

## IDENTIFICATION

**Species:** *Brachypodium stacei*

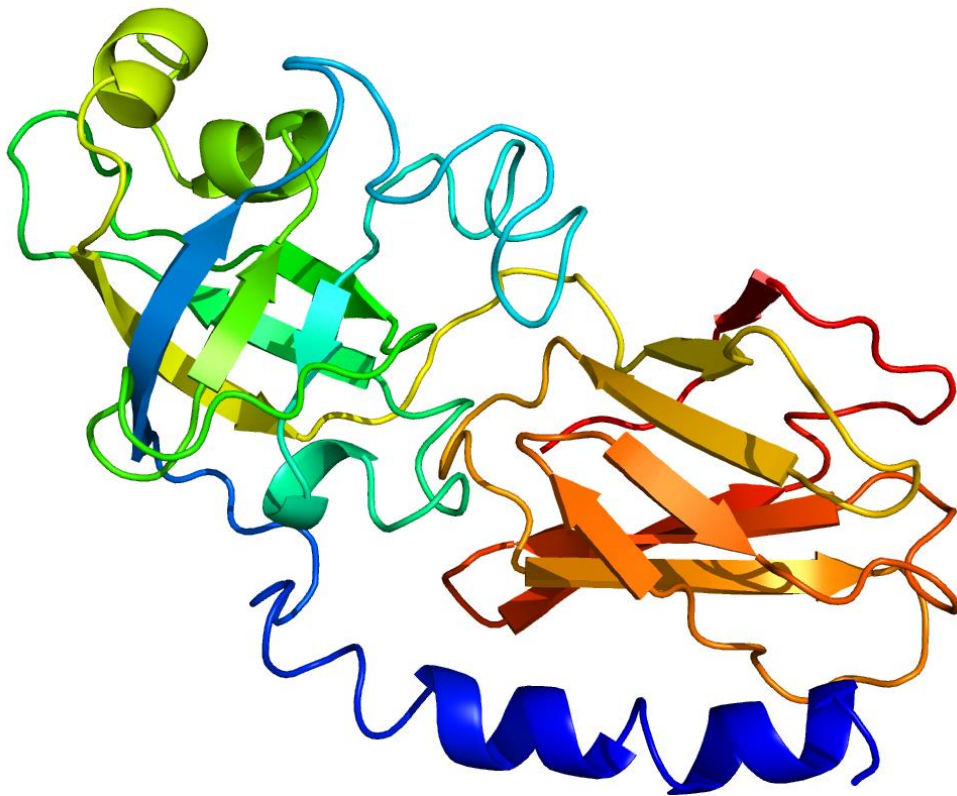
**Locus:** Brast09G165600

**Gene Model:** Brast09G165600.1.p

**Description:** BstEXPB-21

**Family:** Beta Expansin

**3D structure:**



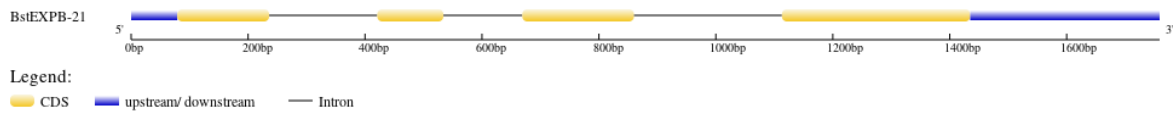
## GENOME DATABASES

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

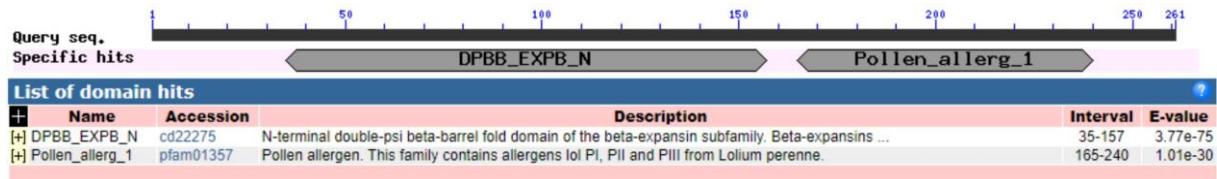
## EXTERNAL RESOURCES

<https://brachypodium.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BstEXPB-21

MVSRFQILSIAIAVLASVLCPCASSIEFHRKLSWSSAGATWYGAANGAGSDGGACG  
YKGAVYQAPFSSMIAAGGPSIYGSGMGCSCYQVKCSGNDACSGSPVTVITDECSG  
GPCLNEPHFDLSGTAFGAMAKPGQADQLRGAGVLQVQYTRVPCSWAGAQLTFVVD  
AGSNPQYFAVLVQYQNGDGDLSGVELMQGGGASWTPMQHSWGA VWKLDAGSTLQ  
APLSLRLTSSSGKKLVASNVIPVGWKAGAAAYQSAVNY\*

### CDS (coding sequence)

>BstEXPB-21

ATGGTTTCCAGGTTCCAGATCTTGTCCATTGCCATTGCGGTTCTCGCCTCGGTCCT  
CTGCCCTTGCGCGTCGTCCATCGAGTTCCACCGCAAACCTCTCCAGTTGGTCGAGC  
GCCGGCGCTACATGGTACGGCGCCGCTAATGGCGCCGGAAGTGATGGTGGTGCA  
TGTGGGTACAAGGGTGCCGTCTACCAGGCACCGTTCTCGTCCATGATCGCCGCCG  
GTGGCCCTTCAATCTACGGCTCTGGCATGGGCTGTGGCTCTTGCTACCAGGTGAA  
GTGCAGTGGCAATGACGCCTGCTCAGGCAGCCGGTGACCGTCGTGATCACGGAC  
GAGTGTTCCGGCGGCCCTTGCTTGAATGAGCCACACTTTGATCTGAGCGGGACGG  
CATTCCGGTGCCATGGCGAAGCCCGGCCAGGCCGACCAGCTCCGCGGCGCCGGCG  
TGCTCCAAGTCCAGTACACCCGCGTGCCGTGCAGCTGGGCCGGAGCGCAGCTAAC  
CTTCGTGGTGGACGCCGGCTCGAACCCGCACTTTCGCCGTGCTCGTCCAGTAC  
CAGAACGGCGACGGCGACCTCTCGGGCGTCGAGCTCATGCAGGGCGGCCGGGGCA  
TCGTGGACGCCGATGCAGCACTCGTGGGGCGCTGTCTGGAAGCTCGACGCCGGGT  
CGACACTGCAGGCGCCGCTCTCCCTCCGCTGACATCCAGCTCCGGGAAGAAGCT  
CGTCGCCAGCAACGTCATCCCCGTTGGGTGGAAGGCCGGCGCCGCATACCAGTCC  
GCGGTTAACTACTAA

### Nucleotide

>BstEXPB-21

CAGTTCTCGTCTTCTCCAAATCCTACACAACACAACCCACAATCTCCTTGCTAAGT  
AGTACTCAGATCTTGTTCAGATATGGTTTCCAGGTTCCAGATCTTGTCCATTGCC  
ATTGCGGTTCTCGCCTCGGTCCTCTGCCCTTGCGCGTCGTCCATCGAGTTCCACCG

CAAACCTCTCCAGTTGGTCGAGCGCCGGCGCTACATGGTACGGCGCCGCTAATGGC  
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TCACGGACGAGTGTTCCGGCGGCCCTTGCTTGAATGAGCCACACTTTGATCTGAG  
CGGGACGGCATTCCGGTGCCATGGCGAAGCCCGGCCAGGCCGACCAGCTCCGCGG  
CGCCGGCGTGCTCCAAGTCCAGTACACCCGGTACGCATGAATGCACGTAGCTAAG  
CTGCAGACTACCCTTGACCCGCTCGAAACGGCCAGGCTCACTACGCATCACATGC  
ACACCTCGATCATATCACGCAGCTTTGGAAACATCTAATAATAATTTGTTACTTCT  
GTCGCGCGACATAGACCATGCACAGGCCGGCACATGCTCTGTTTTCCATATACGC  
AATGAACCGTCCTTTAATTCACCTTTGTTGTTGTTTCTCCCCGCACGTGATGTCTGC  
GCGCAGCGTGCCGTGCAGCTGGGCCGGAGCGCAGCTAACCTTCGTGGTGGACGC  
CGGCTCGAACCCGCAGTACTTCGCCGTGCTCGTCCAGTACCAGAACGGCGACGGC  
GACCTCTCGGGCGTCGAGCTCATGCAGGGCGGGCGGGGCATCGTGGACGCCGATG  
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TCATCCCCGTTGGGTGGAAGGCCGGCGCCGCATACCAGTCCGCGGTTAACTACTA  
ATACATGCTAGTTTTCTCTGTAAGTGTGTTCCCGTTTATAGTACCATACGCGT  
GTTTGGCATCACTTGGCAGTGCACGGTAGGGTGTGGTTGCAGCATGCATCATGAC  
ATGGTGCAATACAGCATGCAACCAAATTCTACACTGTGTGCGTTACTTCGGTGTG  
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GATGAGGAGGAGGGCGCAGATGTATGGCTATGGTTCCAAAAATCTATAGTTCTTC  
CCTTTTGGCATGCCAATCAATGTGAACAGTATTTGCTTGGTTATTAGAT