

IDENTIFICATION

Species: *Brachypodium stacei*

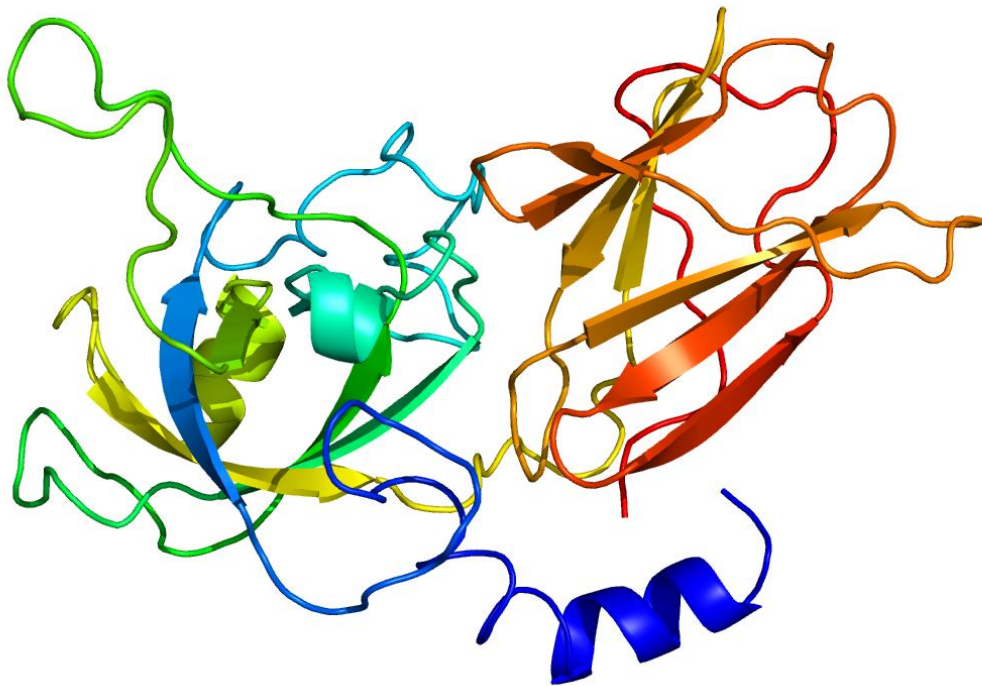
Locus: Brast04G227700

Gene Model: Brast04G227700.1.p

Description: BstEXPA-22

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

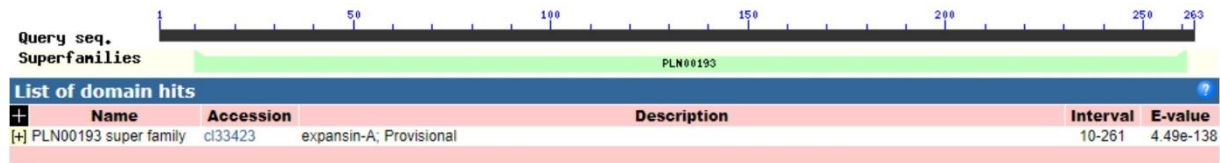
EXTERNAL RESOURCES

<https://brachypodium.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BstEXPA-22

MAPTPAQVTAVVLLTVGCTALAVVASSPQAPVVWQRAHATFYGGADASGTMGGAC
GYGNLYSEGYGTRTAALSTVLFNDGACGQCYKIACDRKVDPRWCKPGVTVTVTAT
NLCPPNNALPNDDGGWCNIPRPHFDMAQPAWEKIGVYRGGIIPVMYQRVPCVKKGG
VRFKINGHDYFNLVLTNVAAIGSIKSMDVKSTDSKDWAPMARNWGANWHSLAYL
SGKRLSFRILTNTDGQTLEFNIVPSGWKFGQTFASTVQFN*

CDS (coding sequence)

>BstEXPA-22

ATGGCACCGACTCCAGCTCAAGTTACTGCGGTGGTTCTGCTCACAGTGGGCTGTA
CTGCCTTGGCTGTAGTCGCATCGTCGCCCAAGCACCGGTCGTCTGGCAGAGGGC
GCACGCGACCTTCTACGGTGGAGCTGATGCCTCCGGCACCATGGGCGGC GCGTGT
GGCTACGGCAACCTGTACTCTGAGGGGTACGGAACCCGGACGGCGGC GCTGAGC
ACGGTGCTCTTCAACGATGGCYCGGCATGCGGGCAATGTTACAAAATTGCATGCG
ACCGCAAGGTAGACCCAAGGTGGTGTAAACCGGGTGTGACGGTGACAGTCACGG
CCACAAACCTCTGCCCGCCCAACAATGCCCTTCAAATGACGATGGTGGTTGGTG
CAACATAACCACGCCCGCACTTCGACATGGCACAACCGGCCTGGGAGAAGATTGG
TGTCTATAGGGGTGGC ATCATTCCGGTCATGTATCAGAGGGTTCATGCGTGAAG
AAGGGTGGCGTGCGGTTTAAGATCAACGGGCACGACTATTTCAATCTTGTACTTG
TGACCAACGTTGCAGCCATCGGCTCGATAAAATCTATGGATGTCAAGAGCACCGA
TTCAAAGATTGGGCGCCTATGGCACGCAACTGGGGTGC GAACTGGCACTCGTTG
GCTTATCTTAGCGGGAAAAGGCTCTCGTTCAGACTAACCAACTGATGGGCAA
CACTTGAGTTTAATAACATTGTGCCAAGTGGATGGAAGTTTGGGCAAACATTTGC
GAGCACGGTGCAGTTCAACTGA

Nucleotide

>BstEXPA-22

CACAAGATCACCAAAGCAGCAGAAGCAAATCCACATAGACAGAAGAACAACA
CATTAGCGAGCTAGGACTTCTAGCTTTCGCATCATCTGGCAAATTCGTGAGAGTTT
TCAAGACCATCGATCTAGCATTCCAGCGCCAGATATGGCACCGACTCCAGCTCAA
GTTACTGCGGTGGTTCTGCTCACAGTGGGCTGTACTGCCTTGGCTGTAGTCGCATC

GTCGCCCAAGCACCGGTCGTCTGGCAGAGGGCGCACGCGACCTTCTACGGTGGA
GCTGATGCCTCCGGCACCATGGGTAAGTAGCTTATCGATTGTGAAGTCATGGTTA
ATTCAATTCTACCTCTGCGCTAAGAGCATGTTGCCAATTAACAACTACAATATAT
ATATGCAGGCGGCGCGTGTGGCTACGGCAACCTGTACTCTGAGGGGTACGGAAC
CCGGACGGCGGCGCTGAGCACGGTGCTCTTCAACGATGGCYCGGCATGCGGGCA
ATGTTACAAAATTGCATGCGACCGCAAGGTAGACCCAAGGTGGTGTAAACCGGG
TGTGACGGTGACAGTCACGGCCACAAACCTCTGCCCGCCAACAATGCCCTTCCA
AATGACGATGGTGGTTGGTGCAACATACCACGCCCGCACTTCGACATGGCACAAC
CGGCCTGGGAGAAGATTGGTGTCTATAGGGGTGGCATCATTCCGGTCATGTATCA
GAGGTACATCACAAATTTATCATAAATTTTGTGCCTTTTTAACTAACAATGGCTCA
GTTTCAATCTAAAACCAAATCGTTGTAGGGTTCCATGCGTGAAGAAGGGTGGCGT
GCGGTTTAAGATCAACGGGCACGACTATTTCAATCTTGTACTTGTGACCAACGTT
GCAGCCATCGGCTCGATAAAAATCTATGGATGTCAAGAGCACCGATTCAAAGATT
GGGCGCCTATGGCACGCAACTGGGGTGCGAACCTGGCACTCGTTGGCTTATCTTAG
CGGGAAAAGGCTCTCGTTCAGACTAACCAACACTGATGGGCAAACACTTGAGTTT
AATAACATTGTGCCAAGTGGATGGAAGTTTGGGCAAACATTTGCGAGCACGGTGC
AGTTCAACTGATTGATTTGTCATAGATTGCATAATTTGTTGGAATATATTGATATG
GTCGTGCTTGACTACTTGTATATAGCAAACACAAGTTCTGGATTTGGTCACTGCTG
TAACTCCAATTGTGCGTGTGT