

IDENTIFICATION

Species: *Brachypodium stacei*

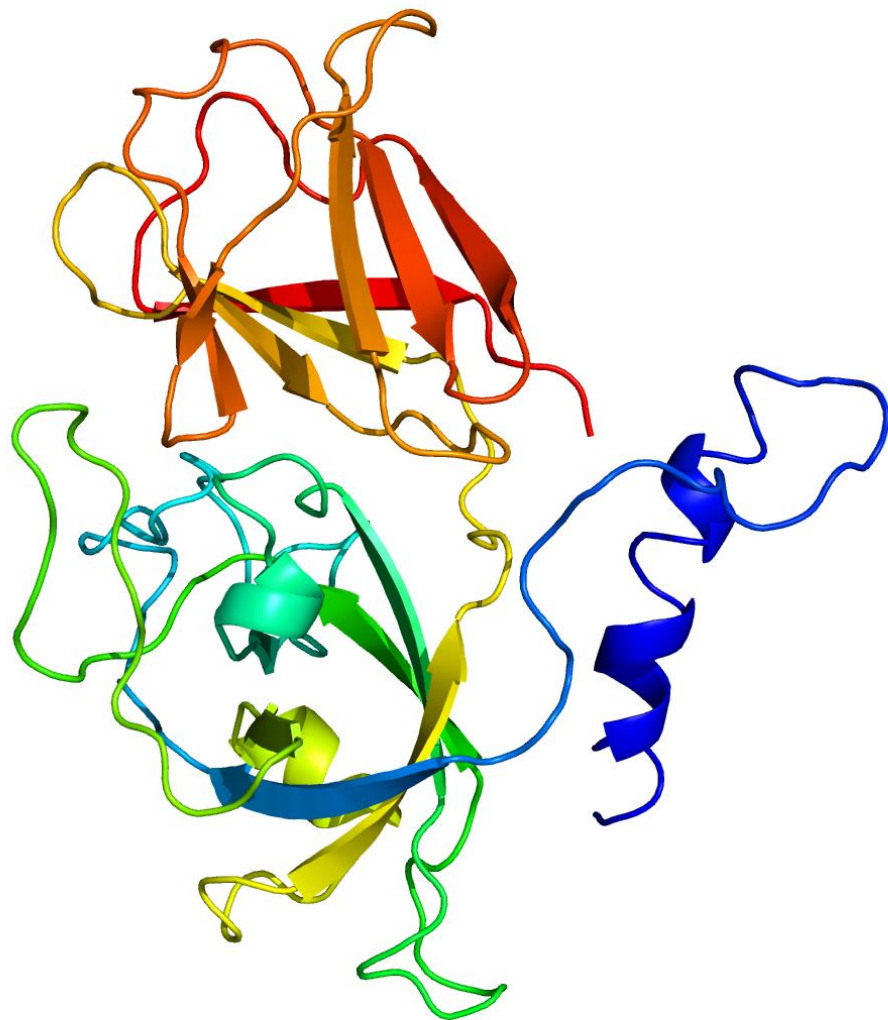
Locus: Brast07G171000

Gene Model: Brast07G171000.1.p

Description: BstEXPA-26

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

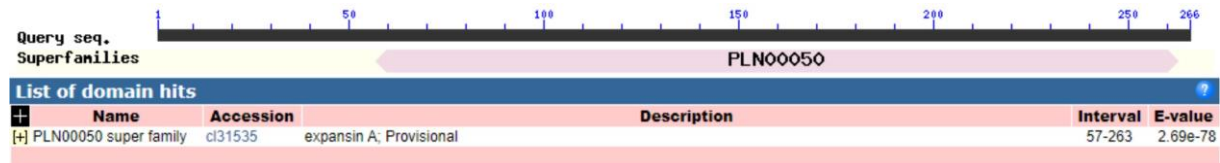
EXTERNAL RESOURCES

<https://brachypodium.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>BstEXPA-26

MMGSLPLLFFFLLLLLLISEVRFSGSVRLGNGGYEEWRLGTATYIKESQGHPLNDGGG
ACGYGDLDFIRYGRYTTGLSSALFGRGSACGACYELRCVNNILWCLRGSPTVVVTTAT
DFCAPNFGLPDDDFGGWCNFPREHLEMTEAAFLRVAKAKADIVQVQFRRVSCDRAGG
MRFTITGGASFLQVLITNVAADGEVIALKVKGSRTGWIPMGRNWGQNWQCNDLQR
QPLSFEVTGKKGRFTFTMYNVAPSDWMFAQTFFEGKQLVE*

CDS (coding sequence)

>BstEXPA-26

ATGATGGGCTCTCTGCCCTGCTCTTCTTCTTCTTGCTCCTGCTGCTGCTGATTTCT
GAGGTCAGGTTCAAGCGGCAGCGTAAGGCTGGGCAATGGCGGCTACGAGGAGTGG
AGGCTGGGCACTGCGACCTACATCAAGGAGTCCCAGGGGCACCCGCTCAATGAT
GGTGGTGGCGCCTGCGGATATGGGGACCTGGACATATTCAGATACGGTAGGTAC
ACGACTGGCCTGAGCAGCGCACTGTTTGGGCGTGGCAGCGCCTGCGGCGCTTGCT
ACGAGCTCCGGTGCCTGAACAACATCCTCTGGTGCCTGCGGGGCAGCCCGACGGT
CGTCGTGACGGCAACCGACTTCTGTGCCCAAACCTTCGGCCTCCCTGACGACTTC
GGTGGTTGGTGCAACTTTCCAGGGAACATCTAGAGATGACCGAGGCTGCCTTCC
TCCGTGTTGCCAAGGCCAAGGCTGACATTGTCCAAGTGCAGTTCCGAAGGGTGAG
CTGCGACAGAGCGGGTGGCATGCGGTTACGATCACCGGCGGCGCCAGCTTCCTC
CAGGTCCTCATCACCAACGTGGCGGCTGACGGCGAGGTCATCGCCTTAAAAGTGA
AAGGGTCAAGGACTGGGTGGATACCAATGGGGAGGAACTGGGGGCAGAACTGGC
AGTGCAACGCCGATCTCCAGCGCCAGCCGCTGTCATTCGAGGTCACCGGAAAGA
AGGGGAGGACCTTCACGATGTACAACGTGGCGCCTTCAGATTGGATGTTTCGCGCA
AACATTCGAAGGCAAGCAGCTCGTTGAATAG

Nucleotide

>BstEXPA-26

CAAAGCAGGCTCGCGTTCTACTCCCGCTGTCCTCAACTTTGACTCCCTCGCCACC
CCAGTCCAAGCCAAAGGCAGACCAACAAAGAACTGCTGCCCATTCAGGAGCCC
AAGAACTCGCTTGCCAAGAAGCAACTACTCAAGCCCCATCCCCCTCCTCCCC

AAGTCCTCTGCAACCGCAAGCACTCAAACACTCCATCCAAGAGATTGCACTGGCC
AGTGACTGAATCAGGTGAACAGTGATCACCTGGTACAGAGCAACATGATGGGCT
CTCTGCCCCTGCTCTTCTTCTTCTTGCTCCTGCTGCTGCTGATTTCTGAGGTCAGGT
TCAGCGGCAGCGTAAGGCTGGGCAATGGCGGCTACGAGGAGTGGAGGCTGGGCA
CTGCGACCTACATCAAGGAGTCCCAGGGGCACCCGCTCAATGATGGTATGCGGCT
ATGTGATCTTATTAAGTTATTTTTCTTGTTAATCGTCGCATCAAGAACTTCGGAA
CGTCCGGTCTTTCTCCCTGTTTTGTCCCCTTCCCCCTTTTTCTGCATTTCTCTGG
AGATGGTGAATGTTGTTTGCAAAGATGAATGGGCGAGTAGATGGTGCTGTATTTG
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CAGATTCGCTGTTGAAACTTCTTCCCTTTCACTTTACTTAGATGGATTTTGACTCTTG
GGACTGAACATTCCTTGTATATTCTGCAGTAGATGATAGGAGTATTTTATTGTGAT
CTGTGACGGGGTAGAAAAGAAAAGGGGTATATTTAGAAATAAATTGTAATGCTAA
TGCTACCCTTACAATCGTTCATCAATATTTTCTTTATGATACTTTGATAAAAAAT
CTTTTTTGAGGTGTTAGTGCACCAAATGCTGCCTTGGTCCTAATAAACTAGTGCTG
TCCTAATCAGCCGAAAGAAAAAGAAGAACCTCCTTTGCGTAAGTTGTGGGAATA
GTAAGGACACATTGAATGCTTTGACAATCCCTTTATGAGAGGCAAGCTAGTACAA
CATGAGCTCTTCTTGCTGTCACTGCCTGTACTCAAGCTATGCAGTGTACCTTCACA
GTCATTGCTCTATTGAAAATCTGAAAGACTGTTTTTTTTCCCTTCTGATTTCTGAA
GAACCATCAAAATGCACTCTGATTTCTGGAGATCGTATGCCTACTTGCCTAGTTTC
TTCAAGGAATGCCACCTACATCCACCCCTGAACCTGAATTCAAAGACACTCATAT
TTACATCGTGAGATCAACAATGTAATCATTCTATGTTTCATGTGACTTGGAATT
GGAAATATCTTTGTCTGATGTAATGGTTGTTTCAAACCTCCGAATCAAAGGTGGTG
GCGCCTGCGGATATGGGGACCTGGACATATTCAGATACGGTAGGTACACGACTG
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CCGGTGCCTGAACAACATCCTCTGGTGCCTGCGGGGCAGCCCGACGGTCGTCGCTG
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GCGGCGCCAGCTTCCCTCCAGGTCCCTCATCACCACGTGGCGGCTGACGGCGAGGT
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GAGGTACCCGAAAGAAGGGGAGGACCTTACGATGTACAACGTGGCGCCTTCA
GATTGGATGTTTCGCGCAAACATTCGAAGGCAAGCAGCTCGTTGAATAGGTGAAA
AGGGTGGCAAGTTCCGGTGATTGTAATTAGAATTACAGGGGGGTTAAAAATGTTCG
GGCTTCAGTTTTGTGACCTGAAGGAATTTAGCCCACTTAGTGGTGTTTGCTCTGC
TCACCTTATCCGGTATAGTTGTTAAATTTTACTTCGGGGAGTTTCTTGGAACTC

CCTGGCCAGTGGACAGGACAATGGTTTCGCTTGCATGTTGCAACCTGACGTTGGC
CCAACGCATTCCTTG