

IDENTIFICATION

Species: *Brachypodium distachyon*

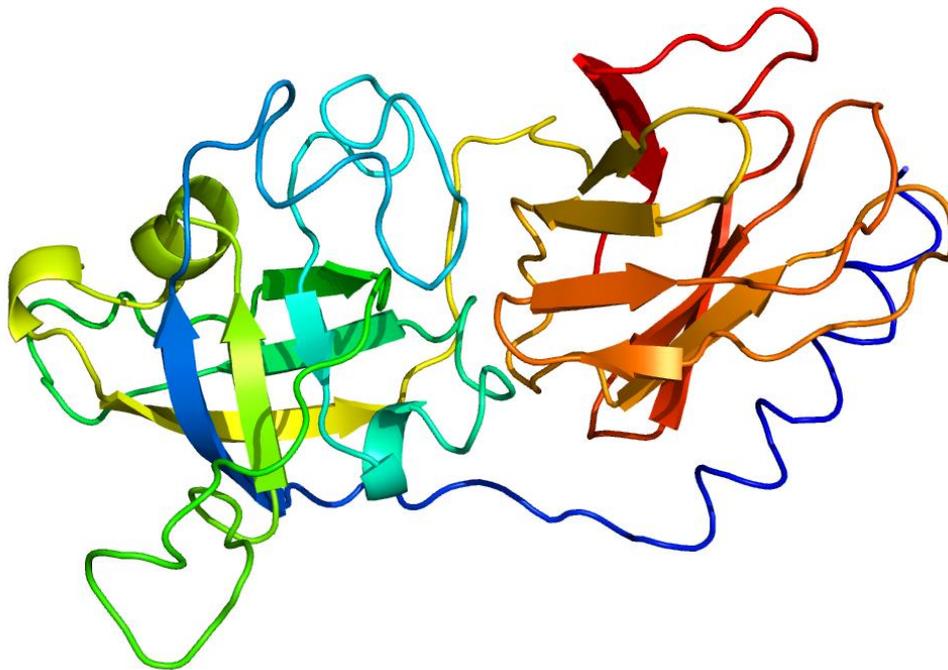
Locus: Bradi2g22290

Gene Model: Bradi2g22290.1.p

Description: BdEXPA-12

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

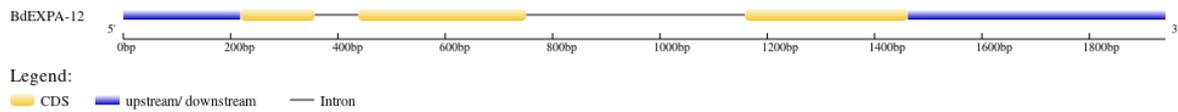
KEGG: <https://www.genome.jp/entry/T01717>

EXTERNAL RESOURCES

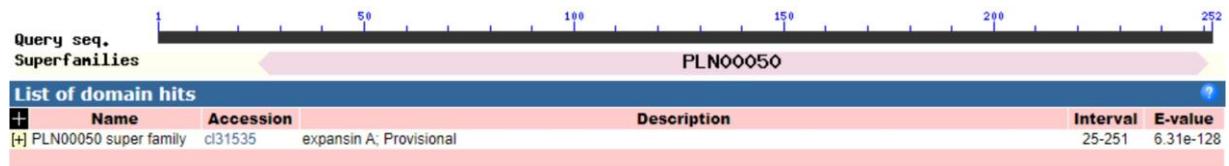
<https://brachypodium.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPA-12

MGIAGALIFLLSSSCFLARQAAAGGYGGWQSAHATFYGGGDASGTMGGACGYGNL
YSQGYGTNTAALSTALFNDGAACGSCYELRCDNDGKWCLPGSIMVTATNFCPPNYG
LPSDDGGWCNPPRPHFDMAEPAFLHIAQYRAGIVPVAFRRVPCVKKGGIRFTINGHSY
FNLVLVTNVAGAGDVRSVSVKGTRTAWQTMSRNWGWQNWQSNTYLDGQCLFRVT
SSDGRVTVSNAAVPAGWQFGQTFEGAQF*

CDS (coding sequence)

>BdEXPA-12

ATGGGCATTGCCGGCGCTCTCATCTTCCTCCTCTCGTCATCCTGTTTCCTCGCCCG
GCAAGCCGCTGCCGGCGGGTACGGGGGGTGGCAGAGCGCTCATGCCACGTTCTA
CGGCGGCGGCGATGCTTCCGGCACAATGGGCGGGGCTTGCGGGTACGGCAACCT
GTACAGCCAGGGGTACGGCACGAACACGGCGGGCGCTGAGCACGGCGCTGTTCAA
CGACGGCGCGGCGTGCGGGTCTGCTACGAGCTGCGGTGCGACAACGACGGGAA
ATGGTGCCTGCCGGGCTCCATCATGGTGACGGCCACCAACTTCTGCCCGCCCAAC
TACGGCCTCCCCAGCGACGACGGCGGCTGGTGCAACCCGCCGCGCCCGCACTTCC
ACATGGCCGAGCCGGCCTTCCTCCACATCGCTCAGTACCGCGCCGGCATCGTCCC
CGTCGCCTTCAGAAGGGTCCCCTGCGTGAAGAAGGGCGGCATCCGGTTCACCATC
AACGGCCACTCCTACTTCAACCTGGTGCTGGTGACCAACGTGGCCGGCGCCGGGG
ACGTGCGCTCCGTGTCCGTCAAGGGCACGCGCACGGCGTGGCAGACCATGTCTGA
GGAAGTGGGGCCAGAAGTGGCAGAGCAACACCTACCTGGACGGCCAGTGCCTCT
CCTTCAGGGTCACCTCCAGCGACGGTCGCACCGTCACCAGCAACGCCGCGGTGCC
CGCCGGCTGGCAGTTCGGACAGACCTTCGAGGGCGCCAGTTCTAG

Nucleotide

>BdEXPA-12

ATGTTACTGCACCTGCGCTGCATGCGCACGGCCCCGAGTTTTCCAACCGCCCACC
GGCACTAAAAGCTTTTAGACTGGCTATAAATACGTTGGCTTGGAGGAACCAATG
CTCCTCACTGCCAACCGCAACCCGTGCTAGCTCTCTTTCCACTCTGCTTTCAGATA
GCCTCACTCAAAGGTTAGCTTGGCTGTTAGAGGAAGCTTCTAGCTCTTAGCCATG
GGCATTGCCGGCGCTCTCATCTTCCTCCTCTCGTCATCCTGTTTCCTCGCCCGGCA

AGCCGCTGCCGGCGGGTACGGGGGGTGGCAGAGCGCTCATGCCACGTTCTACGG
CGGCGGGCGATGCTTCCGGCACAATGGGTGAGTTCAATTTCTTACAATGAACTTAC
TAACCTTGTGAACAAAATCAAGTCTCTCACACACACGGTGTTTCGTTCTGCAGGCG
GGGCTTGCGGGTACGGCAACCTGTACAGCCAGGGGTACGGCACGAACACGGCGG
CGCTGAGCACGGCGCTGTTCAACGACGGCGCGGGCGTGCGGGTCTTGCTACGAGCT
GCGGTGCGACAACGACGGGAAATGGTGCCTGCCGGGCTCCATCATGGTGACGGC
CACCAACTTCTGCCCCGCCAACTACGGCCTCCCCAGCGACGACGGCGGCTGGTGC
AACCCGCCGCGCCCCGCACTTCGACATGGCCGAGCCGGCCTTCCTCCACATCGCTC
AGTACCGCGCCGGCATCGTCCCCGTGCTTTCAGAAAGGTGCGTCAATTTGATTAAC
TACGTGTAATTTCTTCTTGGCACGTTGATTATGTACGGGCTCGCGACTTAAGTCTG
TTGTACCGTGTCTGTGGCTCGACCGACCGAACCATGGTTTTAATTCACCAGCCA
CGACGACCCAGGCGTCCGGTTCGGTTTATGAAGATACGCGGGGGCCACGGTCCGGT
TCGGCTCATAAGTTTTAGGCGGTCCCCTGTCTGCGGATTCGATACGGTGCACGCG
GATAGGCACAGGCAGGCAGGGCTGCTGGCTGGTACACGCATGTGCCGTGCCATTT
AACGTTACAGCTTCAGTCCCTCCCGTAGTGACGCGGTCCATCGATGACCCGGACAA
AATCTCGGGCGCACGTAATGAATACTGATCAAGGCGTTGTGTGTTAATGAATCTG
CAGGGTCCCGTGCGTGAAGAAGGGCGGCATCCGGTTCACCATCAACGGCCACTCC
TACTTCAACCTGGTGTGGTGACCAACGTGGCCGGCGCCGGGGACGTGCGCTCCG
TGTCCGTCAAGGGCACGCGCACGGCGTGGCAGACCATGTGAGGAACTGGGGCC
AGAACTGGCAGAGCAACACCTACCTGGACGGCCAGTGCCTCTCCTTCAGGGTCAC
CTCCAGCGACGGTCGCACCGTCACCAGCAACGCCGCCGTGCCCGCCGGCTGGCAG
TTCGGACAGACCTTCGAGGGCGCCCAGTTCTAGCCTGGCCTCCCTCGTGCCGGTC
GCCGCAGCAGGATATATACATATCGATCTTCTTCTCCGAGATTAAGCATGCATTG
GAGAGAAGAATTTATTTTGCATGCTGATGATCATGCAAGAGAGGCAGGCAGAAG
CGAAAATTAGGCCTCTCCTTCGTTACAGTGAAGAAAGAGGTTCCGGTCCCAGGGCT
ATGCTGAGGGCTGCTAATTAGCACCCCGCTTAGACGTTTTCTTTCTCTCCAGTTA
TGAAAGGCTTGAACAATTCGAAGAAGAAAATTGTGTTAGTTATTGCTAGCAGCT
TTAAGGGAGTGGTTTGTACTCGAACTGGAGTGGAGTACTACTTTGTACTGGGCGG
TGGCCTTTGTGATGAAATTAATAATTCGCAAGGCCAAATTTATGGACCAATGCTCT
ATCTAGCTGCACTGAAGTAGAGTTGTGACCTTCGCTGTTTGCTGTCTTCAAGTCAC
ATGGGTGGAAGATGTTT