

IDENTIFICATION

Species: *Manihot esculenta*

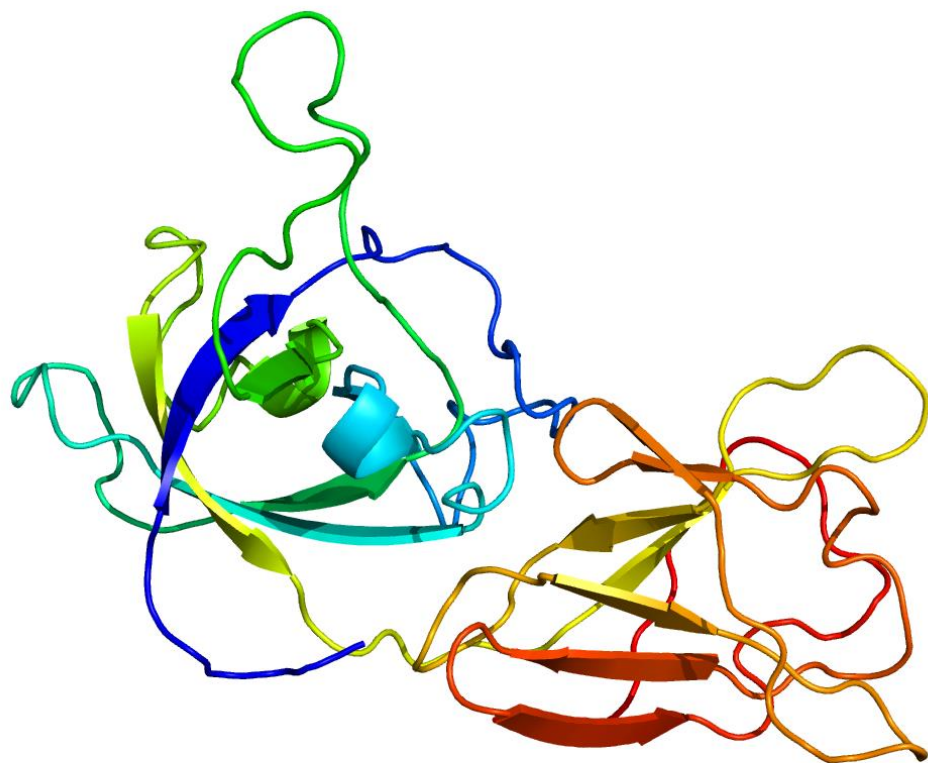
Locus: Manes.S069200

Gene Model: Manes.S069200.1

Description: MsEXPA-34

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

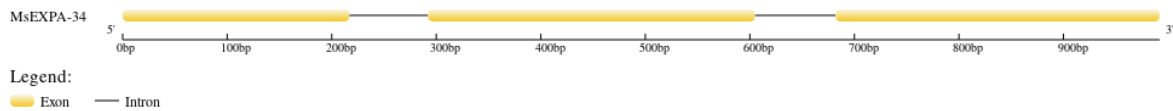
KEGG: <https://www.genome.jp/entry/T05761>

EXTERNAL RESOURCES

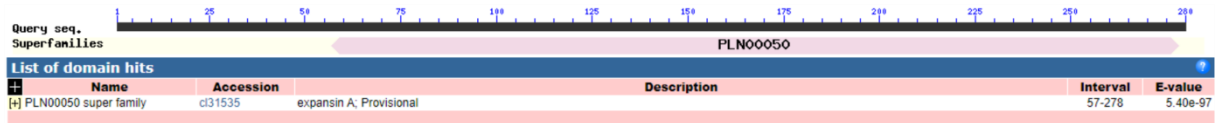
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPA-34

MASPLGALSAMLLLLVVALAKNCEATAMHSAIHAVRRRHGHKLKPIKINKPKFKPGL
WRKAHATFYEGGTGSFGGACNYKDVVQQGYNLNTVALSDVLFKKGKTCGACYEIQ
CVNSPKWCKKGSFVVTATNQCPSPSLPSDNGGWCNSPREHFDIKPVFNKIADYTA
GIVPIQYRRVPCQKKGIRFTIMGNPWFNQVIVWNVGGAGDVVSVQVKGNDNVKW
TKLQRDWGATWKTSTHLVGESLTFRVTTSDGRETSWHVAPKNWQFGQTYEGKNF
K*

CDS (coding sequence)

>MsEXPA-34

ATGGCGTCGCCTTTGGGAGCTCTTTCTGCCATGTTATTGCTTTTAGTTGTTGCACT
GGCTAAAAATTGCGAAGCAACGGCTATGCACTCTGCTATTCATGCTGTTTCGACGA
CATGGCCACAACTTAAACCTATCAAAATAAACAAGCCTAAGTTCAAGCCTGGGC
TATGGAGAAAAGCTCATGCCACCTTTTATGAAGGTGGCACTGGATCATTGGGAGG
AGCTTGTAACTATAAAGATGTTGTACAACAAGGCTACAACCTGAACACAGTAGCT
CTAAGCGACGTTTTATTCAAGAAAGGAAAGACTTGTGGTGCATGTTATGAAATAC
AGTGTGTCAATAGCCCTAAATGGTGCAAGAAAGGATCTCTCTTTGTTACAGCAAC
AAATCAATGCCCATCAAATCCATCTCTACCTAGTGACAATGGAGGCTGGTGCAAT
TCACCTCGTGAGCATTTCGATATAGCCAAGCCCGTCTTCAACAAAATTGCTGACT
ACACTGCTGGGATTGTTCCATCCAATACAGAAGGGTTCATGCCAGAAGAAAGG
AGGGATTCGGTTCACAATAATGGGGAACCCATGGTTCAACCAGGTGATAGTATGG
AATGTTGGTGGAGCTGGAGATGTTGTGTCTGTTCAAGTGAAGGGCAATGACAACG
TTAAGTGGACCAAATTGCAAAGAGACTGGGGTGCCACCTGGAAAAGTACCTACCC
ATTTGGTTGGAGAATCACTGACCTTCAGGGTTACGACGAGTGATGGCAGAGAATC
AACTTCATGGCATGTTGCCCTAAGAAGTGGCAATTTGGTCAGACTTACGAGGGC
AAGAACTTCAAGTAG

Nucleotide

>MsEXPA-34

ATGGCGTCGCCTTTGGGAGCTCTTTCTGCCATGTTATTGCTTTTAGTTGTTGCACT
GGCTAAAAATTGCGAAGCAACGGCTATGCACTCTGCTATTCATGCTGTTTCGACGA
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TATGGAGAAAAGCTCATGCCACCTTTTATGAAGGTGGCACTGGATCATTGGTAA
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CATAAAAATTTGCAGGAGGAGCTTGTAAC TATAAAGATGTTGTACAACAAGGCTA
CAACTTGAACACAGTAGCTCTAAGCGACGTTTTATTCAAGAAAGGAAAGACTTGT
GGTGCATGTTATGAAATACAGTGTGTCAATAGCCCTAAATGGTGCAAGAAAGGAT
CTCTCTTTGTTACAGCAACAAATCAATGCCCATCAAATCCATCTCTACCTAGTGAC
AATGGAGGCTGGTGCAATTCACCTCGTGAGCATTTCGATATAGCCAAGCCCGTCT
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AGATGATAATGCCCATTTTCCTTGTCGTCTTGACATGTGCAGGTCTTACATTTAAAG
GAGTTGTGTTCTTTGTAGGGTTCCATGCCAGAAGAAAGGAGGGATTTCGGTTCACA
ATAATGGGGAACCCATGGTTCAACCAGGTGATAGTATGGAATGTTGGTGGAGCTG
GAGATGTTGTGTCTGTTCAAGTGAAGGGCAATGACAACGTTAAGTGGACCAAATT
GCAAAGAGACTGGGGTGCCACCTGGAAA ACTAGTACCCATTTGGTTGGAGAATC
ACTGACCTTCAGGGTTACGACGAGTGATGGCAGAGAATCAACTTCATGGCATGTT
GCCCTAAGAACTGGCAATTTGGTCAGACTTACGAGGGCAAGAACTTCAAGTAG