

## IDENTIFICATION

**Species:** *Brachypodium stacei*

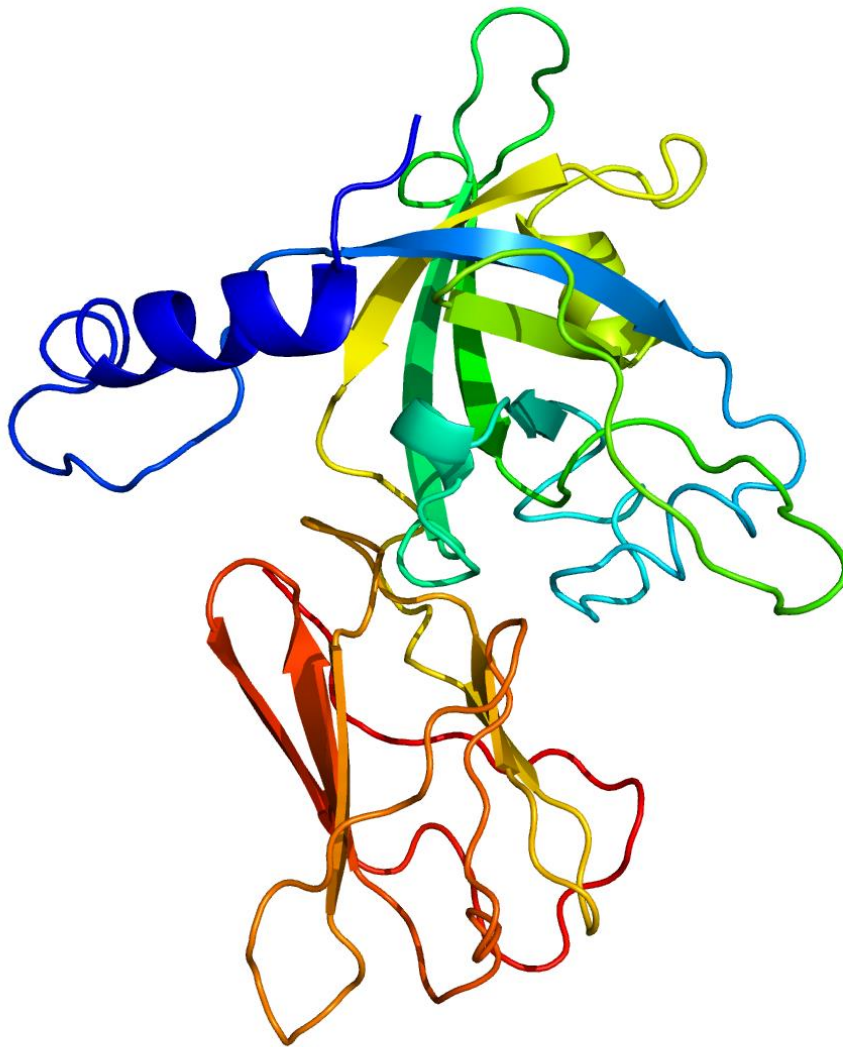
**Locus:** Brast04G227800

**Gene Model:** Brast04G227800.1.p

**Description:** BstEXPA-23

**Family:** Alpha Expansin

**3D structure:**



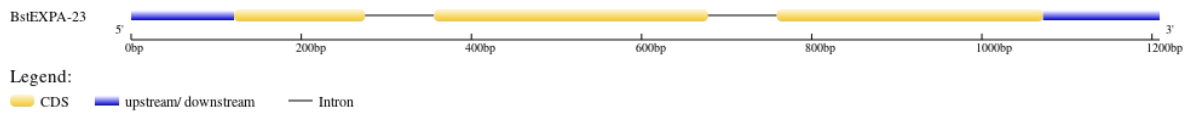
## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Bstacei\\_v1\\_1](https://phytozome-next.jgi.doe.gov/info/Bstacei_v1_1)

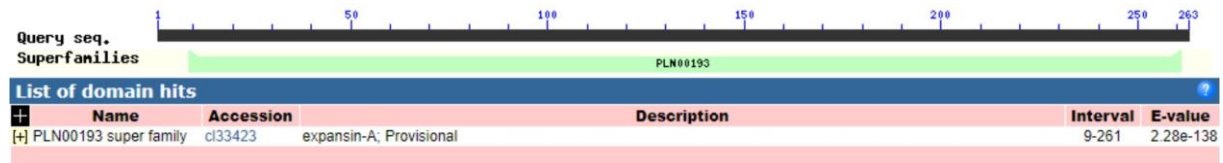
## EXTERNAL RESOURCES

<https://brachypodium.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BstEXPA-23

MAPTPAQVAAVVLLTVGCTALAVVASPPQAPVVWQRAHATFYGGADASGTMGGA  
CGYGNLYSEGYGTRTTALSTVLFNDGAACGQCYKIACDRKVDPRWCKPGVTVTVTA  
TNLCPPNNALPNDDGGWCNIPRPHFDMAQPAWEKIGVYRGGIIPVMYQRVPCVKKG  
GVRFKINGHDYFNLVLTNVAAIGSIKSMDVKSSKDWAPMARNWGANWHSLAY  
LSGKMLSFRLTNTDGTLEFNNIVPRGWKFGQTFASTVQFN\*

### CDS (coding sequence)

>BstEXPA-23

ATGGCACCGACTCCAGCTCAAGTTGCTGCGGTGGTTCTGCTCACCGTGGGCTGTA  
CTGCCTTGGCTGTAGTCGCATCGCCGCCCAAGCACCGGTCGTCTGGCAGAGGGC  
GCATGCGACCTTCTACGGTGGAGCTGATGCCTCCGGCACCATGGGCGGGGCGTGT  
GGGTATGGTAACCTGTACTCTGAGGGGTACGGAACCCGGACGACGGCGCTGAGC  
ACGGTGCTCTTCAACGATGGCGCGGCATGCGGGCAATGTTACAAAATTGCATGCG  
ACCGCAAGGTAGACCCAAGGTGGTGTAAACCGGGTGTGACGGTGACAGTCACGG  
CCACAAACCTCTGCCCGCCCAACAATGCCCTTCAAATGACGATGGTGGTTGGTG  
CAACATAACACGCCCACCTTCGACATGGCACAACCGGCCTGGGAGAAGATTGG  
TGTCTATAGGGGTGGCATTCCGGTCATGTATCAGAGGGTTCATGCGTGAAG  
AAGGGTGGCGTGCGGTTTAAGATCAACGGCCACGACTATTTCAATCTTGTACTTG  
TAACCAACGTTGCAGCCATCGGCTCGATAAAATCTATGGATGTCAAGAGCTCCGA  
ATCAAAGATTGGGCACCTATGGCGCGCAATTGGGGTGCGAACTGGCACTCGTTG  
GCGTATCTTAGCGGGAAAATGCTCTCTTTTCAGATTAACCAACACCGATGGACAAA  
CCCTTGAATTCAATAACATAGTGCCACGTGGATGGAAGTTTGGGCAAACATTTGC  
GAGCACAGTGCAGTTCAACTGA

### Nucleotide

>BstEXPA-23

AGCAAATCCACATAGACAAAAGAACAACACATTAGCGAGCAAGGTCTTCTCCA  
GCTTTCTATCATCTGGCAAATTCGTGAGAGTTCCCAAGGCTATCGATCTAGCATTC  
CAGCGCCAGATATGGCACCGACTCCAGCTCAAGTTGCTGCGGTGGTTCTGCTCAC  
CGTGGGCTGTACTGCCTTGGCTGTAGTCGCATCGCCGCCCAAGCACCGGTCGTC

TGGCAGAGGGCGCATGCGACCTTCTACGGTGGAGCTGATGCCTCCGGCACCATGG  
GTA ACTACAACTCATGGTTAATTCAATTCTACGTCTGCGCCAATGGCATGTTGCC  
AATTAATAATTACTATATATGCAGGCGGGGCGTGTGGGTATGGTAACCTGTACT  
CTGAGGGGTACGGAACCCGGACGACGGGCGCTGAGCACGGTGCTCTTCAACGATG  
GCGCGGCATGCGGGCAATGTTACAAAATTGCATGCGACCGCAAGGTAGACCCAA  
GGTGGTGTAAACCGGGTGTGACGGTGACAGTCACGGCCACAAACCTCTGCCCGCC  
CAACAATGCCCTTCCAAATGACGATGGTGGTTGGTGCAACATACCACGCCCGCAC  
TTCGACATGGCACAACCGGCCTGGGAGAAGATTGGTGTCTATAGGGGTGGCATCA  
TTCCGGTCATGTATCAGAGGTACATCACAAATTTATCATAATTTTTGTGCCTTTTT  
AACTAGTAATGGCTCAGTTTCAAATAAAACCAAATCGTTGTAGGGTTCCATGCG  
TGAAGAAGGGTGGCGTGCGGTTTAAGATCAACGGCCACGACTATTTCAATCTTGT  
ACTTGTAACCAACGTTGCAGCCATCGGCTCGATAAAATCTATGGATGTCAAGAGC  
TCCGAATCAAAGATTGGGCACCTATGGCGCGCAATTGGGGTGCGAACCTGGCACT  
CGTTGGCGTATCTTAGCGGGAAAATGCTCTCTTTCAGATTAACCAACACCGATGG  
ACAAACCCTTGAATTCAATAACATAGTGCCACGTGGATGGAAGTTTGGGCAAACA  
TTTGCGAGCACAGTGCAGTTCAACTGATTGATTTGTCAGAGATTGCATAATTTGTT  
GGAATATATTGATATTGTGGTGCTTAATAACTTGTATATAGCTAAACATTTTTTTA  
ATTTGGTCACTGCTGTA ACTCTGTATAAATTTGTAAGGTGTATATAAGATGC