

IDENTIFICATION

Species: *Populus trichocarpa*

Locus: Potri.006G108000

Gene Model: Potri.006G108000.1.p

Description: PtEXPA-13

Family: Alpha Expansin

3D structure:



GENOME DATABASES

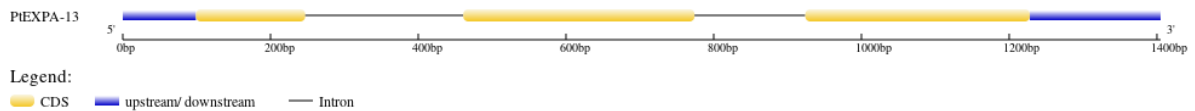
Phytozome: https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa_v4_1

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

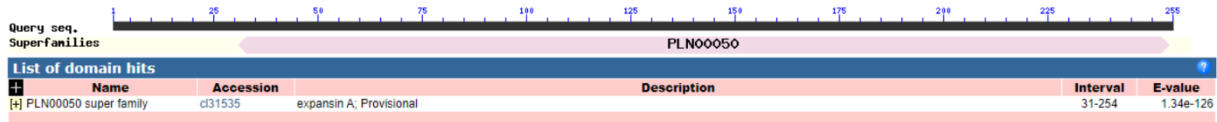
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PtEXPA-13

MATKAMQFSVFLQLFLVFSLLFHGTCGDRGGWQIGHATFYGGSDASGTMGGACGY
GNLYSQGYGTSTAALSTALFNGLSCGACFQIRCNDPKWCHSSTITVTATNFCPPNY
ALANDDGGWCNPPQLQHFDLAQPFLKIAQYRAGIVPVLFRRVPCVKKGGIRFTINGH
SYFNLVLITNVAGAGDVHAVSVKGSRTGWQTMSRNWGDWQSN SYLNGQSLFRV
TASDGTTVTSYNIVPANWQFGQTFEGGQF*

CDS (coding sequence)

>PtEXPA-13

ATGGCAACTAAAGCAATGCAATTTTCTGTATTCCTTCAGTTATTTCTTGTATTCAG
CTTGTATTTTCATGGCACTTGTGGAGACCGTGGTGGCTGGCAGATTGGTCACGCC
ACATTCTACGGCGGCAGTGACGCGTCTGGCACAATGGGGGGAGCTTGTGGATATG
GAAACCTGTACAGCCAAGGGTATGGAAGTAGCACTGCAGCTCTAAGCACTGCTCT
TTTCAATAATGGCTTGAGCTGTGGAGCATGCTTCCAGATACGCTGTAACAATGAT
CCTAAATGGTGCCATTCAGTACCATCACCGTGACAGCTACCAACTTTTGTCCCTCC
TAATTATGCTTTGGCTAATGACGATGGTGGTTGGTGCAATCCCCCTCTACAACATT
TTGATTTGGCGCAGCCAGCTTTCTTGAAAATCGCGCAATATCGAGCTGGGATTGT
TCCTGTACTCTTTAGAAGGGTCCCATGTGTGAAGAAAGGAGGCATAAAGTTCCACC
ATTAATGGTCATTCTTACTTCAACCTGGTCTTGATAACCAATGTGGCTGGTGCAGG
GGATGTTTCATGCTGTGTCTGTCAAGGGATCTAGAAGTGGGTGGCAAACCATGTCA
AGGAATTGGGGCCAAGATTGGCAGAGCAACTCATATCTCAACGGCCAAAGCCTC
TCCTTCAGAGTCACAGCAAGTGATGGCACGACTGTTACCAGCTACAATATTGTGC
CTGCGAATTGGCAATTTGGACAACTTTCGAAGGAGGCCAATTCTAG

Nucleotide

>PtEXPA-13

ACCACGCTCGAGCTAGCCTTTGTGTCCTTCCTCTAATCAAGCTTTATTTCTTGCCA
CTACTTGTCTTTTGCACAGTAACAACACAAAAACATATATAATGGCAACTAAA
GCAATGCAATTTTCTGTATTCCTTCAGTTATTTCTTGTATTCAGCTTGTATTTTCAT
GGCACTTGTGGAGACCGTGGTGGCTGGCAGATTGGTCACGCCACATTCTACGGCG
GCAGTGACGCGTCTGGCACAATGGGTAAGCTAAGCACATTAGAGTGTGGCCACAT
TAGATGATCTAGGTTATATGTGTATCACATGTGAACACGTGAATGCTTATTCCAA

GCGTGCATGATCGAGATCGAACAATTAATCACAGGAGATGTACTTGTATATTGCA
ATTATTTCCATACAACAAGTCTTCATGCTTTGGTCTTGTGTTTCCTATAAGATGCA
TGTGGTGCTGGTTGCAGGGGAGCTTGTGGATATGGAAACCTGTACAGCCAAGG
GTATGGAAGTACTGACTGCAGCTCTAAGCACTGCTCTTTTCAATAATGGCTTGAGC
TGTGGAGCATGCTTCCAGATACGCTGTAACAATGATCCTAAATGGTGCCATTCCA
GTACCATCACCGTGACAGCTACCAACTTTTGTCCCTAATTATGCTTTGGCTAAT
GACGATGGTGGTTGGTGCAATCCCCCTCTACAACATTTTGATTTGGCGCAGCCAG
CTTTCTTGAAAATCGCGCAATATCGAGCTGGGATTGTTCCCTGTACTCTTTAGAAGG
TATTTTCAAGACATCCTCAATTAGTAAAATGTCATGGCATCAGTCATGACCGTGC
CTTAGTCTAGTCCATTCAGAAGTTCTATTATTGTTCCCTTAATGTTTGACAATTTGA
AACAAACATCATTTTAATTTGTTTGTGGTTTCTTGACAGGGTCCCATGTGTGAAGAA
AGGAGGCATAAGGTTACCATTAATGGTCATTCTTACTTCAACCTGGTCTTGATA
ACCAATGTGGCTGGTGCAGGGGATGTTTCATGCTGTGTCTGTCAAGGGATCTAGAA
CTGGGTGGCAAACCATGTCAAGGAATTGGGGCCAAGATTGGCAGAGCAACTCAT
ATCTCAACGGCCAAAGCCTCTCCTTCAGAGTCACAGCAAGTGATGGCACGACTGT
TACCAGCTACAATATTGTGCCTGCGAATTGGCAATTTGGACAAACTTTCGAAGGA
GGCCAATTCTAGTAAAGTTAAATGCCACCAAGACTTGTTTTTCAAGCTGAAAAA
ACATGTAGTTATATGTGTGGCCGTTATGCTGAGGTACCCAAAGGCACCAAGGCT
TTCAAGTGCCAGTATGAATACTAATTAATTCCCAGAATTGTAAAAGAAAAAAGA
AAAATGAAAGAAGGTATGGTATGG