

## IDENTIFICATION

**Species:** *Lactuca sativa*

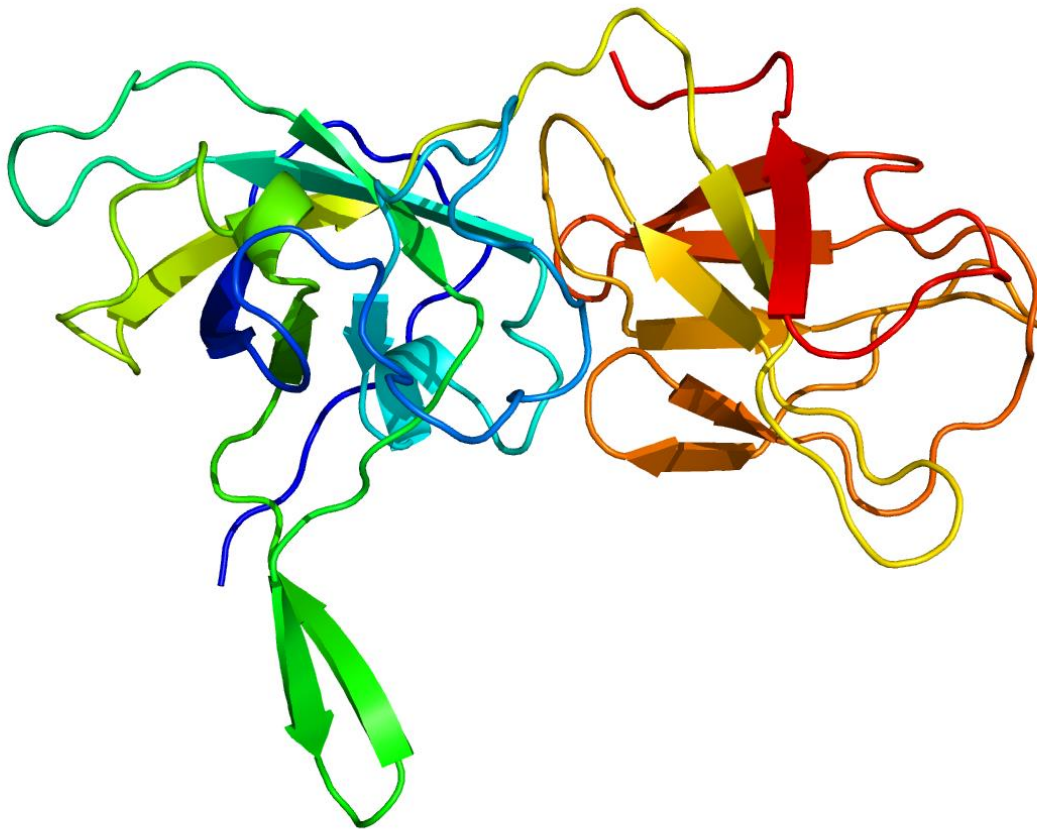
**Locus:** Lsat\_1\_v5\_gn\_6\_78980

**Gene Model:** Lsat\_1\_v5\_gn\_6\_78980.1

**Description:** LsEXPA-23

**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)

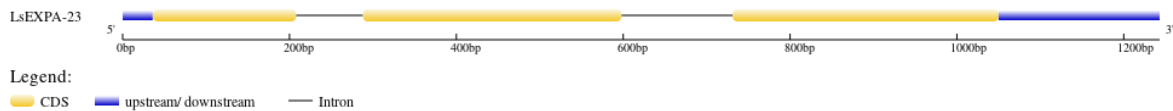
KEGG: <https://www.genome.jp/entry/T05352>

## EXTERNAL RESOURCES

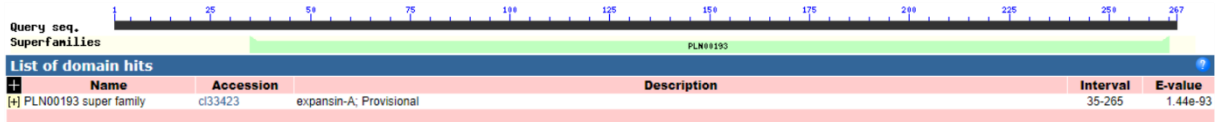
<https://lgr.genomecenter.ucdavis.edu/>

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>LsEXPA-23

MASFHPRRFFFILSIITLAFSWFVKPSEAVYHGYVPSPWTLAHATFYGDSEASETMG  
GACGYGNLITNGYGTDTAALSTTIFSEGYACGQCYQIRCVQSPWCYKGYTTVTATNL  
CPPNWSQDSNNGGWCNPPRTHFDMAKPAFMKIAQWKAGIVPVMYRRVPCNAIRKG  
GIRFSFQNGYWLVGFMNVAGAGDIQMWWVKGTKTGWISMHNWGASYQAFAT  
LKGQALSFRLTSYTTKQTITAYNVAPANWNLGLTYQGNVNFH\*

### CDS (coding sequence)

>LsEXPA-23

ATGGCTTCATTTTCATCATCCACGGAGGTTTTTCTTCATCCTTAGCATCATCACACT  
TGCCTTCTCCTGGTTTGTGAAACCTAGCGAAGCTGTCTACCATGGCTACGTACCGA  
GTCCATGGACCCTTGCCCATGCGACGTTTTATGGGGATGAGAGTGCATCTGAAAC  
CATGGGAGGTGCTTGTGGATATGGAAACTTGATAACTAATGGATACGGAACGGA  
TACAGCTGCTTTGAGCACAACCATCTTTAGCGAAGGTTACGCCTGTGGTCAATGT  
TACCAAATACGGTGTGTCCAATCTCCATGGTGCTACAAAGGATACACCACCGTTA  
CTGCCACCAACCTCTGCCCGCCTAACTGGTCACAGGATTCAAACAACGGAGGATG  
GTGTAATCCTCCCAGAACCCACTTCGACATGGCCAAGCCTGCGTTCATGAAAATT  
GCTCAGTGGAAGGCAGGCATTGTCCCTGTCTATGTACCGCAGGGTACCATGCAATG  
CTATTAGGAAAGGAGGCATCAGATTCTCTTTTCAAGGAAATGGGTATTGGCTGGT  
GGGGTTTGTGATGAATGTTGCTGGTGCTGGAGATATCAAACAGATGTGGGTGAAA  
GGGACAAAGACAGGTTGGATCAGCATGAGTCATAACTGGGGTGCTTCATACCAA  
GCCTTCGCAACTCTTAAGGGTCAAGCCCTCTCCTTCCGATTAACTTCATACACTAC  
CAAACAGACTATCACTGCCTACAATGTGCCCCCTGCTAACTGGAACCTTAGGCTTG  
ACATATCAAGGCAACGTCAACTTCCATTGA

### Nucleotide

>LsEXPA-23

CTTGTACAAAAAGTTCACAACAACCTTCAAAGTCACCATGGCTTCATTTTCATCATCC  
ACGGAGGTTTTTCTTCATCCTTAGCATCATCACACTTGCCTTCTCCTGGTTTGTGA  
AACCTAGCGAAGCTGTCTACCATGGCTACGTACCGAGTCCATGGACCCTTGCCCA  
TGCGACGTTTTATGGGGATGAGAGTGCATCTGAAACCATGGGTAAATATCATGGC  
TTAAAGCTAGTATCTTCTAAATATCAAATATCGGTTTTAATTAACATTTTTGGATA

TATATTTTCAGGAGGTGCTTGTGGATATGGAAACTTGATAACTAATGGATACGGAA  
CGGATACAGCTGCTTTGAGCACAACCATCTTTAGCGAAGGTTACGCCTGTGGTCA  
ATGTTACCAAATACGGTGTGTCCAATCTCCATGGTGCTACAAAGGATACACCACC  
GTTACTGCCACCAACCTCTGCCCCGCTAACTGGTCACAGGATTCAAACAACGGAG  
GATGGTGTAAATCCTCCCAGAACCCACTTCGACATGGCCAAGCCTGCGTTCATGAA  
AATTGCTCAGTGGAAGGCAGGCATTGTCCCTGTCATGTACCGCAGGTGAATTTCT  
GTTCCATACTAGCAAGCATCAAGCTTTTTCTACTTTATAACTTTTGATGCACAAA  
GATGAACAAATTAACCTAATTTGATATGTATTCTACGGGCATGCTAATTACATTTT  
TTGTGCTTTAGGGTACCATGCAATGCTATTAGGAAAGGAGGCATCAGATTCTCTT  
TTCAAGGAAATGGGTATTGGCTGGTGGGGTTTGTGATGAATGTTGCTGGTGCTGG  
AGATATCAAACAGATGTGGGTGAAAGGGACAAAGACAGGTTGGATCAGCATGAG  
TCATAACTGGGGTGCTTCATACCAAGCCTTCGCAACTCTTAAGGGTCAAGCCCTC  
TCCTTCCGATTAACCTTCATACACTACCAAACAGACTATCACTGCCTACAATGTCGC  
CCCTGCTAACTGGAACCTTAGGCTTGACATATCAAGGCAACGTCAACTTCCATTGA  
TTACCGGTTCTGTTTACTGTATTAACACCTCTTAATGTGTCCTGTCTCTTCAA  
CGCATTTGGAACCGTTTGATTGAGTTGAAGCTAGTACATCTGCTTCTAAGTTATAT  
TGTATCGAGTTAGTGTTTTACAAAATGTAATTTCCGTCCATCCCATTAATAATTA  
ACATTCTAATGAGTTAGAGATGGAT