

IDENTIFICATION

Species: *Brachypodium distachyon*

Locus: Bradi3g09930

Gene Model: Bradi3g09930.1.p

Description: BdEXPA-15

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

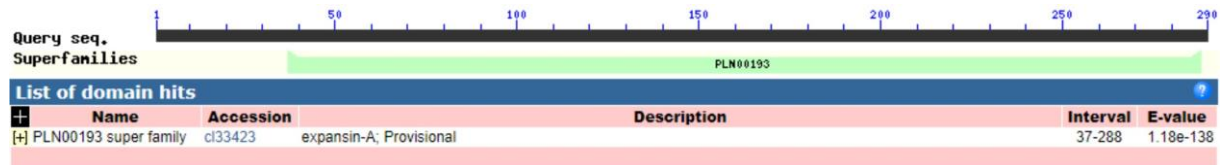
<https://brachypodium.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPA-15

MCLKFPHRDLYPISITPFNWSLVTKLIAMAGAYYSYVLALVCALLSMATGGGALEPS
GWLRAHATFYGGSDAGGTMGGACGYGNLYAQQYGTRTTALSTVLFDRGLSCGQCY
KLVCDRKTDPSPWCKPGVSVTVTATNFCPPNWDLP SDKGGWCNPPRPHFDMAQPAW
EKIGVYRGGIIPVIYQRPVPCVKKGGVRFTIAGHDYFELVLLTNVAAAGSVKAMDVKG
SKAGSNDWMPMAHNWGANWWSLKYLNQGLSFRVTITDGQTIVFADVPPSWKFG
QTFASNLQFK*

CDS (coding sequence)

>BdEXPA-15

ATGTGTTTGAAGTTCCTCACAGAGATCTGTATCCAATATCCATCACACCATTCAA
TTGGTCACTAGTCACTAAGTTAATTGCCATGGCTGGAGCTTATTACTCCTACGTGC
TAGCCCTCGTCTGCGCGCTTCTGTCCATGGCCACCGGCGGGCGGCCCTGGAGCC
GAGCGGGTGGCTTCGGGCGCACGCGACCTTCTACGGCGGCAGCGACGCCGGGGG
CACCATGGGCGGCGCCTGCGGGTACGGCAACCTCTACGCGCAGGGCTACGGCAC
GCGCACGACGGCGCTAAGCACAGTCTGTTCGACCGCGGCCTGTCCTGCGGGCAG
TGCTACAAGCTCGTCTGCGACCGCAAGACGGACCCTTCTGGTGCAAACCCGGGG
TGTCCTGACAGTACGGCCACAACTTCTGCCCGCCAACTGGGACCTGCCAG
CGACAAGGGCGGCTGGTGAACCCGCCAAGGCCGCACTTCGACATGGCGCAGCC
GGCATGGGAGAAGATCGGCGTCTACAGGGGCGGCATCATCCCCGTCATCTACCA
GCGTGTCCCATGCGTCAAGAAGGGCGGGGTCAGGTTTACGATCGCCGGGCACGA
CTACTTCGAGCTCGTGCTGCTCACAATGTCGCCGCGGCGGGGTCGGTCAAGGCC
ATGGACGTGAAGGGGTCCAAGGCCGGGAGCAACGACTGGATGCCCATGGCGCAT
AACTGGGGCGCGAACTGGCATTCTGCTGAAGTATCTCAATGGGCAGGGGTTGTCTT
TCAGGGTGACCATCACTGATGGGCAGACGATTGTGTTTGTGATGTCGTGCCGCC
TAGCTGGAAGTTCGGCCAGACGTTTGCCAGCAACCTGCAGTTCAAGTGA

Nucleotide

>BdEXPA-15

TGTTACTCACACACGCATCTTCAAGTCGCGTACACCAGCCTTTCTTTGTGTATATA
TACCATGTGTTTGAAGTTCCTCACAGAGATCTGTATCCAATATCCATCACACCAT

TCAATTGGTCACTAGTCACTAAGTTAATTGCCATGGCTGGAGCTTATTACTCCTAC
GTGCTAGCCCTCGTCTGCGCGCTTCTGTCCATGGCCACCGGCGGGCGGCCCTGG
AGCCGAGCGGGTGGCTTCGGGCGCACGCGACCTTCTACGGCGGCAGCGACGCCG
GGGGCACCATGGGGCGGCGCCTGCGGGTACGGCAACCTCTACGCGCAGGGGCTACG
GCACGCGCACGACGGCGCTAAGCACAGTCCTGTTTCGACCGCGGCCTGTCCTGCGG
GCAGTGCTACAAGCTCGTCTGCGACCGCAAGACGGACCCTTCCTGGTGCAAACCC
GGGGTGTCCGTGACAGTCACGGCCACAACTTCTGCCCGCCAACTGGGACCTGC
CCAGCGACAAGGGCGGCTGGTGCAACCCGCCAAGGCCGCACTTCGACATGGCGC
AGCCGGCATGGGAGAAGATCGGCGTCTACAGGGGCGGCATCATCCCCGTCATCT
ACCAGCGTGTCCCATGCGTCAAGAAGGGCGGGGTCAGGTTTACGATCGCCGGGC
ACGACTACTTCGAGCTCGTGCTGCTCACAAATGTCGCCCGCGGGCGGGGTCGGTCAA
GGCCATGGACGTGAAGGGGTCCAAGGCCGGGAGCAACGACTGGATGCCCATGGC
GCATAACTGGGGCGCGAACTGGCATTTCGCTGAAGTATCTCAATGGGCAGGGGTTG
TCTTTCAGGGTGACCATCACTGATGGGCAGACGATTGTGTTTGCTGATGTCGTGCC
GCCTAGCTGGAAGTTCGGCCAGACGTTTGCCAGCAACCTGCAGTTCAAGTGAATC
GGGCAACGTTGGTTGGCGTACGGTGAGATTTGAGAAGATGAATGACTTACTTATT
AGACGTCCAAGTTGTTTGCTATATATGTGTGTGAGTTTTGTCTGTTGTTTAATTTA
CCAGCTTATTAATTACCTGCTTGAACGTACATGTACACACCGGCCAGGCTAGCTG
ATATGTGTGATGTACATAAAGCTAGAGATGGACTGATTGAGCTTATGTATGAAGA
AGGTATATTACGTTTTGTGAGGATATATTTGAAGGA