

IDENTIFICATION

Species: *Brachypodium distachyon*

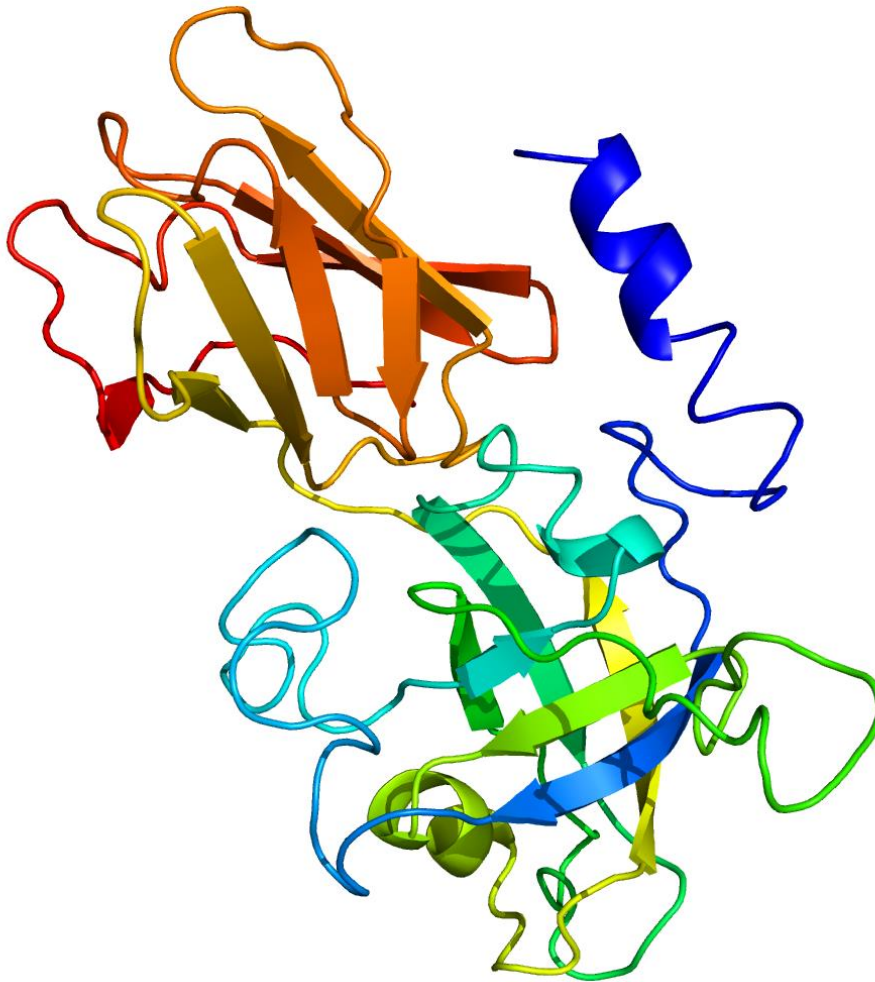
Locus: Bradi2g31760

Gene Model: Bradi2g31760.1.p

Description: BdEXPA-13

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

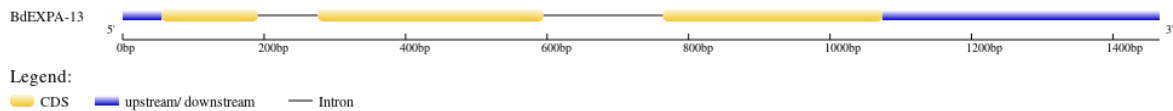
KEGG: <https://www.genome.jp/entry/T01717>

EXTERNAL RESOURCES

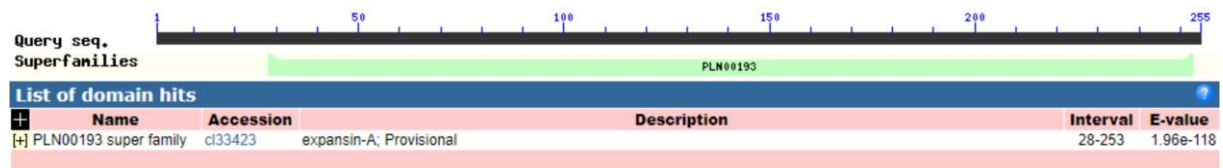
<https://brachypodium.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPA-13

MAKQIVLLVLLTVLCKLASHGVHGGQYSLTSATATFYGGSDGSGTMGGACGYGNLY
NTGYGINNAALSTALFNDGAMCGACYNIYCDTSKSKWCKPGTSITISATNLCPPNYA
KPNNDGGWCNPPRLHFDMSQPAWTSIAIYQAGIVPVNYRRVSCQKQNGIRFGVNGN
NYFELVVVTNVGGSGVVAQMWIKGSRTDWMAMSRNWGANWQSNAYLNGQSLSF
RVKLLDDGRQVTATDVAPYYWNFGATYASWVNFY*

CDS (coding sequence)

>BdEXPA-13

ATGGCAAACAAATAGTACTACTAGTGCTTCTGACTGTGCTATGCAAATTAGCTT
CTCATGGTGTACACGGCCAGTATTCGTTGACGAGCGCCACGGCGACGTTCTACGG
CGGCAGCGACGGCTCCGGAACAATGGGAGGAGCGTGTGGGTACGGCAACCTGTA
CAACACCGGGTACGGGATAAACAACGCGGCGCTGAGCACGGCGCTATTCAACGA
CGGCGCCATGTGCGGGGCCTGCTACAACATCTACTGCGACACGAGCAAGAGCAA
GTGGTGCAAGCCCCGGCACGTCCATCACCATCTCGGCCACAAACCTCTGCCCGCCC
AACTACGCCAAGCCCAACGACAACGGCGGCTGGTGCAACCCGCCGCGGCTGCAC
TTCGACATGTCGCAGCCCGCCTGGACGTCCATCGCCATCTACCAAGCCGGCATCG
TCCCCGTCAACTACAGGAGGGTGTGCGTGCCAGAAGCAGAATGGCATCCGGTTCGG
CGTAAACGGGAATAACTACTTTCGAGCTGGTGGTGGTGACCAACGTGGGGGGGCTC
CGGCGTGGTGGCGCAGATGTGGATCAAGGGGTCCAGAACGGACTGGATGGCGAT
GAGCAGGAAGTGGGGAGCCAATTGGCAGAGCAACGCCTACCTCAACGGGCAGAG
CCTCTCTTTCAGGGTGAAGCTCGACGACGGCCGCCAAGTCACGGCCACCGACGTC
GCCCCCTACTACTGGAACCTCGGGGCCACCTACGCGTCCTGGGTCAACTTCTACT
AG

Nucleotide

>BdEXPA-13

AAACAGCCCGATACGAGTACTAGCGCACTCCTTCTCATCGATCTTTACACATCAA
ATGGCAAACAAATAGTACTACTAGTGCTTCTGACTGTGCTATGCAAATTAGCTT
CTCATGGTGTACACGGCCAGTATTCGTTGACGAGCGCCACGGCGACGTTCTACGG
CGGCAGCGACGGCTCCGGAACAATGGGTTTGTTCGCCCGCCCTCCATTCACACAC

CGTATACCTTGTTCTGTTCTTGAGAGGATTACTAATATTTCTGTGGATCGTTGCAG
GAGGAGCGTGTGGGTACGGCAACCTGTACAACACCGGGTACGGGATAAACAACG
CGGCGCTGAGCACGGCGCTATTCAACGACGGCGCCATGTGCGGGGCCTGCTACA
ACATCTACTGCGACACGAGCAAGAGCAAGTGGTGCAAGCCCCGGCACGTCCATCA
CCATCTCGGCCACAAACCTCTGCCCGCCCAACTACGCCAAGCCCAACGACAACGG
CGGCTGGTGCAACCCGCCGCGGCTGCACTTCGACATGTCGCAGCCCGCCTGGACG
TCCATCGCCATCTACCAAGCCGGCATCGTCCCCGTCAACTACAGGAGGTAAGTAT
ACAAC TAGCTAAGTCGTAATAAGCACTCCCTCGGTTTCTAAACTTTTGTCGTGGT
TTTGGTTCAAAATTTAAACTAAATCAGACAAAAATTTAGGAACGGAAGGAATATG
TATCGAGTGAAAACCTCTGTTGTGATGGACGTATGATGTTTGGCCTGCAGGGTGT
CGTGCCAGAAGCAGAATGGCATCCGGTTCGGCGTAAACGGGAATAACTACTTCG
AGCTGGTGGTGGTGACCAACGTGGGGGGCTCCGGCGTGGTGGCGCAGATGTGGA
TCAAGGGGTCCAGAACGGACTGGATGGCGATGAGCAGGAAC TGGGGAGCCAATT
GGCAGAGCAACGCCTACCTCAACGGGCAGAGCCTCTCTTTCAGGGTGAAGCTCGA
CGACGGCCGCCAAGTCACGGCCACCGACGTGCCCCCTACTACTGGA ACTTCGGG
GCCACCTACGCGTCCTGGGTCAACTTCTACTAGCTAGCTAGCTCAATCCATCCATC
GGCACGTACGTACGCGGGCAATAAGAATTCGGTACCGCTAGATCGAACAATTA
CTTAGTATAATTGATCTTACGGTGAATTTAAGGTTAATGATGTGCCCACTCTACCT
ATAGCTAGTAGATACATCACTGCATCGTTGTTGAGAGGCAATCGGAGCAGCGCTT
CTTAACTGTAAGAATTTTGTCTACTTAGCTCTTCTGCTCGATCCTGCATGGATA
CCTGTAGTCGTAGCTGCATTTGTATTGCCTAGTCAGCGGCTTGGTACCCCAACAGC
CCGCTATGCAGTCAACTCAGCACATATATTTTTTATTATCCATTATCAATTTTGA
CATATACTATTCAGTATTCAATAGTGTC AAGTTCAG