

## IDENTIFICATION

**Species:** *Brachypodium stacei*

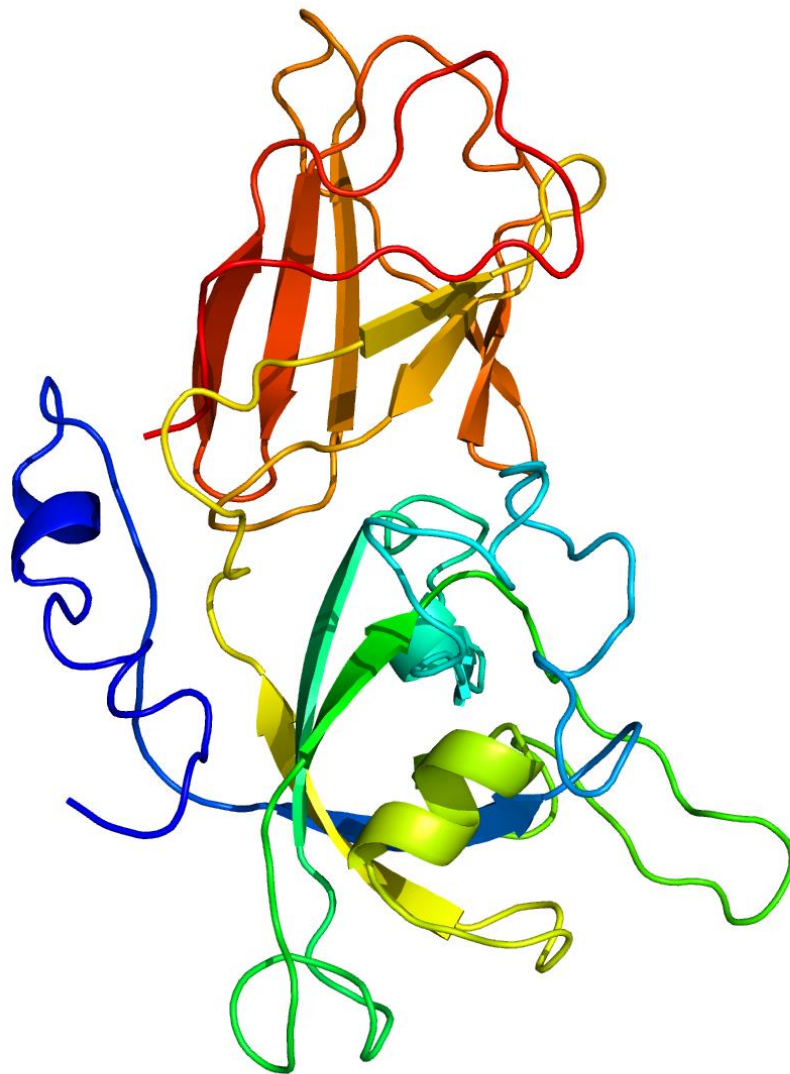
**Locus:** Brast04G227200

**Gene Model:** Brast04G227200.1.p

**Description:** BstEXPA-20

**Family:** Alpha Expansin

**3D structure:**



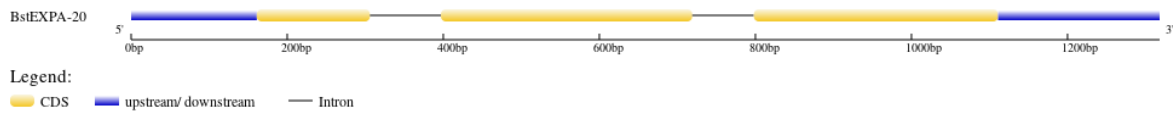
## GENOME DATABASES

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

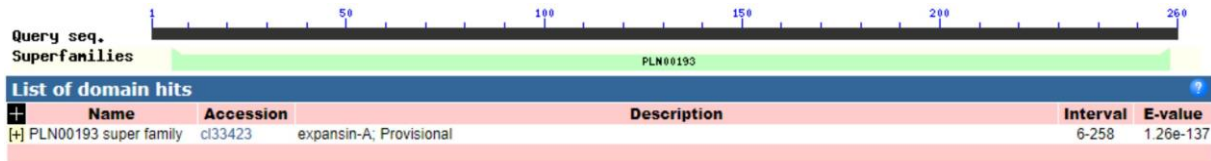
## EXTERNAL RESOURCES

<https://brachypodium.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BstEXPA-20

MAPVPAQVIAVVLLTAA YTALAGSPPAPVWQRATATFYGGADASGTMGGACGYG  
NLYDEGYGNRSAALSTVLFNDGASCGQCYKIACDRKIDPRWCKPGVTVTITATNFCP  
PNNALPNDNGGCWNTPRPHFDMAQPAWEKIGIYRGGIIPVMYQRVPCVKKGGIRFKI  
NGHDYFNLVLTNVAAAGSIKSMDVMSSDSKDWAPMSRNWGANWHSLAYLSGKQ  
LSFRITNTDGQTLLENKIVPSGWKFGQTFASKVQFS\*

### CDS (coding sequence)

>BstEXPA-20

ATGGCGCCGGTTCAGCTCAAGTGATTGCGGTGGTGCTGCTCACAGCGGCCTATA  
CTGCTTTGGCTGGGTCGCCTCCGGCACCGGTCGTTTGGCAGAGGGCGACCGCGAC  
GTTCTACGGTGGAGCTGACGCCTCCGGCACCATGGGTGGTGCGTGTGGGTATGGC  
AACCTGTACGATGAGGGGTACGGGAACCGGTCGGCGGCGCTGAGCACGGTGCTG  
TTCAACGATGGCGCGTCGTGCGGACAATGCTATAAGATTGCATGTGATCGCAAGA  
TAGACCCAAGGTGGTGCAAGCCTGGCGTGACAGTGACAATCACTGCTACAACTT  
CTGCCCGCCAACAATGCCCTTCCGAATGACAACGGCGGATGGTGCAACACACCA  
AGGCCACACTTCGACATGGCGCAGCCGGCCTGGGAGAAGATCGGCATCTATAGA  
GGTGGCATCATTCCGGTCATGTATCAGAGGGTTCATGCGTGAAGAAGGGTGGCA  
TACGGTTTAAAATCAACGGCCATGACTACTTCAATCTCGTGCTTGTACCAACGTT  
GCAGCTGCTGGCTCGATAAAATCGATGGACGTCATGAGCTCCGACTCAAAGATT  
GGGCGCCCATGTCACGCAACTGGGGTGCAAACCTGGCACTCATTGGCATATCTCAG  
CGGGAAACAACCTCTTTTTCAGAATAACCAACACAGATGGGCAAACGCTTCTGTTC  
AACAAGATTGTGCCAAGTGGATGGAAGTTTGGGCAAACATTTGCAAGCAAAGTA  
CAGTTCAGCTGA

### Nucleotide

>BstEXPA-20

ATCAAACGCAGGATCATCACAGAAATTTAAGCCAGCAGAAGCAAATATTCCACA  
TAGACAAAAGAAGAAACACAAACGAGCAGAGACATCTAGCTTTCGGCAGCGTCT  
GATCATCTCAGGAGTTCGTGAATATTTTTGAAGGCGATCATCCAGCGGCAGATAT  
GGCGCCGGTTCAGCTCAAGTGATTGCGGTGGTGCTGCTCACAGCGGCCTATACT

GCTTTGGCTGGGTCGCCTCCGGCACCGGTCGTTTGGCAGAGGGCGACCGCGACGT  
TCTACGGTGGAGCTGACGCCTCCGGCACCATGGGTAACATACTTATTACAACTC  
ATGTCTCATACGCTAATCTAATTAATTAAGAGCACATCGTTTAATTACCTTCAACG  
CACATATGCGCAGGTGGTGGTGTGGGTATGGCAACCTGTACGATGAGGGGTAC  
GGGAACCGGTGCGGCGGCGCTGAGCACGGTGCTGTTCAACGATGGCGCGTCGTGC  
GGACAATGCTATAAGATTGCATGTGATCGCAAGATAGACCCAAGGTGGTGCAAG  
CCTGGCGTGACAGTGACAATCACTGCTACAACTTCTGCCCCGCCAACAATGCC  
TTCCGAATGACAACGGCGGATGGTGCAACACACCAAGGCCACACTTCGACATGG  
CGCAGCCGGCCTGGGAGAAGATCGGCATCTATAGAGGTGGCATCATTCCGGTCAT  
GTATCAGAGGTACACACATGCAAATTGTATTGTGCTTTTGTAAAGTAATATTAGCTC  
CAAGTCAATCTAAAACCAAATCTTTTAATTAGGGTTCCATGCGTGAAGAAGGGTG  
GCATACGGTTTAAAATCAACGGCCATGACTACTTCAATCTCGTGCTTGTACCAA  
CGTTGCAGCTGCTGGCTCGATAAAAATCGATGGACGTCATGAGCTCCGACTCAAAA  
GATTGGGCGCCCATGTCACGCAACTGGGGTGCAAACCTGGCACTCATTGGCATATC  
TCAGCGGAAACAACCTCTCTTTCAGAATAACCAACACAGATGGGCAAACGCTTCT  
GTTCAACAAGATTGTGCCAAGTGGATGGAAGTTTGGGCAAACATTTGCAAGCAA  
AGTACAGTTCAGCTGATCCTTCCCATAAGATCAATGACATGGTTGATTTGATGCA  
GTACTTGTATATAGATGTCGAATGGGTCATGTCATGTACATATAACAATATTAATAT  
TGTGTTGTGTTATGTATTTGTGTTTATAACTCATGGGGTGTATAATCTTAAGGTTG  
CTTGATTCAATCTCAGACAGAAAACAGTTTGTACAAATCCTTCATCCGTATGTGTC