

IDENTIFICATION

Species: *Manihot esculenta*

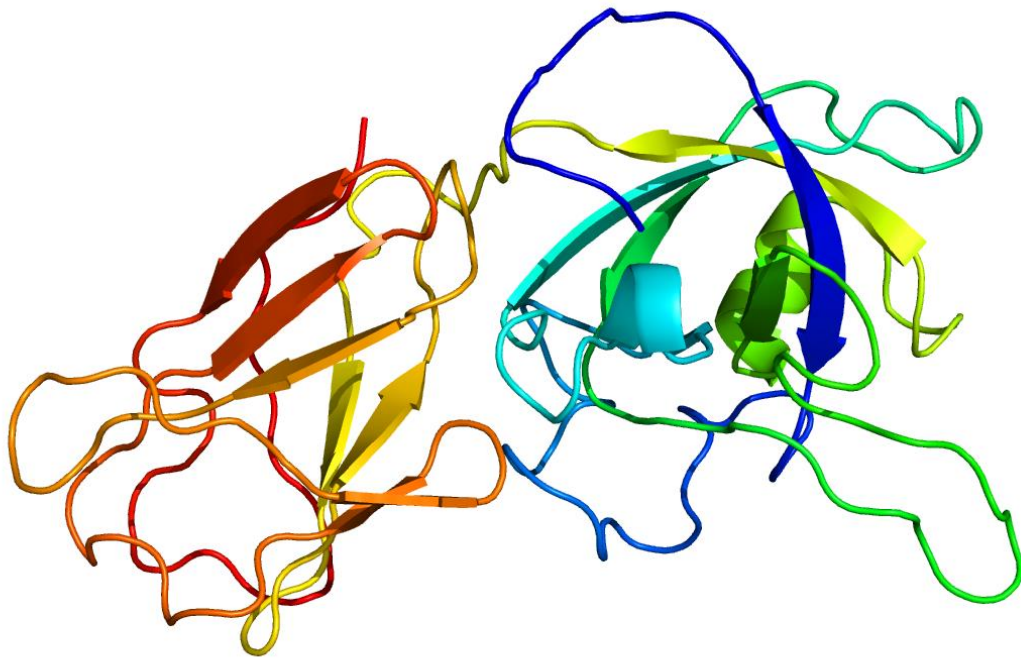
Locus: Manes.14G079900

Gene Model: Manes.14G079900.1

Description: MsEXPA-30

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

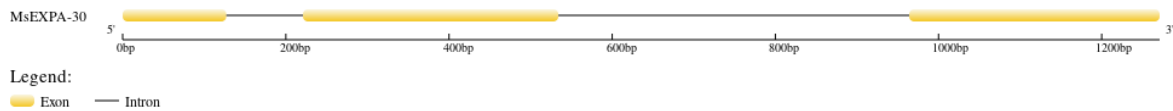
KEGG: <https://www.genome.jp/entry/T05761>

EXTERNAL RESOURCES

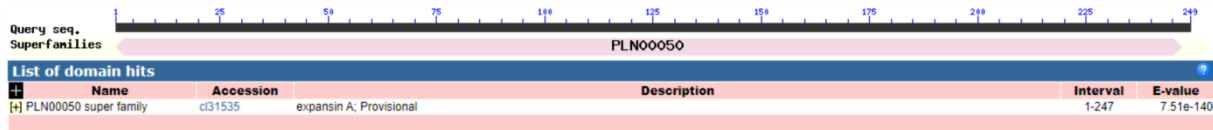
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPA-30

MAFAGLLFLGFFSLISLASGDDGGWLDAAHATFYGGGDASGTMGGACGYGNLESQGY
GRDSAALSTALFNGLSCGACFEIKCKDESKWCLPGSIVVTATNFCPPNNALPNNAG
GWCNPPQHFDLSQPVFQRIAQYKAGIVPVSYRRVPCQKKGIRFTINGHSYFNLVLI
TNVGGAGDVHAVSVKGSRTDWQPMSRNWQNWQSNLLTGQSLSFKVTTSDGRTV
VCNDVTPAGWSFGQTFTGPQFH*

CDS (coding sequence)

>MsEXPA-30

ATGGCATTGCTGGGCTTCTCTTTCTGGGATTTTTTTCTTTAATCTCACTCGCTTCA
GGGGATGATGGGGGTTGGCTTGATGCTCATGCTACCTTCTATGGAGGTGGCGATG
CCTCGGGTACAATGGGTGGTGTGTTGGGTATGGAAACCTTGAGAGCCAAGGTTA
TGGAAGAGACTCTGCAGCTTTGAGCACAGCCTTGTTCAACAATGGCTTGAGCTGT
GGAGCTTGTGTTGAAATAAAATGCAAAGATGAGTCAAAGTGGTGTCTGCCAGGGT
CTATAGTGGTGACAGCCACCAATTTCTGCCACCGAACAACGCCCTTCCTAACAA
TGCTGGAGGGTGGTGCAACCCTCCCCAGCATATTTTGATCTCTCTCAGCCTGTGT
TTCAACGAATTGCTCAATATAAAGCTGGGATTGTTCCCTGTATCTTATAGAAGGGT
ACCATGCCAAAAGAAAGGAGGAATAAGATTCACAATTAATGGCCACTCATACTT
CAACCTAGTCCTCATAACCAACGTTGGAGGAGCTGGTGATGTTTCATGCAGTTTCA
GTAAAAGGATCAAGAACCGATTGGCAACCCATGTCGAGAACTGGGGTCAAAC
TGGCAAAGCAATTCATTGTTGACCGGACAAAGCCTCTCGTTTAAGGTGACGACTA
GTGATGGGCGCACTGTGGTCTGCAACGATGTCACGCCTGCTGGGTGGTCCTTCGG
CCAGACCTTCACCGGCCACAGTTCCATTAA

Nucleotide

>MsEXPA-30

ATGGCATTGCTGGGCTTCTCTTTCTGGGATTTTTTTCTTTAATCTCACTCGCTTCA
GGGGATGATGGGGGTTGGCTTGATGCTCATGCTACCTTCTATGGAGGTGGCGATG
CCTCGGGTACAATGGGTATGTTGTAGCACCTGATCTTTGTTATTTAGCATGTTAAT
AGTGCACCTTTTTTTTCTACAAAATTGGTTGACCCTTTTTAAACTTCTGCAGGTG
GTGCTTGTGGGTATGGAAACCTTGAGAGCCAAGGTTATGGAAGAGACTCTGCAGC
TTTGAGCACAGCCTTGTTCAACAATGGCTTGAGCTGTGGAGCTTGTGTTGAAATA
AAATGCAAAGATGAGTCAAAGTGGTGTCTGCCAGGGTCTATAGTGGTGACAGCC
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ACCCTCCCAGCATCATTTTGATCTCTCTCAGCCTGTGTTTCAACGAATTGCTCAA
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GTCGTCAACATATGGAAATTTTATTCAAGTGGCCTTAATCCACGTGAACACATGC
AAGGAGGCTCTCTAGTCCTTTTTTATATTTTATTTTATTATTGTTTACAGTTTTA
GAGATGATCTGGCAATTTATTGCAAGAAAGTCTACTTGTTACCTCAGGTTTTTTTT
AACCCGAACTTTTTCCAAGTACTGGATCGATATAATTGGTTTTGTTAAAAAAGAA
GAATAGGATAAGGAATTTAAGCTTAGTTCCTATTTTCTGAAGGTTTTGGTTTTCTTT
CTTGCGTGACACTAATGCAGGGTACCATGCCAAAAGAAAGGAGGAATAAGATTC
ACAATTAATGGCCACTCATACTTCAACCTAGTCCTCATAACCAACGTTGGAGGAG
CTGGTGATGTTTCATGCAGTTTCAGTAAAAGGATCAAGAACCGATTGGCAACCCAT
GTCGAGAAACTGGGGTCAAACCTGGCAAAGCAATTCATTGTTGACCGGACAAAG
CCTCTCGTTTAAGGTGACGACTAGTGATGGGCGCACTGTGGTCTGCAACGATGTC
ACGCCTGCTGGGTGGTCCTTCGGCCAGACCTTACC GGCCACAGTTCCATTAA