IDENTIFICATION

Species: *Brachypodium distachyon*

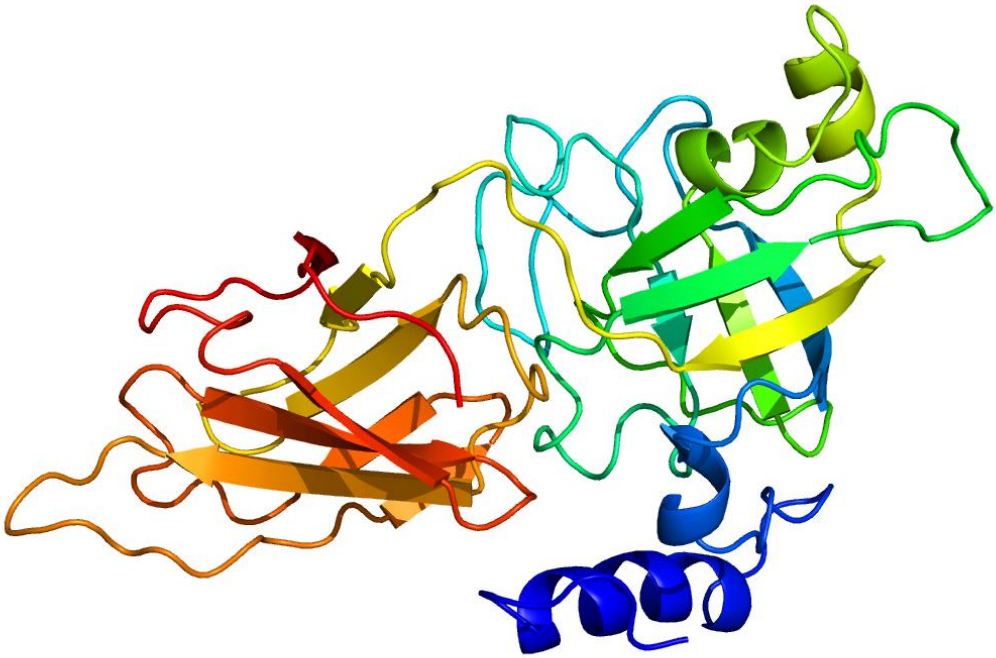
Locus: Bradi3g33120

Gene Model: Bradi3g33120.1.p

Description: BdEXPB-09

Family: Beta Expansin

3D structure:



GENOME DATABASES

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

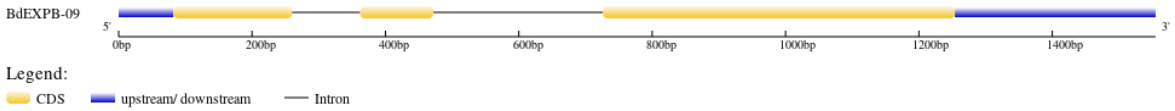
KEGG: https://www.genome.jp/entry/T01717

EXTERNAL RESOURCES

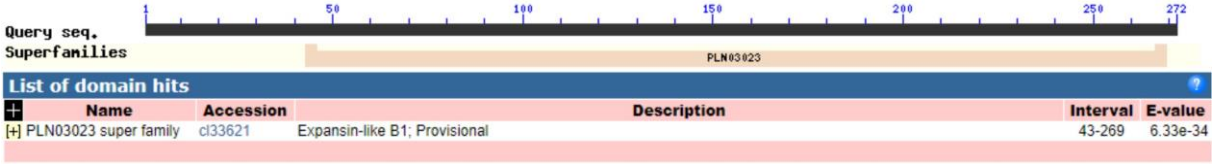
https://brachypodium.org/

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPB-09

MAGVSTNAVALVALLSAVLVSTGHSQQVNYDTARSYNSGWLPAKATWYGAPTGA
GPDDNGGACGYKDTNQYPYSSMISCGNEPLFMGGAGCGTCYQIRCNYANNPACSGQ
PRLVTITDMNYYPVAKYHFDLSGTAFGAMANNGQNDRLRHAGIIDMQFRRVPCNYP
GMNVNFHVERGSNPNYLAVLVQHANRDGNVVLMEIMESRYGRPTGQWTAMTRSW
GAIWRRDTNYPMQGPFSLRIRSESGSTLVANQAIPADWKPNARYWSNIQYR*

CDS (coding sequence)

>BdEXPB-09

ATGGCTGGTGTCTCCACCAATGCCGTTGCCCTGGTGGCACTCCTCTCGGCCGTGCT
CGTCTCCACCGGCCATTCGCAACAGGTCAACTACGACACCGCAAGATCCTACAAC
TCAGGTTGGCTCCCCGCAAAGGCCACCTGGTACGGCGCCCCTACCGGCGCCGGCC
CTGACGACAACGGTGGTGCGTGCGGCTACAAGGACACGAATCAGTACCCGTACT
CGTCCATGATTTCGTGCGGCAACGAGCCCCTGTTCATGGGCGGCGCGGGCTGCGG
CACCTGCTACCAGATACGATGCAATTACGCCAACAACCCTGCCTGCTCCGGCCAG
CCGAGGCTGGTGACGATCACCGACATGAACTACTACCCCGTGGCCAAGTACCACT
TCGACCTCAGCGGCACGGCGTTCGGCGCCATGGCGAACAACGGACAGAACGACC
GGCTCCGTCACGCCGGCATCATCGACATGCAGTTCAGGAGGGTGCCATGCAACTA
CCCGGGGATGAACGTGAACTTCCACGTGGAGCGCGGCTCGAACCCGAACTACCT
GGCGGTGCTGGTGCAGCACGCGAACCGGGACGGGAACGTGGTGCTGATGGAGAT
CATGGAGTCCAGGTACGGCCGCCCGACTGGGCAGTGGACGGCGATGACGCGCTC
CTGGGGCGCCATCTGGAGGAGGGACACCAACTACCCGATGCAGGGGCCCTTCTCC
CTCCGCATCCGCAGCGAGTCCGGCAGCACGCTGGTGGCCAACCAGGCCATCCCTG
CAGACTGGAAGCCCAACGCTAGGTACTGGTCAAATATCCAGTACCGTTGA

Nucleotide

>BdEXPB-09

TCAAAACACAAAAAGGAGTCTGCTGGGCTTAGGCGGGAGAGTACTCTACTTACTC
CAGCAAGTACTTGTACGTAGTGCCGGTATGGCTGGTGTCTCCACCAATGCCGTTG
CCCTGGTGGCACTCCTCTCGGCCGTGCTCGTCTCCACCGGCCATTCGCAACAGGTC
AACTACGACACCGCAAGATCCTACAACTCAGGTTGGCTCCCCGCAAAGGCCACCT

GGTACGGCGCCCCTACCGGCGCCGGCCCTGACGACAACGGTAAGCAGGCAAATA
TGTTCCCATCACACAGCACAAGGCCATGCATCACGGCCATGCATCACGCTCTGCA
TGCCAAGTTAATGTTGGTCGATCGATCTGCAGGTGGTGCGTGCGGCTACAAGGAC
ACGAATCAGTACCCGTACTCGTCCATGATTTCGTGCGGCAACGAGCCCCTGTTCA
TGGGCGGCGCGGGCTGCGGCACCTGCTACCAGGTATACACACTACTTACGTGCTG
CATTAATGTCTCCATGCATGCAGGACGCTGACAATGTCAGTTAAAATTAGTTGGT
GCCAAATAATTTTATTAGATTGGTCAAACCTATCCGCGTACTTTACGATGCTGATC
ACCATAGTGTACGCCCTGCCATGTGCATGCAATCAAGTAGAAGTACATATTCATC
GGTTGACTTGCCTTTTTTTGTGTTTGTTGCAGTAATTAATCAATATATATGATGCTT
CGTTTCAGATACGATGCAATTACGCCAACAACCCTGCCTGCTCCGGCCAGCCGAG
GCTGGTGACGATCACCGACATGAACTACTACCCCGTGGCCAAGTACCACTTCGAC
CTCAGCGGCACGGCGTTCGGCGCCATGGCGAACAACGGACAGAACGACCGGCTC
CGTCACGCCGGCATCATCGACATGCAGTTCAGGAGGGTGCCATGCAACTACCCGG
GGATGAACGTGAACTTCCACGTGGAGCGCGGCTCGAACCCGAACTACCTGGCGG
TGCTGGTGCAGCACGCGAACCGGGACGGGAACGTGGTGCTGATGGAGATCATGG
AGTCCAGGTACGGCCGCCCGACTGGGCAGTGGACGGCGATGACGCGCTCCTGGG
GCGCCATCTGGAGGAGGGACACCAACTACCCGATGCAGGGGCCCTTCTCCCTCCG
CATCCGCAGCGAGTCCGGCAGCACGCTGGTGGCCAACCAGGCCATCCCTGCAGA
CTGGAAGCCCAACGCTAGGTACTGGTCAAATATCCAGTACCGTTGACCTCGATCC
AGGCCGAGCTGATTCGGCCGGCCGGTGTCATGTGACCGTCACCACAGGTTACAAT
GGATTTTTACTAAGTTACTCCTCCTATGCTTGTTAAGTGTGCGTCGTTAATTGTGT
GTGTCCTGCAAGATCTTAATTTGTGTGGGAAATGGAAGGAGGCAAGTGGAGTAG
CATCCATGTGATCGATATTCCCGGCCACTGTTGTTGCAGTTCCATACCCTTCTCGA
TCGAGTGTAATCGAATTTATCAGACTTATAAATTAATTCAAAAGGGTTGGACTTA
TTTTGATCATTTTAAT