IDENTIFICATION

Species: *Brachypodium distachyon*

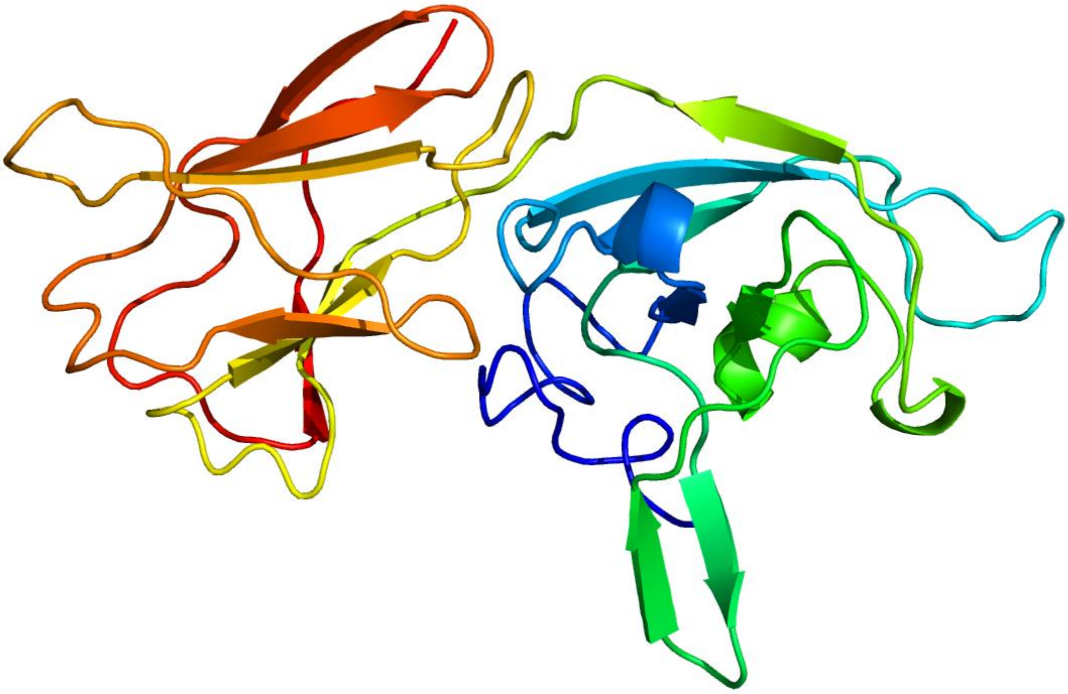
Locus: Bradi3g09940

Gene Model: Bradi3g09940.1.p

Description: BdEXPA-16

Family: Alpha Expansin

3D structure:



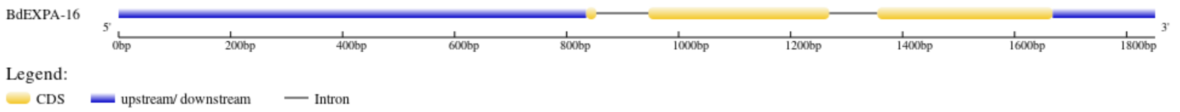
GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Bdistachyon_v3_1
KEGG: https://www.genome.jp/entry/T01717

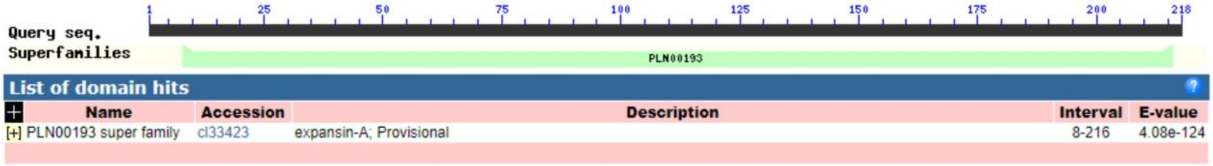
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



List of domain hits

Name	Accession	Description	Interval	E-value
[+] PLN00193 super family	cl33423	expansin-A; Provisional	8-216	4.08e-124

SEQUENCES

Peptide

>BdEXPA-16

MPPAPWAGACGYGNLYSEGYGTRTAALSTVLFNDGAACGQCYKIACDRKVDPRWC
KPGVTVTVTATNLCPPNNALPNDNGGWCNVPRPHFDMAQPAWEKIGVYRGGIIPVM
YQRVPCVKKGGVRFKINGHDYFNLVLVTNVAAIGSIKSMDVKSSDSKDWAPMARN
WGANWHSLAYLSGKMLSFRLTNSDGQTLEFNNVVPSGWKFGQTFASKLQFN*

CDS (coding sequence)

>BdEXPA-16

ATGCCTCCGGCACCATGGGCGGGCGCGTGTGGGTACGGCAACCTGTACTCTGAGG
GGTATGGAACCCGGACGGCGGCGCTGAGCACGGTGCTCTTCAATGACGGCGCGG
CATGCGGACAATGCTATAAAATTGCATGCGACCGCAAGGTGGACCCAAGATGGT
GTAAACCGGGTGTGACGGTGACAGTCACGGCCACAAACCTCTGCCCGCCAAACA
ATGCCCTTCCAAATGACAATGGTGGTTGGTGCAACGTACCACGCCCGCACTTTGA
CATGGCGCAACCGGCTTGGGAGAAGATCGGCGTCTATAGGGGCGGCATCATTCCT
GTCATGTATCAGAGGGTTCCATGCGTGAAGAAGGGTGGCGTGCGGTTTAAGATCA
ACGGCCACGACTATTTCAATCTTGTACTTGTGACCAACGTTGCAGCCATCGGCTC
GATAAAATCTATGGACGTCAAGAGCTCCGATTCAAAAGATTGGGCTCCTATGGCA
CGCAACTGGGGTGCGAACTGGCACTCGTTGGCATATCTTAGCGGAAAATGCTCT
CTTTCAGATTAACCAACAGTGATGGACAAACACTTGAATTCAATAACGTTGTGCC
AAGTGGATGGAAGTTTGGGCAAACATTTGCGAGCAAATTGCAGTTCAACTGA

Nucleotide

>BdEXPA-16

ACTTTTCATTTTCACATCAGTTACGATGATCGATGAATCTGCCAGTAAACCAATTA
CTCATAACCCTGCATACAGACGGCCGGTCCAGTTAATCAACACTATAGAAGGATC
TGCCTTCATGCATGACAATTCAATGTTTTCAGCCTACGGTTCGGTGTAGACCGGCC
AGGAGCAGTGCAGGATAAGACCTACGTAGTACGATTCAAGCAACAGAGAGGAGA
TCTTCCTTCTTTTCGTATACAATGGAGCACCCAAACATGGGAATCACGGCGCCGC
CGTTCATTTCTTCAGAAAGTACCGAGCAAATATTCTCTCTAAATGTCAATCATGGA
GAAAATTTCAAGCGAAATATCCTTAAAGAAGCAATGGGAGAAGAATAACCTAAG
AATACAGATTTAGCCCATACGTGTCTGCGCGTAGTACATTTAATGTTAGGATGAT

TAGCCCGGAAGCTATGGTGCGGCTGCACGACCAAGCACATGCGCACGCTGGCTG
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CATCATAAGATCACCAAATGCAGCAGAAGCAAATCCACAGAGACAAAAGAACAA
ACACATTAGCGAGCAAGGACTTCTAGCTTTCGTATCATCTGGCAAATTCGTCAGA
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AGCTCAAGTTACTGCGGTGGTTCTGCTCACAGTGGGCTGTACTGCCTTGCTGTAGT
CGCATCGTCGCCCCAAGCACCGGTCGTCTGGCAGAGGGCGCACGCAACGTTCTAC
GGTGGAGCTGATGCCTCCGGCACCATGGGTAACTAGCTTATAAATTATAACTCAT
GGTTAATTCAATTCTACGTCTACGCTGAGAGCATGTTGCCAATTAACTAATTACTA
TGTTATGCAGGCGGGCGCGTGTGGGTACGGCAACCTGTACTCTGAGGGGTATGGA
ACCCGGACGGCGGCGCTGAGCACGGTGCTCTTCAATGACGGCGCGGCATGCGGA
CAATGCTATAAAATTGCATGCGACCGCAAGGTGGACCCAAGATGGTGTAAACCG
GGTGTGACGGTGACAGTCACGGCCACAAACCTCTGCCCGCCAAACAATGCCCTTC
CAAATGACAATGGTGGTTGGTGCAACGTACCACGCCCGCACTTTGACATGGCGCA
ACCGGCTTGGGAGAAGATCGGCGTCTATAGGGGCGGCATCATTCCTGTCATGTAT
CAGAGGTACATCACAAATTTATCATCAATCTTGTGCTTTTTTAACTAATAAATAAT
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GGTCACTGCTGTAACTCTAGTTGTGCGTGCTTAACATGTTGTGGTTTGTACACTTG
TGTCTGTATAAATTTGTAAGATGTACATAAGA