

IDENTIFICATION

Species: *Musa acuminata*

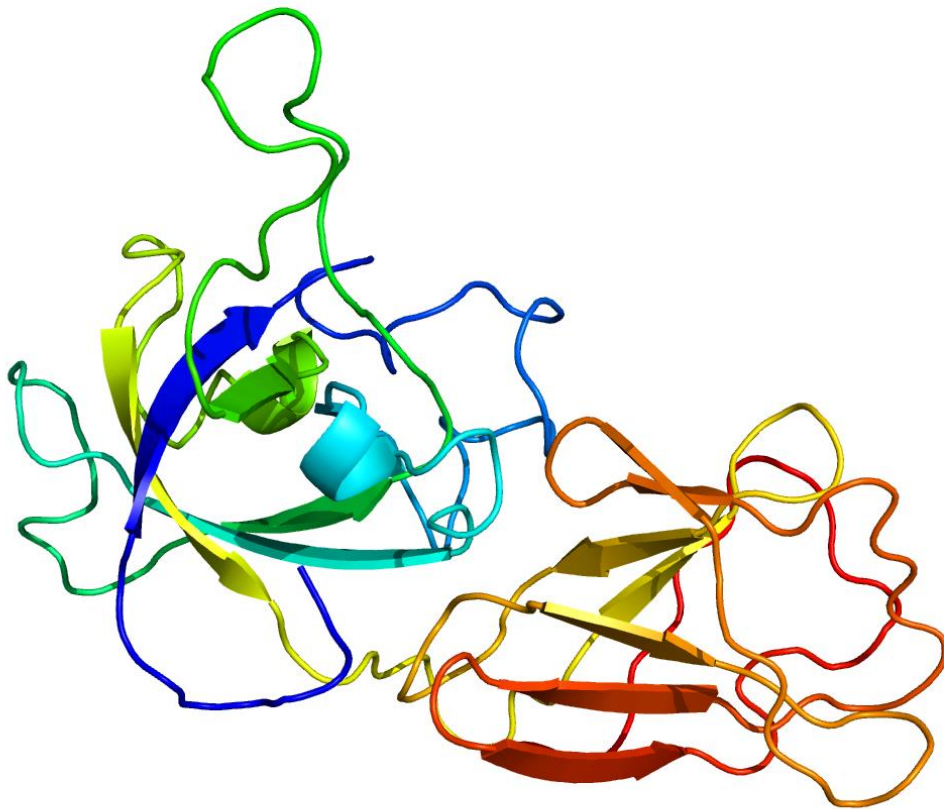
Locus: GSMUA_Achr4P21540_001

Gene Model: GSMUA_Achr4P21540_001

Description: MacEXPA-12

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

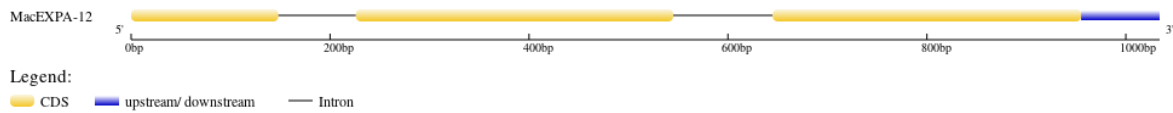
KEGG: <https://www.genome.jp/entry/T03447>

EXTERNAL RESOURCES

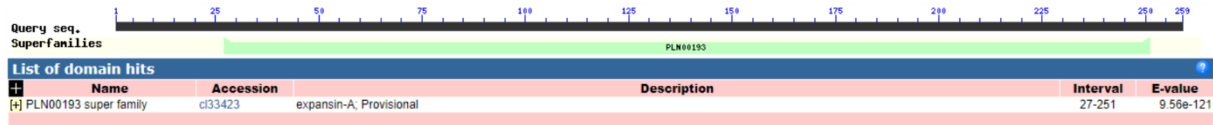
<https://banana-genome-hub.southgreen.fr/>

<https://musabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MacEXPA-12

MAMASFVPVVSLLALLAPAAGRIPGVYTTGGQWQSAHATFYGGSDASGTMGGACGY
GNLYSQGYGVETAALSTALFNEGQSCGACFEIKCAEDPQWCHRGPSIFITATNFCPP
NYALPSDDGGWCNPPRPHFDLAMP AFLKIAEYRAGIVPVSFRRVPCRKSGGIRFTIHG
FKYFNLVLITNVAGAGDIVRVS VKGSRTGWMPMSRNWQNWQSNVAVLVGESLSFR
VTGSDRRTSTSWNIVPSTWQFGQTFEGKNFRV*

CDS (coding sequence)

>MacEXPA-12

ATGGCGATGGCCTCCTTCGTCCCTGTCGTCTCCCTCCTTGCCCTCTTGGCGCCTGC
GGCGGGGCGCATTCCCGGCGTCTACACCGGCGGCCAGTGGCAGAGCGCCACGC
CACCTTCTACGGCGGCAGCGACGCGTCCGGCACCATGGGAGGGGCGTGTGGGTA
CGGGAACCTCTACAGCCAGGGATACGGGGTCGAGACGGCAGCGTTGAGCACGGC
GCTGTTCAACGAGGGGCAGAGCTGCGGGGCGTGCTTCGAGATCAAGTGCGCGGA
GGACCCGCAGTGGTGCCACCGCGGGAGCCCCTCCATCTTCATCACCGCCACCAAC
TTCTGCCCCGCCAACTATGCGCTCCCCTCCGACGACGGCGGGTGGTGCAACCCGC
CCCGCCCCCACTTCGACCTCGCCATGCCTGCGTTCCTCAAGATCGCCGAGTACCG
GGCCGGGATCGTCCCCGTCTCCTTCCGAAGGGTGCCGTGCAGGAAATCCGGGGGG
ATCCGGTTCACCATCCACGGCTTCAAGTACTTCAACCTGGTGCTGATACCAACG
TGGCGGGCGCCGGCGACATCGTCCGGGTCAGCGTGAAGGGGTCGCGCACCGGTT
GGATGCCCATGTCCCGCAACTGGGGCCAGA ACTGGCAGTCCAACGCCGTCTCTCGT
CGGCGAATCCCTCTCCTTCCGCGTCACCGGCAGCGACCGCCGCACCTCCACTTCTT
GGAACATCGTCCCTTCCACTTGGCAGTTCGGCCAGACCTTCGAGGGCAAGAACTT
CCGCGTCTAA

Nucleotide

>MacEXPA-12

ATGGCGATGGCCTCCTTCGTCCCTGTCGTCTCCCTCCTTGCCCTCTTGGCGCCTGC
GGCGGGGCGCATTCCCGGCGTCTACACCGGCGGCCAGTGGCAGAGCGCCACGC
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CGTGGTCGCCACGAACGAAGCCAGAGCTGACGGGATTTGTGTGTGGTTGATGGGT
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AGACGGCAGCGTTGAGCACGGCGCTGTTCAACGAGGGGCAGAGCTGCGGGGCGT
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CATCGTCGATTGATCCTCGGGATCCGTGCAACCCATGGCAGGGTGCCGTGCAGGA
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GATCACCAACGTGGCGGGCGCCGGCGACATCGTCCGGGTCAGCGTGAAGGGGTC
GCGCACCGGTTGGATGCCCATGTCCCGCAACTGGGGCCAGA ACTGGCAGTCCAAC
GCCGTCCTCGTCGGCGAATCCCTCTCCTTCCGCGTCACCGGCAGCGACCGCCGCA
CCTCCACTTCCTGGAACATCGTCCCTTCCACTTGGCAGTTCGGCCAGACCTTCGAG
GGCAAGAACTTCCGCGTCTAACACTGCAACTCGAATGCTGCTCCACTCTCCTTCT
TTAGTGACATGGAGGTGGCTGTCTGTGTGTGCGTCAGAGACTT