

IDENTIFICATION

Species: *Brachypodium distachyon*

Locus: Bradi4g00360

Gene Model: Bradi4g00360.1.p

Description: BdEXPB-18

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

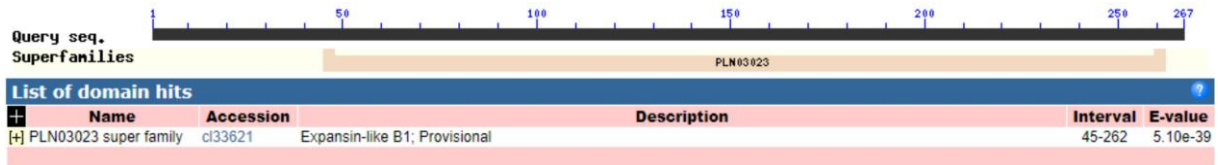
<https://brachypodium.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPB-18

MAASSQVMLAMALLAALLSLAHGIPKVPVPGPNITATYNGKWLDKSTWYGRPEGA
GPKDNGGACGYKDVDKPPFNGMTSCGNTPIFRDGRGCGSCFEIKCDKPAEFCSGQPV
LVHITDDNEEPIAA YHFDLSGKAFGSMAKKGQEQKLRGCGEVEIQFRRVKCYYPGLT
KVTYHVEKGSNPNYLALLVKFVGGDGDVVAVEVQEKKGKYNWIPLKESWGAVWRID
TAKPLKGPLSVRYTTDGGTKAVSPDVIPEKWKPDPTMYVAKY*

CDS (coding sequence)

>BdEXPB-18

ATGGCCGCCTCCTCCTCTCAGGTGATGCTTGCCATGGCGCTCCTGGCGGCGCTCCT
GAGCCTCGCCACGGCATCCCCAAGGTGCCCCAGGCCCAACATCACGGCCACC
TACAACGGCAAATGGCTGGACGCCAAGAGCACATGGTACGGCAGGCCCGAAGGC
GCCGGGCCCAAGGACAACGGCGGCGCCTGCGGCTACAAGGACGTCGACAAGCCG
CCCTTCAACGGCATGACATCCTGCGGCAACACGCCCATCTTCCGGGACGGGCGCG
GCTGCGGCTCCTGCTTCGAGATCAAGTGCACAAAGCCGGCCGAGTTCTGCTCCGG
GCAGCCCGTCTCGTCCACATCACCGACGACAACGAGGAGCCCATCGCCGCATAC
CACTTCGACCTCTCCGGCAAGGCCTTCGGGTCCATGGCCAAGAAGGGGCAGGAG
CAGAAGCTGCGTGGCTGTGGAGAAGTGGAGATCCAGTTCCGGAGGGTGAAATGC
TACTACCCGCTGGGCACCAAGGTGACCTACCATGTCGAGAAGGGGTCTAACCCGA
ATTACCTGGCGTTGTTGGTCAAGTTTGTGCGGTGGAGATGGGGATGTGGTGGCCGT
GGAAGTCCAGGAGAAGGGCAAGTATAACTGGATCCCGCTCAAGGAGTCATGGGG
CGCCGTCTGGAGGATTGATACCGCGAAGCCGCTCAAGGGGCCGCTTAGCGTGAG
GTACACTACTGATGGCGGCACCAAGGCAGTCTCACCGGATGTCATCCCTGAGAAG
TGGAAGCCCGACACCATGTATGTCGCCAAGTACTGA

Nucleotide

>BdEXPB-18

CAAGATGGCCGCCTCCTCCTCTCAGGTGATGCTTGCCATGGCGCTCCTGGCGGCG
CTCCTGAGCCTCGCCACGGCATCCCCAAGGTGCCCCAGGCCCAACATCACGG
CCACCTACAACGGCAAATGGCTGGACGCCAAGAGCACATGGTACGGCAGGCCCG
AAGGCGCCGGGCCCAAGGACAACGGCGGCGCCTGCGGCTACAAGGACGTCGACA

AGCCGCCCTTCAACGGCATGACATCCTGCGGCAACACGCCCATCTTCCGGGACGG
GCGCGGCTGCGGCTCCTGCTTCGAGATCAAGTGGGACAAGCCGGCCGAGTTCTGC
TCCGGGCAGCCCGTCCTCGTCCACATCACCGACGACAACGAGGAGCCCATCGCCG
CATACCACTTCGACCTCTCCGGCAAGGCCTTCGGGTCCATGGCCAAGAAGGGGCA
GGAGCAGAAGCTGCGTGGCTGTGGAGAAGTGGAGATCCAGTTCCGGAGGGTGAA
ATGCTACTACCCGCTGGGCACCAAGGTGACCTACCATGTCGAGAAGGGGTCTAAC
CCGAATTACCTGGCGTTGTTGGTCAAGTTTGTTCGGTGGAGATGGGGATGTGGTGG
CCGTGGAAGTCCAGGAGAAGGGCAAGTATAACTGGATCCCGCTCAAGGAGTCAT
GGGGCGCCGTCTGGAGGATTGATACCGCGAAGCCGCTCAAGGGGCCGCTTAGCG
TGAGGTACACTACTGATGGCGGCACCAAGGCAGTCTCACCGGATGTCATCCCTGA
GAAGTGGAAGCCCGACACCATGTATGTCGCCAAGTACTGATTCCATTCCGTGCAT
TGCCTCCCTGCCGCGGCCGGCTACGTATGTGCTTCTTCAGGCCAAGGCCAGCAGC
TTCTGAGCTTCTGCTTGCTGCATGGTGAAGAATAATTTGTCAAGAGGCATATGTGA
GGTGTATGCACAAGTAATTTGATTTGCTTATAGGAGGCAAACCAGCGTGTACGTG
GTTTGCTCTCCCCCACGCCTTACTCTCTCCACCGCCTTGTTTATGTATATGTATCC
AAATTGAAATTTAT