

IDENTIFICATION

Species: *Manihot esculenta*

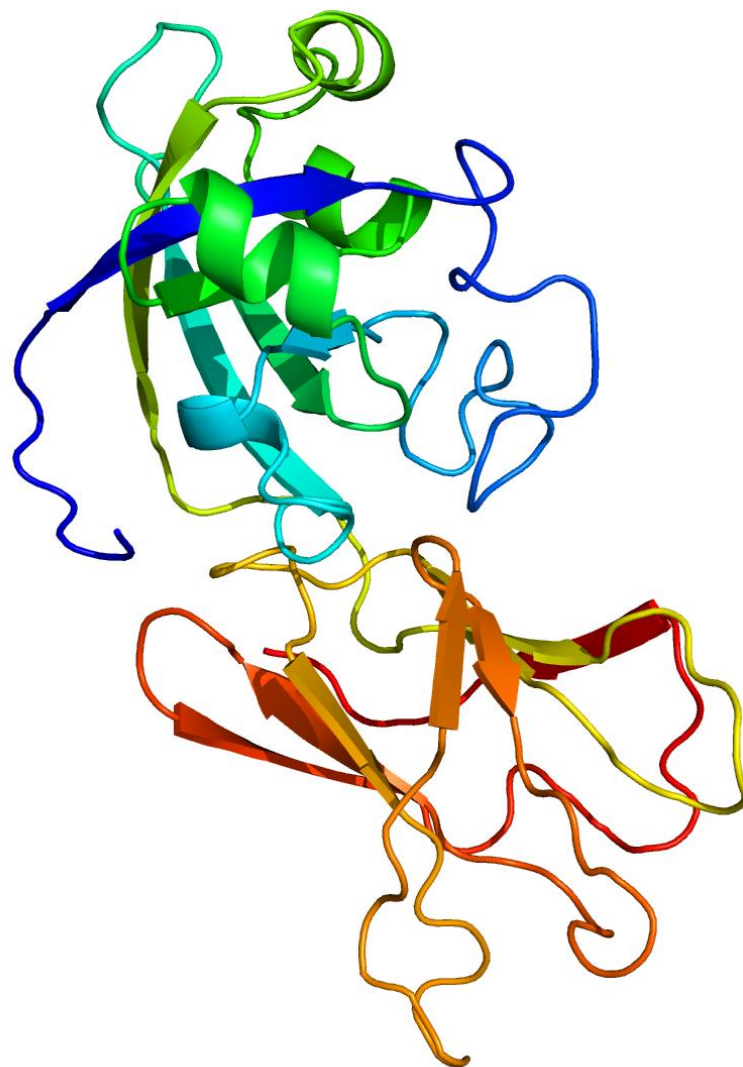
Locus: Manes.01G269500

Gene Model: Manes.01G269500.1

Description: MsEXPB-01

Family: Beta Expansin

3D structure:



GENOME DATABASES

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

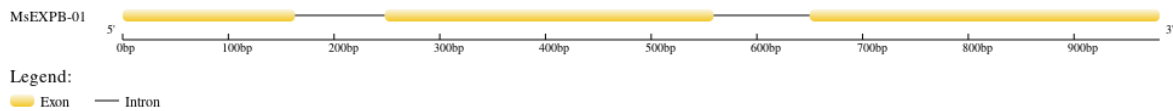
KEGG: <https://www.genome.jp/entry/T05761>

EXTERNAL RESOURCES

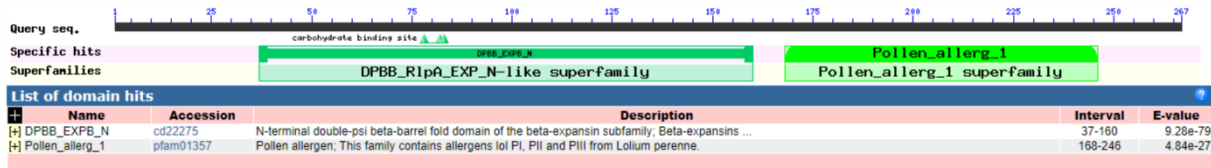
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPB-01

MAPFSLCVLLFLFLLDSCYCFKPKCFNFSNTHSDSDWEPAGATWYGSPTGAGSTGGA
CGYENAVEQPPFSSMISAGGPLYKSGKGCVCYQVKCTSNSACSGNPVTVVITDKC
PGGPCTSESVHFDLSGTAFGAMAVSGQADQLRNAGVLIQYRRVQCEYHGKTLAFH
VDSGANPYFATVVEYEEGDGLASVELKQAPDGSDSWIKMQQAWGAVWKLNSGS
ALRAPFSLRLTSLMSGKTIVASDVIPASWQP GKTYLSVVNF*

CDS (coding sequence)

>MsEXPB-01

ATGGCCCCATTCTCTCTTTGTGTTCTTCTATTTCTTTTTCTGCTGGACTCCTGCTAC
TGCTTCTGCCCCAAGTGCTTCAATTTTTCAAATACGCACTCTGATTCTGATTGGGA
ACCCGCAGGGGCCACGTGGTATGGTAGTCCCACAGGTGCAGGAAGTACCGGTGG
AGCTTGTGGGTATGAAAATGCTGTAGAGCAACCTCCATTCTCTTCAATGATATCA
GCTGGAGGGCCTTCTCTGTATAAATCAGGCAAGGGATGTGGAGTCTGTTATCAGG
TGAAATGCACGTCTAATTCAGCCTGCTCGGGGAATCCAGTCACTGTTGTCATTAC
AGATAAGTGTCCAGGAGGACCTTGTACCTCAGAGTCTGTTCAATTCGATTTGAGT
GGCACTGCTTTTGGAGCCATGGCAGTTTCTGGCCAGGCTGATCAACTCCGTAATG
CCGGAGTATTGCAGATTCAGTATAGAAGGGTTCAGTGCGAATATCATGGTAAGAC
TTTGGCCTTTCACGTCGATTCCGGCGCTAACCCCTACTACTTTGCGACCGTAGTGG
AGTACGAAGAGGGGAGACGGTGACCTTGCTTCAGTTGAACTAAACAGGCACCAG
ACGGCTCAGACTCTTGATTAAAATGCAGCAAGCCTGGGGTGCAGTTTGGAACT
CAACTCAGGCTCCGCTCTGCGTGCCCCATTTTCTCTCCGGCTAACCTCGCTCATGT
CTGGCAAGACCATTGTAGCAAGTGACGTAATTCCTGCTAGTTGGCAGCCGGGAAA
AACATACCTATCTGTAGTCAATTTCTAG

Nucleotide

>MsEXPB-01

ATGGCCCCATTCTCTCTTTGTGTTCTTCTATTTCTTTTTCTGCTGGACTCCTGCTAC
TGCTTCTGCCCCAAGTGCTTCAATTTTTCAAATACGCACTCTGATTCTGATTGGGA
ACCCGCAGGGGCCACGTGGTATGGTAGTCCCACAGGTGCAGGAAGTACCGGTAC
GTATTTGAAATTAACCTGACGTGTATTTGTTTCTGAAAATTAATTGCTAAAAAGA
AATGAATTTTCATAACCTTGTGTAGGTGGAGCTTGTGGGTATGAAAATGCTGTA
GAGCAACCTCCATTCTTCAATGATATCAGCTGGAGGGCCTTCTCTGTATAAATC

AGGCAAGGGATGTGGAGTCTGTTATCAGGTGAAATGCACGTCTAATTCAGCCTGC
TCGGGGAATCCAGTCACTGTTGTCATTACAGATAAGTGTCCAGGAGGACCTTGTA
CCTCAGAGTCTGTTCAATTCGATTTGAGTGGCACTGCTTTTGGAGCCATGGCAGTT
TCTGGCCAGGCTGATCAACTCCGTAATGCCGGAGTATTGCAGATTCAGTATAGAA
GGCAAGTACTCGCAAAAATTCTTAATTAAGTTTATTTTATAATATGGAATATACAT
ATATACTTATCTCGTTTTGCTTGGGGTGTAATTAAGCAGGGTTCAGTGCGAATAT
CATGGTAAGACTTTGGCCTTTCACGTTCGATTCCGGCGCTAACCCCTACTACTTTGC
GACCGTAGTGGAGTACGAAGAGGGAGACGGTGACCTTGCTTCAGTTGAACTAAA
ACAGGCACCAGACGGCTCAGACTCTTGGATTA AAAATGCAGCAAGCCTGGGGTGC
AGTTTGGAAACTCAACTCAGGCTCCGCTCTGCGTGCCCCATTTTCTCTCCGGCTAA
CCTCGCTCATGTCTGGCAAGACCATTGTAGCAAGTGACGTAATTCCTGCTAGTTG
GCAGCCGGGAAAAACATACCTATCTGTAGTCAATTTCTAG