

IDENTIFICATION

Species: *Brachypodium distachyon*

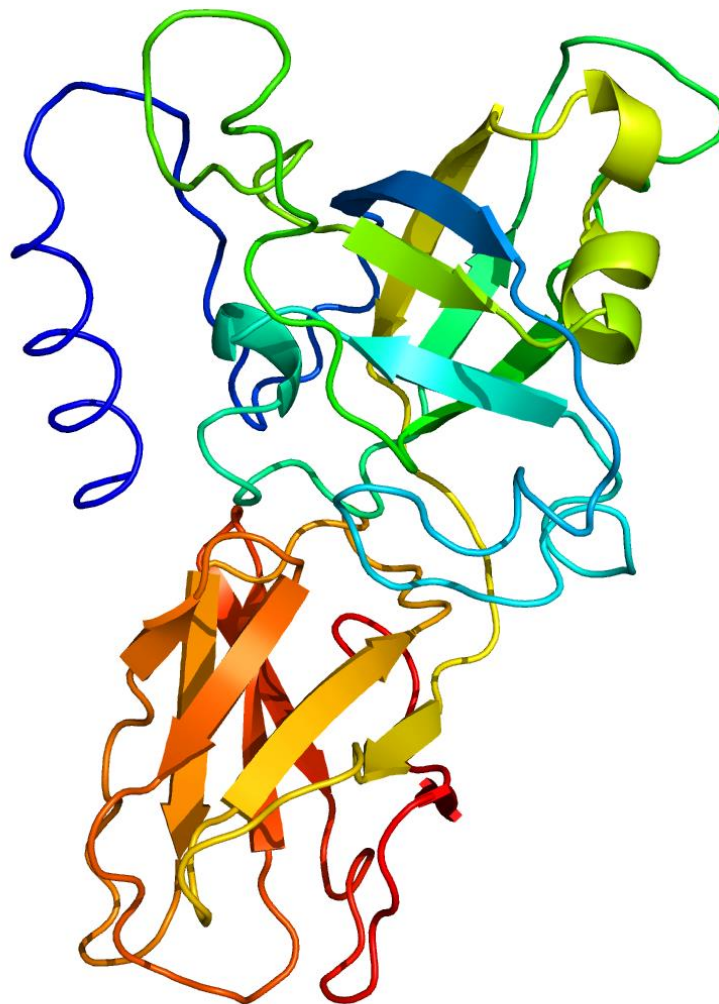
Locus: Bradi5g19340

Gene Model: Bradi5g19340.3.p

Description: BdEXPB-25

Family: Beta Expansin

3D structure:



GENOME DATABASES

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

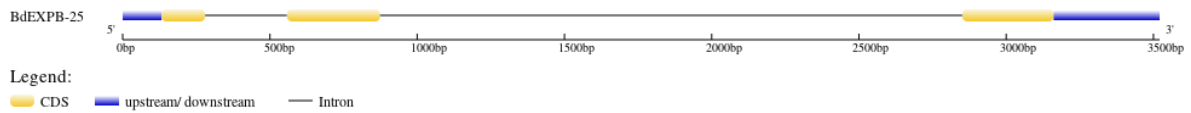
KEGG: <https://www.genome.jp/entry/T01717>

EXTERNAL RESOURCES

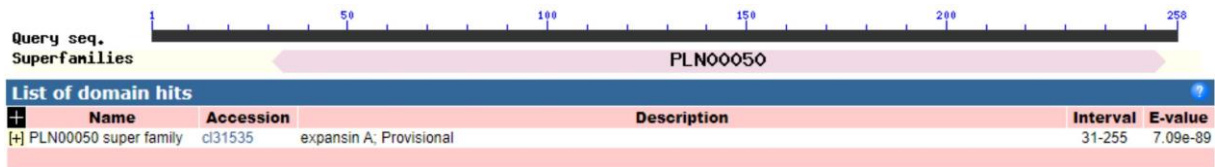
<https://brachypodium.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPB-25

MAPPLLLVLFLLPALAAGHQHPSSYGSSALSEWRHAKASYAADPEDAIGGACGFGD
LGKHGYGMATVGLSTALFDRGASCGGCYEVKCVEDLKYCLPGTIIIVTATNFCPPNY
GFPADAGGVCNPPNHHFLLPIQAFEKIALWKAGVMPIQYRRVKCLRDGGVRFVSVGR
SFFFTVLISNVGGAGDVSSVKIKGTDSGWLSMGRNWGQIWHINLDRGQPVSFELTSS
DGTALTDFTAVPKNWEFGKTYTGKQFL*

CDS (coding sequence)

>BdEXPA-25

ATGGCTCCCCCGCTCCTCCTCGTCCTCTTCCTCCTCCCGGCCCTCGCCGCCGGCCA
CCAGCACCCGTCCTCCTACGGGTCTCCGCTCTCTCCGAATGGCGCCACGCCAAG
GCATCCTACTACGCCGCCGACCCCGAAGACGCCATCGGGCGGGGCGTGCGGGTTCCG
GGGATCTGGGGAAGCACGGGTACGGGATGGCCACGGTGGGGCTGAGCACGGCTC
TGTTTCGACCGCGGCGCGTCGTGCGGGCGGCTGCTACGAGGTCAAGTGCCTCGAGGA
TCTCAAGTATTGCCTCCCGGGCACCTCCATCATCGTCACGGCCACCAACTTCTGCC
CCCCCAACTACGGGTTCCCGGGCCGACGCCGGCGGCGTCTGCAACCCGCCCAACCA
CCATTTCTCCTACCCATCCAGGCCTTCGAGAAGATTGCCCTCTGGAAGGCCGGC
GTCATGCCCATCCAGTACCGCCGCGTGAAGTGCCTTCGTGATGGCGGTGTGCGGT
TCTCTGTCTCCGGGCGGAGTTTCTTCTTACAGTTCTAATCAGCAATGTCGGTGGT
GCTGGCGATGTAAGTTCAGTGAAGATCAAAGGAACAGACTCTGGCTGGCTCTCAA
TGGGCCGCAATTGGGGCCAGATATGGCATATCAACTTGGACCTCAGAGGGCAGC
CAGTGTCTTCGAACTCACCTCCAGCGATGGCACGGCGCTGACAGATTTCACTGC
TGTGCCCAAGAATTGGGAATTTGGCAAACATACACTGGCAAGCAATTCCTGCTC
TAG

Nucleotide

>BdEXPB-25

GCAAAAGCCGAAGCACTGGCCTTGGCCTTGCACAGCTGCACGGTTCTACACTTCA
CCGTTACACACTCTCCCCAGCTTTCGCTTCACTCCATTCCGTTCCACTGAGACAT
ACGGACGAACACCTGGGGGCCATGGCTCCCCCGCTCCTCCTCGTCTCTTCTCCT
CCCGGCCCTCGCCGCCGGCCACCAGCACCCGTCTCCTACGGGTCTCCGCTCTCT

CCGAATGGCGCCACGCCAAGGCATCCTACTACGCCGCCGACCCCGAAGACGCCA
TCGGTAAGCATAATGCTCCCCTGGCTCTTTCCCTTGGTCATGGCCATCTGCATCCA
AGAAACAAATCTACCAGGCTGTCCTTGCACTTCTAAAATTCTTTGTATACATGCC
GAAGCATTAAATTTCTTTCCCTTCTTTTCGGCGTCTGCCGCAAAGGAAATTCCAACAAA
CCGCACGCTCAGTTACCAGAGTTTCTGCTCGTACAGTTCCTGAAATTGCTTCCGTT
GTTCTGGTTCCAACCACATGAACGTAATTGATTTGTGCTTTGGAATGCGGCGTGC
AGGCGGGGCGTGCGGGTTCGGGGATCTGGGGAAGCACGGGTACGGGATGGCCAC
GGTGGGGCTGAGCACGGCTCTGTTTCGACCGCGGCGGTCGTGCGGCGGCTGCTAC
GAGGTCAAGTGCGTCGAGGATCTCAAGTATTGCCTCCCGGGCACCTCCATCATCG
TCACGGCCACCAACTTCTGCCCCCAACTACGGGTTCCCGGCCGACGCCGGCGG
CGTCTGCAACCCGCCAACCACCATTTCTCCTACCCATCCAGGCCTTCGAGAAG
ATTGCCCTCTGGAAGGCCGGCGTCATGCCATCCAGTACCGCCGGTATGCGTGAT
TCTTAGCTGCATCCTTTGCTAGTTTGTCTGACTCTAGTGTACGCTGGTTGT
TACGGTAGATCTGAGGCTAATAATTTTCAGTTTCCTAATTCACTCTGCGTGGA
ACTGTAAAAGTGACCTAGAAATGCATTGGTTTGCCTAATGTGGGGATCCCCAAAAGGC
TGAATTGCAAGTATCCGTTGGTGAGGAGTGTCTGAGTATGGAGGGAGGAAGTGG
ACCCTCTTCCAGTGTGGTGAATTTCTGTTAGGGTTCGAATTGGGGTAGTTTTATCT
GCTATAATGTGCCTTAGTTTGCCTTTGATAAGTGTACTGTATGTGTACCAAAA
GGTGGTCCCGTGCCTCACATGTCAGTGACACGCGGCATTTATCAAGGGGTGAAAT
AAGACCGAGGATTTTCATCAAATCTCCTTTAAAAAAGGTAGAAAGAGCTCTACCT
TATACATTGGAAAAACAGTCCCAGAGGACAGGAGGTGCATAGAACCAAGTATTA
TAGTAAGGTAAGAGGAAAGCGCCAGCATTGACTATCTAGAGGATCACATGCTC
GATTTGCATGAGAAATACTGTAGTAATAGAGTTCTGGTTCAGTATAAGCATAATG
ACTTCTGTATCTGCTTCAGTTTATTTGGATTTGTTCGGTAATATGTGCTGGGTTGGC
ATTAAACAGATCTATCATCTCGATGATGATAACCTGGTGATTTCTAGTAGTTGTC
GTTCTTAATCTTGCTTAACAGCAATGCTTCTTTATTCCAACATTCATGATTTGTCCA
AGGTTACTAGAGTGCAGAACCGGTAGGCTGAGCTATGATAACCCATATGAAGTGT
AAAACCTGAAGAAGCACCTCATATTTAATCATGTATTCTGGTTTTTTTTTAAACAGCT
AGATTGTTTTTTATTGCTGCTCAAAGAATTGTTTGAACAATATTCATGGAGAGGCT
CGCAGAAATAGTCCAGGGACGTCTAGAATTGTTGATCTGCAGCATAACACAAATC
TAGCAGATGAGCATCGCCAAGTTATTTGCTTCTCAGGTTACATGAGGTGCCTTTA
GTACCTGGTCAATACCAAACCTGGCACATTCATTGTAGTTGTCCTCATATTTTGTGT
TTGCATTAGATATTTATGCCGGCCGGTACTCATTGAGTAGCTCTTTGGGATCCTTT
AACTTCGTTGTTTAGGTCTTCATTAGCTATTGTTTCCAAACTGTCACTAATCGGC
TTAGGTTGTGCATACTCTTCTTGTTTCCCAACCAGTTGTGGTGGCACATTCACTGT
AGTTGTCCTCATATTTCTGTGTTTTCGTTAGATATTTATGCTGCTTGGTACTCATTGA
GTAGCTCTTTGGGATCCTTTAACTTTGTTGTTTAGGTCCTCATTAACCTATTGGTTC
CAAACCTGTGTCATTAATCAACTTAGCTTGTGCATACTCTTCTTGCTTATTTAATA
GTGACCAAGATACAGACAAAATACGTTCTACTAACACTTCTAATTCACATCTGTA
AAATCAGGTAACGCTTGTGTCATTAAGAATATATGCTATACTGAAGTAGCTGT
TATGCTTGAAAAGTTTTTTAGATGTATAAATAATCTTTACATGGGTCTAAGTTCGC
AGTCTAGCTGTGAGGTGCATCTGCAAGATGGCTTCTTAGGTGACGGATTAATACA
ATGTAATAATGATCCTAAGAATTTTCATGTTTCATACAACAATTGGCCTGACCGT
CTGAGGGCATTGTTGGGATTAATATATTCATCCTGTTGTGCTCAGACACTAACTATG
TCATTGTGAGTTTCATCACTTGTACATTGTTCCCTGAGTGTTAAAGCACGTGGCA
TGATTTTCATGATAACACACAAATGAGGACAAATGAACTTTGTTATATCATAATA
TATGTTAACATGACGAACCAAAGCAAAAAAATAGCTCAGTTTTTTGGCCGAGGTTG

ATATGTTTTTTTATGAACAGCGTGAAGTGCCTTCGTGATGGCGGTGTGCGGTTCTC
TGTCTCCGGGCGGAGTTTCTTCTTCACAGTTCTAATCAGCAATGTCGGTGGTGCTG
GCGATGTAAGTTCAGTGAAGATCAAAGGAACAGACTCTGGCTGGCTCTCAATGG
GCCGCAATTGGGGCCAGATATGGCATATCAACTTGGACCTCAGAGGGCAGCCAG
TGTCTTCGAACTCACCTCCAGCGATGGCACGGCGCTGACAGATTTCACTGCTGT
GCCAAGAATTGGGAATTTGGCAAAACATACTGGCAAGCAATTCCTGCTCTAG
AGGAGAATTAACAAATAGTGCATTACAGTTACTTATTTTTGTGTTTCATCCTACGAG
TTGGTTGCACTGTATATCTCCGAGGAACAAAATTATTAGGAAAAAAAAATATAATC
TCTACTGTATATTCCTCCGAGGAACGATATGATTATTAGAAAGAAATCTGTTTCAG
TGCAGAGCTTCAGATAGAATTGTTCCGAAGATTTAAGACGCCTACAAATGATGCA
TCTAGTGTTCAAAGTTGTA ACTCCAGAAGCTTGATGTACCACCAAACATAGAA
AGACATGTT CAGTATCTTGATTGTATATCTGTATTGATTATTGAGAATGGATTTA
TAGCTGTATTGTTACTTTATCCTAGCAC