

## IDENTIFICATION

**Species:** *Populus deltoides*

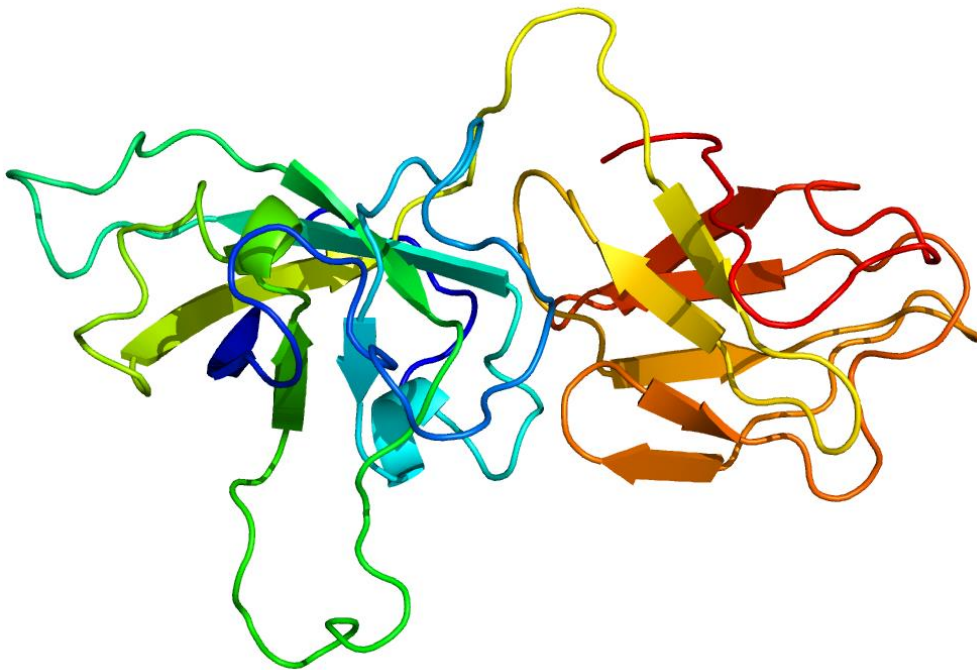
**Locus:** Podel.13G064500

**Gene Model:** Podel.13G064500.1.p

**Description:** PdEXPA-19

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

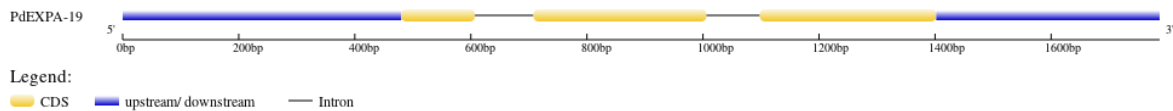
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PdeltoidesWV94\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PdeltoidesWV94_v2_1)

KEGG:-

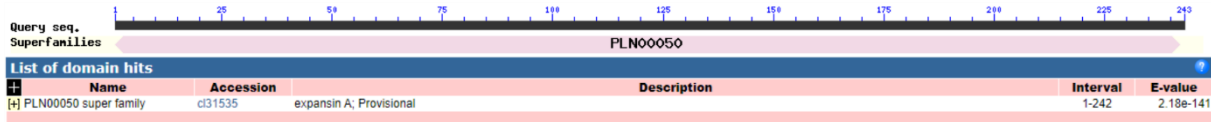
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PdEXPA-19

MDFLGVCLVVFLTMSKTIHGYGGGWSNAHATFYGGGDASGTMGGACGYGNLYSQ  
GYGTNTAALSTALFKNGLTCGACFELKCVNDARWCLSGSIIVTATNFCPPNSAGGWC  
NPPSQHFDSLQPVFQHLARYKAGIVPVLRYRRVACRKTGGIRFTINGHSYFNLVLITNV  
GGAGDVVSVSIKGSRTGWQPMsrNWGQNWQSNsYLNQALSFKITTSdGRsIISSNV  
APPNWAFGQTFHGGQF\*

### CDS (coding sequence)

>PdEXPA-19

ATGGATTTTCTTGGAGTTTGTCTCGTAGTCTTCCTAACCATGTCCAAAACAATTCA  
TGGCTATGGAGGTGGATGGTCTAATGCTCATGCTACCTTCTATGGAGGTGGTGAT  
GCTTCTGGCACAATGGGAGGAGCTTGTGGTTATGGAAACCTCTACAGCCAAGGTT  
ATGGGACAAACACGGCAGCATTAAAGCACGGCTTTATTCAAGAATGGACTAACCT  
GTGGAGCTTGCTTCGAACTCAAATGTGTAAATGATGCCAGGTGGTGTCTCTCAGG  
ATCTATCATAGTCACAGCAACAAATTTTTGCCCTCCAAACAGTGCAGGAGGGTGG  
TGCAATCCTCCTTCGCAACACTTCGATCTTTCTCAGCCTGTTTTTCAACATCTAGCT  
CGTTACAAAGCAGGAATAGTCCCTGTTCTATACAGAAGAGTTGCTTGTAGGAAAA  
CTGGAGGAATCAGGTTCACTATAAATGGTCATTACTTCAACCTTGTCTTATA  
ACCAATGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG  
CTGGTTGGCAGCCAATGTCTCGCAATTGGGGCCAAAATTGGCAGAGCAATTCTTA  
CCTGAATGGTCAAGCACTCTTTTCAAGATCACAACAAGTGACGGACGATCTATC  
ATCTCCAGCAATGTGGCTCCTCCAAACTGGGCTTTTGGTCAAACCTTCCATGGAG  
GGCAGTTCTAA

### Nucleotide

>PdEXPA-19

ATACCAAATGAGGCTACATTCTTTTTCAAATGATTTTATAGACACCCTCCTGTATT  
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