

IDENTIFICATION

Species: *Lactuca sativa*

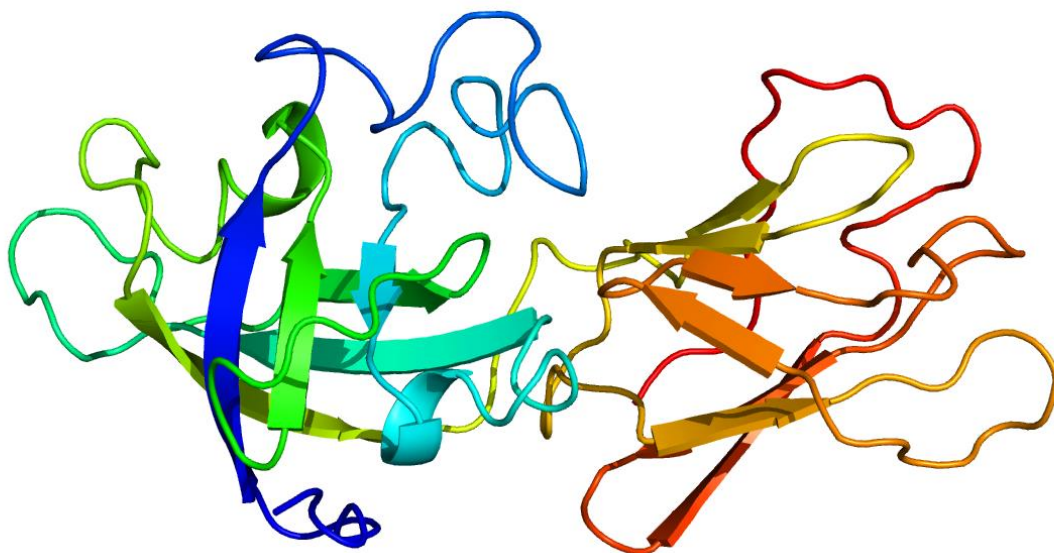
Locus: Lsat_1_v5_gn_2_119040

Gene Model: Lsat_1_v5_gn_2_119040.1

Description: LsEXPA-08

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Lsativa_V8

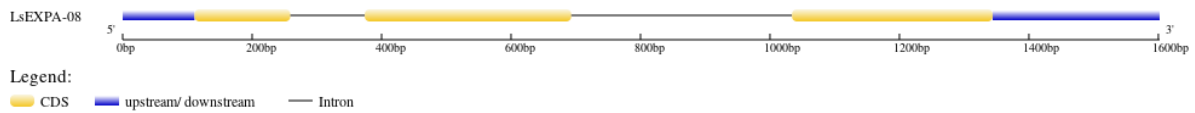
KEGG: <https://www.genome.jp/entry/T05352>

EXTERNAL RESOURCES

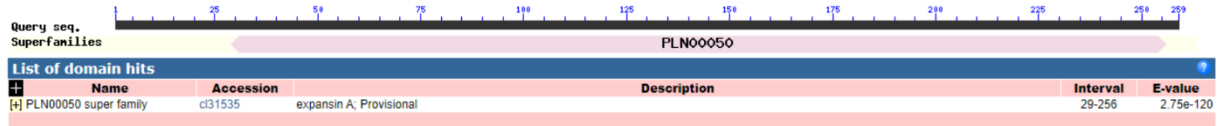
<https://lgr.genomecenter.ucdavis.edu/>

<https://www.lettucegdb.com/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>LsEXPA-08

MEARGVGYFVILCAILTAVNARIPGVYTGKWE SAHATFYGGNDASGTMGGACGY
GNLYSQGYGVNTAALSTALFNGLSCGACFELKCVNDPRWCHSGSPSIFITATNFCPP
NFAQPSDNGGWCNPPRTHFDLAMPMLKIAEYRAGIVPVS YRRVPCRKQGGIRFTIN
GFRYFNLVLVTNVAGADITRVVWVKGSR TGWMSLSRNWQNWQSNVAVLVGQSLSF
RVTSSDRRTSTSWNVVPANWKFGQFTGKNFRV*

CDS (coding sequence)

>LsEXPA-08

ATGGAGGCCAGGGGTGTGGGTTACTTTGTAATTTTGTGTGCCATTCTGACAGCCG
TCAACGCTCGTATAACCGGGAGTCTACACCGGAGGGAAGTGGGAGAGTGCTCACG
CCACCTTCTACGGTGGCAACGACGCCTCTGGTACAATGGGTGGAGCTTGTGGGTA
TGAAATTTGTACAGCCAAGGGTATGGCGTCAACACGGCGGCGCTAAGCACGGC
TCTGTTCAACAACGGGCTGAGTTGCGGTGCTTGTTCGAGTTAAAATGTGTGAAT
GATCCAAGGTGGTGCCACTCCGGCAGCCCTTCTATTTTCATCACGGCGACCAATTT
CTGTCCTCCTAATTTTCGCTCAGCCAAGTGACAATGGTGGGTGGTGCAACCCTCCG
AGGACCCATTTTCGATCTTGCCATGCCCATGTTCCCTCAAGATCGCCGAATACCGTG
CCGGCATCGTCCCGTTTCCTATCGCCGGGTACCATGCCGAAAGCAAGGAGGAAT
AAGATTCACCATCAATGGATTCCGTTACTTCAACTTGGTTTTGGTTACCAACGTGG
CGGGTGCTGGAGATATCACTCGAGTATGGGTGAAAGGTTTCGAGGACTGGATGGA
TGAGTCTGAGTCGTA ACTGGGGTCAAACTGGCAATCAAATGCAGTGCTAGTTGG
TCAATCACTCTCTTTTAGAGTGACTAGCAGTGATCGTCGTACTTCCACATCATGGA
ATGTTGTTCTGCGAATTGGAAATTCGGTCAAACTTTTACTGGAAAAAATTTCCG
AGTTTAG

Nucleotide

>LsEXPA-08

CCTCACTCGCCGCAATAAGTAGCGATACAGATTTTCATTCTCTTCCACATTTTCAAC
TCCCACTTCTCACATTCCTTCTCTGCCTCTACTCTCTTCTGACTGTGTGTGAAAAT
GGAGGCCAGGGGTGTGGGTTACTTTGTAATTTTGTGTGCCATTCTGACAGCCGTC
AACGCTCGTATAACCGGGAGTCTACACCGGAGGGAAGTGGGAGAGTGCTCACGCC
ACCTTCTACGGTGGCAACGACGCCTCTGGTACAATGGGTACGTCACCATTTTCGT

ATCCTCACATCCTGTTTCAGATTCCCAGCTAATTCATCATCCTCTGTTTCAATTACT
CTGTTTTTATAAAAGATTGAATAATTGAATTATTTTACAGGTGGAGCTTGTGGGTA
TGGAAATTTGTACAGCCAAGGGTATGGCGTCAACACGGCGGCGCTAAGCACGGC
TCTGTTCAACAACGGGCTGAGTTGCGGTGCTTGTTTCGAGTTAAAATGTGTGAAT
GATCCAAGGTGGTGCCACTCCGGCAGCCCTTCTATTTTCATCACGGCGACCAATTT
CTGTCCTCCTAATTTTCGCTCAGCCAAGTGACAATGGTGGGTGGTGAACCCCTCCG
AGGACCCATTTTCGATCTTGCCATGCCCATGTTCCCTCAAGATCGCCGAATACCGTG
CCGGCATCGTCCCCGTTTCTATCGCCGGTTAGTTTCTCCGACTTGTTTCCATTTCT
TCCAAATTTGGAAATGGAAGTCTGAAATTTTATCATCTACTTCAATTATGCGCTCA
TTATTTATCCATATTACCTTAAAAAATGTTTTAGCATTGACTTTCCAAC TGACAA
GCCTGAAAAATGGGGACCTCAACTCCCTAAAACCGCGTTTGTGCTTGTACGCTTT
CAATTATGTTTATTTACAATATTACCCTTGAACAATTAGAGAATGAAGATCTTTTA
ATTTGTGTAATAATTCTACCTTTTTAATTTTTATAACATTTGTTTATACAAAAAAGT
TGAATTACATATATATTTTTTTTTATCACATAGGGTACCATGCCGAAAGCAAGGAG
GAATAAGATTCACCATCAATGGATTCCGTTACTTCAACTTGGTTTTGGTTACCAAC
GTGGCGGGTGCTGGAGATATCACTCGAGTATGGGTGAAAGGTTTCGAGGACTGGA
TGGATGAGTCTGAGTCGTAAC TGGGGTCAAAC TGGCAATCAAATGCAGTGCTAG
TTGGTCAATCACTCTCTTTTAGAGTGACTAGCAGTGATCGTCGTA CTCCACATCA
TGGAATGTTGTTCCCTGCGAATTGGAAATTCGGTCAAAC TTTACTGGAAAAAATT
TCCGAGTTTAGTTAAGCTAAGATACTATACCAATTGTTTTAAACTTACCAATAGTT
ATCACACAAGCTTTAAAATAAAAAAGGTTTGTGTAATGGGTTTGATTTGTATTTTT
AATTTAGGTTTGAAAGAAAAGAGAGGCTTAGGAAAAAGTCTAGGGTTGGTTTGT
TGTGGGGTATTTTTGACAATTCAAGA ACTGTGTAACAAGAGCTGAAGTGGCTATA
GAGTCATGCCTCAACTCATGACGGCCCGCAGCTTTTTTATTATTGTT