

IDENTIFICATION

Species: *Brachypodium distachyon*

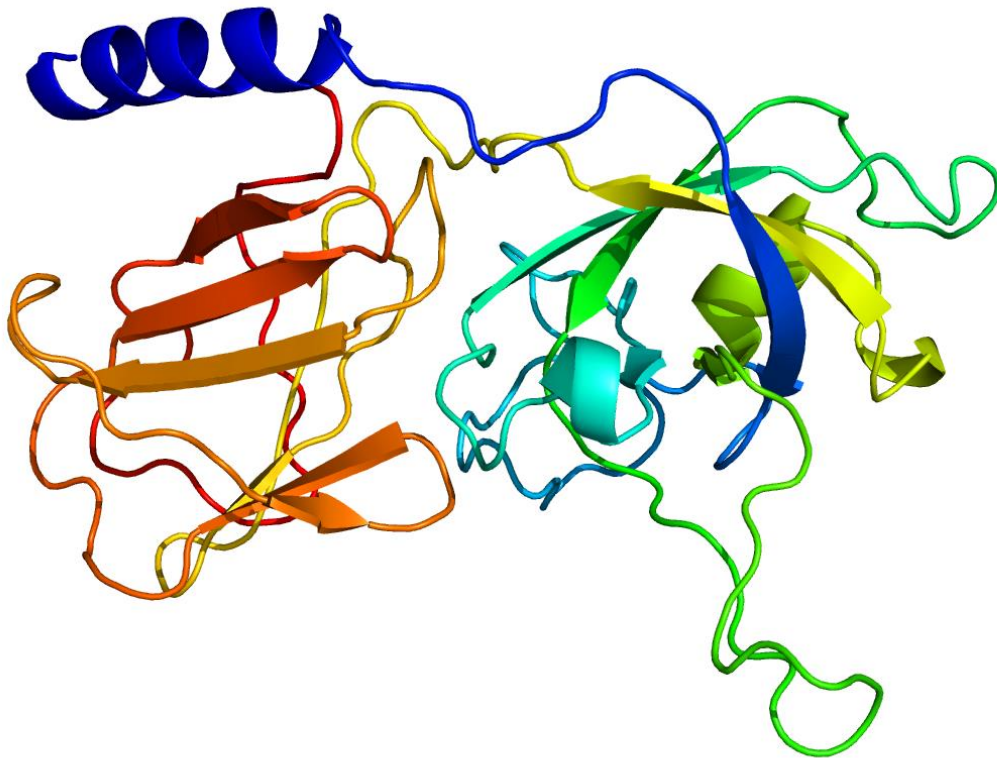
Locus: Bradi3g27450

Gene Model: Bradi3g27450.1.p

Description: BdEXPA-25

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Bdistachyon_v3_1

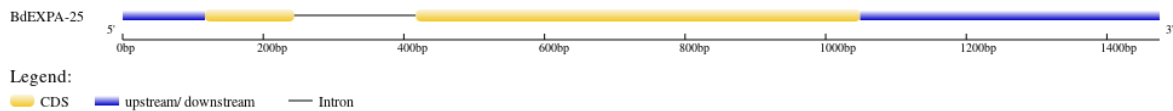
KEGG: <https://www.genome.jp/entry/T01717>

EXTERNAL RESOURCES

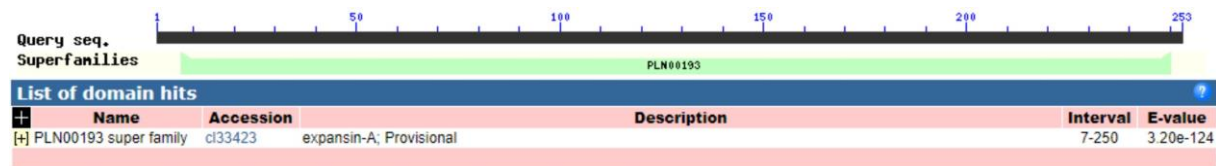
<https://brachypodium.org/>

https://archive.gramene.org/species/brachypodium/brachypodium_intro.html

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPA-25

MDMAKSLVLC AIFLSACL SLAAADWLQATATFYGEADASGTMGGACGYSNLYDQG
YGVNNAALSTVLFNNGASCGQCFTITCDSK KSGWCKTGNSITVSATNLCPPNWALPN
DNGGWCNPPRQHFDMSQPAWETIAIYRAGIVPVLYQRVKCSRQGGVRFTISGFNYFE
LVLITNVGGSGSVASVSIKGSNTGWIQMSRNWGANWQSLAGLAGQALSFAVTTTGG
QYLVFDNIAPVWWQFGQTFGSYKQFDY*

CDS (coding sequence)

>BdEXPA-25

ATGGATATGGCCAAGTCGCTGGTTCTATGTGCCATATTCCTCTCGGCGTGCCTCTC
ACTCGCCGCGGCCGATTGGTTGCAAGCGACGGCGACGTTCTACGGCGAAGCCGA
CGCCTCCGGCACCATGGGCGGCGCGTGCGGGTACAGCAACCTGTACGACCAGGG
GTACGGCGTGAACAACGCGGGCGCTGAGCACGGTGCTGTTCAACAACGGCGCGTC
GTGCGGGCAGTGCTTCACGATCACCTGCGACTCCAAGAAGTCCGGATGGTGCAAG
ACGGCAACAGCATCACCGTGTCGGCCACCAACCTGTGCCCGCCAACTGGGCGC
TCCCCAACGACAACGGCGGGTGGTGCAACCCGCCACGGCAGCACTTCGACATGTC
GCAGCCGGCCTGGGAGACCATCGCCATCTACCGGGCCGGC ATCGTGCCCGTGCTC
TACCAGCGCGTCAAGTGCTCGCGCCAGGGCGGGTCCGGTTCACCATCTCCGGGT
TCAACTACTTCGAGCTCGTGCTCATACCAACGTCGGCGGCAGCGGCTCCGTGCG
CAGCGTGTGATCAAGGGGAGCAACACCGGGTGGATCCAGATGTCCAGGA ACTG
GGGCGCAA ACTGGCAGTCCCTCGCCGGCCTGGCCGGCCAGGCGCTCAGCTTCGCC
GTGACCACCACCGGCGGGCAGTATCTTGTCTTTGACAACATCGCGCCGGTCTGGT
GGCAGTTCGGACAGACATTCGGCTCCTACAAGCAGTTCGACTACTGA

Nucleotide

>BdEXPA-25

CCATCCATCGTTAGTTCAAACGACACACACCCTCCCTCCTCTCTAGCTTGATCGCT
TCTCTCGTGCGCTAGCTAGCTTGATCTCTGCCTAGCTCGAGCCCTCGTGCCATTG
TCGCCATGGATATGGCCAAGTCGCTGGTTCTATGTGCCATATTCCTCTCGGCGTGC
CTCTCACTCGCCGCGGCCGATTGGTTGCAAGCGACGGCGACGTTCTACGGCGAAG
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CGACCAGGGGTACGGCGTGAACAACGCGGGCGCTGAGCACGGTGCTGTTCAACAA
CGGCGCGTTCGTGCGGGCAGTGCTTCACGATCACCTGCGACTCCAAGAAGTCCGGA
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ACTGGGCGCTCCCCAACGACAACGGCGGGTGGTGCAACCCGCCACGGCAGCACT
TCGACATGTCGCAGCCGGCCTGGGAGACCATCGCCATCTACCGGGCCGGCATCGT
GCCCCTGCTCTACCAGCGCGTCAAGTGCTCGCGCCAGGGCGGGGTCCGGTTCACC
ATCTCCGGGTTCAACTACTTCGAGCTCGTGCTCATCACCAACGTCGGCGGCAGCG
GCTCCGTCGCCAGCGTGTTCGATCAAGGGGAGCAACACCGGGTGGATCCAGATGT
CCAGGAACTGGGGCGCAAACCTGGCAGTCCCTCGCCGGCCTGGCCGGCCAGGCGC
TCAGCTTCGCCGTGACCACCACCGGCGGGCAGTATCTTGTCTTTGACAACATCGC
GCCGGTCTGGTGGCAGTTCGGACAGACATTCGGTCTCTACAAGCAGTTCGACTAC
TGAGACACCATCAGTCGCGCGTCTCTCGCGTCTTCGTGGTTCGGATTAATGGCTGGT
TCGTGCGTGCCTCGTGATTTTGACGGAGTTACACGTACCTGCCGCCAGCCATTA
ATTGCATCCTTGGTCTTGGTGTCCGGCTCCGGCATGGATATGATATATCCTCCTAG
CTATATGATGCTCCGACGTACTGCTGGAGCTGCGCGCGCGGGATGATGTGTAAC
TCGATTCCTAGCTTGTTGCCGATATTTTACTTGTTGCTTTACTAATTTTTCTTCTT
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CTCAAGTAAAAGCAAGCACAAAGTCTTTAAAAAAATCTTT