

IDENTIFICATION

Species: *Brachypodium distachyon*

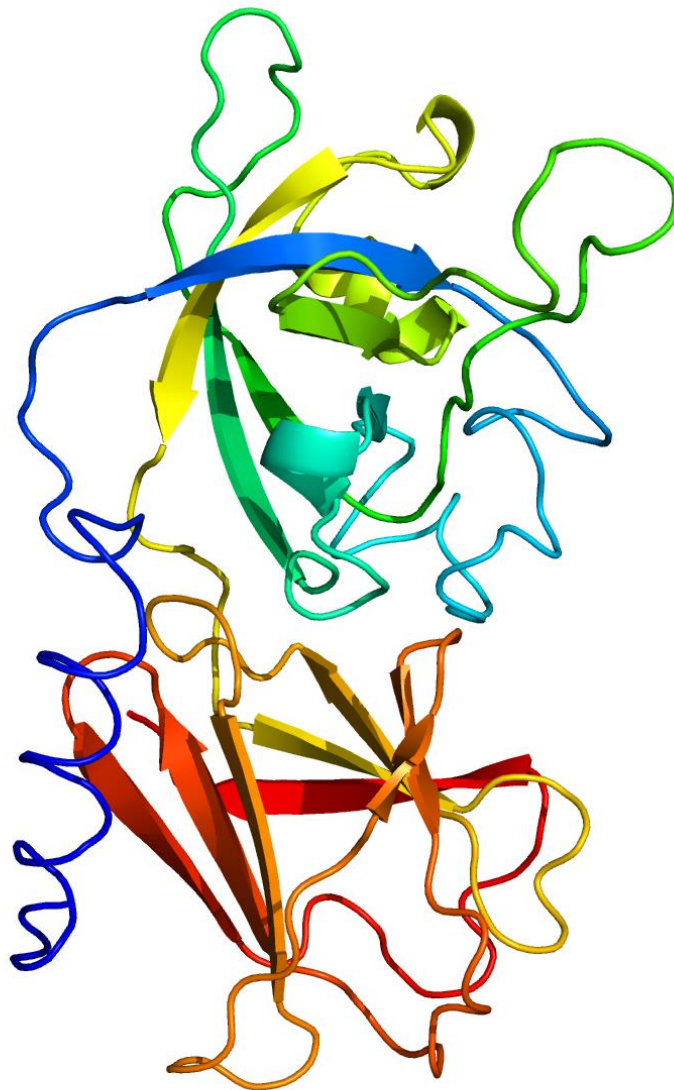
Locus: Bradi2g53580

Gene Model: Bradi2g53580.1.p

Description: BdEXPA-14

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

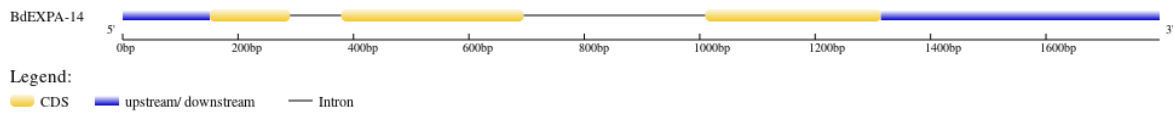
KEGG: <https://www.genome.jp/entry/T01717>

EXTERNAL RESOURCES

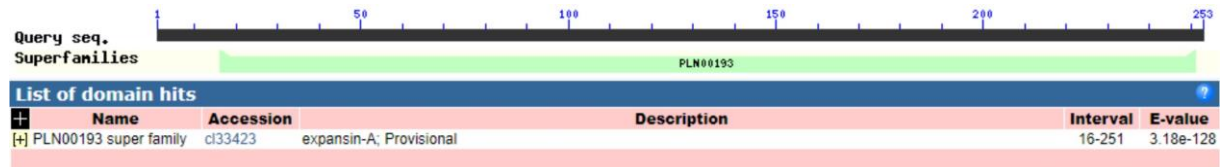
<https://brachypodium.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BdEXPA-14

MASSNALLLLLSAAFCLARRAAADYGSWQSAHATFYGGDDASGTMGGACGYGNL
YSTGYGTNTAALSTALFNDGAACGSCYELKCDNAGPSYCRPGSITITATNLCPPNYAL
PNDDGGWCNPPRAHFDMAEPAYLQIGVYRAGIVPVSYRRVPCVKKGGIRFTINGHSY
FNLVLVTNVAGAGDVQSVSIKGSSTGWQPMSRNWQNWQSNSDLGQSLSFVRTLS
DGRTLTSDGVAPAGWQFGQTFEGGQF*

CDS (coding sequence)

>BdEXPA-14

ATGGCCTCCTCCAATGCTCTGCTCCTGCTCTTGTCTGCCGCCTTCTGCTTCCTTGCC
CGGCGAGCCGCCGCGACTACGGCTCCTGGCAGAGCGCCACGCCACGTTCTACG
GCGGCGACGACGCGTCCGGCACGATGGGGGGCGCGTGCGGGTACGGGAACCTGT
ACAGCACCGGGTACGGCACGAACACGGCGGGCGCTGAGCACGGCGCTGTTCAACG
ACGGCGCGGGCGTGCGGGTTCGTGCTACGAGCTCAAGTGCGACAACGCCGGCCCGT
CCTACTGCCGTCCCAGCAGCATCACCATCACGGCCACCAACCTCTGCCCGCCAAA
CTACGCGCTGCCCAACGACGACGGCGGTGGTGCAACCCGCCGCGCGCCTTC
GACATGGCCGAGCCGGCATACTCCAGATCGGGCTTACCGCGCCGGCATCGTCC
CCGTCTCTACAGGAGGGTGCCTGCGTGAAGAAGGGCGGGATCAGGTTACCAT
CAACGGCCACTCCTACTTCAACCTGGTGGTGGTACCAACGTGGCCGGCGCCGGC
GACGTGCAGTCCGTGTCCATCAAGGGCTCAAGCACCGGCTGGCAGCCCATGTCGC
GCAATTGGGGCCAGAACTGGCAGAGCAACTCCGACCTCGACGGCCAGAGCCTCT
CCTTCAGGGTCACCCTCAGCGACGGCCGCACCCTAACCAGCGACGGCGTCGCGCC
CGCCGGATGGCAGTTCGGACAGACCTTCGAAGGAGGCCAGTTCTAG

Nucleotide

>BdEXPA-14

GATTCCAACGGCCAGGAGCACTGACGCTTACCTATAAATACGTCGCCGGGAGCG
CACACTTCCCTTACAGCCAAGCAACCATCGGTTCCCTCTTGAGTAAGTTTGGCCG
GCCGCTTTTGGAAAAGCCAGTGCTCTGCTCTTCGATCGCAATGGCCTCCTCCAATG
CTCTGCTCCTGCTCTTGTCTGCCGCCTTCTGCTTCCCTTGCCGGCGAGCCGCCGCC
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CCGGCACGATGGGTAAATGAGCTGCTCACAGCACCGTTGAAAGTCACGGACATA
AATCTGCGATGCGATTATATCTAACTGAAAGTGTCTCCGTA CTGCAGGGGGCGCG
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CCAACCTCTGCCCGCCAAACTACGCGCTGCCCAACGACGACGGCGGCTGGTGCAA
CCCGCCGCGCGCGCACTTCGACATGGCCGAGCCGGCATACTCCAGATCGGCGTC
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CGGAACCACCGCATGGTCGATCGATCGTCTCGCTCCATGTTAGGTGGGCCAGTCT
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GACAGCGACACGCCTTGCTTGTTTAGAACAGTTTAGGCCGGCCGGCTCCACGTT
ACTGAACTTGTAACCTGTGCAGTTTTTTTTTATGTACTGAACTTTTGCCGTTTCACT
GACGGTGTGTAATTGCAGGGTGCCCTGCGTGAAGAAGGGCGGGATCAGGTTAC
CATCAACGGCCACTCCTACTTCAACCTGGTGCTGGTGACCAACGTGGCCGGCGCC
GGCGACGTGCAGTCCGTGTCCATCAAGGGCTCAAGCACCGGCTGGCAGCCCATGT
CGCGCAATTGGGGCCAGA ACTGGCAGAGCAACTCCGACCTCGACGGCCAGAGCC
TCTCCTCAGGGTCACCCTCAGCGACGGCCGCACCCTAACCAGCGACGGCGTCG
GCCCGCCGGATGGCAGTTCGGACAGACCTTCGAAGGAGGCCAGTTCTAGCCTTCT
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TTGTTGTTACGTTGTAATCCCCGAATCAGGCCACATGTGTGGGAGATGTTTGTGG
GGGATAAACTTGTTATTTTTGGGACCATGAACACTACAGTACTAGTTTATGGTTTA
CGTATATCATAACAGTGTCTGATTATCCGTTG