IDENTIFICATION

Species: *Brachypodium stacei*

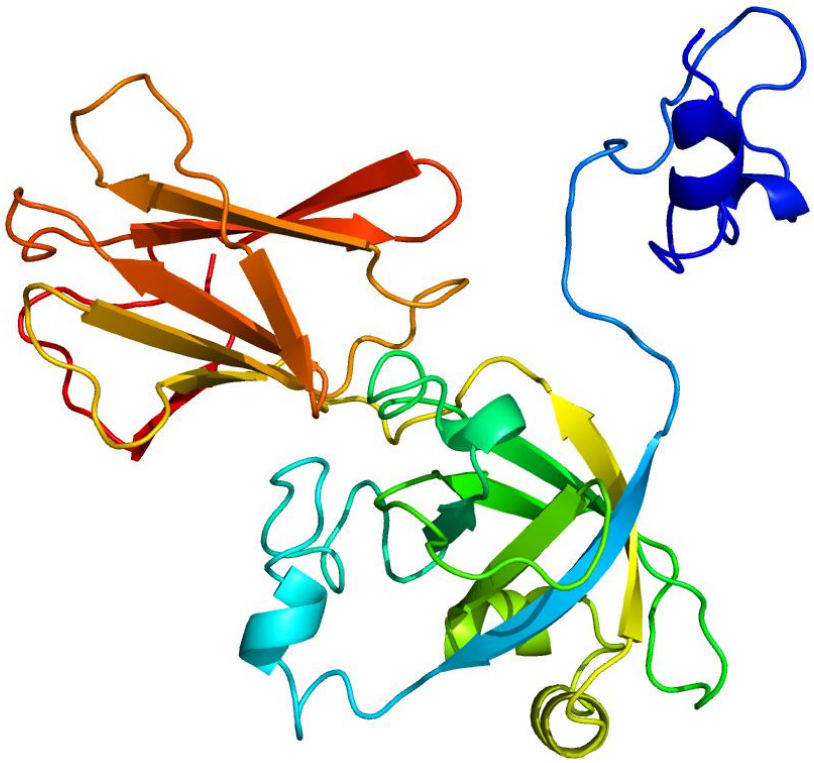
Locus: Brast10G002100

Gene Model: Brast10G002100.1.p

Description: BstEXPB-24

Family: Beta Expansin

3D structure:



GENOME DATABASES

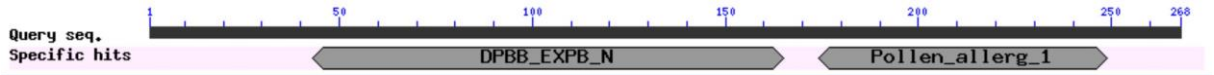
Phytozome: https://phytozome-next.jgi.doe.gov/info/Bstacei_v1_1

EXTERNAL RESOURCES

https://brachypodium.org/

GENE STRUCTURE

DOMAIN ARCHITECTURE



List of domain hits

Name	Accession	Description	Interval	E-value
[+] DPBB_EXPB_N	cd22275	N-terminal double-psi beta-barrel fold domain of the beta-expansin subfamily. Beta-expansins ...	43-165	1.37e-69
[+] Pollen_allerg_1	pfam01357	Pollen allergen. This family contains allergens lol PI, PII and PIII from Lolium perenne.	174-249	5.19e-31

SEQUENCES

Peptide

>BstEXPB-24

MASSSSQVMMLAMAVLAALLSCAHGIPKVPPGPNITASYNGQWLDAKSTWYGRPEG
AGPKDNGGACGYKDVDKPPFNGMTSCGNTPIFRDGRGCGSCFEIKCAKPAEFCSGQP
VLVHITDDNEEPIAAYHFDLSGKAFGAMAKKGQEQKLRGCGEVEIQFRRVKCYYPM
GTKVTFHVEKGSSPNYLALLVKFVGGDGDVVAVDIQEKGKSEWIPLKESWGAVWRI
DTPKPLKGPFSVRYTTDGGTKAVSSNVIPEGWKPDTMYVAKY*

CDS (coding sequence)

>BstEXPB-24

ATGGCCTCCTCCTCCTCTCAGGTGATGATGCTGGCCATGGCGGTCCTGGCAGCTCT
CCTGAGCTGCGCCCACGGCATCCCCAAGGTGCCCCCAGGCCCCAACATCACGGCC
AGCTACAACGGCCAATGGCTGGACGCCAAGAGCACGTGGTACGGCAGGCCCGAA
GGCGCCGGCCCCAAGGACAACGGCGGCGCCTGCGGCTACAAGGACGTCGACAAG
CCGCCCTTCAACGGCATGACGTCCTGCGGCAACACCCCCATCTTCCGCGACGGGC
GCGGCTGCGGCTCCTGCTTCGAGATCAAGTGCGCCAAGCCCGCCGAGTTCTGCTC
CGGGCAGCCCGTGCTCGTCCACATCACCGACGACAACGAGGAGCCCATCGCCGC
CTACCACTTCGACCTCTCCGGCAAGGCCTTCGGCGCCATGGCCAAGAAGGGGCAG
GAGCAGAAGCTGCGTGGCTGCGGCGAGGTGGAGATCCAGTTCAGGAGGGTCAAA
TGCTACTACCCTATGGGCACCAAGGTGACCTTCCATGTCGAGAAGGGCTCCAGCC
CGAACTACCTGGCTTTGCTCGTCAAGTTCGTGGGTGGAGATGGGGACGTTGTGGC
TGTTGACATCCAGGAGAAGGGCAAGTCTGAGTGGATCCCGCTCAAGGAGTCCTG
GGGCGCCGTGTGGAGGATCGACACCCCGAAGCCGCTCAAGGGGCCCTTTAGCGT
CAGGTACACTACTGATGGCGGCACCAAGGCCGTCTCCTCAAATGTCATCCCTGAG
GGTTGGAAGCCAGACACCATGTATGTCGCCAAGTACTGA

Nucleotide

>BstEXPB-24

AAAGATGGCCTCCTCCTCCTCTCAGGTGATGATGCTGGCCATGGCGGTCCTGGCA
GCTCTCCTGAGCTGCGCCCACGGCATCCCCAAGGTGCCCCCAGGCCCCAACATCA
CGGCCAGCTACAACGGCCAATGGCTGGACGCCAAGAGCACGTGGTACGGCAGGC

CCGAAGGCGCCGGCCCCAAGGACAACGGCGGCGCCTGCGGCTACAAGGACGTCG
ACAAGCCGCCCTTCAACGGCATGACGTCCTGCGGCAACACCCCCATCTTCCGCGA
CGGGCGCGGCTGCGGCTCCTGCTTCGAGATCAAGTGCGCCAAGCCCGCCGAGTTC
TGCTCCGGGCAGCCCGTGCTCGTCCACATCACCGACGACAACGAGGAGCCCATCG
CCGCCTACCACTTCGACCTCTCCGGCAAGGCCTTCGGCGCCATGGCCAAGAAGGG
GCAGGAGCAGAAGCTGCGTGGCTGCGGCGAGGTGGAGATCCAGTTCAGGAGGGT
CAAATGCTACTACCCTATGGGCACCAAGGTGACCTTCCATGTCGAGAAGGGCTCC
AGCCCGAACTACCTGGCTTTGCTCGTCAAGTTCGTGGGTGGAGATGGGGACGTTG
TGGCTGTTGACATCCAGGAGAAGGGCAAGTCTGAGTGGATCCCGCTCAAGGAGT
CCTGGGGCGCCGTGTGGAGGATCGACACCCCGAAGCCGCTCAAGGGGCCCTTTA
GCGTCAGGTACACTACTGATGGCGGCACCAAGGCCGTCTCCTCAAATGTCATCCC
TGAGGGTTGGAAGCCAGACACCATGTATGTCGCCAAGTACTGATTTTCCATGCAT
TGGCTGGCTCACTGCCGGCCGGCCGCCCAATTAAGGAAGCTTTCTGCCTGCTCTG
ATGGTGAGAATAATCTGTCGAGAAGCATATATATATATATATCTGTGAGGTGTAT
GCATAAGAGCTTTAATTTGCTTATATATAGGAGGCAAACCGGCGTGTGGTTTGCT
CTCCCCCACCCCCACTCTCTCCACCGCCTTGTTTATATATGTATCCAAATTGAATT
TATTATTTTTTTC