

## IDENTIFICATION

**Species:** *Brachypodium distachyon*

**Locus:** Bradi4g41110

**Gene Model:** Bradi4g41110.1.p

**Description:** BdEXPB-19

**Family:** Beta Expansin

**3D structure:**



## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Bdistachyon\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Bdistachyon_v3_1)

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

## EXTERNAL RESOURCES

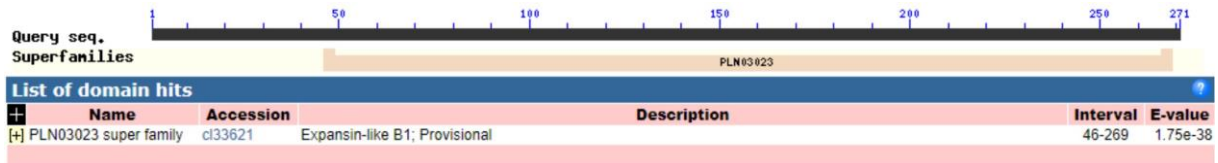
<https://brachypodium.org/>

[https://archive.gramene.org/species/brachypodium/brachypodium\\_intro.html](https://archive.gramene.org/species/brachypodium/brachypodium_intro.html)

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BdEXPB-19

MGSSFVFAAPAVVACSLLLLCNCGAPSPSAVQAEELRREVHGWADARATWYGPPGG  
AGTDGGACGYQGDVEQPPFSAMITAGGPSIFQSGQGCACGYQVKTGNAACSGRPV  
TVVVTDECPDGTCLSERFHFIDLGGRAFGAMAKPGLAEALRHAGNIKVFNRVACNW  
KGVDMAFKVDVGSNPYYLAVLVEDESGDGLSAVDLRQHGGSGGGWAPMQRSWG  
AVWKYNGGPLQGPMISIRLTSGSGRKLVAADVIPAGWQPGRTYRSVVNY\*

### CDS (coding sequence)

>BdEXPB-19

ATGGGTTCTCTTTTCGTGTTTCGCGGCGCCGGCTGTAGTAGCCTGCAGCCTCCTGCT  
GCTCTGCAACTGTGGCGCGCCGTCGCCGTCGGCCGTGCAGGCCGAGGAGCTCCGC  
CGCGAGGTCCATGGCTGGGCCGACGCCCGCGCCACGTGGTACGGCCCCCGGA  
GGCGCCGGCACCGACGGCGGTGCGTGCGGGTACCAGGGCGACGTGGAGCAGCCG  
CCGTTCTCCGCCATGATCACCGCCGGCGGGCCCTCCATCTTCCAGAGCGGCCAGG  
GCTGCGGCGCTTGCTACCAGGTGAAATGCACGGGAAACGCGGCTTGCTCCGGCCG  
GCCGGTGACCGTGGTGGTGACCGACGAGTGCCCCGACGGGACGTGCCTCTCCGA  
GCGCTTCCACTTCGACCTCGGCGGCAGGGCCTTCGGCGCCATGGCCAAGCCGGC  
CTCGCCGAGGCCCTCCGCCACGCCGCAACATCAAAGTCCAGTTCAACCGGGTGG  
CGTGAACCTGGAAGGGAGTGGACATGGCATTCAAGGTGGACGTCGGGTGGAACC  
CGTACTACCTGGCGGTGCTGGTGGAGGACGAGTCCGGCGACGGCGACCTGTCCG  
CGTCGACCTCCGCCAGCACGGCGGTTCCGGCGGGGGGTGGGCCCGATGCAGCG  
CTCCTGGGGCGCCGTCTGGAAGTACAACGGGGGCCCGCTGCAGGGGCCATGTC  
GATCCGGCTCACGTCCGGCTCCGGCAGGAAGCTCGTCGCCGCCGACGTCATCCCC  
GCCGGCTGGCAGCCCGGCCGCACCTACCGCTCCGTCTGTCAACTACTGA

### Nucleotide

>BdEXPB-19

CGATTCTGTAATACAGTCTGATATCATCTTGTTCCAAATAGTGTCGTGAATTGTT  
GCGAGCGAGCGAGCAAATGGGTTCCTCTTTCGTGTTTCGCGGCGCCGGCTGTAGTA  
GCCTGCAGCCTCCTGCTGCTCTGCAACTGTGGCGCGCCGTCGCCGTCGGCCGTGC  
AGGCCGAGGAGCTCCGCCGCGAGGTCCATGGCTGGGCCGACGCCCGCGCCACGT

GGTACGGCCCCCGGAGGCGCCGGCACCGACGGTACGTCACCTAACGCGTATAT  
ATATACAGTGATTAATTAATTGCTCAGAGATCATCGAGTTACTGACACGGCGTCG  
TCGACACCCTGCATGTATAAGGCGGTGCGTGCGGGTACCAGGGCGACGTGGAGC  
AGCCGCGTTCTCCGCCATGATCACCGCCGGCGGGCCCTCCATCTTCCAGAGCGG  
CCAGGGCTGCGGCGCTTGCTACCAGGTAACACAAATCGGTTCGATCGGTTTCTTTA  
CTTTCTTTTCGACCATTTAATTTCCCCCGGCCGTTACCATTTCTCCTCTATTAATTAT  
TACCCAAATTATTATCCGGGAATTCAGCTGATCGTGTGCGCATGCATGCAGGTGA  
AATGCACGGGAAACGCGGGCTTGCTCCGGCCGGCCGGTGACCGTGGTGGTGACCG  
ACGAGTGCCCCGACGGGACGTGCCTCTCCGAGCGCTTCCACTTCGACCTCGGCGG  
CAGGGCCTTCGGCGCCATGGCCAAGCCCGGCCTCGCCGAGGCCCTCCGCCACGCC  
GGCAACATCAAAGTCCAGTTCAACCGGTAAAAAACACATATATTAACCTGATCAG  
AGTGTAATTCGAGACTAATTTGCACTGCGTACCAGTAAATTAACAAGTCTTTAAT  
TTGATCGGTTAATTTCTTTAATTACAGGGTGGCGTGCAACTGGAAGGGAGTGGAC  
ATGGCATTCAAGGTGGACGTCGGGTCGAACCCGTAACCTGGCGGTGCTGGTGG  
AGGACGAGTCCGGCGACGGCGACCTGTCCGCCGTCGACCTCCGCCAGCACGGCG  
GTTCCGGCGGGGGGTGGGCCCGATGCAGCGCTCCTGGGGCGCCGTCTGGAAGT  
ACAACGGGGGCCCGCTGCAGGGGCCCATGTCGATCCGGCTCACGTCCGGCTCCGG  
CAGGAAGCTCGTCGCCGCCGACGTCATCCCCGCCGGCTGGCAGCCCGGCCGCACC  
TACCGCTCCGTCGTCAACTACTGA