

## IDENTIFICATION

**Species:** *Lactuca sativa*

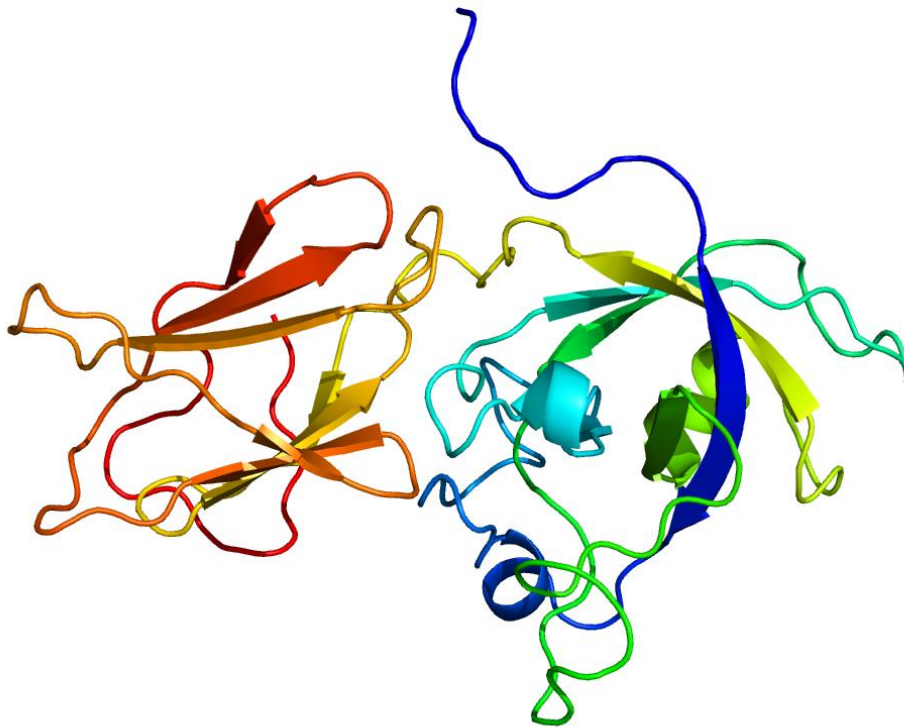
**Locus:** Lsat\_1\_v5\_gn\_2\_58701

**Gene Model:** Lsat\_1\_v5\_gn\_2\_58701.1

**Description:** LsEXPA-05

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Lsativa\\_V8](https://phytozome-next.jgi.doe.gov/info/Lsativa_V8)

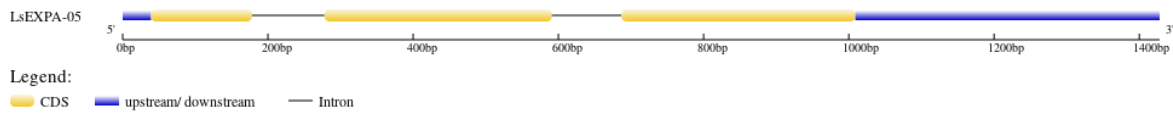
KEGG: <https://www.genome.jp/entry/T05352>

## EXTERNAL RESOURCES

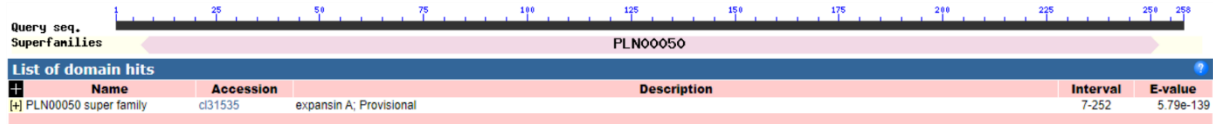
<https://lgr.genomecenter.ucdavis.edu/>

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>LsEXPA-05

MGFLEILLVLTITTIATLPLASGRGGGGWSNAHATFYGGADASGTMGGACGFGNLYS  
QGYGTNTAALSTALFNGLACGACFEIKCVNDKRWCLPGSIIVTATNFCPPNSALPNN  
NGGWCNPPQQHFDLAQPIFLKIGQYKAGIIPVQYRRVACKKRGGMRFTHINGHSYFNL  
VLLTNVGGAGDVVAVSIKGSRSNTWQPMSRNWQNWQSGANLDGQALSFKVTTSD  
GRTVVSTNVAPAGWSFGQTYAGKQFKSVGL\*

### CDS (coding sequence)

>LsEXPA-05

ATGGGGTTTCTTGAAATCTTATTAGTTCTAACAATCACCACCATTGCAACACTACC  
ACTAGCTAGCGGCAGAGGTGGTGGTGGTGGTCTAACGCCCATGCCACCTTCTAT  
GGTGGTGCCGATGCTTCGGGTACAATGGGTGGAGCATGTGGATTTGGAAATTTAT  
ATAGTCAAGGATATGGTACAAATACAGCTGCATTAAGTACTGCTTTATTCAACAA  
TGGACTTGCATGTGGAGCGTGTGTTTGGAGATCAAATGTGTGAATGATAAAAGATGG  
TGTCTTCCAGGGTCCATTATTGTCACAGCTACAACTTCTGTCCTCCAAATAGCGC  
ACTTCCAAACAACAATGGAGGGTGGTGTAAATCCTCCACAACAACACTTCGATCTT  
GCTCAACCGATTTTCTTGAAAATTGGTCAATACAAAGCTGGAATTATCCCGTTCA  
ATATAGAAGGGTTGCTTGCAAGAAGAGAGGTGGAATGAGGTTTACAATCAATGG  
TCATTCGTATTCAATTTGGTGTGTTGACAAATGTTGGTGGTGCGGGTGATGTTG  
TGGCGGTGTCTATTAAGGGGTCTAGAAGCAATACATGGCAACCAATGTCGAGAA  
ATTGGGGGCAAAATTGGCAAAGTGGTGC GAATCTTGATGGACAGGCTTTATCTTT  
TAAGGTTACAACAAGTGATGGAAGAACAGTCGTTTCTACGAATGTGGCTCCTGCG  
GGTTGGAGTTTCGGACAGACTTATGCTGGTAAACAGTTTAAGTCTGTCGGTCTCT  
AA

### Nucleotide

>LsEXPA-05

CAAACTCCCTCACAACCTTATCTTTTTTTCAGTTCTAAAAATGGGGTTTCTTGAAAT  
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GGTGGTGGTGGGTGGTCTAACGCCCATGCCACCTTCTATGGTGGTGCCGATGCTT  
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GTGGAGCATGTGGATTTGGAAATTTATATAGTCAAGGATATGGTACAAATACAGC  
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TGTCGAGAAATTGGGGGCAAATTTGGCAAAGTGGTGCGAATCTTGATGGACAGG  
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GTCGGTCTCTAACTCCAAACTTTTAACTTAACAGTTAAGTTAAAATACTCTTTTT  
TTTTATGTGATTTATAGTTATAAGATTAAAGTATGGTATACTGATATACTATAGTA  
ACTAATGTAATATAGTTATAAGATAGGCGAAACTCTATGGACCCATTTTAAAGGG  
CCCATGATTAATGCCTAAACTAACTTCAGGAAATCTGACCTGTTTACAAAGATT  
TCGGGAGTCATTTTAGACAGCCCTGAAAAGGACACCAACAAGGGTTGGGGGACT  
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GTGTTCTTTTTTTGGAGGTCAAATGTGGTGTCAAAGATTCCTCAATGTATGTTTTG  
TACTTGAAATGAAATGAGAATAACATTTAATGTTTGTTCGATT