

## IDENTIFICATION

**Species:** *Populus trichocarpa*

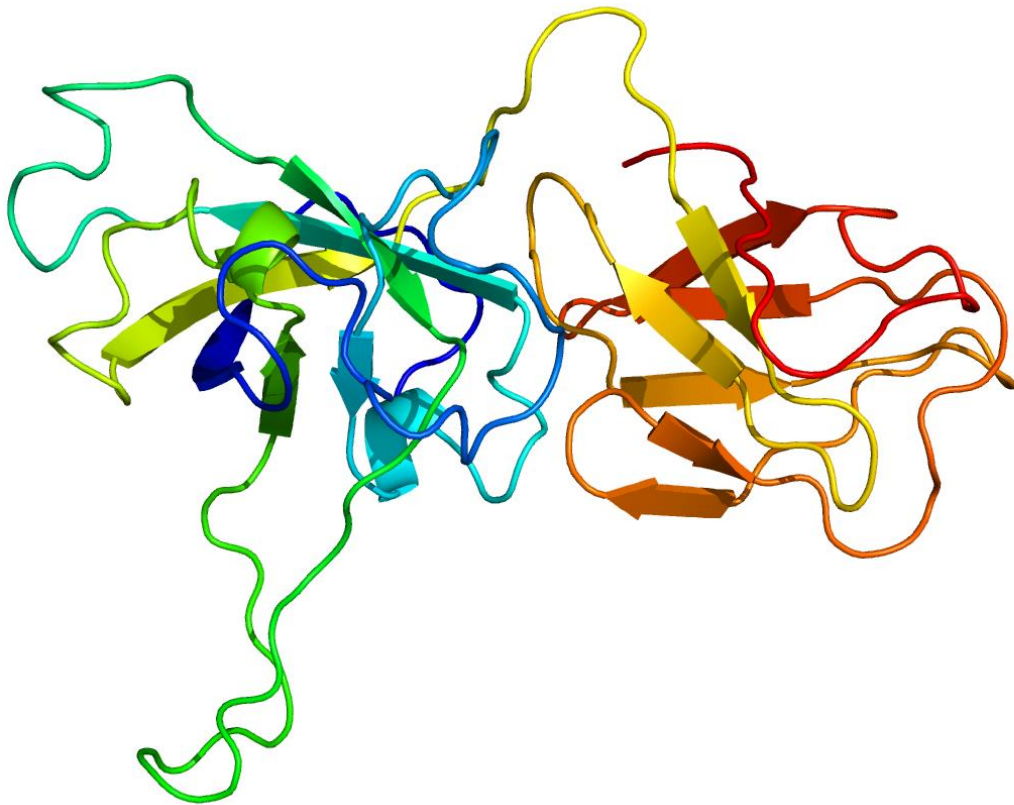
**Locus:** Potri.006G086100

**Gene Model:** Potri.006G086100.1.p

**Description:** PtEXPA-12

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

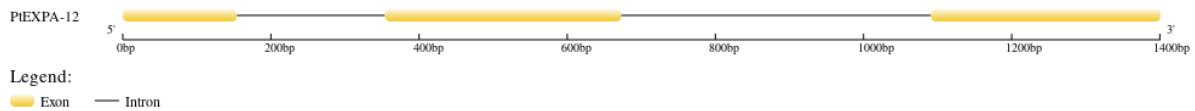
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa\\_v4\\_1](https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa_v4_1)

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

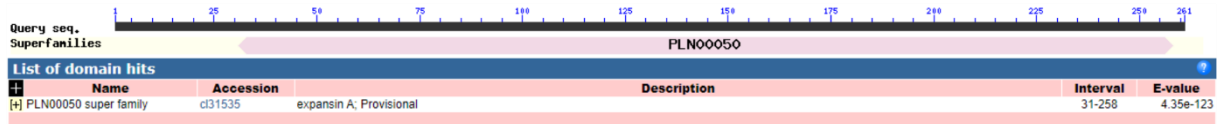
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PtEXPA-12

MAHHRLGLLCIVFLTSVFLAHARIPGVFTGGPWESAHATFYGGSDASGTMGGACG  
YGNLYSQGYGVNNTAALSTALFNGLSCGACFEIKCADDPRWCNPGNPSILVTATNFC  
PPNFAQPSDNGGWCNPPRPHFDLAMPMLKIAQYRAGIVPVAHRRVPCRKQGGIRFTI  
NGFRYFNLVLVTNVAGAGDIVNVWIKGSETDWMSMSRNWQNWQSNVAVLVGQSL  
SFRVRGSDGRTSTSKNVASPNWQFGQFTGKNFRI\*

### CDS (coding sequence)

>PtEXPA-12

ATGGCTCATCATCGGTTAGGTTTGCTCTGCATTGTCTTCCTGACCTCGGTCTTTGT  
GTTGGCTCATGCGAGGATCCCTGGAGTTTTACCGGTGGGCCTTGGGAGAGTGCT  
CATGCTACTTTCTATGGCGGGAGTGACGCCTCCGGA ACTATGGGAGGTGCATGTG  
GGTATGGCAATCTGTATAGCCAAGGATATGGAGTGAACACGGCAGCATTAAAGCA  
CAGCGTTATTCAACAATGGGTTGAGCTGCGGGGCTTGCTTCGAGATTAAGTGCGC  
AGATGATCCAAGATGGTGCAACCCAGGAAACCCATCCATCCTTGTAACCGCCACT  
AATTTCTGCCCTCCTAACTTTGCTCAACCCAGCGATAATGGTGGTTGGTGTAACCC  
ACCTCGTCCTCACTTTGACCTTGCTATGCCTATGTTCCCTAAGATCGCGCAGTACC  
GCGCTGGTATTGTCCCTGTCGCTCATCGCCGGGTACCGTGCAGGAAGCAAGGAGG  
CATCAGATTCATCAACGGTTTCCGTTACTTCAACCTGGTTTTGGTGACCAACG  
TGGCGGGTGCAGGGGATATCGTGAATGTGTGGATCAAGGGCTCCGAGACTGATT  
GGATGAGCATGAGCCGTA ACTGGGGACAGAACTGGCAATCCAACGCCGTACTCG  
TGGGCCAGTCGCTTTCTTTTCAGGGTTAGAGGCAGCGATGGCCGCACCTCTACTTCT  
AAGAACGTGGCATCACCTAATTGGCAGTTTGGTCAGACCTTCACGGGGCAAAA ACT  
TCCGCATCTGA

### Nucleotide

>PtEXPA-12

ATGGCTCATCATCGGTTAGGTTTGCTCTGCATTGTCTTCCTGACCTCGGTCTTTGT  
GTTGGCTCATGCGAGGATCCCTGGAGTTTTACCGGTGGGCCTTGGGAGAGTGCT  
CATGCTACTTTCTATGGCGGGAGTGACGCCTCCGGA ACTATGGGTAACCCCTCCCT  
TTCTTTTTTATCTCTTCCTCTTGCCCTTCTAAAAGTTTGCCTCTTCGAATTTTTTTT  
TAAAAAATAGTAGCTCGTCATGTATACTAAAGAAATGTCATAGTCAGGCTTGTA

ATAGACCAAGCATGTGAAATGTTGTTTCGATTGATTTTGTGGTTTGACAGATCTTG  
TGTTTGTATTTGTGTTTCAGGAGGTGCATGTGGGTATGGCAATCTGTATAGCCAAG  
GATATGGAGTGAACACGGCAGCATTAAAGCACAGCGTTATTCAACAATGGGTTGA  
GCTGCGGGGCTTGCTTCGAGATTAAGTGCGCAGATGATCCAAGATGGTGAACCC  
AGGAAACCCATCCATCCTTGTAACCGCCACTAATTTCTGCCCTCCTAACTTTGCTC  
AACCCAGCGATAATGGTGGTTGGTGTAAACCCACCTCGTCCTCACTTTGACCTTGCT  
ATGCCTATGTTCTTAAGATCGCGCAGTACCGCGCTGGTATTGTCCCTGTCGCTCA  
TCGCCGGTGAGTAATCTGCTTTTCTGTCCTTTATTTCTTTTCTTAATGGTTTTCGTG  
GCCAGATTCTGTTCTTTTCTTGATGTGTCATTTTCTTGTTTTTACGTTGAAGCGGC  
AGGAGTAAAGTTACTTTTTCTTTTGGATTATTATTATTTGATTTAAACCCGCATCG  
GCGGTCTGCCGTTGCCCGTTCTGTAGGTTTTTAAAAGACTTTGATAGCCTTCCATC  
ATAAATGGCATTATTTTCCCGGAAAATCAGGGTAGAAGCGACAATACACCTCCTC  
ATAGCCAACACCACCACCACTAATAGAAAAAATAACCCCATGCCGTATTTGTAT  
TTGTCTTATCTTTATAAATAAAAACATCTATCTACCTTATCGTATTCTGGCGGGGG  
TAAATTATATTTGGATTTGTTTTTGTTCAGGGTACCGTGCAGGAAGCAAGGAG  
GCATCAGATTCATCAACGGTTTCCGTTACTTCAACCTGGTTTTGGTGACCAAC  
GTGGCGGGTGCAGGGGATATCGTGAATGTGTGGATCAAGGGCTCCGAGACTGAT  
TGGATGAGCATGAGCCGTAACCTGGGGACAGAACTGGCAATCCAACGCCGTACTC  
GTGGGCCAGTCGCTTTCTTTTTCAGGGTTAGAGGCAGCGATGGCCGCACCTCTACTT  
CTAAGAACGTGGCATCACCTAATTGGCAGTTTGGTCAGACCTTCACGGGCAAAAA  
CTTCCGCATCTGA