

IDENTIFICATION

Species: *Populus deltoides*

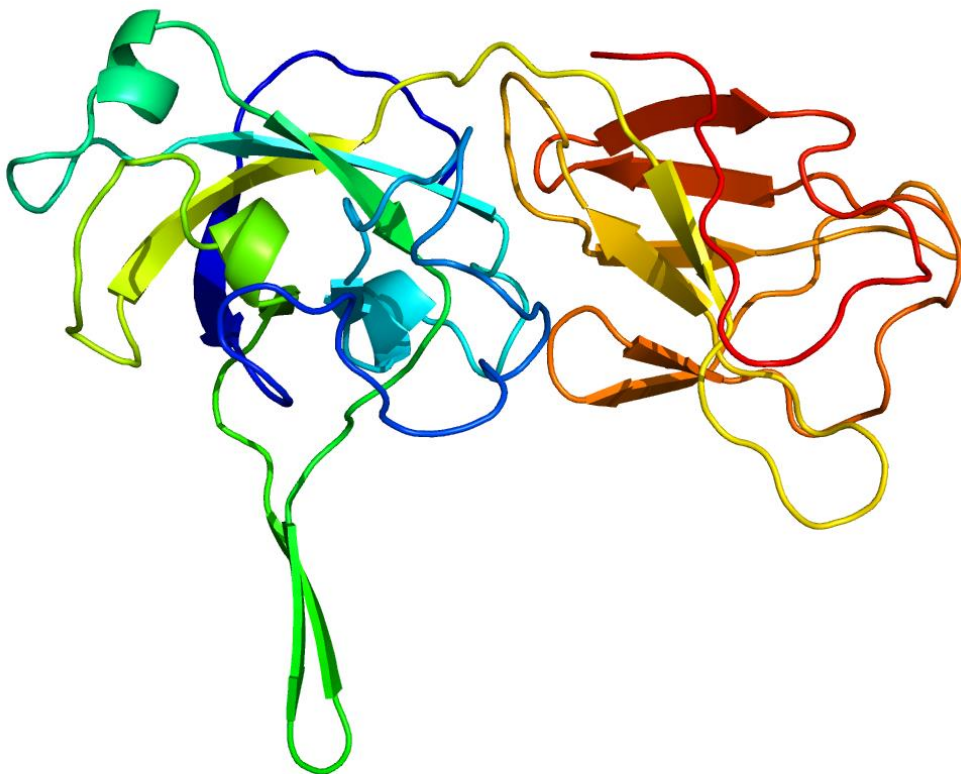
Locus: Podel.09G175000

Gene Model: Podel.09G175000.1.p

Description: PdEXPA-16

Family: Alpha Expansin

3D structure:



GENOME DATABASES

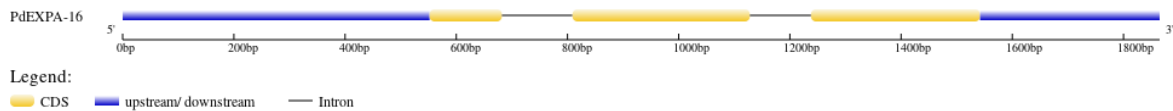
Phytozome: https://phytozome-next.jgi.doe.gov/info/PdeltoidesWV94_v2_1

KEGG:-

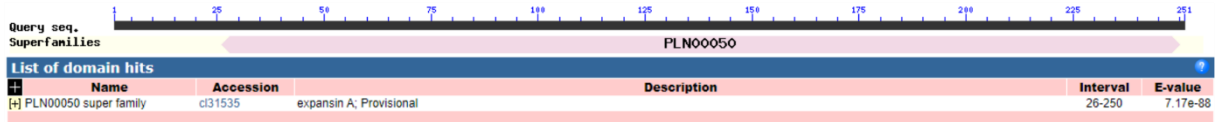
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PdEXPA-16

MGALKAILLYLIHQTWKITADDEEWKSATATYVKETSGSIIVEGACGYGDLHRATY
GKYSAGLSSMLFNRGSTCGACFEVRCVDHILWCLQGSPSVILTATDFCPPNYGLSSDY
GGWCNFPKEHFEMSEAAFAEIAEKKADVVPVQHRRVKCDRRGGLRFTMSGNFHFYQ
VLISNVGLDGEVIAVKVKGSRATAWIPMARNWQNWQSNINLIGQPLSFVTTSSRRT
LTSYNAVAPANWQFGQIFEGKQF*

CDS (coding sequence)

>PdEXPA-16

ATGGGTGCTCTAAAAGCCATTCTTCTCTACTTGATTATACACCAAACATGGAAGA
TCACAGCTGATGATGAGGAATGGAAGTCTGCTACTGCAACATACGTTAAGGAGA
CAAGTGGATCCATCATTGTAGAAGGTGCTTGTGGGTATGGGGACCTTCACAGGGC
CACCTATGGAAAATACAGTGCTGGACTAAGTAGCATGCTGTTCAACAGAGGGAG
TACCTGTGGGGCTTGCTTCGAGGTCAGATGTGTAGACCACATCTTATGGTGCCTG
CAGGGTAGCCCCCTCCGTCATTCTCACTGCAACAGATTTCTGCCCTCCAAATTACGG
GCTTTCATCGGATTATGGTGGCTGGTGTAAATTTCCCAAAGAACAACCTTTGAGATGT
CAGAAGCGGCATTTGCTGAAATCGCAGAGAAAAAGGCTGATGTTGTGCCAGTTC
AACACAGAAGGGTGAAGTGTGATAGAAGGGGTGGGCTGAGATTCACAATGAGTG
GAAATTTTCACTTTTATCAAGTACTCATCAGCAATGTGGGATTGGATGGTGAGGT
GATTGCTGTGAAAGTGAAGGGATCAAGAACAGCGTGGATACCTATGGCAAGAAA
CTGGGGACAAAACCTGGCAATCCAATATCAACCTTATTGGACAGCCTCTATCTTTC
GAGGTGACTACCAGCAGCAGAAGAACTCACATCTTACAATGTTGCACCAGCA
AACTGGCAATTTGGCCAGATATTTGAAGGCAAGCAATTCTAG

Nucleotide

>PdEXPA-16

CAAAGACGAGCCAAATTAAGTAAATAACACCACACCAGATGTGTGCAAGAAAA
TAGCAGGAGGTCCAGACCCTACTTAAAGAACTCTTTGGATTCTTCTTTCTTATTCC
AAGGCTTTCGCTCTCCGTGTCTGCCACATCCACAAAGCATTAAACCCTTCACCCT
CCAGATGCAATCCCTAAAACCCTTTTTTGTAGTTCCCATTCAGCTCGAAAAACA
CTCGAAGAAAAGAAGGCATCACTTTTGTCCATACTAGAATAAAGCTACGCTTCGT
CTCGGGCTTGCTGCATGCCCCACATCTTGAGCTAAGGTATCAATGGCTGGCTTTT

TTGTCAAAGTTTCACAGTATCTACTATGGGGTGCCCATCTAACCAACAAAGCTAG
CTTCATTTTCAGCAAGGAGATTCAGGTCATTTCCCAGAGAAAAGGTAGCCTTTCTC
TACTCAAGGCCATAATTTACAGGGTAGAAGAAAAGGGAGGGAACAAAATAA
AAGAAAAGAACCTCGTCAAGTACAAACCAGACTTCTCATAGTCGTTTTTATATCA
AATGGGTGCTCTAAAAGCCATTCTTCTCTACTTGATTATACACCAAACATGGAAG
ATCACAGCTGATGATGAGGAATGGAAGTCTGCTACTGCAACATACGTTAAGGAG
ACAAGTGGATCCATCATTGTAGGTAATTTTCTGGCAACTGTTCCGACTACATCTGA
AACTTTCTGTTTCAACTCATAATGGTGCTTCATATTTACAAAAGATTCAGTTTTG
ATTGCAAAGAGTAAACTACCATTGTTTAATGTTGCAGAAGGTGCTTGTGGGTATG
GGGACCTTCACAGGGCCACCTATGGAAAATACAGTGCTGGACTAAGTAGCATGCT
GTTCAACAGAGGGAGTACCTGTGGGGCTTGCTTCGAGGTCAGATGTGTAGACCAC
ATCTTATGGTGCCTGCAGGGTAGCCCCCTCCGTCATTCTCACTGCAACAGATTTCTG
CCCTCAAATTACGGGCTTTCATCGGATTATGGTGGCTGGTGTAATTTCCCCAAAG
AACACTTTGAGATGTCAGAAGCGGCATTTGCTGAAATCGCAGAGAAAAAGGCTG
ATGTTGTGCCAGTTCAACACAGAAGGTATCACCAATCAATGTACAATTACTTGGT
CACATTAGTCAAATGAGTATAGGCCTCTCTATTTCCCTAACTCCTTGGCTGGGCGAA
CATTGTTTATGCCAATTTTTGTAGGGTGAAGTGTGATAGAAGGGGTGGGCTGAGA
TTCACAATGAGTGGAAATTTTCACTTTTATCAAGTACTCATCAGCAATGTGGGATT
GGATGGTGAGGTGATTGCTGTGAAAGTGAAGGGATCAAGAACAGCGTGGATACC
TATGGCAAGAACTGGGGACAAAACCTGGCAATCCAATATCAACCTTATTGGACA
GCCTCTATCTTTCGAGGTGACTACCAGCAGCAGAAGAACACTCACATCTTACAAT
GTTGCACCAGCAAACCTGGCAATTTGGCCAGATATTTGAAGGCAAGCAATTCTAGT
ATGAGAGGCTTTTAGAGTCGGGCATAGGTTACGCTTCCATTTGCTTTCTCCAAGC
TATGCGAAGAAGTAGGTACTTGGTCAAACGGAGGTAAGAATGTCGTAGAGGAAA
GTTGGGAAAAATAGGAATACAGGTCCCAGTTATGTCTCTTTACCTGCTTTTATTGA
GTAGAAAGTTAACAACCTCGTGAAATGTGTAATTAAGTAAACGTTAAGGTTTTGTT
CACTTCAAAGTCAAAGAAAAGGTTAAGATATGTATCTCTTACCATGACTTCTC
TACCAGGCAATCCTTGCTTTATGAACTAAGCTGTGCTTTGAGATT