

## IDENTIFICATION

**Species:** *Brachypodium stacei*

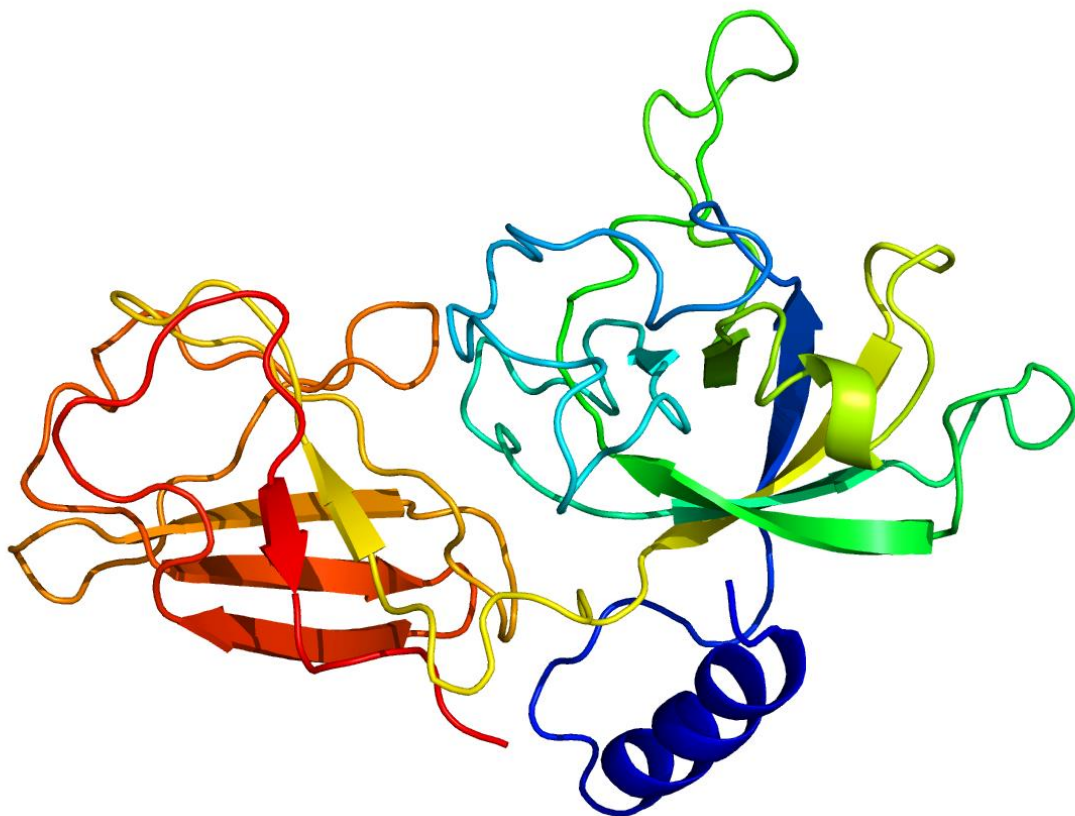
**Locus:** Brast03G134400

**Gene Model:** Brast03G134400.1.p

**Description:** BstEXPA-13

**Family:** Alpha Expansin

**3D structure:**



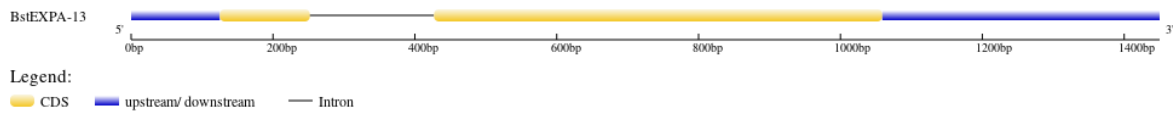
## GENOME DATABASES

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

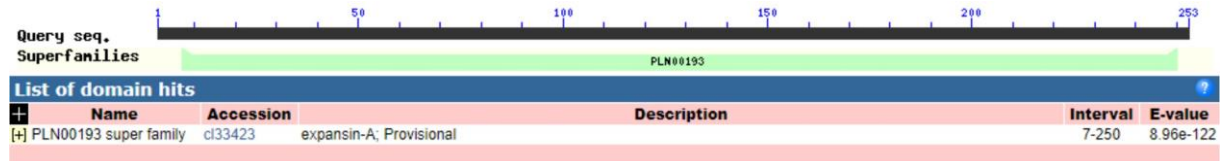
## EXTERNAL RESOURCES

<https://brachypodium.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BstEXPA-13

MDMAKSLVLC AIFLSACL SLAAADWLPATATFYGEADASGTMGGACGYSNLYDQG  
YGVNNAALSTVLFNDGASCGQCFTITCDSKKS GWCKTGNSITVSATNLCPPNWALPN  
DNGGWCNPPRQHFDMSQPAWETIAIYRAGIVPVLYQRVKCWRTGGVRFTIAGFNYP  
ELVLITNVGGSGSVASVSIKGANTGWIQMSRNWGANWQCLAGLAGQALSFAVTTTG  
GQYIVFDNIAPVWWQFGQTFGSYKQFDY\*

### CDS (coding sequence)

>BstEXPA-13

ATGGATATGGCTAAGTCGCTGGTTCTATGTGCCATATTCCTCTCGGCGTGCCTCTC  
ACTCGCGGCGGCCGATTGGTTGCCAGCGACGGCGACGTTCTACGGCGAAGCCGA  
CGCCTCCGGCACCATGGGCGGCGCGTGCGGGTACAGCAACCTGTACGACCAGGG  
GTACGGCGTGAACAACGCGGCGCTGAGCACGGTGCTGTTCAACGACGGCGCGTC  
GTGCGGGCAGTGCTTCACAATCACCTGCGACTCCAAGAAGTCCGGGTGGTGCAA  
ACCGGCAACAGCATCACGGTGTCGGCGACCAACCTGTGCCCGCCAACTGGGCG  
CTCCCAACGACAACGGCGGGTGGTGCAACCCGCCGCGGCAGCACTTCGACATGT  
CGCAGCCGGCCTGGGAGACCATCGCCATCTACCGCGCCGGCATCGTGCCCGTGCT  
CTACCAGCGGGTCAAGTGCTGGCGCACGGGCGGGGTCAGGTTCCACATCGCCGG  
GTTCAACTACTTCGAGCTCGTGCTCATCACCAACGTGGGCGGCAGCGGCTCCGTG  
GCTAGCGTGTCCATCAAGGGGGCAAACACCGGGTGGATCCAGATGTCAAGGAAC  
TGGGGCGCCAACTGGCAGTGCTCGCGGGGCTTGCCGGGCAGGCGCTCAGCTTCG  
CCGTGACCACCACCGGCGGGCAGTACATTGTGTTTCGACAACATCGCGCCGGTCTG  
GTGGCAGTTCGGACAGACATTCGGCTCCTACAAACAGTTCGACTACTGA

### Nucleotide

>BstEXPA-13

TAGTTCAAACGGCACACACCCTCCCTCCTCTCTAGCTAGCTTGATCGCTTCTCTCG  
TGCGCTAGCTAGCTCAATCTCTGCCTCGAGCCCTCGACCGACTGATCTAAGACGT  
ACAGCATTGTCGTCATGGATATGGCTAAGTCGCTGGTTCTATGTGCCATATTCCTC  
TCGGCGTGCTCTCACTCGCGGCGGCCGATTGGTTGCCAGCGACGGCGACGTTCT

ACGGCGAAGCCGACGCCTCCGGCACCATGGGTAAACTAAGCAATATATACAGCT  
AGCATTTCACGTACAGATTATAATTAGAGCACGTGCGTGCATTTGTGCCAGTT  
AAAGCATGATCGAGTGTACGTTGTGTACTGGCGTGCATGCCTGTCTTGTGTGAGC  
CTATAATTGACATGCTTCTCGTTGTGGGGCTCTTTTCTCAGGCGGGCGCGTGCGGGT  
ACAGCAACCTGTACGACCAGGGGTACGGCGTGAACAACGCGGGCGCTGAGCACGG  
TGCTGTTCAACGACGGCGCGTTCGTGCGGGCAGTGCTTCACAATCACCTGCGACTC  
CAAGAAGTCCGGGTGGTGCAAAACCGGCAACAGCATCACGGTGTGCGGCGACCAA  
CCTGTGCCCGCCAACTGGGGCGCTCCCCAACGACAACGGCGGGTGGTGCAACCCG  
CCGCGGCAGCACTTCGACATGTCGCAGCCGGCCTGGGAGACCATCGCCATCTACC  
GCGCCGGCATCGTGCCCGTGTCTACCAGCGGGTCAAGTGCTGGCGCACGGGCGG  
GGTCAGGTTACCATCGCCGGGTCAACTACTTCGAGCTCGTGCTCATCACCAAC  
GTGGGCGGCAGCGGCTCCGTGGCTAGCGTGTCCATCAAGGGGGCAAACACCGGG  
TGGATCCAGATGTCAAGGAACTGGGGCGCCAACCTGGCAGTGCCTCGCGGGGCTT  
GCCGGGCAGGCGCTCAGCTTCGCCGTGACCACCACCGGCGGGCAGTACATTGTGT  
TCGACAACATCGCGCCGGTCTGGTGGCAGTTCGGACAGACATTGGGCTCCTACAA  
ACAGTTCGACTACTGATCAGACATCATCGGTCCTCGTCCCCACAGGGTGCGCTGC  
GCTTCTTCGTGGTTCGGATTAATTAATATGGTGGTTCGTGCGTGCAGCGCTCGTCATT  
TTGAGGGAGCTACACGTACCTGCCGCCATTGCATCCTTGGTCTTGGTGTCCGGCTC  
CGGCATGGATATGATATCCTCCTATGTGATGCTCCACGTACTGCTGGAGCTGCG  
CGCGCGGGCGGGATGATGTGTAACCTTCGACTCCTAGCTTGTGCCGATTTTTACTT  
GTTGCTTTACTAATTTTGTTTAATTTTGTTTAATTCGGTGCGGCCATATATATAA  
AGAAAATTATTGCTAGTATATTGAAAAAATAAATCTGTCAATGTACACTGCTTCC  
TCAAGTAATTAAGCA