

## IDENTIFICATION

**Species:** *Populus trichocarpa*

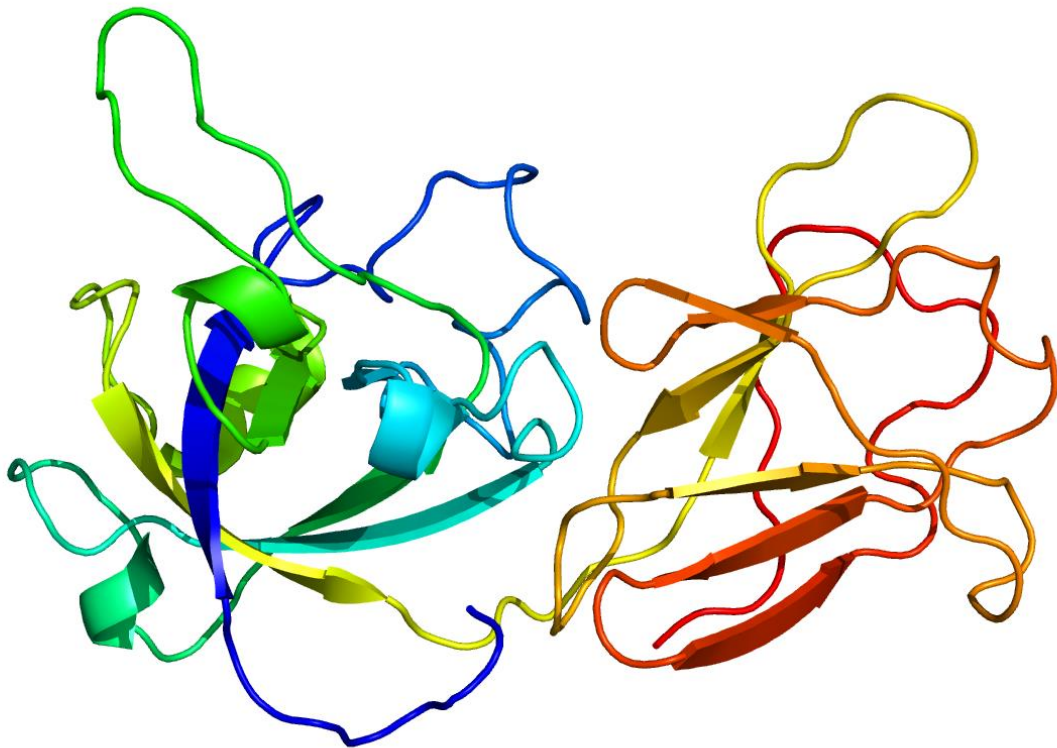
**Locus:** Potri.009G169500

**Gene Model:** Potri.009G169500.1.p

**Description:** PtEXPA-17

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

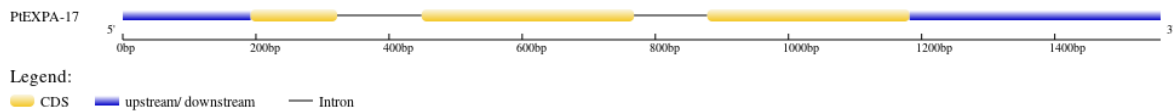
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa\\_v4\\_1](https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa_v4_1)

KEGG: <https://www.genome.jp/entry/gn:T01077>

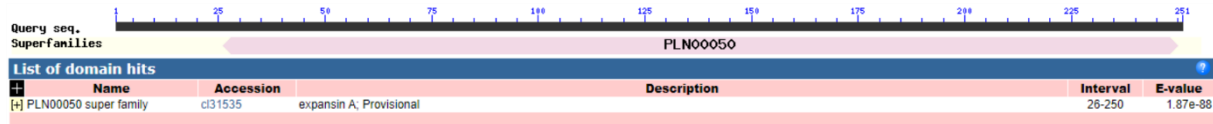
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PtEXPA-17

MGALKAILLYLIHQTWKITADDEEWKSATATYVKETSGSIIVEGACGYGDLHRATY  
GKYSAGLSSMLFNRGSTCGACFEVRCVDHILWCLQGSPSVILTATDFCPPNYGLSSDY  
GGWCNFPKEHFDMS EAAFAEIAEKKADVVPVQHRRVKCDRRGGLRFTMSGNFHFY  
QVLISNVGLDGEVIAVKVKGSRTAWIPMARNWGQNWQSNINLIGQPLSFEVTTSSRR  
TLTSYNVAPANWQFGQIFEGKQF\*

### CDS (coding sequence)

>PtEXPA-17

ATGGGTGCTCTAAAAGCCATTCTTCTCTACTTGATTATACACCAAACATGGAAGA  
TCACAGCTGATGATGAGGAATGGAAGTCTGCTACTGCAACATACGTTAAGGAGA  
CAAGTGGATCCATCATTGTAGAAGGTGCTTGTGGGTATGGGGACCTTCACAGGGC  
CACCTATGGAAAATACAGTGCTGGACTAAGTAGCATGCTGTTCAACAGAGGGAG  
TACCTGTGGGGCTTGCTTCGAGGTCAGATGTGTAGACCACATCTTATGGTGCCTG  
CAGGGTAGCCCCCTCCGTCATTCTCACTGCAACAGATTTCTGCCCTCCAAATTACGG  
GCTTTCATCGGATTATGGTGGCTGGTGTAAATTTCCCAAAGAACAACCTTTGACATGT  
CAGAAGCGGCATTTGCTGAAATCGCAGAGAAAAAGGCTGATGTTGTGCCAGTTC  
AACACAGAAGGGTGAAGTGTGATAGAAGGGGTGGGCTAAGATTCACAATGAGTG  
GAAATTTTCACTTTTATCAAGTACTCATCAGCAATGTGGGATTGGATGGTGAGGT  
GATTGCTGTGAAAGTGAAGGGATCAAGAACAGCGTGGATACCTATGGCAAGAAA  
CTGGGGACAAAACCTGGCAATCCAATATCAACCTTATTGGACAGCCTCTATCTTTC  
GAGGTGACTACCAGCAGCAGAAGAACTCACATCTTACAATGTTGCACCAGCA  
AACTGGCAATTTGGCCAGATATTTGAAGGCAAGCAATTCTAG

### Nucleotide

>PtEXPA-17

GGGTGCCCATCTAACCAACAAAGCTAGCTTCATTTACAGCAAGGAGATTCAGGTCA  
TTTCCAGAGAAAAGGTGGCCTTTCTCTACTCAAGGCCATAATTTACAGGGT  
AGAAGAAAAGGGAGGGAACAAAATAAAAGAAAAGAACCTCGTCAAGTACAAAC  
CAGACTTCTCATAGTCGTTTTTATATCAAATGGGTGCTCTAAAAGCCATTCTTCTC  
TACTTGATTATACACCAAACATGGAAGATCACAGCTGATGATGAGGAATGGAAG  
TCTGCTACTGCAACATACGTTAAGGAGACAAGTGGATCCATCATTGTAGGTAATT

TTCTGGCAACTGTTCCGACTAAATCTGAACTTTCTGTTTCAACTCATAATGGTGC  
TTCATATTTCAAAAAGATTTCAGTTTTGATTGCAAAGAGTAACTACCATTGTTTA  
ATGTTGCAGAAGGTGCTTGTGGGTATGGGGACCTTCACAGGGCCACCTATGGAAA  
ATACAGTGCTGGACTAAGTAGCATGCTGTTCAACAGAGGGAGTACCTGTGGGGCT  
TGCTTCGAGGTGAGATGTGTAGACCACATCTTATGGTGCCTGCAGGGTAGCCCCT  
CCGTCATTCTCACTGCAACAGATTTCTGCCCTCCAAATTACGGGCTTTCATCGGAT  
TATGGTGGCTGGTGTAAATTTCCCAAAGAACAACACTTTGACATGTCAGAAGCGGCAT  
TTGCTGAAATCGCAGAGAAAAAGGCTGATGTTGTGCCAGTTCAACACAGAAGGT  
ATCACCAATCAATGTACAATTACTTGGTCACATGAGTCAAATGAGTATAGGCCCTC  
TCTATTTCTAACTCCTTGGCTGGGGCGAACATTGTTTATGCCAATTTTTGTAGGGT  
GAAGTGTGATAGAAGGGGTGGGCTAAGATTCACAATGAGTGGAAATTTTCACTTT  
TATCAAGTACTCATCAGCAATGTGGGATTGGATGGTGAGGTGATTGCTGTGAAAG  
TGAAGGGATCAAGAACAGCGTGGATACCTATGGCAAGAAACTGGGGACAAAAC  
GGCAATCCAATATCAACCTTATTGGACAGCCTCTATCTTTCGAGGTGACTACCAG  
CAGCAGAAGAACAACACTCACATCTTACAATGTTGCACCAGCAAACACTGGCAATTTGGC  
CAGATATTTGAAGGCAAGCAATTCTAGTATGAGAGGCTTTTAGAGTCGGGCATAG  
GTTACCGCTTCCATTTGCTTTCTCCAAGCTATGCGAAGAAGTAGGTACTTGGTCAA  
ACGGAGGTAAAGAAAGTCGGAGAGGAAAGTTGGGAAAAATAGGAATACAAGGTC  
CCAGTTATGTCTCTTTACCTGCTTTTATTGAGTAGAAAGTTAACAACCTCGTGAAAT  
GTGTAATTACTGAAACGTAAAGGTTTATGTTCACTTCAAAGTCAAAGAAAAGG  
TTAAGATATGTATCTCTTACCATGACTTCTCTACCAGGCAATCCTTGCTTTATGAA  
CTAAGCTGTGCTTTGAGATTTGCTACTTTGATTCTACAAGAATGATTATCAATTAA  
GCACAGCTGTGAAATTC