

IDENTIFICATION

Species: *Manihot esculenta*

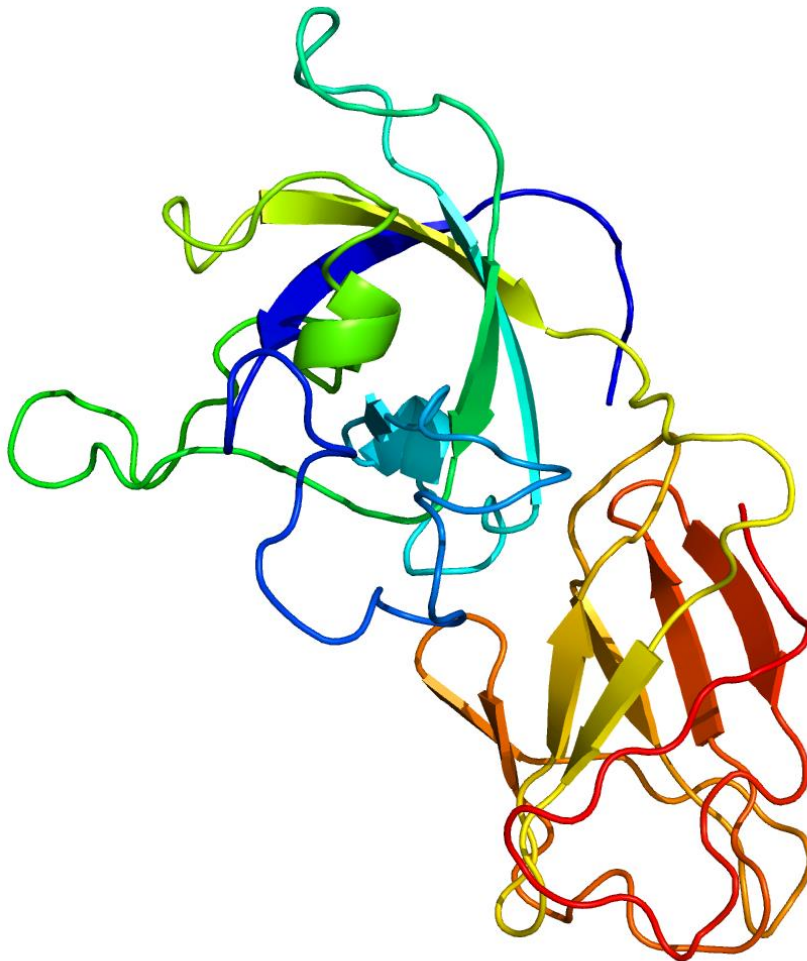
Locus: Manes.06G091300

Gene Model: Manes.06G091300.1

Description: MsEXPA-16

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Mesculenta_v7_1

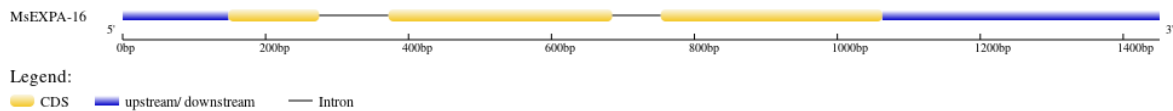
KEGG: <https://www.genome.jp/entry/T05761>

EXTERNAL RESOURCES

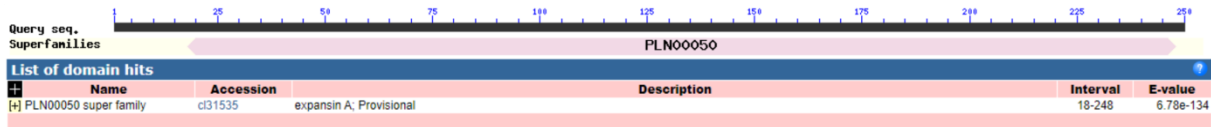
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPA-16

MAFAGLLFLGFLSLASFVSGDDGGWIDAHATFYGGGDASGTMGGACGYGNLYSQ
YGKDNAALSTALFNNGLSGACFEIKCRDDPQWCLPGSIVVTATNFCPPNNALPNNA
GGWCNPPLHHFDLAQPVERIAKFRAGIVPVSYRRIPCEKKGIRFTINGHSYFNLILIT
NVGGAGDIHAVSVKGSKTGWQPMSRNWQNWQSNAYLNGQSLSMVTTSDGRSA
VCNDVVPARWSFGQTFITDQQFD*

CDS (coding sequence)

>MsEXPA-16

ATGGCATTGCTGGGCTTCTTTTTCTGGGATTTCTTTCTTTAGCTTCATTCGTTTCT
GGGGATGATGGGGGCTGGATTGATGCTCATGCTACCTTCTATGGAGGTGGTGATG
CCTCTGGTACAATGGGTGGGGCTTGTGGGTATGGAAACCTATACAGCCAAGGTTA
CGGGAAAGACAATGCAGCTTTGAGCACAGCATTGTTCAACAATGGCTTGAGCTGT
GGAGCCTGTTTTGAAATAAAATGTAGGGATGACCCGCAGTGGTGCCTACCAGGCT
CAATTGTGGTTACAGCTACCAATTTCTGCCACCGAACAACGCCCTCCCTAACAA
TGCCGGAGGCTGGTGCAATCCTCCTCTGCATCATTTTGATCTCGCTCAGCCTGTCT
TCGAGCGAATTGCTAAGTTTAGAGCAGGGATTGTGCCCGTGTCTTATAGAAGGAT
ACCATGCGAGAAGAAAGGAGGAATAAGATTCACAATCAATGGGCACTCATACTT
CAACTTAATACTGATAACCAACGTTGGAGGTGCTGGCGATATTCATGCAGTTTCA
GTAAAAGGGTCAAAAAGTGGATGGCAACCCATGTCAAGAACTGGGGTCAAAC
TGGCAAAGCAACGCATACCTAACGGACAAAGCCTCTCGTTTATGGTGACAACCA
GTGATGGACGCTCTGCGGTCTGTAATGATGTAGTACCAGCTAGGTGGTCTGTTTGG
CCAGACCTTCATCACCAGTCAACAGTTTGATTAA

Nucleotide

>MsEXPA-16

TTTCTCACAAACAAATCCTTTCTCACTTTTCACTCGCAAATTAAGATTTAGCTGT
GAGTAAACAATTCATCTTCTACTTCTGGTTTTTTGAAGTGCCTAATTTATGTTGTT
TTGGGCTTATTAAGTGCTGTCTTTAATTCCAGGAAATGGCATTGCTGGGCTTCTT
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AACAATGGCTTGAGCTGTGGAGCCTGTTTTGAAATAAAATGTAGGGATGACCCGC
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GGACAAAGCCTCTCGTTTATGGTGACAACCAGTGATGGACGCTCTGCGGTCTGTA
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GTTTGATTAAATCTAAAGACCAAACCAACAATTGCTGTACAAGTCAATAAATGA
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CTGCTCTGCTATCTCTGAAAAGGCAGGCAGACTGGAAATTTAGCTGCGGTGGACA
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AGCAAATTTGGTTGGCCATGCAGCCGCTATTACCAGCCTTTTGCTGGTTGATGGC
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AATTTTGT