

IDENTIFICATION

Species: *Musa acuminata*

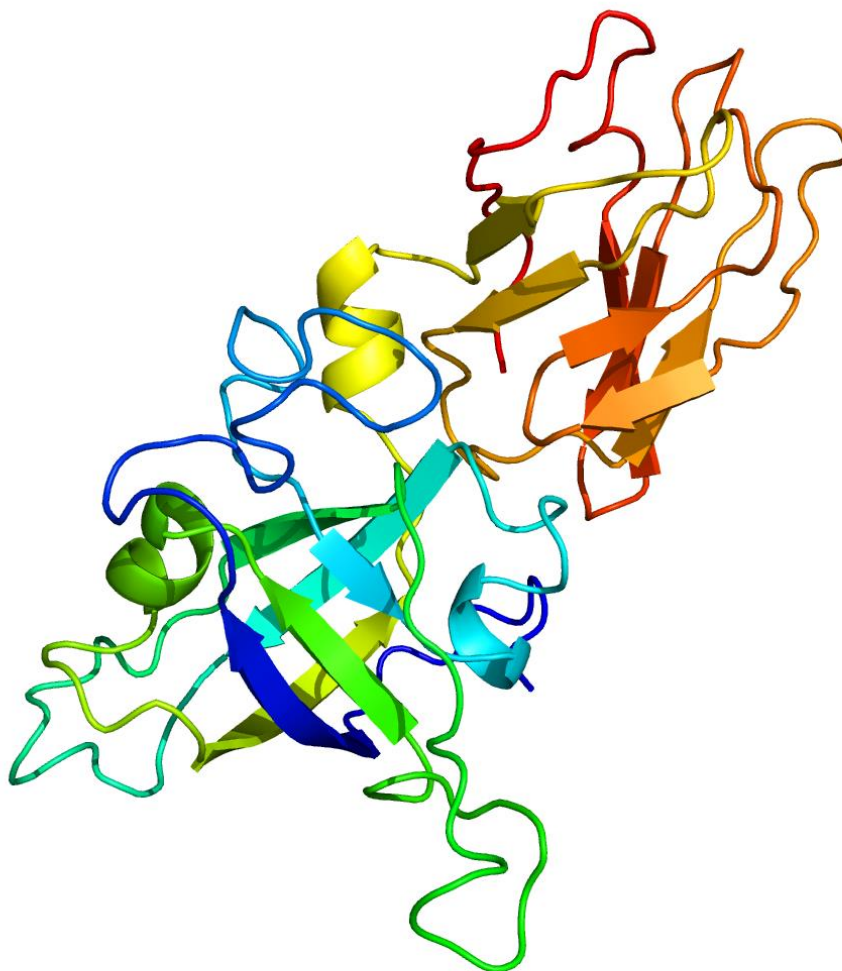
Locus: GSMUA_Achr9P28320_001

Gene Model: GSMUA_Achr9P28320_001

Description: MacEXPA-28

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

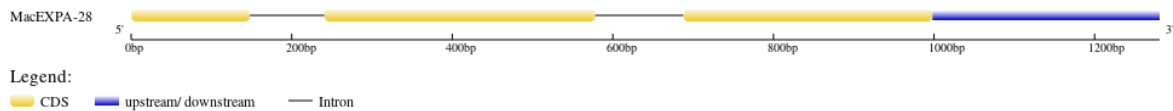
KEGG: <https://www.genome.jp/entry/T03447>

EXTERNAL RESOURCES

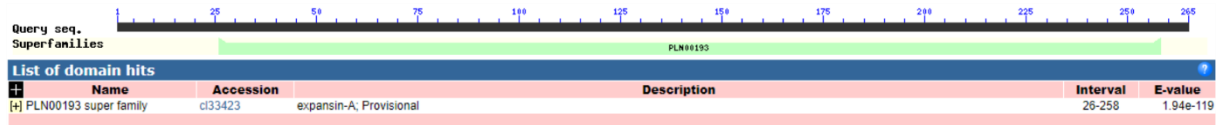
<https://banana-genome-hub.southgreen.fr/>

<https://musabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MacEXPA-28

MALVSLVYFAALLALLPPVLGRIPGAYTGSPWQSAHATFYGGSDASGTMGGACGYG
NLYSQGYGVQTAALSTALFNEGQSCGACFEIKCADDLRWCHGGSPSIFITATNFCPPN
YALPNDNGGWCNPPRPHFDLSMPMFLKIAEYRAGIVPVSYRRHAFAPLVPCRKSGGI
RFTINGFNYNLVLITNVAGAGDIIRASVKGSRTGWMPMSRNWQNWQSNVAVLVGQ
SLSFRVTGSDRRTSTSWNIVPSNWQFGQTFQGNFRV*

CDS (coding sequence)

>MacEXPA-28

ATGGCGTTGGTCTCCCTTGTCTATTTTCGCAGCCCTTCTGGCGCTTCTTCCGCCGGT
GCTAGGGCGCATTCCC GGCGCCTACACGGGTAGCCCGTGGCAGAGTGCCCATGCC
ACCTTCTACGGCGGCAGCGACGCGTCCGGCACCATGGGCGGGGCGTGTGGGTAT
GGGAATCTGTACAGCCAGGGGTACGGGGTGCAGACGGCAGCTCTGAGCACGGCG
TTGTTTAACGAGGGGCAGAGCTGCGGGGCGTGCTTCGAGATCAAGTGCGCGGAC
GACCTCCGTTGGTGTACGGCGGGAGCCCTCCATCTTCATCACCGCCACCAACT
TCTGCCCCGCCAACTACGCTCTCCCAACGACAACGGCGGGTGGTGCAACCCGCC
CCGCCCCACTTCGACCTCTCCATGCCATGTTCCTCAAGATCGCCGAATACCGCG
CCGGCATCGTCCCGTCTCCTACCGAAGGCACGCCTTCGCCCTTTGGTCCCGTGC
AGGAAATCCGGAGGGATCCGGTTCACCATCAACGGGTTCAACTACTTCAACCTGG
TGCTGATCACC AACGTGGCAGGCGCCGGTGACATCATCCGCGCCAGCGTCAAGG
GCTCCCGCACCGGGTGGATGCCCATGTCCCGCAACTGGGGCCAGAACTGGCAGTC
CAACGCCGTCTCGTCCGCCAGTCCCTCTCCTTCCGCGTACCGGCAGCGACCGC
CGCACCTCCACCTCCTGGAACATCGTCCCTTCCAAC TGGCAGTTCGGCCAGACCTT
CCAGGGCAAGAACTTCCGTGTCTGA

Nucleotide

>MacEXPA-28

ATGGCGTTGGTCTCCCTTGTCTATTTTCGCAGCCCTTCTGGCGCTTCTTCCGCCGGT
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ATTCTTTGCCTATCTCTTGCTTTTCGCCTTGGGAGAAGCTGATGAGATTTATTTGG
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GGGTACGGGGTGCAGACGGCAGCTCTGAGCACGGCGTTGTTTAACGAGGGGCAG
AGCTGCGGGGCGTGCTTCGAGATCAAGTGC GCGGACGACCTCCGTTGGTGTCACG
GCGGGAGCCCCTCCATCTTCATCACCGCCACCAACTTCTGCCCCGCCAACTACGC
TCTCCCAACGACAACGGCGGGTGGTGAACCCGCCCCGCCCCACTTCGACCTC
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CTACCGAAGGCACGCCTTCGCCCCTTTGTTGCTTCACGCATTTATTCTCCTTTCTT
TATTTCTTGTACTCGTCGCAAGGCTATTTGTGTCGTCTATGTGTTTGATCGATTGA
CGGGGACCGGTGGGGGGGTACAGGGTCCCGTGCAGGAAATCCGGAGGGATCCG
GTTACCATCAACGGGTTCAACTACTTCAACCTGGTGCTGATCACCAACGTGGCA
GGCGCCGGTGACATCATCCGCGCCAGCGTCAAGGGTCCCGCACCGGGTGGATG
CCCATGTCCCGCAACTGGGGCCAGA ACTGGCAGTCCAACGCCGTCTCGTCGGCC
AGTCCCTCTCCTTCCGCGTCACCGGCAGCGACCGCCGCACCTCCACCTCCTGGAA
CATCGTCCCTTCCA ACTGGCAGTTCGGCCAGACCTTCCAGGGCAAGAACTTCCGT
GTCTGACCTCGGTGGCGGCATGTGTTTGTTGTTACTTGGGAGAGAGCTAAAGTAG
CTGCTTGATTGATGCAGCTGAGAGGTAAAAAGAGTGTGTTTGCGTGGGGAATAGA
ATCGGATGATAGTATATTATCCTCCGGTTAGCAGCAGTAGCAACAGCTGAAGTGG
CTGCAGAGCAGAAGAGTGTGTTGTAGCCCGCAGCAGCCTATATTATCTAAACAGT
CTGATAGTATAGTCCATGATGTTATTATCTATATGGTGTGTTGTGATGTATGACATC
TTTTAATCGATGA