

## IDENTIFICATION

**Species:** *Populus deltoides*

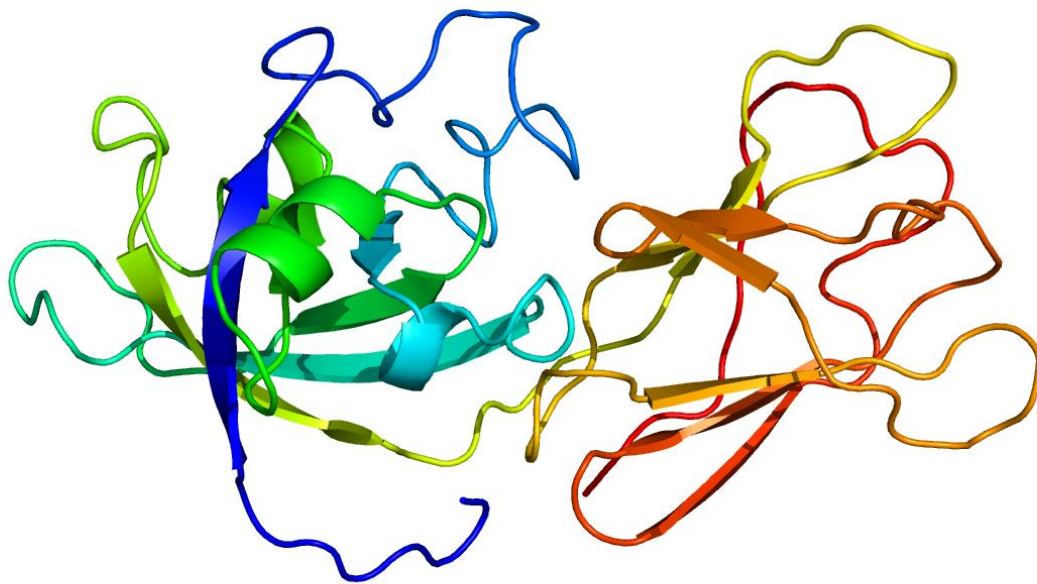
**Locus:** Podel.17G089000

**Gene Model:** Podel.17G089000.2.p

**Description:** PdEXPA-25

**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

Query seq. Superfamilies

PLN00050

Name	Accession	Description	Interval	E-value
PLN00050 super family	cl31535	expansin A, Provisional	1-239	9.58e-136

## SEQUENCES

### Peptide

>PdEXPA-25

MAPFGFLLVGFSLIVSSVHGYYGGWINAHATFYGGGDASGTMGGACGYGNLYSQG  
YGANTAALSTALFDNGLSCGACFEIRCVNDPKWCLRGSIVVTATNFCPPGGWCDPPN  
KHFDSLQPVFQHIAQYRAGIVPVIYRRVRCRKS GGIRFTINGHSYFNLVLITNVGGAG  
DVRVAIKGSRTRWQAMSRNWGQNWQSNAYLDGQSL SFLVTTSDGRRVVSYNVAP  
AGWSFGQTYSGGQFRY\*

### CDS (coding sequence)

>PdEXPA-25

ATGGCTCCTTTTGGGTTTCTTTTAGTGGGGTTTCTCTCCATTGTCTCGTCTGTTTCAT  
GGATATTATGGAGGTTGGATTAACGCACATGCCACTTTCTATGGAGGTGGCGATG  
CTTCAGGGACAATGGGCGGGGCTTGTGGCTATGGAAACCTCTACAGCCAGGGTTA  
TGGAGCTAACACAGCAGCACTGAGCACTGCATTGTTTGACAATGGTCTGAGCTGC  
GGGGCTTGTTTTGAGATCAGATGTGTGAATGACCCTAAGTGGTGCCTGCGTGGCT  
CCATTGTGGTCACTGCCACTA ACTTTTGCCCTCCCGGAGGCTGGTGTGATCCTCCC  
ACAAGCATTGATCTCTCTCAACCTGTCTTCCAGCACATTGCCCAATATAGAGC  
TGGAATCGTCCCAGTAATTTACAGAAGGGTAAGATGCAGGAAGAGTGGAGGCAT  
TAGGTTACCATCAATGGCCACTCATACTTCAATTTAGTCCTGATACCAACGTTG  
GCGGCGCCGGTGATGTGCGTTCTGTGGCCATCAAGGGTTCAAGAACTCGATGGCA  
AGCAATGTCAAGAACTGGGGCCAAAATTGGCAGAGTAATGCTTACCTTGATGG  
GCAAAGTCTCTTTTTCTAGTTACCACAAGTGACGGTCGCAGAGTGGTTTCTTACA  
ATGTTGCCCTGCTGGCTGGTCCTTTGGACAGACATACAGTGGAGGGCAGTTTAG  
GTACTAG

### Nucleotide

>PdEXPA-25

ATTTCCACAATTACTATCTTTTTCCAAGGTTTATCATTTTCTACTAACACTATCT  
TTTTCTTTTGTTCCTTAGTTACTAGCAAGAATTTTATTTATTTAGTATTGCTG  
TACTTTTATTTTAAGCAGGTGAAATGTGACTTTGCCTGAGGGATTCATATAATTT  
CATGCAGGAAAATGGCTCCTTTTGGGTTTCTTTTAGTGGGGTTTCTCTCCATTGTC  
TCGTCTGTTTCATGGATATTATGGAGGTTGGATTAACGCACATGCCACTTTCTATGG  
AGGTGGCGATGCTTCAGGGACAATGGGTATGTTACTCGTGTATGTTTTTTCCCAA

GAAAATCATATTGTACATGCAAGTTCTATCATGTGTAATCTCCTTAAACTACCGTC  
CTAGCTAACCTTAGCCTGGTTATTTACGTTTCAAGGCGGGGCTTGTGGCTATGGA  
AACCTCTACAGCCAGGGTTATGGAGCTAACACAGCAGCACTGAGCACTGCATTGT  
TTGACAATGGTCTGAGCTGCGGGGCTTGTTTTGAGATCAGATGTGTGAATGACCC  
TAAGTGGTGCCTGCGTGGCTCCATTGTGGTCACTGCCACTAACTTTTGCCCTCCCG  
GAGGCTGGTGTGATCCTCCCAACAAGCATTGATCTCTCTCAACCTGTCTTCCAG  
CACATTGCCCAATATAGAGCTGGAATCGTCCCAGTAATTTACAGAAGGCATGTTA  
AGCAACAACCTTACCGTGTCTTCATTTAATTTATTAATTACGTTTAGTGTTTTTTTT  
TTTATCTAATCAATAAGGTCATGGTTTATCATATATAGGGTAAGATGCAGGAAGA  
GTGGAGGCATTAGGTTACCATCAATGGCCACTCATACTTCAATTTAGTCCTGATC  
ACCAACGTTGGCGGCGCCGGTGATGTGCGTTCTGTGGCCATCAAGGGTTCAAGAA  
CTCGATGGCAAGCAATGTCAAGAACTGGGGCCAAAATTGGCAGAGTAATGCTT  
ACCTTGATGGGCAAAGTCTCTCTTTTCTAGTTACCACAAGTGACGGTCGCAGAGT  
GGTTTCTTACAATGTTGCCCTGCTGGCTGGTCCTTTGGACAGACATACAGTGGA  
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ATAGATATATATATAGGGTTAATATTTGCTATGAATTGGCCCTTCGCTTTCCTATA  
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CAGTAGTTCACTGTGCCCCAGCTCGTCTGTATTCAATCGATCAGCTATTAAATGCA  
CAGGCAGGCAATGTCATTTGTAACGAAAGGGAGATCTCAACCTTCTCTTTAATTT  
CCTCTCTTTTCCATGTTGATTACTTT