

IDENTIFICATION

Species: *Manihot esculenta*

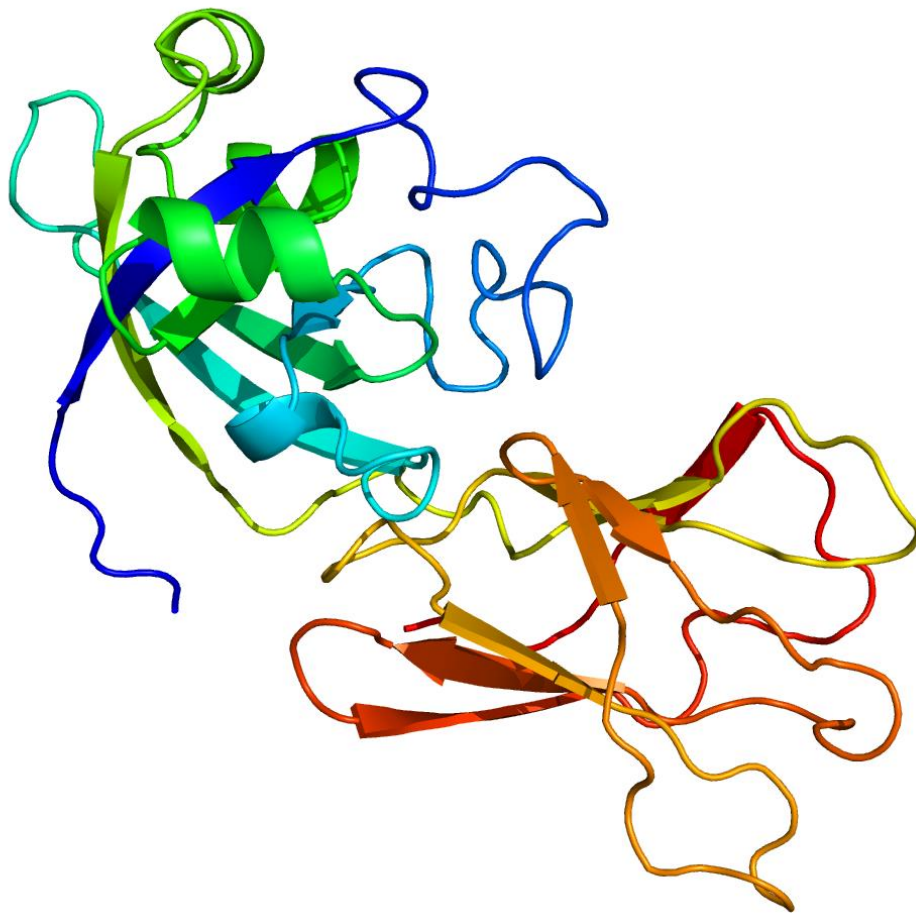
Locus: Manes.05G049700

Gene Model: Manes.05G049700.1

Description: MsEXPB-02

Family: Beta Expansin

3D structure:



GENOME DATABASES

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

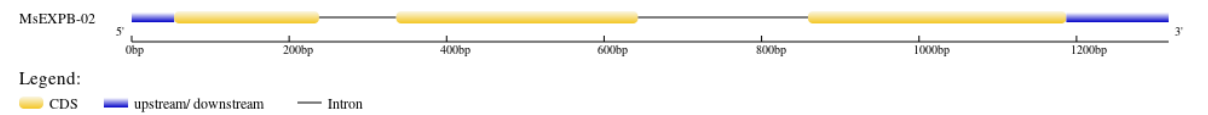
KEGG: <https://www.genome.jp/entry/T05761>

EXTERNAL RESOURCES

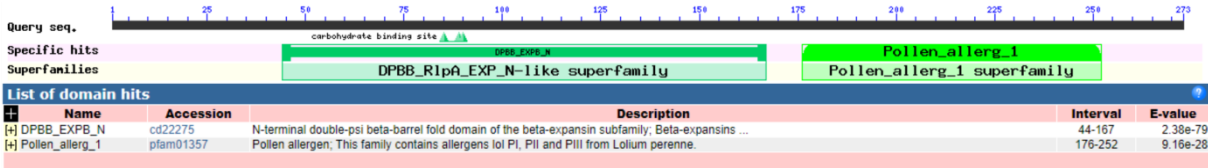
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPB-02

MAIVCVLQKPFPLSILLLVFLFNSCYCFHPKSLNFSIAQSASDWTLAGATWYGSPDGA
GSDGGACGYQDAVDRPPFSSMIAAGGPSLFESGKGCGACYEVKCTSNSACSGKPATV
VITDQCPGGPCTSESVHFDLSGTAFGAMAVSGQADQLRNAGVLQIQYKRVQCNYPG
RTLSFHVDSGSNPYYFATLVEYEDGDGDLASVEIKQALPSDSWVKMQQSWGAVWQ
LNSGSVLHAPLSLRLTTLKSGESIVASDVIPVGWQPGKTYRSVNF*

CDS (coding sequence)

>MsEXPB-02

ATGGCTATTGTATGTGTTCTTCAAAAGCCATTCCCTCTTTCCATTCTTTTACTTGTC
TTTCTCTTCAACTCCTGCTACTGTTTCCACCCCAAGTCCCTCAATTTTCAATAGCA
CAATCTGCTTCTGATTGGACACTCGCTGGGGCGACGTGGTATGGGAGTCCCGACG
GCGCTGGAAGTGACGGTGGAGCTTGTGGGTATCAAGACGCTGTAGATAGACCTCC
ATTTTCTTCAATGATAGCAGCTGGAGGACCTTCTCTATTTGAATCAGGCAAAGGA
TGTGGAGCCTGTTATGAGGTGAAATGCACCTCTAATTCAGCATGCTCTGGGAAAC
CAGCAACAGTGGTTATCACAGATCAGTGTCTTGGAGGCCCTTGTACCTCAGAGTC
CGTTCATTTGATTTGAGTGGCACTGCTTTTGGAGCCATGGCTGTTTCTGGGCAGG
CTGATCAACTGCGTAATGCCGGAGTCTTGCAGATTCAATATAAAAGGGTTCAGTG
CAACTATCCAGGCAGGACTTTGTCCTTTCACGTTGATTCTGGCTCAAACCCCTTACT
ATTTTGCAACCCTAGTGGAGTACGAAGACGGAGACGGTGACCTTGCTTCAGTTGA
AATAAAACAGGCGCTACCATCTGACTCATGGGTAAAGATGCAACAATCATGGGGT
GCAGTTTGGCAACTCAACTCCGGCTCGGTTCTACATGCTCCATTGTCTCTCCGGCT
AACCACGCTCAAGTCAGGCGAGAGCATTGTAGCAAGTGACGTAATCCCCGTTGGT
TGGCAGCCGGGAAAAACCTATAGATCAGTTGTCAATTTCTAG

Nucleotide

>MsEXPB-02

ACACACCAAACCTCAAAACAAACATACAGCAGTTGTTTGATAATCATTAAATCATT
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TATCACAGATCAGTGTCTGGAGGCCCTTGTACCTCAGAGTCCGTTTCAATTCGATT
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AACATAGATTGACTAAGTTATATATTGTCGTCTTCAAGCACAAGTATATATTTGGT
CAAATATAATTAATTGCACTTTTTTTTTTACTATCCATGTGACAATATTAATTGCTTC
ATGTCAATCTAGTACTTTATCTGACCTACTAGGTAATCAATAAGTGCTTTAAACTG
TGTTTAATAATGCTGTGGCAAGCAGGGTTCAGTGCAACTATCCAGGCAGGACTTT
GTCCTTTCACGTTGATTCTGGCTCAAACCCTTACTATTTTGCAACCCTAGTGGAGT
ACGAAGACGGAGACGGTGACCTTGCTTCAGTTGAAATAAAACAGGCGCTACCAT
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CGGCTCGGTTCTACATGCTCCATTGTCTCTCCGGCTAACCACGCTCAAGTCAGGCG
AGAGCATTGTAGCAAGTGACGTAATCCCGTTGGTTGGCAGCCGGGAAAAACCTA
TAGATCAGTTGTCAATTTCTAGATATATTACATGATATGATTTCTAGTAGCTGTGT
GTATTATTTTCCATGGAGCAGACTTGTTAAAATCAGAGTCCACATGGAAACTCTT
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