

IDENTIFICATION

Species: *Populus deltoides*

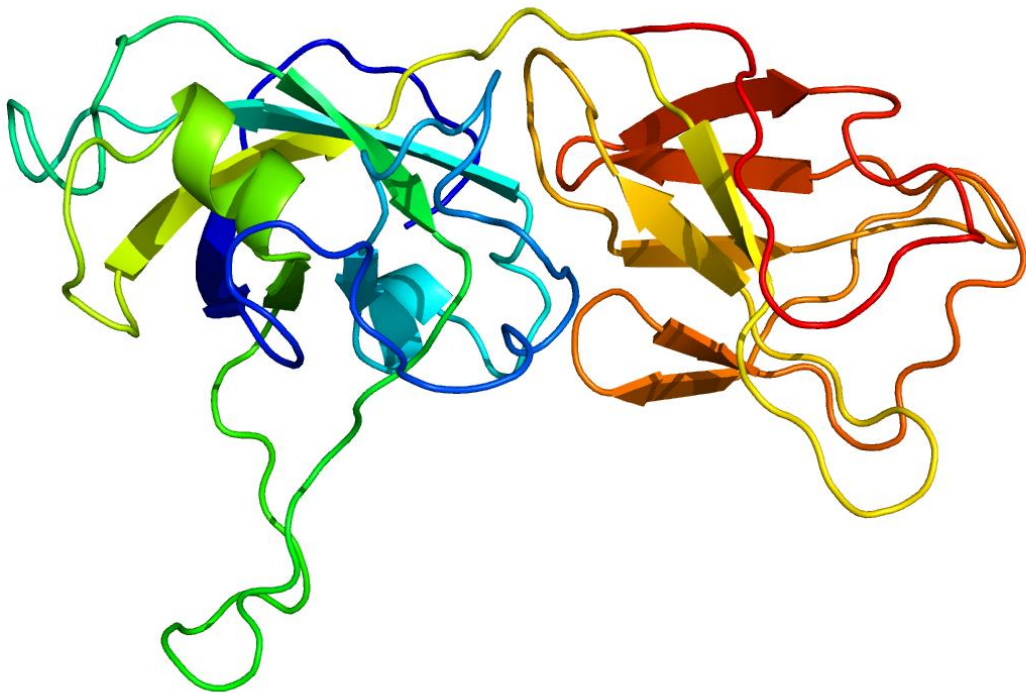
Locus: Podel.08G071000

Gene Model: Podel.08G071000.1.p

Description: PdEXPA-13

Family: Alpha Expansin

3D structure:



GENOME DATABASES

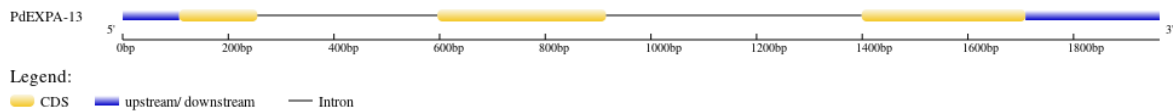
Phytozome: https://phytozome-next.jgi.doe.gov/info/PdeltoidesWV94_v2_1

KEGG:-

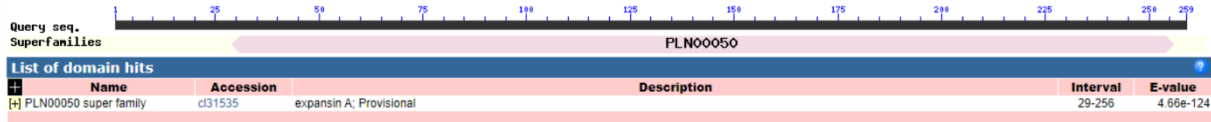
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PdEXPA-13

MAARATISFISLVLLLSLVEARIPGVYVTGEAWQSAHATFYGGNDASGTMGGACGYG
NLYSQGYGVNTAALSTALFNGLSCGACFEIKCANEPQWCHSGSPSIFITATNFCPPN
YALPSDNGGWCNPPRPHFDLAMPMFLKIAEYRAGIVPVS YRRVPCRKPGGIRFTINGH
RYFNLVLITNVAGAGDIVKVS VKGSRTGWMSMSRNWQNWQSN SVLVGQSL SFRV
TGSDRRTSTSWNVVPSNWQFGQTFAGKNFRV*

CDS (coding sequence)

>PdEXPA-13

ATGGCTGCCAGGGCCACCATTTCTTTTATATCTTTGGTGCTGCTTTTGAGTCTTGTT
GAGGCAAGAATTCCCGGTGTTTACACTGGTGAAGCCTGGCAGAGCGCCCATGCTA
CTTTTTATGGTGGCAATGATGCCTCAGGAACCATGGGCGGTGCTTGCGGGTACGG
TAACTTGTACAGCCAAGGCTATGGCGTGAATACTGCAGCACTCAGCACAGCCCTG
TTCAACAATGGCCTTAGTTGCGGTGCTTGT TTTGAAATAAAGTGTGCTAATGAAC
CACAATGGTGCCACTCTGGAAGCCCATCAATTTTTATCACAGCAACAACTTTTG
CCCTCCTAATTATGCTTTGCCTAGTGACAATGGTGGTTGGTGCAATCCTCCCCGCC
CTCACTTCGATCTTGCTATGCCTATGTTCTCAAGATCGCCGAGTACCGTGCTGGC
ATCGTCCCTGTCTCTTACCGCCGGGTGCCGTGTAGAAAGCCAGGAGGAATCAGGT
TCACAATAAACGGACACCGTTACTTCAACTTGGTTTTGATCACCAACGTTGCAGG
CGCAGGAGATATAGTGAAGGTGAGCGTGAAGGGATCCAGGACTGGGTGGATGAG
CATGAGCCGTA ACTGGGGTCAA AACTGGCAGTCAA AACTCAGTTTTGGTTGGTCAG
TCGTTGTCTTTCAGGGTCACGGGCAGTGATAGACGCACGTCTACTTCATGGAATG
TTGTTCCATCAAATTGGCAATTTGGGCAA AACTTTCGCCGGAAAGAATTT CAGGGT
TTAA

Nucleotide

>PdEXPA-13

CCTTCATAAATAGCAGTCCACACTCTGCATTCTCCACACACTCCCCACTTTCCCAA
ATCCCCATCTCCAGAAGCCCCTTCGTAGTTTAGTAGTGATCAGTGAAAGCAATGG
CTGCCAGGGCCACCATTTCTTTTATATCTTTGGTGCTGCTTTTGAGTCTTGTTGAG
GCAAGAATTCCCGGTGTTTACACTGGTGAAGCCTGGCAGAGCGCCCATGCTACTT
TTTATGGTGGCAATGATGCCTCAGGAACCATGGGTACTGTAATCTCGAAACCTTC

ATGCTAAGTAGCTAGCTTCTTGAATTCTTGCCATGTTTCATGAATTGTTTCTGCATT
TTGCACAACCCATGTTTTGCTGTTGCATTTTCCATGACAGAGGCATAAAAAACAAA
CAAAAAAAGTAATCCCTTACCTTGCTCTGCCTTTTTACAGCACCGAACTCTGTTTT
AACCAAAATCAGATTTCAAAAGCATTTAAACACAATAAGCTCACACCAATCCATG
CATTGCCTATGAATATTTAAAATTCCATTCAAGAATTCATAAACCAAAAAGCCAAAA
TCCCAAATAAGGAAATTAATTGATCTTATTTCTTGTGTTTCAGGCGGTGCTTGCGGG
TACGGTAACTTGTACAGCCAAGGCTATGGCGTGAATACTGCAGCACTCAGCACAG
CCCTGTTCAACAATGGCCTTAGTTGCGGTGCTTGTTTTGAAATAAAGTGTGCTAAT
GAACCACAATGGTGCCACTCTGGAAGCCCATCAATTTTTATCACAGCAACAACT
TTTGCCCTCCTAATTATGCTTTGCCTAGTGACAATGGTGGTTGGTGCAATCCTCCC
CGCCCTCACTTCGATCTTGCTATGCCTATGTTCCCTCAAGATCGCCGAGTACCGTGC
TGGCATCGTCCCTGTCTCTTACCGCCGGTAAACATCCAATTCCACCATACTTGTCT
CTTATTCTTTTAAATGTTAGTCGTAGTATTATCTCTAATCAGTTTCTTACTCAACTA
TTATTGCTATAACTAGAAAAAAACTATTTCTTGAATCAGATTAATCAATTTGAT
TGATTGATGGAACAACGAGTATTTTGTGTTATAATTACTATGCAGTGGGTCAGAC
ATAGCAGTTGATTTGTTTCATATGAATCTGGACTATGAAAATGTGATAGGTTGCTC
TAAAAAATAAAAGCATGATTGACTGCTCGAAGGTTTCCTAGTATGGTATGATTGG
TCTTTCAAGATTCACGTGTACAATCTTCTGAAACCTCTGATCAAATGTATCTTGT
GAAGAAATCAGAACCGTTTCTCGTTAATCAAGGAGAATCTTATCTACTTTGTCCC
CACTTGCATGGGGAGGTCCACATCCCCTCCGAGAATCACTAAAACGCCATTTTTT
TTATCCAGGGTGCCGTGTAGAAAGCCAGGAGGAATCAGGTTCACAAATAAACGG
ACACCGTACTTCAACTTGGTTTTGATCACCAACGTTGCAGGCGCAGGAGATATA
GTGAAGGTGAGCGTGAAGGGATCCAGGACTGGGTGGATGAGCATGAGCCGTAAC
TGGGGTCAAACTGGCAGTCAAACCTCAGTTTTGGTTGGTCAGTCGTTGTCTTTCAG
GGTCACGGGCAGTGATAGACGCACGTCTACTTCATGGAATGTTGTTCCATCAAAT
TGGCAATTTGGGCAAACCTTTCGCCGGAAGAATTCAGGGTTTAAAATTCCCGCT
TGATATTTTGTAATTTTTTATTTCCCTGTGCCTTTTTCTTTTCTAAATGGGAAAAAAA
AAAAAGGAAATGAGGAAAGAGTGTCCGGTGAAGCGAGTTGTTTTTACTTTATTTA
AAGTGTTTTTTCGATGGGTTAATGGGTGAAAAAGTAAATGGAAGGTCGGAAGCTG
AGGAGGCTGCAAAGTTAAATGTAGCCCGCCGCTTTTGTTTACCATATGATAAATT
AATATATGTATACACTACATTAA