

IDENTIFICATION

Species: *Manihot esculenta*

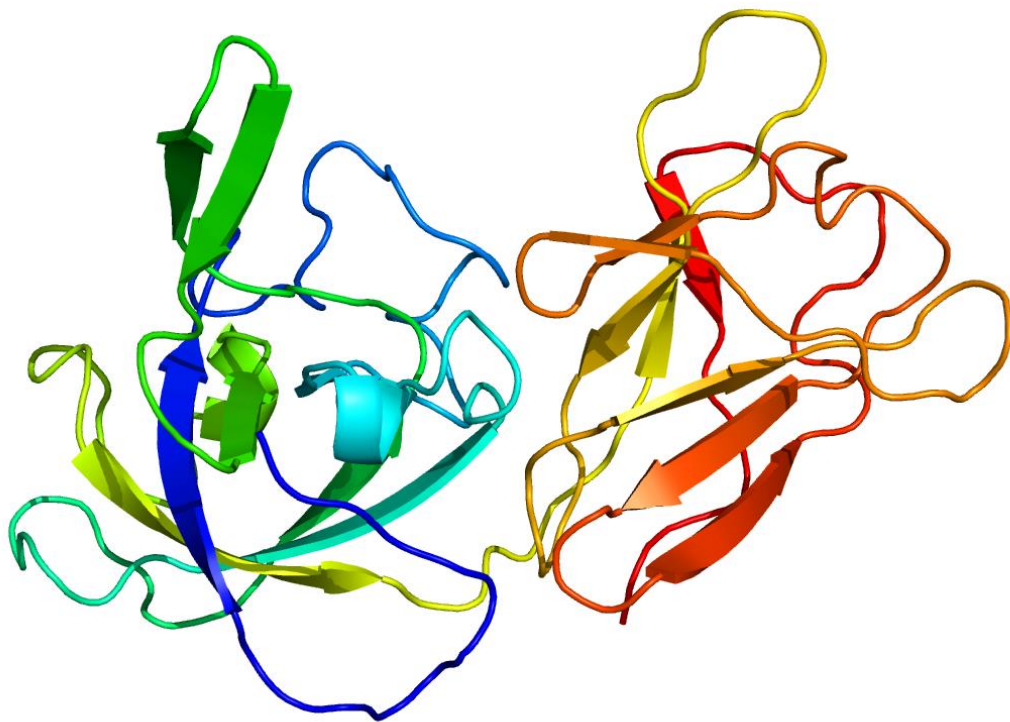
Locus: Manes.02G029700

Gene Model: Manes.02G029700.1

Description: MsEXPA-05

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

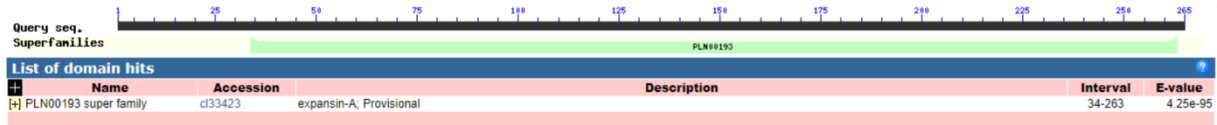
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPA-05

MGSVFHSRSISFFLIALLTSAFISTSTATGYTPVFQPSQWSLAHATFYGDETASATMGGA
CGYGNLFQNGYGTDTVALSTTLFNNGYACGSCYQIMCTQSPWCYKGVFATVAATNL
CPPNWSSEDSNNGGWCNPPRVHFDMSKPAFMKIAQWKAGIVPVMYRRVPCRRTDGL
RFSFQGNQYWLLVYVMNVGGGGDIANMWVKGSKTGWISMSHNWYGASYQAFATLG
GQALSFKITSYTTKETIYAWNVAPANWNVGLTYKSNVNFH*

CDS (coding sequence)

>MsEXPA-05

ATGGGTTCTGTTTTCCATTCACGGAGCATTAGCTTCTTCTTGATAGCATTAAACATC
AGCATTATCAGCACATCCACGGCTACAGGCTACACTCCCGTGTTCCAGCCTAGC
CAATGGTCTCTTGCTCATGCCACCTTTTATGGTGATGAGACTGCCTCGGCTACTAT
GGGAGGGGCTTGTGGGTATGGGAACCTGTTTTCAAATGGATATGGAACAGACAC
TGTTGCATTGAGCACAAACATTGTTCAACAATGGCTATGCTTGTGGGAGCTGCTAC
CAAATAATGTGTACGCAATCCCCATGGTGTTACAAAGGCGTATTTGCCACAGTGG
CTGCTACTAATCTTTGCCCTCCAAATTGGAGTGAGGATTCTAATAATGGTGGATG
GTGCAATCCTCCTAGAGTCCACTTCGACATGTCCAAGCCTGCTTTCATGAAAATTG
CCCAATGGAAGGCTGGCATTGTTCCAGTCATGTACCGTAGGGTGCCATGCAGAAG
AACAGATGGGCTTAGATTCTCATTCCAAGGAAATGGGTACTGGTTGTTGGTGTAT
GTGATGAACGTAGGAGGAGGTGGTGACATTGCCAACATGTGGGTGAAGGGAAGC
AAAACAGGATGGATCAGCATGAGCCATAACTGGGGAGCTTCTTACCAGGCATTTG
CTACACTTGGAGGACAGGCTCTATCTTTCAAGATCACTTCTTATAACAACCAAGGA
GACTATCTATGCTTGGAAATGTTGCTCCTGCAAACCTGGAACGTAGGCTTGACTTAT
AAGTCAAATGTGAACTTCCATTGA

Nucleotide

>MsEXPA-05

ATGGGTTCTGTTTTCCATTCACGGAGCATTAGCTTCTTCTTGATAGCATTAAACATC
AGCATTATCAGCACATCCACGGCTACAGGCTACACTCCCGTGTTCCAGCCTAGC
CAATGGTCTCTTGCTCATGCCACCTTTTATGGTGATGAGACTGCCTCGGCTACTAT
GGGTATAAATTAACCTTTCTTGAATTTATATCATTGATTTTGTAGTTCGATAGACT
GTATTCTCATTATTTTTGTTTTGTAATGGATGATATATAGGAGGGGCTTGTGGGTA
TGGGAACCTGTTCAAATGGATATGGAACAGACACTGTTGCATTGAGCACAAACA
TTGTTCAACAATGGCTATGCTTGTGGGAGCTGCTACCAAATAATGTGTACGCAAT

CCCCATGGTGTACAAAGGCGTATTTGCCACAGTGGCTGCTACTAATCTTTGCCCT
CCAAATTGGAGTGAGGATTCTAATAATGGTGGATGGTGCAATCCTCCTAGAGTCC
ACTTCGACATGTCCAAGCCTGCTTTCATGAAAATTGCCCAATGGAAGGCTGGCAT
TGTTCCAGTCATGTACCGTAGGTATGCCAACTTCTTGGAATTTATATTTGGGTG
TATTATGGATCGAGTATAGACAAGAATTATTCGAATTTCTCAGTGGATCACTTTC
TCATTTGATCAAGTGGCCGGAATATTTTTGCAGGGTGCCATGCAGAAGAACAGAT
GGGCTTAGATTCTCATTCCAAGGAAATGGGTACTGGTTGTTGGTGTATGTGATGA
ACGTAGGAGGAGGTGGTGACATTGCCAACATGTGGGTGAAGGGAAGCAAAACAG
GATGGATCAGCATGAGCCATAACTGGGGAGCTTCTTACCAGGCATTTGCTACACT
TGGAGGACAGGCTCTATCTTTCAAGATCACTTCTTATAACAACCAAGGAGACTATC
TATGCTTGGAATGTTGCTCCTGCAAACGTAGGCTTGACTTATAAGTCAA
ATGTGAACTTCCATTGATCACATTCAGCCACGACTCTCCCTTTATATTTGTTTT
TGTATGGGGGGAG