

IDENTIFICATION

Species: *Manihot esculenta*

Locus: Manes.02G053000

Gene Model: Manes.02G053000.1

Description: MsEXPA-06

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

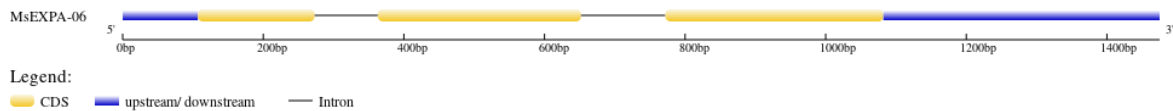
KEGG: <https://www.genome.jp/entry/T05761>

EXTERNAL RESOURCES

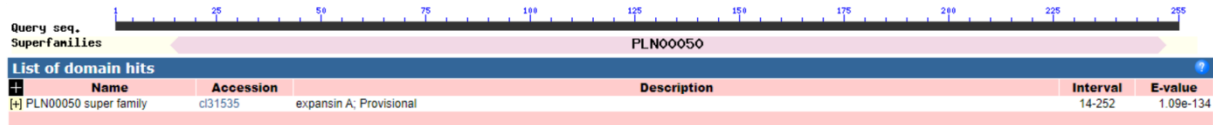
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPA-06

MCSSVHVMVNLCKRMALLGFLAVGFLSLVSSAHGYYGGWINAHATFYGGGDASGTM
GGACGYGNLYSQYGINAALSTALFDNGLSCGACFELRCVNDPQWCLPGSIVVTAT
NFCPPGGWCDPPNHFDLSQPIFQHIAQYRAGIVPVSYRRVSCKRSGGIRFTINGHSYF
NLVLVTNVGGAGDVHAVAIGSRTRWQPMSRNWQNWQSN SYLNGQSL SFLVTT
DSRSVLSY NVAPAGWSFGQTYTGSQFRY*

CDS (coding sequence)

>MsEXPA-06

ATGTGCTCAAGTGTCCACATGGTTAATTTGTGCAGGAAAATGGCTCTTCTTGGATT
TCTTGCAGTTGGATTTCTCTCACTTGTCTCATCTGCTCATGGATACTATGGAGGTT
GGATTAATGCCCATGCCACCTTCTATGGAGGTGGTGACGCTTCTGGCACAATGGG
TGGAGCTTGCGGTTATGGTAACCTCTACAGCCAAGGTTATGGAATTAACACAGCA
GACTAAGCACTGCATTATTTGACAATGGCTTGAGCTGCGGAGCTTGCTTTGAGC
TCAGGTGTGTGAATGATCCACAATGGTGCCTCCCTGGCTCCATTGTTGTCCTGCC
ACTAATTTCTGCCACCAGGAGGCTGGTGTGACCCTCCAACCATCACTTTGATCT
CTCTCAACCAATCTTCCAACACATTGCCAGTACAGAGCTGGTATTGTCCCAGTA
AGTTACAGAAGGGTAAGCTGCAAGAGAAGTGGAGGCATTAGGTTACAGATCAAT
GGACATTCCTACTTCAATTTAGTACTGGTAACCAATGTAGGTGGAGCAGGCGATG
TACATGCAGTAGCCATAAAGGGTTCAAGAACTAGATGGCAACCAATGTCAAGAA
ACTGGGGCCAAA ACTGGCAGAGTAACTCTTACCTGAATGGACAGAGTCTCTCTTT
TCTAGTCACCACCAGTGACAGCCGTAGTGTGCTCTTACAATGTTGCCCTGCTG
GCTGGTCCTTTGGCCAGACATACTGGAAGCCAATTCGATATTAA

Nucleotide

>MsEXPA-06

CTCATTTCACCCCTCACAGCAACTCCTTCAAGCTTCCTTTTCTTGTATTAATCTTT
TCCTTATCTTCTTGTCTTCTCACCCATTTTGAATTATAAATTTAAAGCATGTGCT
CAAGTGTCCACATGGTTAATTTGTGCAGGAAAATGGCTCTTCTTGGATTTCTTGCA
GTTGGATTTCTCTCACTTGTCTCATCTGCTCATGGATACTATGGAGGTTGGATTAA
TGCCCATGCCACCTTCTATGGAGGTGGTGACGCTTCTGGCACAATGGGTATGTCA
CAATGATCTCCAAGTTTAATCATTTAATGCACATGCCATTTTCTTTTTTGGATTATA
AACTGGTTATCTTTTTTTTTTCTAGGTGGAGCTTGCAGGTTATGGTAACCTCTACA
GCCAAGGTTATGGAATTAACACAGCAGCACTAAGCACTGCATTATTTGACAATGG

CTTGAGCTGCGGAGCTTGCTTTGAGCTCAGGTGTGTGAATGATCCACAATGGTGC
CTCCCTGGCTCCATTGTTGTCAGTGCCTAATTTCTGCCACCAGGAGGCTGGTG
TGACCCTCCCAACCATCACTTTGATCTCTCTCAACCAATCTTCCAACACATTGCC
AGTACAGAGCTGGTATTGTCCCAGTAAGTTACAGAAGGTAGGCCAATTA AAAAC
CACTCATCTCCATCTTCATCTTTGCCTTTTTATCCTGCTCCAGTTTCAGGAAAAGA
CTCCAACATCCCAGAAGAATTGCTAAGTAGTGTTTATGGTTTTATAGGGTAAGCT
GCAAGAGAAGTGGAGGCATTAGGTTACGATCAATGGACATTCCTACTTCAATTT
AGTACTGGTAACCAATGTAGGTGGAGCAGGCGATGTACATGCAGTAGCCATAAA
GGGTTCAAGAACTAGATGGCAACCAATGTCAAGAAACTGGGGCCAAA ACTGGCA
GAGTAACTCTTACCTGAATGGACAGAGTCTCTCTTTTCTAGTCACCACCAGTGAC
AGCCGTAGTGTGCTCTCTTACAATGTTGCCCTGCTGGCTGGTCCTTTGGCCAGAC
ATACACTGGAAGCCAATTTGATATTAATAAGCAGAGCCTTTCAGTCTCTCATAA
GATGCATTATTAAGCTACAGTATGGATTGAGCAACTACTAATTAGTGCACCTTTG
GTAAAATAGAGTGCCTTTAGAAGAGATCTTGGGGGGTCAAGATTTCTCATGAAT
TGGCCCTTTTTGATTTCTCCCATAGTATTGAGTTTTTGCAGTTGAAGAATTGGCC
ACGAATCAAGCCTCAAGGCTTTACTTATAACTGCTGTGTTGAGGGAGAGTAAATT
AAGTCAGTTTTTTCATTGCTGTTACTGTATCAACTTATAGACGCAAGTCCTTCTGA
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ATGCTTATGCCCTAATTAATTCAATTTGCTCCGC