IDENTIFICATION

Species: *Brachypodium stacei*

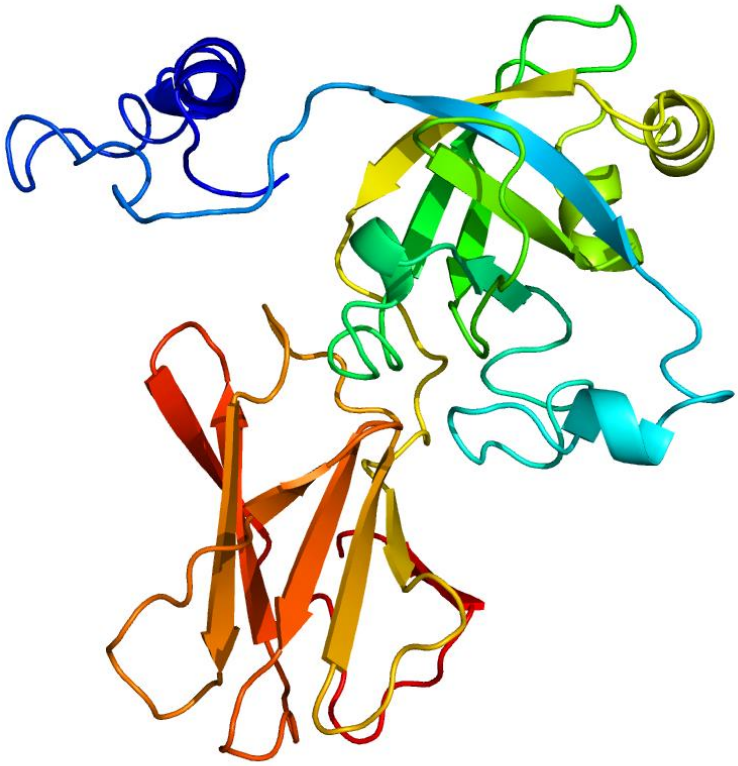
Locus: Brast02G006900

Gene Model: Brast02G006900.1.p

Description: BstEXPB-03

Family: Beta Expansin

3D structure:



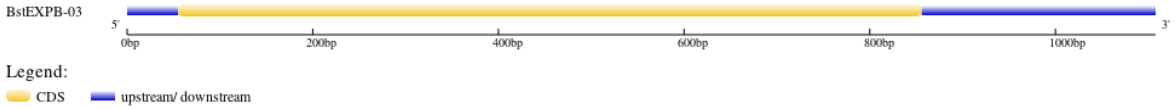
GENOME DATABASES

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

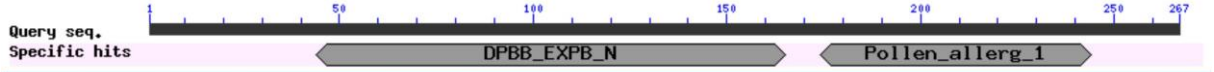
EXTERNAL RESOURCES

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 ...	44-165	9.81e-74
[+] Pollen_allerg_1	pfam01357	Pollen allergen. This family contains allergens lol PI, PII and PIII from Lolium perenne.	174-244	7.13e-29

SEQUENCES

Peptide

>BstEXPB-03

MASSSSTTTLLLAAAILATLAISAHGIPKVPPGPNITATYGDKWLDAKSTWYGKPTGA
GPKDNGGACGYKDVDKPPFNGMTSCGNTPIFRDGRGCGSCFEIKCTKPDACSGEPVL
VHITDDNEEPIAAYHFDLSGHAFGSMAKKGKEQDLRSAGEVEIQFRRVKCKYPDGTK
VTFHVEKGSSPNYLAILVKYVGGDGDVVSVDVKEKGKDEWVPLKESWGAVWRLDT
AKPLKGPLTIRYETDGGIKAEAEDVLPEDWKPDTMYEAK*

CDS (coding sequence)

>BstEXPB-03

ATGGCTTCTTCTTCCTCGACGACGACGCTGCTCCTGGCAGCGGCGATCCTGGCGA
CCCTGGCGATCTCGGCCCACGGCATCCCAAAGGTGCCCCCAGGCCCCAACATCAC
GGCCACCTACGGCGACAAGTGGCTGGACGCCAAGAGCACCTGGTACGGCAAGCC
CACAGGCGCCGGCCCCAAGGACAACGGCGGCGCCTGCGGCTACAAGGACGTCGA
CAAGCCGCCCTTCAACGGCATGACGTCCTGCGGCAACACGCCCATCTTCCGCGAC
GGGCGCGGCTGCGGCTCCTGCTTCGAGATCAAGTGCACAAAGCCCGACGCCTGCT
CCGGGGAGCCCGTCCTCGTCCACATCACCGACGACAACGAGGAGCCCATCGCCG
CCTACCACTTCGACCTCTCCGGCCACGCCTTCGGCTCCATGGCCAAGAAGGGCAA
GGAGCAGGACCTCCGCAGCGCCGGGGAAGTGGAGATCCAGTTCAGAAGGGTCAA
GTGCAAGTACCCTGACGGCACCAAGGTGACATTCCATGTCGAGAAGGGGTCTAG
CCCCAATTACTTGGCCATTCTCGTCAAGTATGTGGGTGGCGATGGGGATGTGGTG
TCCGTTGATGTCAAGGAGAAGGGCAAGGATGAGTGGGTACCGCTCAAGGAGTCG
TGGGGAGCTGTGTGGAGGCTTGATACCGCCAAGCCGCTCAAGGGCCCGCTTACTA
TTAGGTACGAGACTGACGGTGGCATCAAGGCTGAGGCTGAAGATGTCCTCCCTGA
AGACTGGAAGCCTGACACCATGTATGAGGCCAAGTGA

Nucleotide

>BstEXPB-03

CGTTAATTCAGCAACAAAGACAGAGAAAGCAACTCAAACGACGAGCGTCCAAGA
TATGGCTTCTTCTTCCTCGACGACGACGCTGCTCCTGGCAGCGGCGATCCTGGCG
ACCCTGGCGATCTCGGCCCACGGCATCCCAAAGGTGCCCCCAGGCCCCAACATCA

CGGCCACCTACGGCGACAAGTGGCTGGACGCCAAGAGCACCTGGTACGGCAAGC
CCACAGGCGCCGGCCCCAAGGACAACGGCGGCGCCTGCGGCTACAAGGACGTCG
ACAAGCCGCCCTTCAACGGCATGACGTCCTGCGGCAACACGCCCATCTTCCGCGA
CGGGGCGCGGCTGCGGCTCCTGCTTCGAGATCAAGTGCACAAAGCCCGACGCCTGC
TCCGGGGAGCCCGTCCTCGTCCACATCACCGACGACAACGAGGAGCCCATCGCCG
CCTACCACTTCGACCTCTCCGGCCACGCCTTCGGCTCCATGGCCAAGAAGGGCAA
GGAGCAGGACCTCCGCAGCGCCGGGGAAGTGGAGATCCAGTTCAGAAGGGTCAA
GTGCAAGTACCCTGACGGCACCAAGGTGACATTCCATGTCGAGAAGGGGTCTAG
CCCCAATTACTTGGCCATTCTCGTCAAGTATGTGGGTGGCGATGGGGATGTGGTG
TCCGTTGATGTCAAGGAGAAGGGCAAGGATGAGTGGGTACCGCTCAAGGAGTCG
TGGGGAGCTGTGTGGAGGCTTGATACCGCCAAGCCGCTCAAGGGCCCGCTTACTA
TTAGGTACGAGACTGACGGTGGCATCAAGGCTGAGGCTGAAGATGTCCTCCCTGA
AGACTGGAAGCCTGACACCATGTATGAGGCCAAGTGATCATATGTTCTTCGTCAC
CTTCAGACCTATGCAGGCTACCATGCATGCTTCTACTCCTGCCATGGCCTGCAACG
GGGCCGAGAATAATTGTCGAGATCTGCAGTGAGGCCAATTCTGCATAAGTTTATA
GTATATATGCCGGAGGCAGGCAACCAAGGAGTTGTTTGTACTTGGTTTGCTCTCC
GGCCAGATCACTCTCGGTCTCGACAGCCTTGTTTATTTGTTACTCAAGCTTGTCCA
TGAGATTATCAA