

## IDENTIFICATION

**Species:** *Populus trichocarpa*

**Locus:** Potri.010G202500

**Gene Model:** Potri.010G202500.1.p

**Description:** PtEXPA-20

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

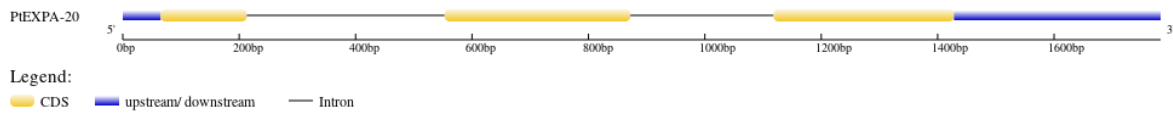
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa\\_v4\\_1](https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa_v4_1)

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

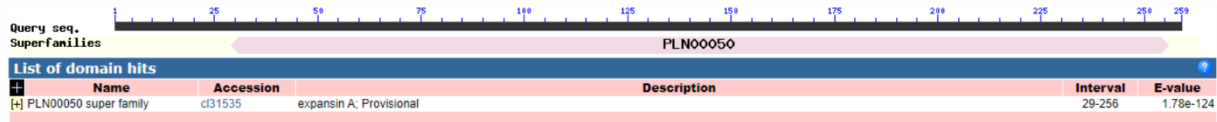
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PtEXPA-20

MAIRSTICVASLVFLTLVEARIPGVYTGGAWQSAHATFYGGSDASGTMGGACGYG  
NLYSQGYGVNTAALSTALFNGLSCGACFEIKCGNDPQWCHSGSPSILITATNFCPPN  
YALPSDNGGWCNPPRPHFDLAMPVFLKIAEYRAGIVPVS YRRVPCRKPGGIRFQINGH  
RYFNLVLITNVAGAGDIVKVS VKGSKTGWMSMRNWGQNWQSN SVLVGQSL SFRV  
TGSDRRTSTSWNVVPSNWQFSQTFVGKNFRV\*

### CDS (coding sequence)

>PtEXPA-20

ATGGCTATTAGGTCTACCATTTGTGTTGCGTCTTTGGTGCTGTTTTTGACTCTTGTC  
GAGGCAAGAATTCCTGGTGTTTACACTGGAGGAGCCTGGCAGAGCGCCCATGCTA  
CCTTTTACGGTGGCAGTGACGCCTCTGGGACTATGGGCGGTGCTTGTGGGTACGG  
CAACTTGTACAGCCAAGGCTATGGCGTGAATACCGCAGCACTAAGCACAGCCCTG  
TTCAACAATGGCCTTAGTTGTGGTGCTTGTCTTTGAAATAAAGTGCGGTAATGACC  
CACAATGGTGCCACTCTGGTAGCCCGTCAATTTTAATCACAGCAACAACTTTTG  
CCCTCCTAATTATGCATTGCCAGTGACAATGGTGGCTGGTGCAATCCTCCTCGTC  
CTCACTTCGATCTTGCTATGCCTGTGTTCCCTCAAGATCGCTGAGTACCGTGCTGGC  
ATCGTCCCTGTCTCTTACCGCCGGGTGCCGTGTAGAAAACCAGGGGGGATCAGGT  
TCCAAATCAACGGTCACCGTTACTTCAACTTGGTTTTGATCACCAACGTTGCAGGT  
GCAGGAGATATTGTGAAAGTGAGCGTGAAGGGATCAAAGACTGGATGGATGAGC  
ATGAGTCGTA ACTGGGGTCAA AACTGGCAGTCAA ACTCAGTTTTGGTTGGCCAGT  
CATTATCTTTCAGGGTCAACCGCAGTGATAGACGCACCTCTACTTCATGGAACGT  
TGTTCCTTCAA ACTGGCAATTTAGTCAA ACTTTCGTTGGAAAGAATTTTAGGGTTT  
AA

### Nucleotide

>PtEXPA-20

ACTCCCCCTGTCCCAAATCCCATCTCTAGAAGCCTCTTCATAGTCTAGCGACAG  
GTGGAAGCAATGGCTATTAGGTCTACCATTTGTGTTGCGTCTTTGGTGCTGTTTTT  
GACTCTTGTCGAGGCAAGAATTCCTGGTGTTTACACTGGAGGAGCCTGGCAGAGC  
GCCATGCTACCTTTTACGGTGGCAGTGACGCCTCTGGGACTATGGGTA CTGTCA  
TCTTGAACCGTTCATGCTAAGTAGTTAGCTTCTTGAATTTTGGATATGTTTCATGAG

TTGTTTCTACATTTTGTATAACCCCTCCCATGTTTTCTTCTTGCATTTCCCATGACA  
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CAATACCACGCATTGCAAATAAATATTAATAATTCCATTTGAAGTATTCAAAAACC  
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AAGTGCGGTAATGACCCACAATGGTGCCACTCTGGTAGCCCGTCAATTTTAATCA  
CAGCAACAAACTTTTGCCCTCCTAATTATGCATTGCCCAGTGACAATGGTGGCTG  
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CTGAGTACCGTGCTGGCATCGTCCCTGTCTCTTACCGCCGGTAAACATAACAACCT  
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TGATTGCATGATTTCCCTATGCTAGTATAGAATGACGGTCTTTCAAGATTTCTAAGC  
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GTTTGTTTTG