

IDENTIFICATION

Species: *Brachypodium stacei*

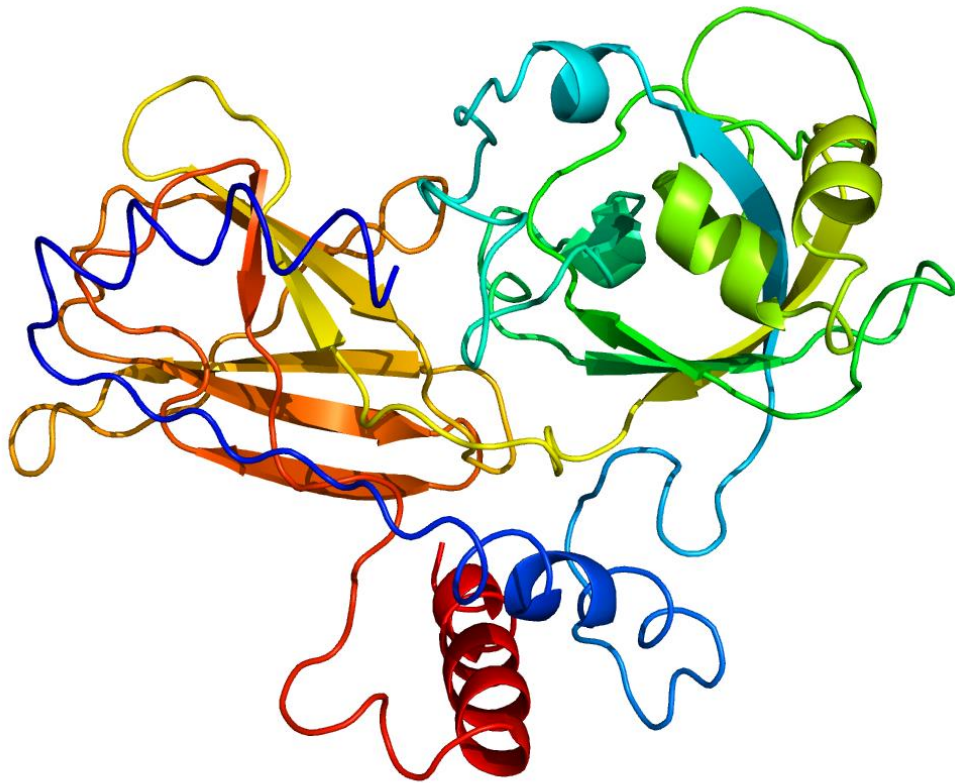
Locus: Brast02G245000

Gene Model: Brast02G245000.1.p

Description: BstEXPB-04

Family: Beta Expansin

3D structure:



GENOME DATABASES

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

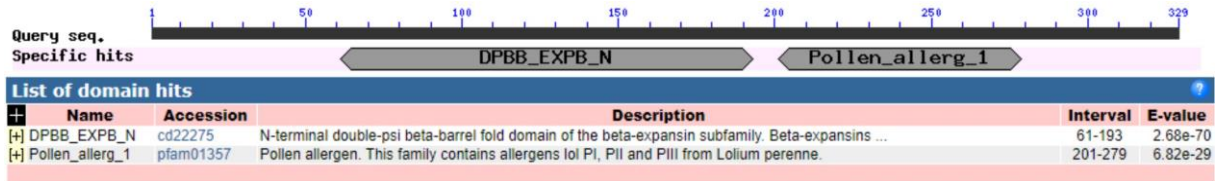
EXTERNAL RESOURCES

<https://brachypodium.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BstEXPB-04

MHCPFITSLVRQNFHRMYTSNRVLCVASKLQLLSFIVITVAVSSLFHPCASVEFQHEL
SWSGGIATWYGDANGAGSEGGACGYQYAVDQPPFSSMIAAGSPFIYDSGDGCGSCY
RVMCGGNEACSGIPVTVVITDQGPGGPCLSELVDGQCQNEAAHFDMSGTAFGAMAK
PGQADQLRGAGLLQIQYTRVQCDWTGVGLTFKVDTGSNPNYLAVLVEYEDSDSDLA
AVDLMPSSTGATSAWIPMQQSWGAVWKLNSGSALQGPFSIRLTFRSGKMLVAGNAI
PAGWNPGIAYQPGGI AVRNGHRASSGCRDYVLYHYLLLFVILLQL*

CDS (coding sequence)

>BstEXPB-04

ATGCACTGTCCATTACATCCCTAGTTAGACAAAATTTTCATCGAATGTACAC
ATCCAATAGAGTGCTGTGTGGCTTCCAAGCTTCAGCTCTTGTCCTTCATTGTCA
TTACAGTTGCTGTCAGTTCGCTCTTTCACCCTTGTGCATCCGTTGAGTTCAGCAT
GAGCTCTCCAGCTGGTCCGGTGGC ATCGCTACGTGGTACGGTGACGCTAATGGTG
CTGGAAGTGAAGGTGGTGCATGTGGATAACAGTATGCTGTTGACCAGCCGCCATT
CTCATCCATGATTGCCGCTGGCAGCCCTTTCATATATGATTCTGGCGATGGCTGTG
GGTCGTGCTACCGGGTTATGTGTGGTGGCAATGAAGCTTGCTCTGGTATTCCAGT
GACTGTCGTCATCACGGACCAGGGCCCTGGTGGGCCATGCCTGAGCGAGCTAGTG
GACGGCCAGTGCCAGAATGAGGCAGCCCATTTTGACATGAGTGGAAACGGCATT
GGTGCCATGGCGAAGCCTGGCCAGGCTGACCAACTCCGCGGAGCTGGCCTCCTGC
AAATCCAATATAACCGTGTGCAGTGTGACTGGACTGGAGTAGGCTTGACCTTCAA
AGTGGACACCGGCTCAAACCCAAACTACCTCGCTGTGCTCGTCGAGTATGAGGAC
AGTGACAGTGACCTTGCGGCTGTCGATCTCATGCCGAGCAGCACTGGGGCGACAT
CAGCGTGGATCCCAATGCAGCAGTCCTGGGGAGCGGTGTGGAAACTCAACTCCG
GCTCCGCCCTCCAGGGGCCGTTCTCCATACGCCTGACGTTCAAGTCTGGCAAGAT
GCTCGTTGCCGGCAATGCCATACCTGCCGGGTGGAACCCTGGCATTGCGTACCAA
CCAGGCGGCATTGCAGTGAGGAATGGTACCAGGGCGAGCAGTGGCTGTCCGGGAC
TATGTGCTGTACCACTATCTACTGTTGTTTGTGATATTACTTCAGCTGTGA

Nucleotide

>BstEXPB-04

ATATTTCTATTCAATGATATTTGGTTATATTTATGATTTTGATCACATTAGTCACAT
AGTATTAATAAAGTAATTTGTGGTCAAAGTTTGGTCGACCGAAATCTATACCTT
CTATTGTTGAACGAAGCGAGTACAAATTTGGCTCGAGCGTCTTCTCTCGAGCTAG
CTGAAAGTGAGGAGAAGTGTTTGTCTCAAGCAGAACCTCAGAATCTCTAGTAAAG
GCACCCAAAAGTCGCTGTAAACCCCGCGTTCTCTCCAAAACGTTTTCCCTCTCTAG
ACAACCGACGAAGCAAGAGGGCAAGCCCCAACGGCGAACAGCGACCGACGGCG
CGCGGTGGTAGACAGCGGCAGGCGGGCGCACGGGTCGACGCCGCAGGTAAGTTCC
CTCTCCCGCCTGCTCTTCTCCAGCCCCCTCGCGCCATTCTCCATCTACCACTACCAC
GCCGCCAATCCGCCCCCCACCTCCCGCGTCCCCCTCCGTCTCCAGTGCGGGCGGTTCA
CGCCGAGCTCGACCAGCTCCCGAGGCATGCTCGCCGTTGGCCCCCTTCCCCTTCCA
AATCCCATGGAGCAGAGCCCCTAGCCCCATCCTCACCTCCTCCGCATCCCTTCTT
TCTCCGATGCGGCTCGAGCTGGACAAAGCTCCACCTGCACGCTGCACCCCATGGC
GTGCTCCCCGTGCCCCCTTCCCCTTCCAAACCTCATTGAGCAGAAGCCCTATGGAA
TGAGCACAAAACCCTAGATTTCTTACAAGTTCTTTCATCCATCAATTTTATTTCTT
GTCTCTTTTCTTTTACACAGAGTATTTGAAGCATTGGACTGATTGATGTATGGCT
GACGCCTGCCTCCAAACTTGATGTATGGTTGCGGCTATGTACGGTTCATCTTGTGA
ACATTCTTGCTGCTATGTATAGTTGCGGTTATCAGGTTATGCATGGTTCATGTTGT
GAACATTTTGTGTGAGCTGATGAACAATGCTATCTATTGTTGTTGTGATGATTTTT
TTTTACTTTGATTAGTCTTGTGAGAAATGCTGCTGCTGATATTTTGCACATTTTCTA
GACTTTTATATAATATCGAGTCTGTTAAGAACATTTTAAACAAAATTTTATTTACAG
CTAACAAACCATCCGATCCAATCACTGAGATTCGTGCAAGATTCATACAACTATAA
ATGATGAAAAATCTTAATTGGATGGCTATGATCGTTGACTGAGAAATAAAAATAT
ATGCACTGATAAATTCATTTTCATGCATGTCTGGACTGTACAATATTCAAAACCTAGA
AAAATTACAATTCATGTCATAGGTACATCCAGACAGGAATTGAAATTGGAAGTGC
CTTTTCTCTTTGATTTCAACTTTTTTCCATGTATTCCCAGGCAAAGGAGAACCCAT
GCACTGTCCATTCATTACATCCCTAGTTAGACAAAATTTTCATCGAATGTACACAT
CCAATAGGTAACATGCACTTCTTCTTTATGCTTGTCTTCTATCTCTCCTTGCAAGC
ATACACTATCTTTGACCTTACCAGCCAAAGCTAATTTTCAGAGTGCTGTGTGTGGC
TTCCAAGCTTCAGCTCTTGTCTTCAATTGTCATTACAGTTGCTGTCAGTTCGCTCTT
TCACCCTTGTGCATCCGTTGAGTTCAGCATGAGCTCTCCAGCTGGTCCGGTGGCA
TCGCTACGTGGTACGGTGACGCTAATGGTGCTGGAAGTGAAGGTAATAGATATCC
GAGAGATGCTAGCTCTGCCCAAACCTGGCGCCTGACTGTCTGGTGTAGTAAATTA
TTTCTGATGTATGCATGCCTCAACTATATGTGCTGTAGGTGGTGCATGTGGATACC
AGTATGCTGTTGACCAGCCGCCATTCTCATCCATGATTGCCGCTGGCAGCCCTTTC
ATATATGATTCTGGCGATGGCTGTGGGTCGTGCTACCGGGTGCCTGCAGCTCTAT
GCAGCTGAGGCCATGAGCATGATTGCAACTGTCTGTCATTTGACATTTGGAAATC
TTGATTTGTCAGGTTATGTGTGGTGGCAATGAAGCTTGCTCTGGTATTCCAGTGAC
TGTCGTCATCACGGACCAGGGCCCTGGTGGGCCATGCCTGAGCGAGCTAGTGGAC
GGCCAGTGCCAGAATGAGGCAGCCATTTTACATGAGTGAACGGCATTGTTGGTG
CCATGGCGAAGCCTGGCCAGGCTGACCAACTCCGCGGAGCTGGCCTCCTGCAAAT
CCAATATAACCCGGTAATGCATCGATGAACATAGATCGTAGTTACTTTACAGGCCT
CTTGCAACAGATATATTGTTTCCATTAATCTGTTGTGTTAGCAATTTATCGTACCA
GTGTGCAGTGTGACTGGACTGGAGTAGGCTTGACCTTCAAAGTGGACACCGGCTC
AAACCCAAAACCTACCTCGCTGTGCTCGTGCAGTATGAGGACAGTGACAGTGACCTT

GCGGCTGTCGATCTCATGCCGAGCAGCACTGGGGCGACATCAGCGTGGATCCCAA
TGCAGCAGTCCTGGGGAGCGGTGTGGAAACTCAACTCCGGCTCCGCCCTCCAGGG
GCCGTTCTCCATACGCCTGACGTTCAAGTCTGGCAAGATGCTCGTTGCCGGCAAT
GCCATACCTGCCGGGTGGAACCCTGGCATTGCGTACCAACCAGGCGGCATTGCAG
TGAGGAATGGTCACCGGGCGAGCAGTGGCTGTCGGGACTATGTGCTGTACCACTA
TCTACTGTTGTTTGTGATATTACTTCAGCTGTGATGTGATCTGGTCTGGTAGTTCT
ATGTGTCATTTGTCTACGATTAACAGAGTGGATGGATGTATTAGCGGTGTTCCCTCT
TGTAGCTTTGAGGATGGATTACCCCTTCATGTGATTTCTTTGAGCAGCATGCAACT
ATTCTGACATCTTGCTAGTGCAGTTTTGTTTGGACAATCTCAGTGTAAGTGGTTGA
TTAAACTGACTGGGTAGGTGAAGCG