

IDENTIFICATION

Species: *Brachypodium stacei*

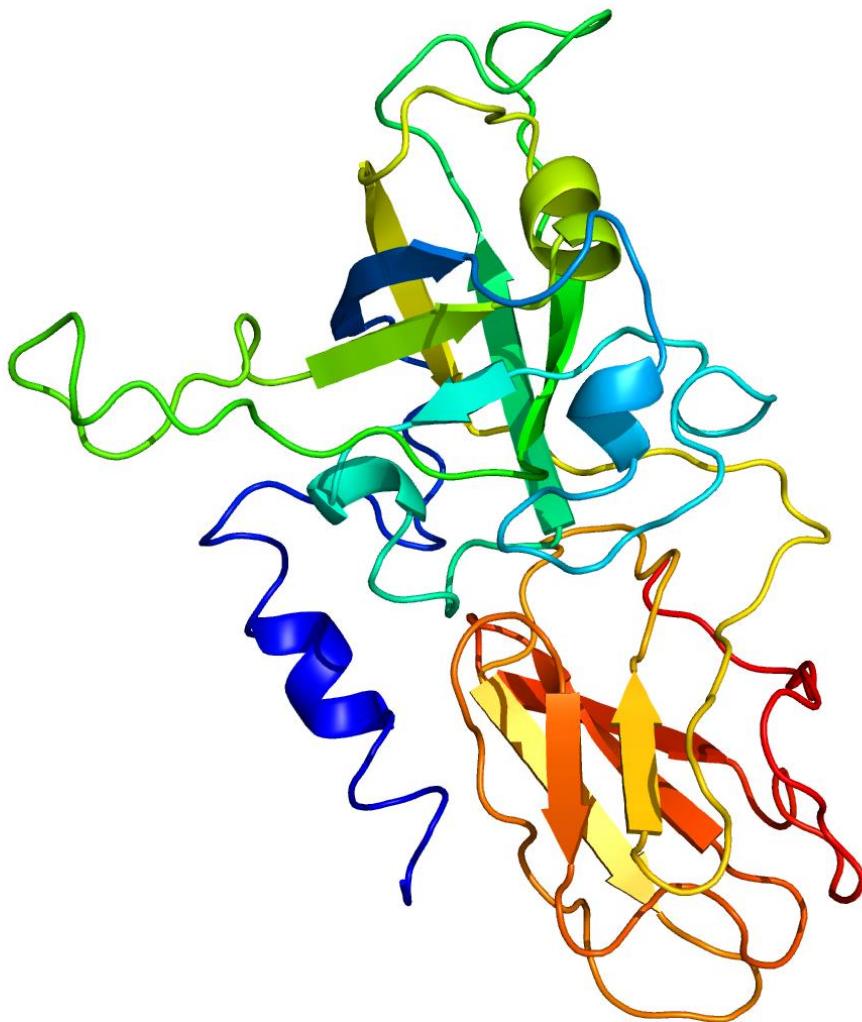
Locus: Brast04G227000

Gene Model: Brast04G227000.1.p

Description: BstEXPA-19

Family: Alpha Expansin

3D structure:



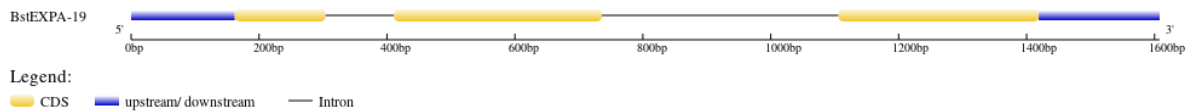
GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Bstacei_v1_1

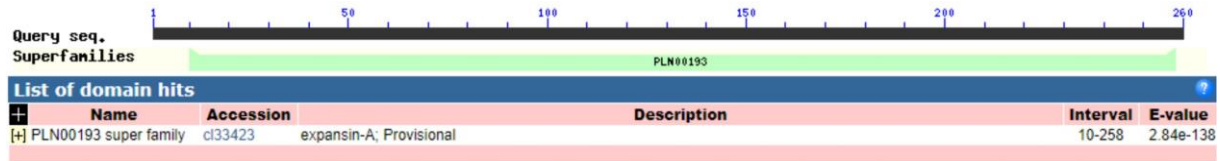
EXTERNAL RESOURCES

<https://brachypodium.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BstEXPA-19

MAPARVIQVVFLTVLGCALAVYADNAPVEWQRAHATFYGGADASGTMGGACGYG
NLYSTGYGTRTAALSTVLFNDGQACGQCYKIACDSKSA DSMWCKPGATVTITATNL
CPPNHALPNDNGGWCNPPRPHFDMAQPAWEKIGVYKGGIIPVMYQRVPCVKQGGV
RFTINGHDYFNLVLTNVA AIGSIKSMDVKSSDAANWMPMPRNWGANWHSLANLT
GKMLSFRLTNTDGTQTLVFDNIVPNGWKFGQTFTSKLQFK*

CDS (coding sequence)

>BstEXPA-19

ATGGCTCCAGCTCGAGTTATTCAGGTGGTTTTCTGACGGTCCTCGGCTGTGCATT
GGCCGTATACGCAGACAACGCGCCGGTTGAATGGCAGAGGGCGCATGCGACGTT
CTATGGTGGCGCCGATGCGTCCGGCACCATGGGTGGAGCGTGCGGGTACGGCAA
CTTGTACTCAACGGGGTATGGGACGCGGACCGCGGCATTGAGCACAGTGCTGTTT
AACGACGGTCAGGCATGCGGGCAGTGCTACAAGATCGCCTGCGACAGCAAATCA
GCGGACTCGATGTGGTGAAACCTGGCGCGACGGTGACCATTACGGCTACAAAC
CTCTGCCCCCAACCACGCCCTTCCGAACGATAATGGTGGCTGGTGCAATCCAC
CGAGGCCGCACTTCGACATGGCTCAACCGGCTTGGGAGAAGATCGGCGTCTATAA
AGGTGGCATCATCCCTGTCATGTATCAAAGAGTTCCTTGTGTGAAGCAGGGTGA
GTGCGATTACGATCAACGGGCACGACTACTTCAATCTTGTGCTTGTCATAACG
TTGCAGCCATCGGCTCGATCAAGTCGATGGATGTCAAGAGCTCTGATGCAGCTAA
TTGGATGCCAATGCCACGTA AACTGGGGAGCAA AACTGGCACTCTCTGGCGAATCTC
ACCGGAAAAATGCTCTCATT CAGATTGACCAACACCGATGGACAAACACTTGTGT
TCGACAACATTGTGCCAATGGGTGGAAATTTGGACAAACATTTACGAGCAAGTT
GCAGTTCAAATGA

Nucleotide

>BstEXPA-19

CGCACCAAACAGAACACATATCCAGTTATCTAACACTCCACAAACACCAGTTAGC
AAAAAGCATCCTGCAAATTCTCACATACCCACAGCGCTCCATAACCATTTACTTC
GTGCAGTCAAGGGCCAACTCTGGTTTACAAAATCGACAAGAAGATATACTACATG
GCTCCAGCTCGAGTTATTCAGGTGGTTTTCTGACGGTCCTCGGCTGTGCATTGGC

CGTATACGCAGACAACGCGCCGGTTGAATGGCAGAGGGCGCATGCGACGTTCTA
TGGTGGCGCCGATGCGTCCGGCACCATGGGTAAGTGACCAGTAATGAACGACTGT
TAGCAGTGTGATTTACTACAGATTGCTCTTGTTTAATTGTAGCGCATGCATACAC
TAACCGCAGATGGTTACAATGGCAGGTGGAGCGTGCGGGTACGGCAACTTGTACT
CAACGGGGTATGGGACGCGGACCGCGGCATTGAGCACAGTGCTGTTAACGACG
GTCAGGCATGCGGGCAGTGCTACAAGATCGCCTGCGACAGCAAATCAGCGGACT
CGATGTGGTGCAAACCTGGCGCGACGGTGACCATTACGGCTACAAACCTCTGCCC
CCCCAACACGCCCTTCCGAACGATAATGGTGGCTGGTGCAATCCACCGAGGCCG
CACTTCGACATGGCTCAACCGGCTTGGGAGAAGATCGGCGTCTATAAAGGTGGCA
TCATCCCTGTCATGTATCAAAGGTACGGGACATGCATATATTGTCGCTTCAATGTT
TTCCCAATGTTATGACCAAATCAACTCTAGATTTCTCAGATTAGCAATCTACACCA
GCATATGTCACAGTGCGGAACATTCCCGACACTATAATGCACCTGGAAAACAAT
GTTTAGAGCAAATGGTTCTAATAGCTTACCCGCAGAAAAAGAAAGATTGCAAT
AGCCTAAAAGAGGCACCATAATTGGGGAAACCAACTTTTCTAAGGATGATGGCA
TGCACATATTCTTCTAAAGGTTGCAATAGCTTAAAAGAGGCACCAAGATTGGGGA
AACCAACTTTGCTAAAGATTGCAATAGCTTAAATAGTCTATTTAAATAAATTTTCT
CTGCAGAGTTCCTTGTGTGAAGCAGGGTGGAGTGCGATTACGATCAACGGGCAC
GACTACTTCAATCTTGTGCTTGTCACTAACGTTGCAGCCATCGGCTCGATCAAGTC
GATGGATGTCAAGAGCTCTGATGCAGCTAATTGGATGCCAATGCCACGTAACTGG
GGAGCAAACCTGGCACTCTCTGGCGAATCTCACCGGAAAAATGCTCTCATTAGAT
TGACCAACACCGATGGACAAACACTTGTGTTTCGACAACATTGTGCCAAATGGGTG
GAAATTTGGACAAACATTTACGAGCAAGTTGCAGTTCAAATGATCACTCTCTTCT
GATGGACTTATGTCATGATTAAGTGCTTGTAGGCTCCGGAATCATTGTTGTGGGTG
TAATAACTAGCACCGCAGAGAGGTTGAAATTGTGGTACTTAATATTGCACTACCT
GTACATATAGATATATTGTATATATGTACATGCCGATACTCCTTATTTTATGTATT
TAATTTGTTG