

## IDENTIFICATION

**Species:** *Brachypodium distachyon*

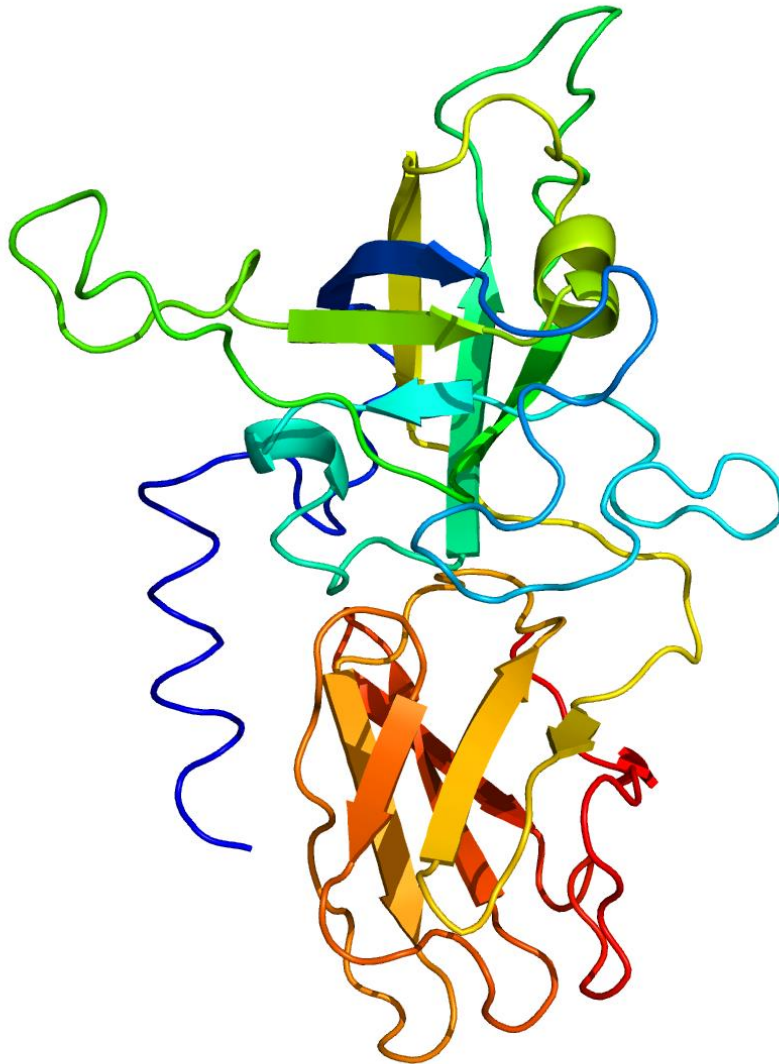
**Locus:** Bradi2g08780

**Gene Model:** Bradi2g08780.1.p

**Description:** BdEXPA-10

**Family:** Alpha 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)

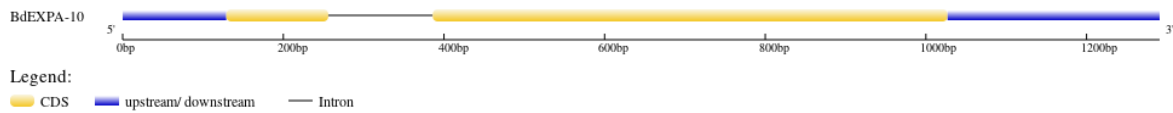
KEGG: <https://www.genome.jp/entry/T01717>

## EXTERNAL RESOURCES

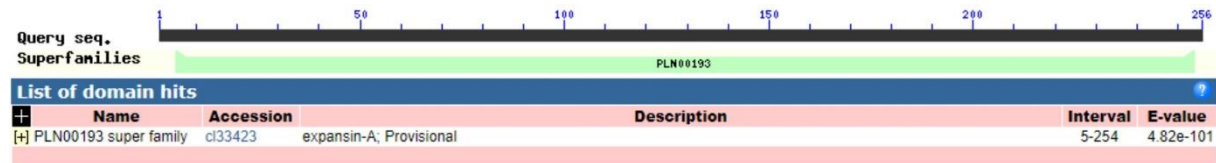
<https://brachypodium.org/>

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BdEXPA-10

MEKTI L V V F L G L C V S Q L G G S V A Q Q W I P A N A T F Y G G S D G S G A M G G S C G Y G D L N K Y N  
G A G Y G T Y T T A L S A T L Y G D A K S C G A C Y A V A C D S S K T G W C K P G A S P V T V T A T D F C P P N  
W S V P S D G G G W C N P P R Q H F D M S Q P A W E A I A V Y Q G G F V P V K Y A R A P C R R T G G I R F S I S  
G N D Y F E L V L I S N V A G S G A V S A A V K G S N T D W M P M S R N W G S N W Q S N A Y L T G Q S L S F  
Q V Q T D D G R S V T A Y N V A P P N W Q F G N M Y E S S V N F W \*

### CDS (coding sequence)

>BdEXPA-10

A T G G A G A A G A C G A T C T T G G T G G T T T T C C T G G G C C T G T G C G T G T C A C A G C T C G G T G  
G T T C A G T G G C C C A G C A G T G G A T A C C G G C C A A C G C C A C G T T C T A C G G A G G C A G C G  
A C G G G T C C G G C G C A A T G G G C G G G T C T T G C G G C T A C G G C G A C C T G A A C A A G T A C A  
A C G G C G C C G G G T A C G G G A C G T A C A C G A C G G C G C T G A G C G C G A C G C T C T A C G G C G  
A C G C C A A G T C G T G C G G C G C G T G C T A C G C C G T C G C C T G C G A C T C C T C C A A G A C C G G  
G T G G T G C A A G C C G G G G G C G T C C C C G G T C A C G G T C A C G G C C A C C G A C T T C T G C C C G  
C C C A A C T G G T C C G T G C C C A G C G A C G G C G G C G G G T G G T G C A A C C C G C C G C G G C A G  
C A C T T C G A C A T G T C G C A G C C G G C C T G G G A G G C C A T C G C C G T C T A C C A G G G C G G G T  
T C G T G C C C G T C A A G T A C G C G C G C G C C G T G C C G G A G G A C G G G G G G A T C C G G T  
T C T C C A T C A G C G G G A A C G A C T A C T T C G A G C T G G T G C T A T C A G C A A C G T C G C C G G  
C A G C G G C G C C G T G T C G G C G G C G G C C G T G A A G G G A T C T A A C A C C G A C T G G A T G C C  
C A T G A G C C G T A A C T G G G G C T C C A A C T G G C A G A G C A A T G C G T A C C T C A C G G G C C A  
G A G C C T G T C G T T C C A G G T G C A G A C T G A C G A C G G C A G G T C C G T C A C G G C G T A C A A T  
G T C G C G C C G C C C A A C T G G C A G T T C G G C A A C A T G T A C G A G T C C T C C G T C A A C T T C T  
G G T A G

### Nucleotide

>BdEXPA-10

G C T C G C A G G T C T C G T T G C A T G C T T T A T A A G T A G C A G A G A G A A C A C A A A G C T T G G C  
C T C A G T A C G C A G G G G G T C A G T T T G C A A G C C T G A T T A A T T A G A G A A G C A C T C A A G  
C A G T G T T A G T T T C A G C G A G A T G G A G A A G A C G A T C T T G G T G G T T T T C C T G G G C C T G  
T G C G T G T C A C A G C T C G G T G G T T C A G T G G C C C A G C A G T G G A T A C C G G C C A A C G C C A

CGTTCTACGGAGGCAGCGACGGGTCCGGCGCAATGGGTACGTGACATATATTTTC  
CTCATTGTCAAACACTAGTTTGGACACATATCCTTGTCCGTTTTCCCTGCAAAACATCG  
TACACTTGCTCACCAGAACGATTCCATAACATTTGCTTCTTGCCTTTGCATGCAGG  
CGGGTCTTGC GGCTACGGCGACCTGAACAAGTACAACGGCGCCGGGTACGGGAC  
GTACACGACGGCGCTGAGCGCGACGCTCTACGGCGACGCCAAGTCGTGCGGGCGC  
GTGCTACGCCGTGCTGACTCCTCCAAGACCGGGTGGTGAAGCCGGGGGCG  
TCCCCGGTCACGGTCACGGCCACCGACTTCTGCCCCGCCAACTGGTCCGTGCCCA  
GCGACGGCGGGCGGGTGGTGCAACCCGCCGCGGCAGCACTTCGACATGTCGCAGC  
CGGCCTGGGAGGCCATCGCCGTCTACCAGGGCGGGTTCGTGCCCCGTCAAGTACGC  
GCGCGCGCCGTGCCGGAGGACGGGGGGGATCCGGTTCTCCATCAGCGGGAACGA  
CTACTTCGAGCTGGTGCTCATCAGCAACGTGCGCCGGCAGCGGCGCCGTGTCGGCG  
GCGGCCGTGAAGGGATCTAACACCGACTGGATGCCCATGAGCCGTAAC TGGGGC  
TCCAACTGGCAGAGCAATGCGTACCTCACGGGCCAGAGCCTGTCGTTCCAGGTGC  
AGACTGACGACGGCAGGTCCGTCACGGCGTACAATGTCGCGCCGCCAACTGGC  
AGTTCGGCAACATGTACGAGTCCTCCGTCAACTTCTGGTAGATCAACATCGGCCT  
TGGACTATGGGGAATCACTTGGGCCAAATTGGCAGGCCCTATCCGGTACAAAATG  
ATTGGCCTAGCAGAGGAAGTGAATGGGCCAATTTGTAGGAAACATTAGTGTGATC  
TATACATTGGCAAACCCCGGGCCGGGCTTCATAAAGCCCGACGGGAAAACCTCA  
AGCCCGAGCCCGGCCCGGAGGCCCGAAAAAATGACCATTTTATCATCACTGTAAT  
TGTTTTTCGGAATAAATAAATGATTTTTATTA