

IDENTIFICATION

Species: *Brachypodium distachyon*

Locus: Bradi3g33106

Gene Model: Bradi3g33106.1.p

Description: BdEXPB-07

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

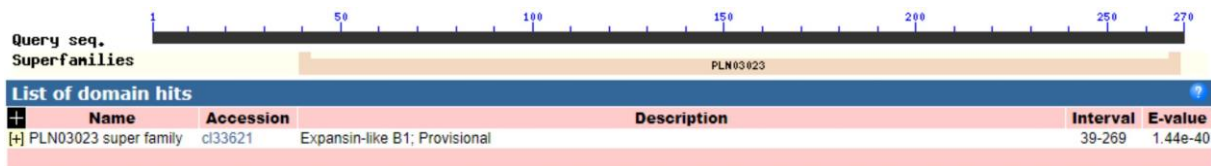
<https://brachypodium.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPB-07

MAMAGAVALMSVLVATYGACAAAAQQEQQPAENYD TSAAYSSGWL PARATWYG
APTGAGPDDNGGACGFKNVNQYPFSSMTSCGNQPLFKDGKGC GSCYQIRCDKDQSC
SGNIKTVMITDMNYYPVAQYHFDLSGTAFGAMAKPGLNDKLRHSGIIDIQFRRVPCN
FPGLKINFHVVEGSNAVYLA VLIEYEDMDGDLTQVDMKEANSQWVPMRESWWSI
WRMDSNHRLQAPFSMRITSDSGKQLVANNVIPANWRANTDYRSFVQFS*

CDS (coding sequence)

>BdEXPB-07

ATGGCTATGGCTGGGGCCGTCGCGCTCATGTCCGTGCTTGTTGCCACCTATGGCG
CTTGTGCCGCCGCCGCACAGCAGGAGCAGCAGCCGGCCGAGAACTACGACACCT
CCGCGGCTTACAGCTCAGGCTGGCTCCCCGCCAGGGCCACCTGGTACGGCGCGCC
CACAGGCGCCGGCCAGATGACAACGGCGGTGCGTGCGGGTTCAAGAACGTGAA
CCAGTACCCTTTCTCCTCCATGACCTCCTGCGGCAACCAGCCTCTGTTCAAGGACG
GCAAGGGCTGCGGCTCCTGCTACCAGATACGATGCGACAAGGACCAATCCTGCTC
GGGCAACATCAAGACGGTGATGATCACGGACATGAACTACTACCCGGTGGCCCA
GTACCACTTCGACCTGAGCGGCACGGCGTTCGGCGCCATGGCGAAGCCTGGCCTC
AACGACAAGCTCCGCCACTCGGGCATCATCGACATCCAGTTCAGGAGGGTGCCGT
GCAACTTCCCCGGTCTCAAGATCAACTTCCACGTGGTGGAGGGCTCCAACGCGGT
CTACCTGGCGGTGCTGATCGAGTACGAGGACATGGACGGCGACCTGACCCAGGT
GGACATGAAGGAGGCCAACTCCGGGCAATGGGTCCCGATGCGCGAGTCCTGGGG
CTCCATCTGGCGGATGGACTCCAACCACCGCCTCCAGGCGCCCTTCTCCATGCGC
ATCACCAGCGACTCCGGCAAGCAGCTCGTTGCCAACAATGTCATCCCGGCCAACT
GGAGGGCCAACACCGACTACCGCTCCTTCGTTCAATTCAGCTGA

Nucleotide

>BdEXPB-07

CGCTCCCCTCTCTGCTCTCTCTACCCCATGTGAGTAATGTGAACAGTAACGAGGC
ATCTTTAGCTCGATCTAACTAACACGGATGCAGCGACCGTTGTCCCCGCTCCCTTG
CCTATAAATGCCCGGCAATGGTCCTCCCTTGAACCATCAGCACACAGACCAGTG
TCCACAGTACAACA ACTACTAGTAGCAACTACACTTTC ACTGAAGAGATGGCTAT

GGCTGGGGCCGTCGCGCTCATGTCCGTGCTTGTGCCACCTATGGCGCTTGTGCCG
CCGCCGCACAGCAGGAGCAGCAGCCGGCCGAGAACTACGACACCTCCGCGGCTT
ACAGCTCAGGCTGGCTCCCCGCCAGGGCCACCTGGTACGGCGCGCCCACAGGCG
CCGGCCCAGATGACAACGGTAAGGGCATGCCAACCCGCGCTGGACGATGCTCTG
TTCTTTCCAAACGCGCCGGCCGTGGCTTAATCTTTATCTGATTGATTGATTGATGT
GTGCGTGCAGGCGGTGCGTGCGGGTTCAAGAACGTGAACCAGTACCCTTTCTCCT
CCATGACCTCCTGCGGCAACCAGCCTCTGTTCAAGGACGGCAAGGGCTGCGGCTC
CTGCTACCAGGTACACTTACGATTACAGAATTTTCATGGGACTCGGACACAACCC
AGAGACAGTGGTTGACCTGTTGTTGCTCTGTTTTTTCTCAGATACGATGCGACAAG
GACCAATCCTGCTCGGGCAACATCAAGACGGTGATGATCACGGACATGAACTACT
ACCCGGTGGCCCAGTACCACTTCGACCTGAGCGGCACGGCGTTCGGCGCCATGGC
GAAGCCTGGCCTCAACGACAAGCTCCGCCACTCGGGCATCATCGACATCCAGTTC
AGGAGGGTGCCGTGCAACTTCCCCGGTCTCAAGATCAACTTCCACGTGGTGGAGG
GCTCCAACGCGGTCTACCTGGCGGTGCTGATCGAGTACGAGGACATGGACGGCG
ACCTGACCCAGGTGGACATGAAGGAGGCCAACTCCGGGCAATGGGTCCCGATGC
GCGAGTCCTGGGGCTCCATCTGGCGGATGGACTCCAACCACCGCCTCCAGGCGCC
CTTCTCCATGCGCATCACCAGCGACTCCGGCAAGCAGCTCGTTGCCAACAAATGTC
ATCCCGGCCAACTGGAGGGCCAACACCGACTACCGCTCCTTCGTTCAATTCAGCT
GATCATCGATTA ACTGACCAACCCCGGCCGGCCCGATCGATCGAGCCAGACACGT
GCTCTCTGTCGATCGGTCCAAATCACTGCCTTAATTTATTTGCTCTTTGCATGGGA
TCGATCAGGAAGTTTGATGAGATGCCGTCTGTCGGGCGTGTCATATATGTGTGCA
GTGGGGCGTCGTCCTGTAGCGTCCTCAACATGCATGTTTTTCGGAAGAAGGGGAGG
AAGGCAAGCTTTGCATGTGCTCCATCTCCCGTCCACTGACACTACCCATATGGAG
TACATCATACTACCAGTGTGTAATCAGATCCAAGTTATAAATTTGTAATTTTGTAT
ACGTACAGTGTGCGATATATATTCAATTTATTTCTCTGA