGCGCATG  
CGACGTTCTATGGTGGCGGCGACGCCTCTGGTACAATGGGAGGTGCTTGTGGGTA  
TGCGGATCTCTACAGTCAAGGTTACGGCACGAACACCGCCGCCCTGAGCACGGCC  
CTTTTCAATGACGGGCTGAGCTGCGGGTCGTGTTACGAGCTGAAGTGCGACGATG  
ACCCGCGGTGGTGCCTGCCGGGCTCGATCGTGATCACTGCCACCAACTTTTGCCC  
CCAAACTACGCTCTTCCAGCGATGATGGAGGGTGGTGAATCCTCCTCGCCCG  
CACTTCGACATGGCCGAGCCGGCGTTTCTGCAAATCGCTCAGTACCGGGCTGGGA  
TCGTGCCGGTAGCCTTCAGAAGGCAAAAAGGAGGCGTCAGGTTACCATCAATG  
GCCACTCCTACTTCAACCTGGTCTTGATCACCAACGTGGCGGGCGCCGGCGACGT  
ATGTGCGGTCTCCATCAAGGGTCCCGGACCGGGTGGCAGGTGATGTCCCGAAC  
TGGGGCCAGAACTGGCAGAGCAACGCGTATCTCGATGGCCAAAGCCTCTCCTTCC  
AAGTTACCACCAGCGACGGCCGGACCATCACCAGCTACGATGTCGTGCCACCGA  
TTGGCAGTTCGGCCAGACCTTCGAAGGAGGACAATTTTAG

### Nucleotide

>MacEXPA-35

ATGGCCATCCCCAGGTTCTCTCTCTCCGACGCGCTCTTTCTTCTCTTCTCTTCCTCG  
TGCTTCCTCGCCCGAGGAACGCTGGGTGACTCTTACGATTGGCAGAGCGCGCATG  
CGACGTTCTATGGTGGCGGCGACGCCTCTGGTACAATGGGTGAGTGCTTCTTGCT  
GCTGCTCGCGGACGCATGGATCCTTTTTTATCTGATGAGACATGGATTGCTTTTTG  
TCATGTAGGAGGTGCTTGTGGGTATGGCGATCTCTACAGTCAAGGTTACGGCACG  
AACACCGCCGCCCTGAGCACGGCCCTTTTCAATGACGGGCTGAGCTGCGGGTCTG

GTTACGAGCTGAAGTGCGACGATGACCCGCGGTGGTGCCTGCCGGGCTCGATCGT  
GATCACTGCCACCAACTTTTGCCCCCAAACACGCTCTTCCCAGCGATGATGGA  
GGGTGGTGCAATCCTCCTCGCCGCACTTCGACATGGCCGAGCCGGCGTTTCTGC  
AAATCGCTCAGTACCGGGCTGGGATCGTGCCGGTAGCCTTCAGAAGGCAAGTGA  
AATCATTCGCCAGACTCACATGCACGAACAGCGGTAACCTGATGATGTCTATGGTT  
GCCTACTTGGCAGGGTGCCATGCGCGAAGAAAGGAGGCGTCAGGTTCACCATCA  
ATGGCCACTCCTACTTCAACCTGGTCTTGATCACCAACGTGGCGGGCGCCGGCGA  
CGTATGTGCGGTCTCCATCAAGGGCTCCCGGACCGGGTGGCAGGTGATGTCCCGG  
AACTGGGGCCAGA ACTGGCAGAGCAACGCGTATCTCGATGGCCAAAGCCTCTCCT  
TCCAAGTTACCACCAGCGACGGCCGGACCATCACCAGCTACGATGTCGTGCCAC  
CGATTGGCAGTTCGGCCAGACCTTCGAAGGAGGACAATTTTAGCTCTTCCATCCA  
CTCTCACT  
TTGCCGAGGTTGCTTCGGTAGCACCCGCTAAGGCTCTACCGCAGACGAATAGATA  
GCCCTCTTTGGTGCTACTCCTCCTAAACATAATTTGCCTTATGGATATTGGCTTGT  
GGGAAGGCCTTATCAAGCCACATGTATTAATTTGTAACCTTCGTTTGCATTCTATGT  
GCATGAATGTTTTCTA