

## IDENTIFICATION

**Species:** *Populus deltoides*

**Locus:** Podel.06G117300

**Gene Model:** Podel.06G117300.1.p

**Description:** PdEXPA-12

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

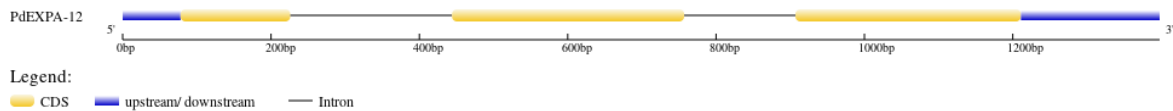
Phytozome: [https://phytozome-next.jgi.doe.gov/info/PdeltoidesWV94\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/PdeltoidesWV94_v2_1)

KEGG:-

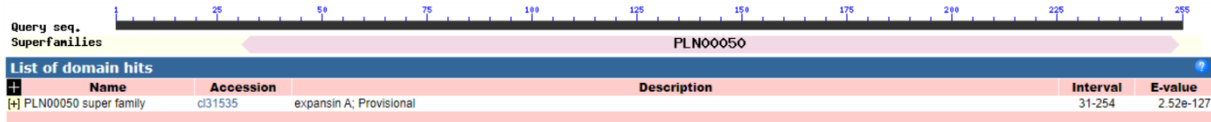
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PdEXPA-12

MATKAMQFSVFLQLFLVFSLLFHGTCGDRGGWQIGHATFYGGSDASGTMGGACGY  
GNLYSQGYGTSTAALSTALFNGLSCGACFQIRCNDPKWCHSSTITVTATNFCPPNY  
ALANDNGGWCNPPQLQHFDLAQPFLKIAQYRAGIVPVLFRRVPCVKKGGIRFTINGH  
SYFNLVLITNVAGAGDVHAVSVKGSRTGWQTMSRNWGDWQSN SYLNGQSLFRV  
TASDGRTVTSYNIVPANWQFGQTFEGGQF\*

### CDS (coding sequence)

>PdEXPA-12

ATGGCAACTAAAGCAATGCAATTTTCTGTATTCCTTCAGTTATTTCTTGTATTTCAG  
CTTGTATTTCATGGCACTTGTGGAGACCGTGGTGGCTGGCAGATTGGTCACGCC  
ACATTCTACGGCGGCAGTGACGCGTCTGGCACAATGGGGGGAGCTTGTGGATATG  
GAAACCTGTACAGCCAAGGGTATGGAAGTAGCACTGCAGCTCTAAGCACTGCTCT  
TTTCAATAATGGCTTGAGCTGTGGAGCATGCTTCCAGATACGCTGTAACAATGAT  
CCTAAATGGTGCCATTCCAGTACCATTACCGTGACAGCTACCAACTTTTGTCCCTCC  
TAATTATGCTTTGGCTAATGACAATGGTGGTTGGTGCAATCCCCCTCTACAACATT  
TTGATTTGGCGCAGCCAGCTTCTTGAAAAATCGCGCAATATCGAGCTGGGATTGT  
TCCTGTACTCTTTAGAAGGGTCCCATGTGTGAAGAAAGGAGGCATAAAGTTCCACC  
ATTAATGGTCATTCTTACTTCAACCTGGTCTTGATAACCAATGTGGCTGGTGCAGG  
GGATGTTTCATGCTGTGTCTGTCAAGGGATCTAGAAGTGGGTGGCAAACCATGTCA  
AGGAATTGGGGCCAAGATTGGCAGAGCAACTCATACTCAACGGTCAAAGCCTC  
TCCTTCAGAGTCACAGCAAGTGATGGCAGGACTGTTACCAGCTACAATATTGTGC  
CTGCGAATTGGCAATTTGGACAACTTTCGAAGGAGGCCAATTCTAG

### Nucleotide

>PdEXPA-12

CAAGCTAGCCTTTGTGTCCCTTCTTAATCAAGCTTTACTTGTCTTGTGCACAGT  
AACAAACAAAAACATATATAATGGCAACTAAAGCAATGCAATTTTCTGTATTCC  
TTCAGTTATTTCTTGTATTTCAGCTTGTATTTCATGGCACTTGTGGAGACCGTGGT  
GGCTGGCAGATTGGTCACGCCACATTCTACGGCGGCAGTGACGCGTCTGGCACAA  
TGGGTAAGCTAATTAAGCACATTAGAGTGTGGCCACATGAGATGATCTTGGTTAT  
ATGTGTATCACATGTGAACACGTGAATGCTTATTCCAAGCGTGCATGATCGAGAT

CGAACAATTAATCACAGGAGATGTACTTGTATATTGCAATTATTTCCATACAATA  
AGTCTTCATGCTTTGGTCTTGTGTTTCCTATAAGATGCATGTGGTACTGGTTGCAG  
GGGGAGCTTGTGGATATGGAAACCTGTACAGCCAAGGGTATGGAACTAGCACTG  
CAGCTCTAAGCACTGCTCTTTTCAATAATGGCTTGAGCTGTGGAGCATGCTTCCAG  
ATACGCTGTAACAATGATCCTAAATGGTGCCATTCCAGTACCATTACCGTGACAG  
CTACCAACTTTTGTCTCCTAATTATGCTTTGGCTAATGACAATGGTGGTTGGTGC  
AATCCCCCTCTACAACATTTTGATTTGGCGCAGCCAGCTTTCTTGAAAATCGCGCA  
ATATCGAGCTGGGATTGTTCCCTGTACTCTTTAGAAGGTATTTTCAAGACATCCTTA  
ATTAGTAAAATGTCATGGCATCAGCCATGACCGTGCCTTTGTCTAGTCCATTTCAG  
AAGTTCTATTATTGTTCCCTTAATGTTTGACAATTTGAAACAACATCATTTTAATTT  
GTTTGTGGTTTCTTGACAGGGTCCCATGTGTGAAGAAAGGAGGCATAAGGTTTCAC  
CATTAAATGGTCATTCTTACTTCAACCTGGTCTTGATAACCAATGTGGCTGGTGCAG  
GGGATGTTTCATGCTGTGTCTGTCAAGGGATCTAGAACTGGGTGGCAAACCATGTC  
AAGGAATTGGGGCCAAGATTGGCAGAGCAACTCATACTCAACGGTCAAAGCCT  
CTCCTTCAGAGTCACAGCAAGTGATGGCAGGACTGTTACCAGCTACAATATTGTG  
CCTGCGAATTGGCAATTTGGACAACTTTCGAAGGAGGCCAATTCTAGTAAAGTT  
AAATGCCACCAAGACTTGTTTTTCAAGCTGAAAAAACATGTAGTTATATGTGTG  
GCCGGTTATGCTGAGGTACCCAAAGGCACCAGGCTTTCAAGTGCCAGTATGTATA  
CTAATTAATCCCAGAATTGTAAAAAAGAAAAAGAAAAAGGAAAGAAGGCATG  
GTATGGAATAAGAAGA