

IDENTIFICATION

Species: *Populus trichocarpa*

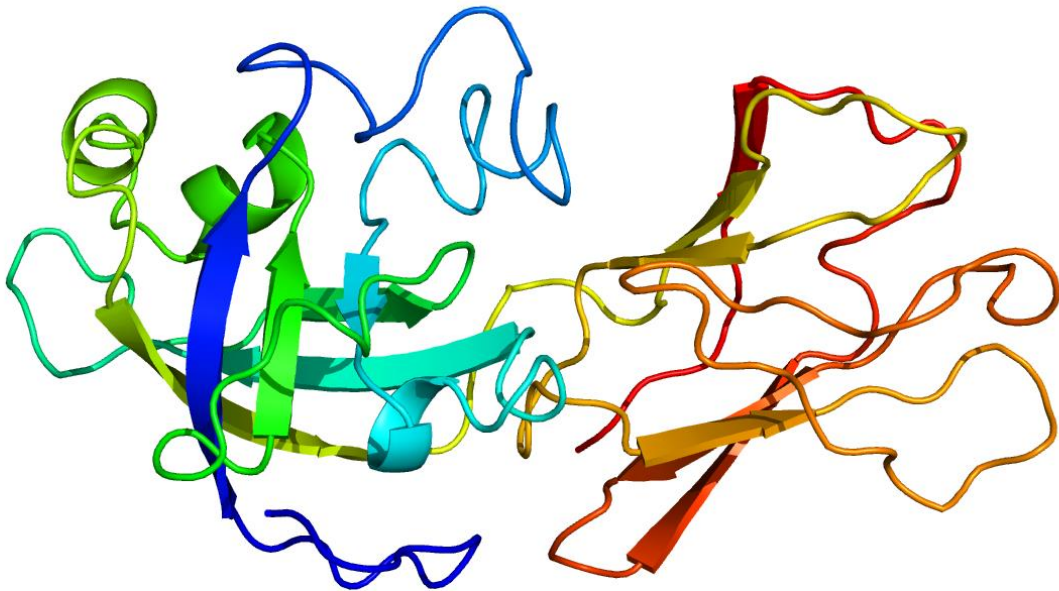
Locus: Potri.013G134300

Gene Model: Potri.013G134300.1.p

Description: PtEXPB-01

Family: Beta Expansin

3D structure:



GENOME DATABASES

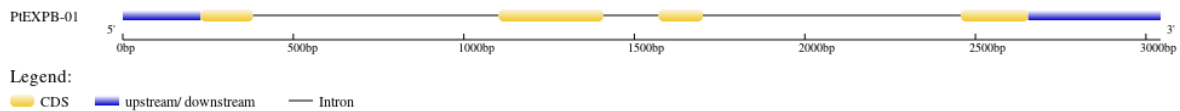
Phytozome: https://phytozome-next.jgi.doe.gov/info/Ptrichocarpa_v4_1

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

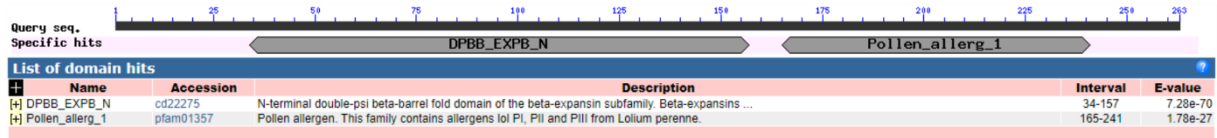
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PtEXPB-01

MQLLGLHVVVLLKCFLLVVFQYHHTHDVADLHWKPATATWYGSPDGDGSNGGACGYGSLVDVKPLRARVGA VSPILFKNGEGCGACYKVRCLDKSICSERAVTIIVTDECPGGYCSNGNTHFDLSGAAFGHMAISGENGQLRNRGEIPVIYRRTPCCKYPGKNIAFHVNEGSTDYWLSLLVEFEDGDGDVGSMHIREAGGTEWLEMNHLWGANWCVIRGPLKGPLSVKLTTLSTGRTLSARDVIPRNWVPKATYTSRLNFFH*

CDS (coding sequence)

>PtEXPB-01

ATGCAGCTCTTGGGGTTACATGTTGTGGTGCTCTTGAAGTGTTTTTTAGTAGTTTT
TGGACAGCAATATCATACTCACCATGATGTGGCTGACTTACACTGGAAACCGGCC
ACTGCCACCTGGTACGGCAGTCCTGACGGTGATGGTAGTAACGGAGGGGCGTGT
GGGTACGGGTCATTAGTGGATGTGAAGCCATTGAGAGCCAGAGTTGGTGCAGTG
AGCCCCATACTCTTCAAGAATGGAGAAGGATGTGGGGCATGTTACAAAGTTAGGT
GCCTAGACAAGAGCATATGCTCAGAAAGGGCAGTGACCATAATTGTTACAGATG
AGTGTCCAGGTGGGTATTGTTCAAATGGTAACACCCACTTTGACCTCAGTGGTGC
AGCCTTTGGTCATATGGCTATTTCTGGTGAGAATGGTCAGCTCAGGAACCGAGGT
GAAATCCCAGTCATATATCGCAGGACCCCATGCAAGTACCCTGGGAAGAACATTG
CCTTCCATGTCAATGAAGGTTCAACAGATTATTGGCTATCCCTTCTAGTGGAAATTT
GAAGATGGCGATGGTGTGTTGGATCCATGCATATCAGAGAAGCGGGTGGCACT
GAGTGGCTAGAGATGAATCACCTGTGGGGTGCAAATTGGTGTGTTATTAGGGGAC
CCTTGAAAGGACCATTATCAGTGAAGTTAACAACACTATCAACAGGAAGAACAC
TGTCTGCAAGAGATGTGATTCCAAGAAATTGGGTCCCAAAGCTACTTACACCTC
TAGGCTCAATTTCTTCCATTAA

Nucleotide

>PtEXPB-01

ACACAGAGAACTCCATTGAGCAACAGCACTCCACTACATCGTAAGCAAGTTTGTGTTTTGTTTTCCAGAAAAGTTCGTCGTCAAAGGTTGTAAGAAGACTGTTCTTTGACTACTTTTCTTGC GTTCTGCGCCGTGAATGTGACATTGTCAAGTAGAGGTGGTGGTGGTGTGCGGTGGGTGGAGATTGGTGGTGCCGTGTATTTCTTAGAGAGAACCTTTTGG

CCCATAATGCAGCTCTTGGGGTTACATGTTGTGGTGCTCTTGAAGTGTTTTTTAGT
AGTTTTTTGGACAGCAATATCATACTCACCATGATGTGGCTGACTTACACTGGAAA
CCGGCCACTGCCACCTGGTACGGCAGTCCTGACGGTGATGGTAGTAACGGTAAGA
GCTTACTATACCCGCTATATTTTTGGTAGTGTGAGAATTTTAAATCTTGTTTTCTCG
GTTTTTCTCGGTCAAACCTATAAGATAGTTAATGGAACAAATCCTCTTTACCGTCCA
CGTTTTTTTTTATAACGAAGAGCACATTAGTCTAAAACATAGTTATTAACCCGGC
CCGGATATTGACCCGGCTAAGAGACCAGGTTTCGGGTTTCATGGGTCAAAGTTCA
TTATTTTTGGCGTCTTCCCTTTGTTCACAATTAAGCCAATAAATTGGCTTTTTGGA
AGAAATGCTCTTCTTCTAAGCTCAATTTCTACTATTTTCCTTGAATCGCATAAAA
CCAAGTTGATTTTTTTACTCTAGTTTGGTTCAAATTACCCAATTTATAGTACAAAA
AATCTGGACCTATATGGCATATATATTCTAAGCTTAGCAAATTTGACATTATGTTT
TTAAAATTCTTAAATAGTATTTGGTATGATGGATGATTATATTTAATATATTTTTT
TTAGAAATATATTAATAATTTTTATTTTTTAAAATTTATTTTTAACATCAACATATT
AAAATAAAAAAATATATAACAAACAATTAATTTAAAAACAACAACACTTTTTTCA
AAAAACAACAAACAATACCTTCGCAGAAACAACACACCCAGAACCCAATATC
TGCATACCAAGGTATGTGACAGCAGGTTATATCAATGTGCAGGAGGGGCGTGTG
GGTACGGGTCATTAGTGGATGTGAAGCCATTGAGAGCCAGAGTTGGTGCAGTGA
GCCCCATACTCTTCAAGAATGGAGAAGGATGTGGGGCATGTTACAAAGTTAGGTG
CCTAGACAAGAGCATATGCTCAGAAAGGGCAGTGACCATAATTGTTACAGATGA
GTGTCCAGGTGGGTATTGTTCAAATGGTAACACCCACTTTGACCTCAGTGGTGCA
GCCTTTGGTCATATGGCTATTTCTGGTGAGAATGGTCAGCTCAGGAACCGAGGTG
AAATCCCAGTCATATATCGCAGGTATGGAGGGCTCGTGTTTTTATCTGTGTGCTAT
TTGCAGCAGGTCTTTCTGTTCCCTCTTTCTAGTTTAAAGTTCAACTGTTTAACTGTCT
GTGTTTTGTCTTGTTTATTTTGCCACTGCCCTTACTAATCTCGAAATGACCTAAATC
ACCCATTTTTGTAGGACCCCATGCAAGTACCCTGGGAAGAACATTGCCTTCCATG
TCAATGAAGGTTCAACAGATTATTGGCTATCCCTTCTAGTGAATTTGAAGATGG
CGATGGTGATGTTGGATCCATGCATATCAGAGAAGTAACCTTCTCCTTCCGTAAT
CTCAATTTTTGTGCATTACTTTTTGTACTTCTAACACCCCCAGATACAGATGTAAA
GCTGCAAATTAGCAGAATAAAAAAAGCACCATGCTCTTAGGCTCCGGAAAACCT
TGGTTATGTCCTCCAACCTTTGTGATGCAAAGTGAGATTATATTTACTCCTTGACTC
ACAAAGTGCAAAGAATCTCTCATCTTTACATCTTCTAAAGTGTGCACTCTCGCATT
TAACTAAAAGAACTCCCTAAACGTGCTACTTTAGATCATCGAAGTAGTGCCCTT
TTCATGATATTAGACATTTAATTTTTCTGAGGGGAAGAGATTTCCAATAATCAAAT
GGCATTTTCCAACATCAACACATCTTTATTAAGTAAACTTTGCACTTTCTTAAGTA
GTTAATGAAAGAAAGAAATATACACACATTTGCTTTATTTTCCAGCCATGCTTTGC
CAATGGTGCCATTGTGCTCAATGACCCAAAAGCACACTTTGTTTCCTGCTTTGTTT
TTATCCTTTCTATCCAACCTATTTTCTTGACTCGATGCATGTGACAAATGGGTCACT
CTTAAAATGACCATGGGAAGGCATTGAAATTCAAGTATCTGAAAAAAGAATCCA
AGGACAAAACCTGGATTCAAGTATCTGAAAAAGCGACCTAAATGGTGAAGGAATG
AAGCTATAAATCTCAATACGCAAAATAGAAATTCGACGATTTTCTCACTGTTTTTA
CATTTGTATTGGCAGGCGGGTGGCACTGAGTGGCTAGAGATGAATCACCTGTGGG
GTGCAAATTGGTGTGTTATTAGGGGACCCTTGAAAGGACCATTATCAGTGAAGTT
AACAACACTATCAACAGGAAGAACACTGTCTGCAAGAGATGTGATTCCAAGAAA
TTGGGTCCCAAAAGCTACTTACACCTTAGGCTCAATTTCTTCCATTAAACTGCAA
AGCTTCGAGCTTCAAGCTTTTCTTGGTGTGAATCCACGTGAGAGAAACAAGCCCA
TTTTTCTGAAAGTTCCTCTTGTTCAAGTTGACGCAAAGTAGCCGTTGACTGGCCTT
TTTTATTTTTATTTTAGAAGAGAGTAGCCGTTGGATTGCACAATTAATGGCATCCA

CCAGTGCTCTTTCTTTCTTTCTTTTAACTTTTATTTGTGTCTTTTAATAGATTTTTTC
CTACTTTTTTAGTGTGAAAGTGTTTTGAATTTAGATCATCAATGTAGCCCTCTCCA
AAGGAGAGAGCGTGTAATATGTTTGCTATGCTTTTGTGTAAGTTTTATGCCCTTT
GGATTATTGATGAATTTGTACTAGAAATACTAAGGCTTGTTAAA