

IDENTIFICATION

Species: *Manihot esculenta*

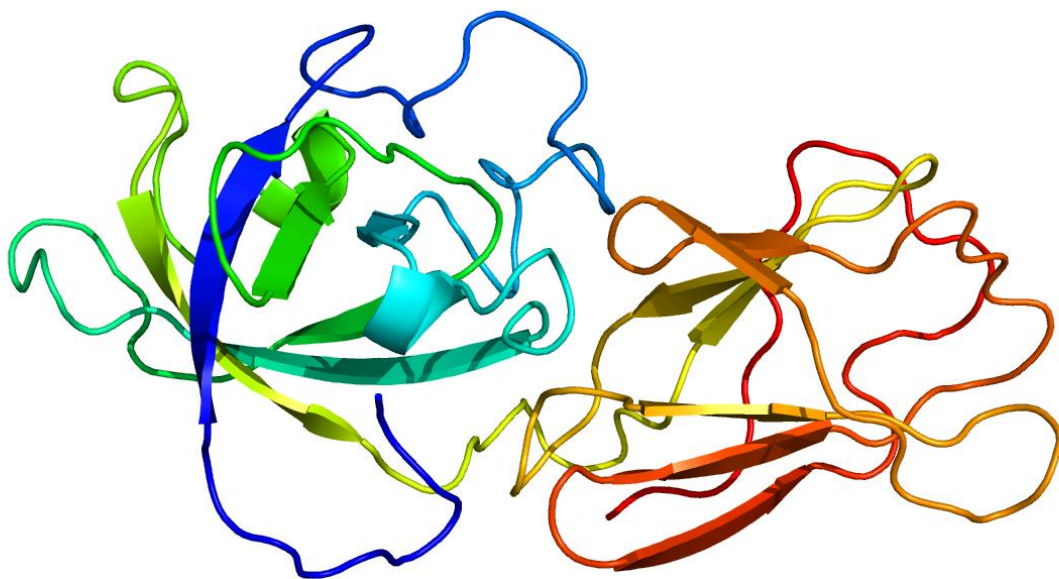
Locus: Manes.08G080300

Gene Model: Manes.08G080300.1

Description: MsEXPA-21

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

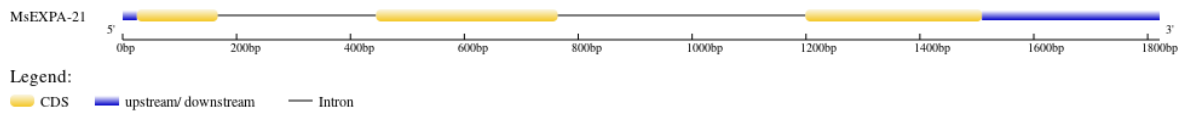
KEGG: <https://www.genome.jp/entry/T05761>

EXTERNAL RESOURCES

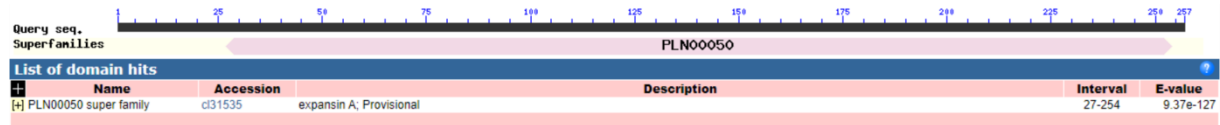
<https://cassavagenome.org/>

<https://cassavabase.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>MsEXPA-21

MAHLLCIFSLLSFFSLANARIPGVYTTGGAWESAHAATFYGGSDASGTMGGACGYGNL
YSQGYGVNTAALSTALFNGLSCGACFEIKCANDPRWCNPGSPSIFVTATNFCPPNYA
LPSDNGGWCNPPRSHFDLAMPMLKIAEYRAGIVPVTYRRVPCRKQGGIRFTINGFRY
FNLVLITNVAGAGDIVKVSIGKSKTEWQSMSRNWQNWQSNVAVLVGQALSFRVTGS
DRRTSTSWNIAPSNWQFGQTFTGKNFRV*

CDS (coding sequence)

>MsEXPA-21

ATGGCTCATCTCCTCTGCATTTTTTCTCTGCTGTCCTTTTTCTCGCTGGCTAATGCA
AGAATCCCCGGGGTTTACACCGGCGGCGCTTGGGAAAGTGCCCATGCTACTTTCT
ATGGCGGCAGCGACGCCTCTGGAAGTATGGGTGGTGGCTTGTGGGTATGGGAATCT
TTACAGCCAAGGGTATGGAGTCAACACAGCAGCGTTGAGCACAGCACTCTTCAAC
AATGGCCTCAGTTGCGGTGCTTGTCTTGAGATCAAATGCGCAAACGATCCCAGAT
GGTGAATCCTGGTAGCCCATCCATCTTTGTGACTGCGACCAACTTCTGTCCTCCA
AACTACGCTCTGCCTAGCGACAATGGTGGGTGGTGCACCCACCCCGCTCCCATT
TCGATCTGGCCATGCCCATGTTTCTCAAGATTGCTGAGTACCGTGCTGGAATTGTC
CCGGTAACATATCGCCGGGTACCATGTAGGAAGCAAGGAGGAATCAGATTCACA
ATCAACGGTTTCCGTTACTTCAATCTGGTACTGATCACGAACGTCGCAGGTGCAG
GGGACATAGTGAAGGTGAGCATCAAGGGATCAAAGACAGAGTGGCAAAGCATG
AGCAGAACTGGGGGCAAAATTGGCAATCAAACGCAGTTCTAGTGGGACAGGCT
CTTTCGTTTAGGGTGACTGGCAGCGATAGGCGCACGTCTACTTCATGGAACATAG
CACCATCCAATTGGCAGTTCGGTCAGACCTTCACGGGAAAGAATTTCCGCGTCTG
A

Nucleotide

>MsEXPA-21

CTCTCTCTCTCTCTCTCTCTCAAATGGCTCATCTCCTCTGCATTTTTTCTCTGCTG
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GGAAAGTGCCCATGCTACTTTCTATGGCGGCAGCGACGCCTCTGGAAGTATGGGT
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