

IDENTIFICATION

Species: *Populus deltoides*

Locus: Podel.T187000

Gene Model: Podel.T187000.1.p

Description: PdEXPA-29

Family: Alpha Expansin

3D structure:



GENOME DATABASES

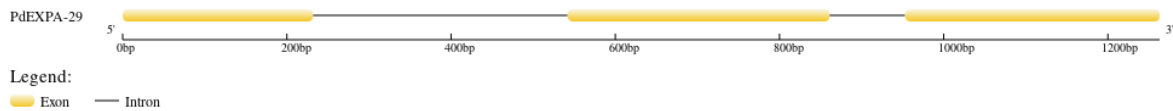
Phytozome: https://phytozome-next.jgi.doe.gov/info/PdeltoidesWV94_v2_1

KEGG:-

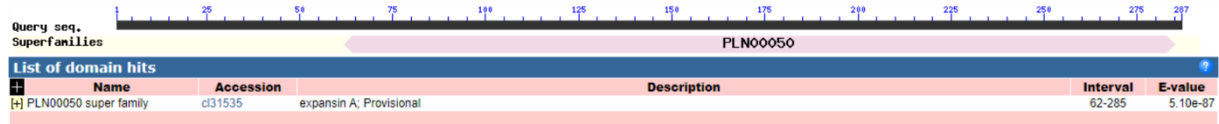
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PdEXPA-29

MASPLKPLATLLLLAIAFPNCQAKSKPSLSGKQAIHHAIGRLAHDIELPERHKPKFQP
GPWKEAHATFYEGSGTFGGACNYKDVAGQGYGMNTAALSSVLFKNGQACGACFE
IKCADNPQWCKLGQPSLIVTATDHCPPNPSLPNDNGGWCNVPREHFDVAKPVFSQLA
EYEAGIPIQYRRVPCQKQGGIRFTILGNPWFYQVIVWNVGGAGDVVGVQVKGDDKL
KWTQMERDWGTTWKTSAILLGESLSFRVVSASDDRDSTSWHVTPKNWQFGQTYEGK
NFK*

CDS (coding sequence)

>PdEXPA-29

ATGGCATCGCCTTTGAAACCCATGTTAGCAACATTGCTGCTTTTAGCCATTGCCTT
TCCTAATTGCCAGGCAAAATCAAAACCTTCCCTCTCAGGGAAACAAGCCATTCAC
CATGCAATTGGACGACTAGCCCACGACATTGAACTTCCCGAAAGGCATAAACCA
AAGTTCCAGCCAGGCCCATGGAAGGAAGCTCATGCAACTTTCTATGAAGGCGGCT
CAGGAACATTCGGGGGAGCATGCAATTACAAAGATGTTGCGGGCCAAGGATATG
GCATGAATACAGCTGCACTGAGCAGTGTCTGTTCAAAAATGGACAGGCCTGTGG
TGCTTGTTTCGAAATCAAGTGCGCTGACAACCCTCAATGGTGCAAGCTAGGGCAG
CCATCTCTCATTGTCACTGCAACTGACCATTGCCACCAAATCCATCTCTCCCAA
TGACAATGGAGGCTGGTGCAATGTGCCACGTGAGCATTTCGATGTAGCCAAGCCT
GTATTTAGCCAGCTTGCTGAGTACGAGGCCGGCATTATTCCAATCCAATATCGCA
GGGTTCCATGCCAGAAGCAAGGAGGTATTCGATTCACTATATTGGGGAATCCTTG
GTTCTATCAGGTCATTGTGTGGAATGTAGGGGGAGCTGGAGATGTTGTTGGTGTT
CAAGTGAAGGGAGATGACAAGCTCAAGTGGACGCAAATGGAACGAGATTGGGG
GACAACTTGAAAACCAAGTGCTATTTTGCTTGGAGAGTCGCTATCCTTCCGTGTTA
GTGCAAGCGATGACAGGGACTCGACTTCATGGCATGTTACCCCTAAAAACTGGCA
ATTTGGCCAGACATACGAGGGCAAGAACTTCAAATAG

Nucleotide

>PdEXPA-29

ATGGCATCGCCTTTGAAACCCATGTTAGCAACATTGCTGCTTTTAGCCATTGCCTT
TCCTAATTGCCAGGCAAAATCAAAACCTTCCCTCTCAGGGAAACAAGCCATTCAC
CATGCAATTGGACGACTAGCCCACGACATTGAACTTCCCGAAAGGCATAAACCA

AAGTTCCAGCCAGGCCCATGGAAGGAAGCTCATGCAACTTTCTATGAAGGCGGCT
CAGGAACATTCGGTATCGATGCTTTCTTTTCCTTTTTTCCCAAATTTTTTTTTTACC
CTTACAAGTGATCGATGATCCTGTTACCTTACAAAACGACCAAATCCAAC TTC
CGATATGGTCTTTTCGTTAGCTAAAATTCATTCAATATTGCGAGGCTTCTTGCCA
AGAGCAGTATGATGAGAACATTTTTCTATATTTTCATTAAAAATACATTGTAAAA
AAGAAACAAAGAACATCGAGTCCTCGAGCATCTGACGATATTAATTGTAAC TACT
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TGACAACCCTCAATGGTGCAAGCTAGGGCAGCCATCTCTCATTGTCACTGCAACT
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CGAGGCCGGCATTATTCCAATCCAATATCGCAGGTCACATGACTTTTCAATCTTTT
CCCATTTGGCAATATTTTAAAATTTAGAAGGGTTGAGTTTCTTAATTAAGCGTT
CATTTCCCTGCAGGGTTCCATGCCAGAAGCAAGGAGGTATTCGATTCACTATATT
GGGGAATCCTTGGTTCTATCAGGTCATTGTGTGGAATGTAGGGGGAGCTGGAGAT
GTTGTTGGTGTTC AAGTGAAGGGAGATGACAAGCTCAAGTGGACGCAAATGGAA
CGAGATTGGGGGACA ACTTGAAAACCAAGTGCTATTTTGCTTGGAGAGTCGCTAT
CCTCCGTGTTAGTGCAAGCGATGACAGGGACTCGACTTCATGGCATGTTACCCC
TAAAACTGGCAATTTGGCCAGACATACGAGGGCAAGAACTTCAAATAG