

## IDENTIFICATION

**Species:** *Brachypodium stacei*

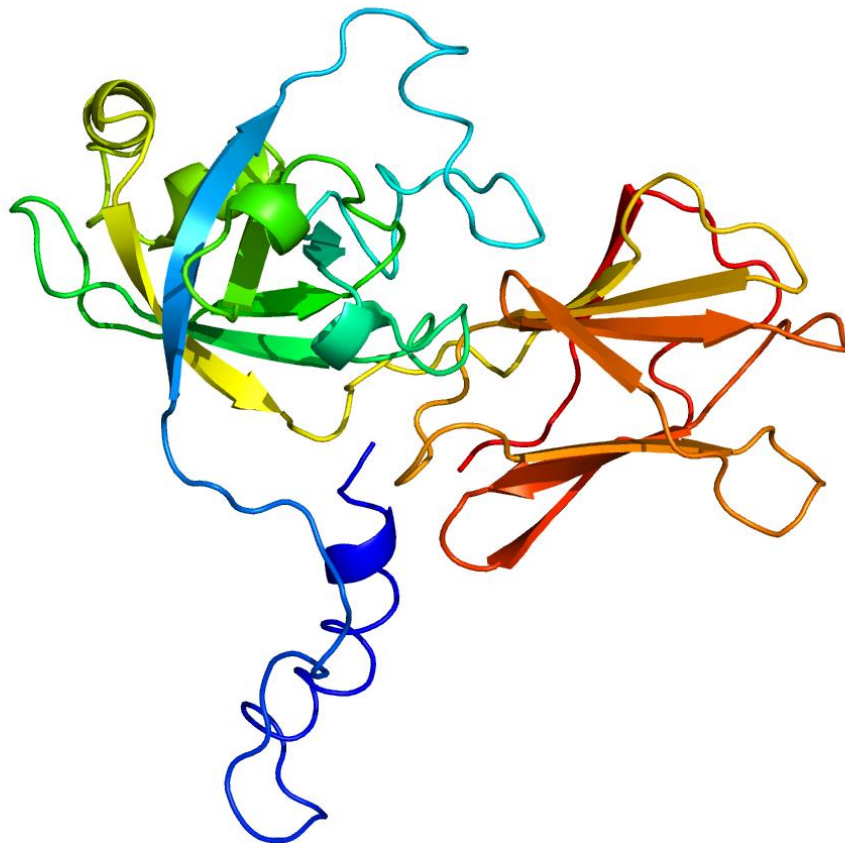
**Locus:** Brast05G251900

**Gene Model:** Brast05G251900.1.p

**Description:** BstEXPB-17

**Family:** Beta Expansin

**3D structure:**



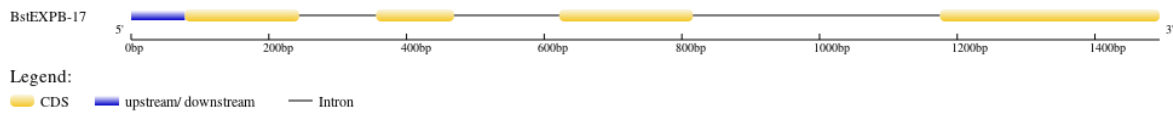
## GENOME DATABASES

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

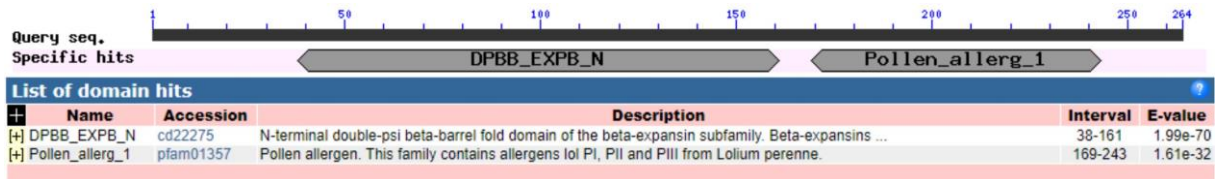
## EXTERNAL RESOURCES

<https://brachypodium.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BstEXPB-17

MGSSFVFEAAAVLLLLCSRGA SSSSTVEELRRELHGWADARATWYGPPDGAGTNG  
GACGYQGDVEQPPFSAMITAGGPSIFQNGQCGACYQVKCTGNADCSGRPVSVVVT  
DECPGGPCVAERFHFDLGGRAFGAMAKPGHANGLRNAGNIKVQFRRVACNWKGV D  
VAFRVDLGSNPYYLAVLVEDEAGDGDLSAVDLKQPGSGGWAPMQRSWGAVWKYN  
GGPLRAPMSVRLTSGSGRKLVAADVIPAGWQPGRTYRSLVNY\*

### CDS (coding sequence)

>BstEXPB-17

ATGGGTTCTCTTTTCGTGTTTCGAGGCGGCGGCTGTGCTCCTGCTGCTGCTCTGCAG  
CCGTGGCGCGTCGTCGTCGACCGTGGAGGAGCTCCGCCGCGAGCTCCACGGC  
TGGGCCGACGCCCGCGCCACGTGGTACGGTCCCCCGACGGCGCCGGCACCAAC  
GGTGGTGCCTGCGGGTACCAGGGCGACGTGGAGCAGCCGCCGTTCTCCGCCATG  
ATCACCGCCGGCGGGCCCTCCATCTTCCAGAACGGCCAGGGCTGCGGGCGCATGCT  
ACCAGGTGAAATGCACGGGCAACGCGGACTGCTCGGGGCGACCGGTGAGCGTGG  
TGGTGACGGACGAGTGCCCCGGTGGGCGGTGCGTCGCCGAGCGCTTCCACTTCGA  
CCTCGGCGGCAGGGCCTTCGGCGCCATGGCCAAGCCCGGCCACGCCAACGGCCTC  
CGCAACGCCGGCAACATCAAAGTCCAGTTCGCCGGGTGGCGTGCAACTGGAAG  
GGCGTGGACGTGGCCTTCAGGGTGGACTTGGGGTTCGAACCCGTA CTACTGGCGG  
TGCTGGTGGAGGACGAGGCCGGTGACGGCGACCTGTCCGCGGTGGACCTCAAAC  
AGCCCGGCTCCGGCGGGTGGGCCCCGATGCAGCGCTCCTGGGGCGCCGTCTGGA  
AGTACAACGGCGGCCCGCTGCGGGCGCCCATGTCCGTCCGCCTCACGTCCGGCTC  
CGGCAGGAAGCTCGTCGCCGCTGACGTCATCCCCGCCGGCTGGCAGCCCGGCCG  
ACCTACCGCTCCCTCGTCAACTACTGA

### Nucleotide

>BstEXPB-17

GTCTCTCGGTTCGATTACATATTGCGGTCTGATCTTGTTTCCAAATCGTATCGTGTA  
TTCGTGCTGCTGCGAGCGAGCAATGGGTTCTCTTTTCGTGTTTCGAGGCGGCGGCT  
GTGCTCCTGCTGCTGCTCTGCAGCCGTGGCGCGTCGTCGTCGTCGACCGTGGAGG

AGCTCCGCCGCGAGCTCCACGGCTGGGCCGACGCCCGCGCCACGTGGTACGGTCC  
CCCCGACGGCGCCGGCACCAACGGTACGTGCATATATACATGTATATATATATCG  
TGATTCCTCAGAGATCAGGTATACATCCAGTTTTGTTGGGTATACTGACAAACAG  
TGAGACGATCTGCGTGTGTACGTAGGTGGTGCCTGCGGGTACCAGGGCGACGTG  
GAGCAGCCGCGTTCTCCGCCATGATCACCGCCGGCGGGCCCTCCATCTTCCAGA  
ACGGCCAGGGCTGCGGGCGCATGCTACCAGGTAAGTACACTGCAAATCGGTCTG  
GTTTCTTCGACCATTACTTTCCGCCGGCCGTTAGTCCGTTACCACCTTCTCCTCTAT  
TAATTGACTCCACTATAGTATTATTACCCAAGAATAAATTCAGCTGATCTTGTGCG  
CATCCATATATGCAGGTGAAATGCACGGGCAACGCGGACTGCTCGGGGCGACCG  
GTGAGCGTGGTGGTGACGGACGAGTGCCCCGGTGGGCCGTGCGTCCGCGAGCGC  
TTCCACTTCGACCTCGGCGGCAGGGCCTTCGGCGCCATGGCCAAGCCCGGCCACG  
CCAACGGCCTCCGCAACGCCGGCAACATCAAAGTCCAGTTCGCGCGGTAAAATAC  
ATATACTAACCCAAGAGTCTTCGAGACTAATTAATTTGTACTTCCTATTTGTACAT  
TTGGGTTTAAAATTTGTCCACAAATAAATGTACTTCTCTCTTCTCAAAGCACTTTA  
CACTAAAAAAAATTGTTTCTCTCTCATTACACGAAATCAAACACAATAACATTTTT  
TCATGCACTTAGCTCATTGGATGTGGGAGAATTAAGAAGAGGAAAGATGTTGGT  
TGCCACAATCCCAATACATTTTCAATCTCACTTGTTAATTTTCTTGAAATTCCCAC  
GCATACACTTATTTGCGGATGGAAAGAGCATGTAGTAGTAAAAAGTCTTTAATCG  
GTCATTTTCTTTGTAGGGTGGCGTGCAACTGGAAGGGCGTGGACGTGGCCTTCAG  
GGTGGACTTGGGGTCGAACCCGTAACCTGGCGGTGCTGGTGGAGGACGAGGC  
CGGTGACGGCGACCTGTCCGCGGTGGACCTCAAACAGCCCGGCTCCGGCGGGTG  
GGCCCCGATGCAGCGCTCCTGGGGCGCCGTCTGGAAGTACAACGGCGGCCCCGCT  
GCGGGCGCCCATGTCCGTCCGCCTCACGTCCGGCTCCGGCAGGAAGCTCGTCGCC  
GCTGACGTCATCCCCGCGGCTGGCAGCCCGGCCGCACCTACCGCTCCCTCGTCA  
ACTACTGA