

## IDENTIFICATION

**Species:** *Brachypodium stacei*

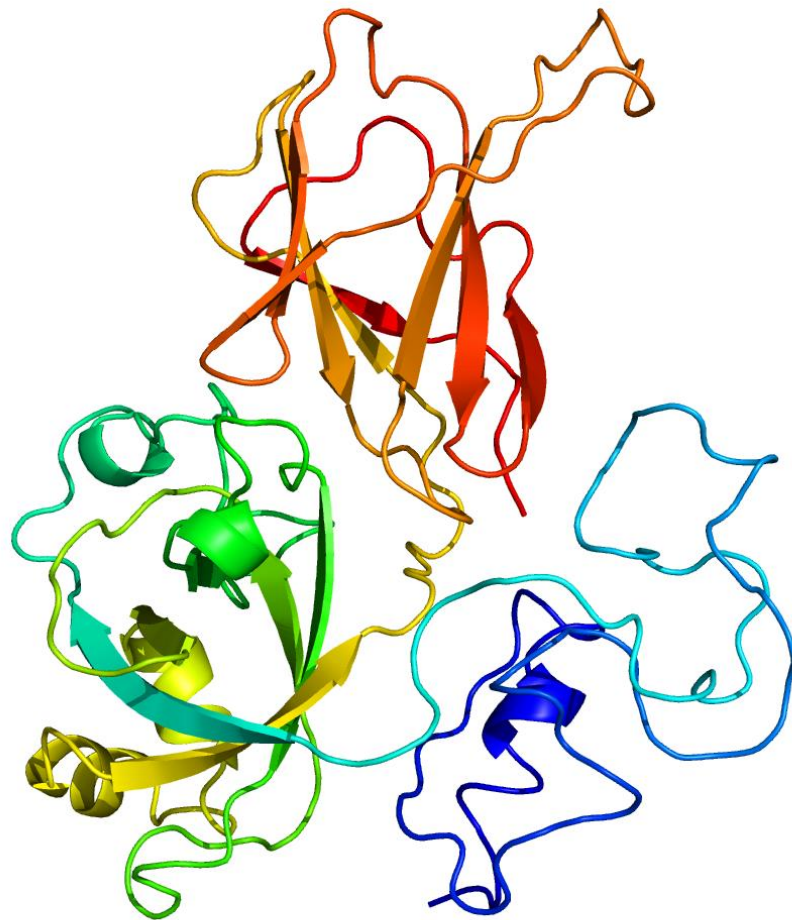
**Locus:** Brast02G003900

**Gene Model:** Brast02G003900.1.p

**Description:** BstEXPB-02

**Family:** Beta Expansin

**3D structure:**



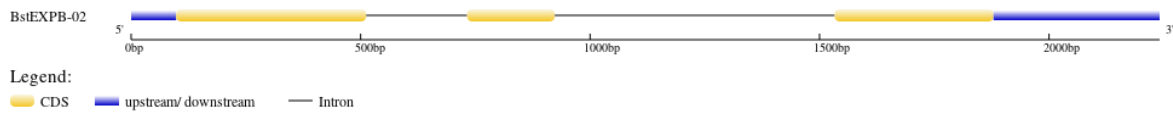
## GENOME DATABASES

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

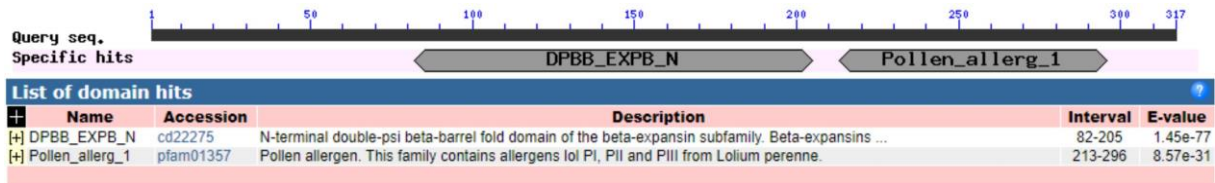
## EXTERNAL RESOURCES

<https://brachypodium.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>BstEXPB-02

MASSVSALLLCLLLAFHGVSCAAKAKHGSKSPHHAPPKAHAPSPLPPPATIIVPPPV  
AATNSSSSNSSSPGSGDNGDEGWMDARATWYGAPNGAGPDDNGGACGFKDVNLPP  
FSAMTSCGNEPLFKDGGKCGSCYQIRCLSRMHPACSGVPETVIITDMNYYPVSRFHFD  
LSGTAFGAMAKDQRNDELRHAGIIDMQFKRVPCQYPGLTVTFHVEHGSNPYYMAIL  
VEYENGDDVDQVDIMEATSDGSGEPTGQWVPMKESWGSIWMDTRRPMRGPFSL  
RITNESGQTLVADQVIPADWEPNAIYSSIIQFD\*

### CDS (coding sequence)

>BstEXPB-02

ATGGCGTCCTCCTCTGTCTCTGCGCTGCTGCTCTGCCTGCTCCTGGCGTTCCATGG  
CGTCTCCTGCGCGGCCAAGGCCAAGCACGGCAGCAAGAAGAGCCCACACCACGC  
GCCTCCCAAAGCCCACGCGCCATCTCCTCTGCCTCCTCCGGCTACAATCATCGTCC  
CTCCCCCTGTTGCCGCGACGAACCTCGTCGTCTCCTCCAATTCTAGCTCGCCCGGCAGC  
GGCGACAATGGCGACGAGGGGTGGATGGACGCGAGGGGCGACGTGGTACGGCGC  
GCCTAATGGTGCTGGCCCCGACGACAACGGCGGGCGCCTGCGGGTTCAAGGACGT  
GAACCTGCCGCCGTTCTCCGCCATGACCTCCTGCGGCAACGAGCCGCTGTTCAAG  
GACGGCAAAGGCTGCGGCTCATGCTACCAGATAAGGTGCCTGTCGCGTATGCACC  
CGGCGTGCTCGGGGGTGCCGGAGACGGTGATCATCACGGACATGA ACTACTACC  
CGGTCTCCCGCTTCCACTTCGACCTCAGCGGCACGGCATTCCGGCGCCATGGCAA  
AGACCAGCGCAACGACGAGCTCCGACATGCCGGCATCATCGACATGCAGTTCAA  
GAGGGTGCCGTGCCAGTACCCTGGTCTGACGGTGACGTTCCACGTGGAGCACGGT  
TCGAACCCGTA CTACATGGCGATCCTGGTGGAGTACGAGAACGGGGACGGCGAC  
GTGGACCAGGTGGACATCATGGAGGCCACGTTCGGACGGCAGCGGGGAGCCCACG  
GGCAGTGGGTGCCATGAAGGAGTCCTGGGGTCCATCTGGCGGATGGACACG  
CGGCGGCCCATGCGCGGGCCCTTCTCGCTGCGCATCACCAACGAGTCCGGCCAGA  
CGCTCGTCGCCGACCAGGTCATCCCCGCGGACTGGGAGCCCAACGCCATCTACAG  
CTCCATCATCCAGTTCGACTGA

## Nucleotide

>BstEXPB-02

ATACATGCGTCACGAGCCGACCGATGCCCGTTCCCAGCGCGCGAGGGGGCCTATA  
AATACCAGTCTCCCGCCGGCATCTCCATCAGTGAAATTCAGCCATGGCGTCCTCC  
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GGCCAAGGCCAAGCACGGCAGCAAGAAGAGCCCACACCACGCGCCTCCCAAAGC  
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GTTCTCCGCCATGACCTCCTGCGGCAACGAGCCGCTGTTCAAGGACGGCAAAGGC  
TGCGGCTCATGCTACCAGGTTCTCCATCCAATCCTTCGATTGTTATTTGTTTGT  
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TCTACGTATGTACGTAAATTTCAATTCTGCGTCTTCGTCCTACGTACGGCTAGAGA  
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GAATGGTGTATGCAGATAAGGTGCCTGTGCGTATGCACCCGGCGTGTCTCGGGGGT  
GCCGGAGACGGTGATCATCACGGACATGAACTACTACCCGGTCTCCCGCTTCCAC  
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GAGCTCCGACATGCCGGCATCATCGACATGCAGTTCAAGAGGTACCTACCTATCA  
TCCATGCACCAACCAACTTACTAATTACCTGTCCATGACTGTTTTGTTTCTCCAC  
CGTTGGTTCAATTCCTCCATCAATCAATCACCTCGAGATACTCTGCATGCAACGGC  
CGGGTATAGCTAGCTACCTGGCTTCTCCACCGTTCGTCCAACCTCCTTAAATCA  
CCTCGACCGACTCTGCAACGGCCGGTATTAGCTAGCTAGCTCCTGAACGAAAACA  
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ATGGTGGATACATATATAGCCGGTTGCCACACACAAGAGATTGGAGCAAGATAA  
TGCACGAGTGACACCCTCATATATGTATATGATAAATAATGCAGGGTGCCGTGCC  
AGTACCCTGGTCTGACGGTGACGTTCCACGTGGAGCACGGTTCGAACCCGTA  
CATGGCGATCCTGGTGGAGTACGAGAACGGGGACGGCGACGTGGACCAGGTGGA  
CATCATGGAGGCCACGTCGGACGGCAGCGGGGAGCCACGGGGCAGTGGGTGCC  
CATGAAGGAGTCCTGGGGCTCCATCTGGCGGATGGACACGCGGCGGCCATGCG  
CGGGCCCTTCTCGCTGCGCATACCAACGAGTCCGGCCAGACGCTCGTCGCCGAC  
CAGGTCATCCCCGCCGACTGGGAGCCCAACGCCATCTACAGCTCCATCATCCAGT  
TCGACTGATCAATTCATTAATCAATTGGTCATTCATTTTCGTCATTGAAATTGAATC  
ACGCTGATCGATTAATGTGATTGGATCGTACGTACGTATATGAGACGTCGCCTGT  
GACGTCCGGCCGGTGCCTGTCGTATTCGTACGCGCGTACGTGCTATATATGTGTG  
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CTAGTTGGTATACGTAATTACGTATACCAAAGTGTCCCATCGATCTACGTGGCTA  
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TATAATACAGAGTACATATATAAACTTTGGATTATTCC