

IDENTIFICATION

Species: *Solanum tuberosum*

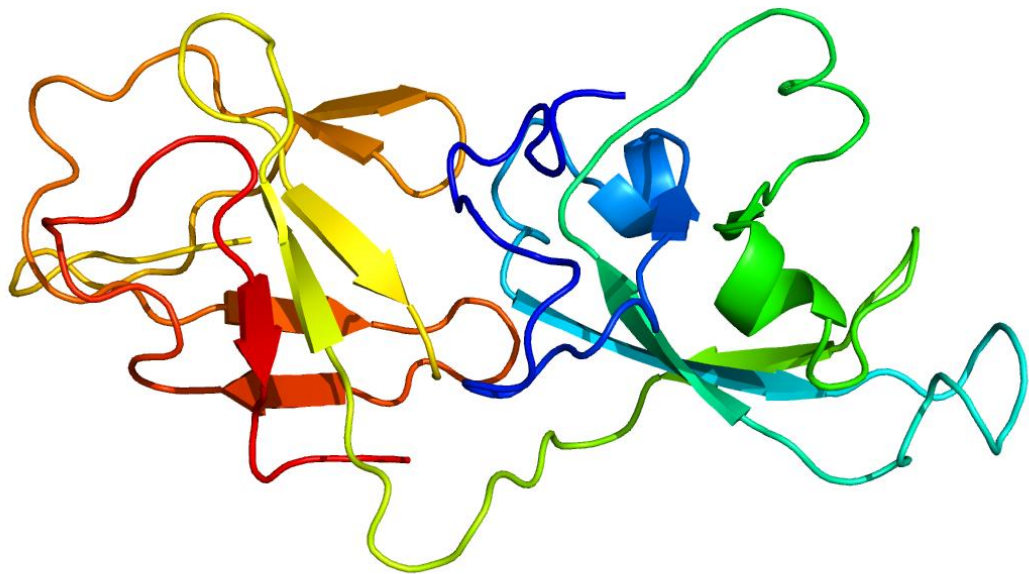
Locus: PGSC0003DMP400032846

Gene Model: PGSC0003DMP400032846

Description: StEXPB-03

Family: Beta Expansin

3D structure:



GENOME DATABASES

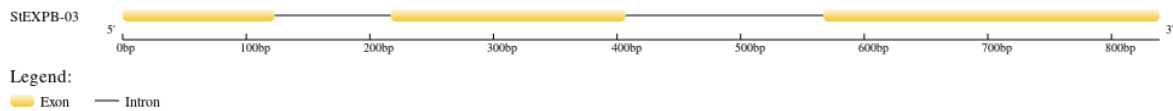
Phytozome: https://phytozome-next.jgi.doe.gov/info/Stuberosum_v4_03

KEGG: <https://www.genome.jp/entry/T02981>

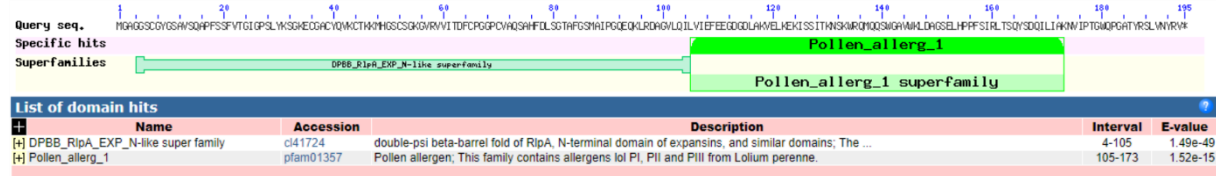
EXTERNAL RESOURCES

<http://spuddb.uga.edu/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>StEXPB-03

MGAGGSCGYGSAVVSQAPFSSFVTGIGPSLYKSGKECGACYQVKCTKKMHGSCSGKGV
VRVVITDFCPGGPCVAQSAHFDLSGTAFGSMAIPGQEQLRDLQILVIEFEEGDG
DLAKVELKEKISSITKNSKWRQMQQSWGAVWKLDA GSELHPPFSIRLTSQYSDQILIA
KNVIPTGWQPGATYRSLVNYRV*

CDS (coding sequence)

>StEXPB-03

ATGGGTGCAGGAGGATCTTGTGGATATGGGAGTGCAGTATCACAAGCACCTTTCT
CTTCCTTTGTTACTGGAATCGGTCCATCCCTTTATAAATCTGGAAAAGAATGTGGA
GCTTGTTACCAGGTGAAATGTACAAAGAAGATGCATGGATCGTGTTTCAGGCAAG
GGAGTAAGAGTGGTGATAACAGATTTTTGCCCAGGAGGACCTTGTGTGGCTCAAT
CAGCACATTTTGACTTAAGTGGAAGTGCATTTGGTTCAATGGCTATACTGGACA
AGAACA AAAACTCAGAGATGCTGGTGTCTTGCAAATACTTGTGATAGAATTTGAA
GAAGGAGATGGTGTCTTGCTAAAGTTGAATTGAAGGAAAAAATAAGCAGCATT
ACAAAGAATTCTAAATGGAGGCAAATGCAGCAGTCTTGGGGTGCTGTTTGAAA
CTGGATGCTGGCTCTGAGTTACACCCTCCCTTTTCTATTCGATTGACTTCACAATA
TTCTGACCAGATATTAATAGCCAAGAATGTGATTCCTACTGGTTGGCAGCCTGGT
GCTACGTATCGATCCCTCGTCAATTATAGAGTTTAA

Nucleotide

>StEXPB-03

ATGGGTGCAGGAGGATCTTGTGGATATGGGAGTGCAGTATCACAAGCACCTTTCT
CTTCCTTTGTTACTGGAATCGGTCCATCCCTTTATAAATCTGGAAAAGAATGTGGA
GCTTGTTACCAGGTTCTTTCCTTCCCCTTAATAAATTAATCCTAAACACACGAGTT
TTATAAATATTCCAGTACTTCATTAGCAATAATAAATATGTGTGATACAGGTGAA
ATGTACAAAGAAGATGCATGGATCGTGTTTCAGGCAAGGGAGTAAGAGTGGTGAT
AACAGATTTTTGCCCAGGAGGACCTTGTGTGGCTCAATCAGCACATTTTGACTTA
AGTGGAAGTGCATTTGGTTCAATGGCTATACTGGACAAGAACA AAAACTCAGA
GATGCTGGTGTCTTGCAAATACGTTATGCTAGGCATGCAAATTACACCTTACTCA

CATTTTTACTCTCCTTAATTAGGATCATATTTTATTATTTTAAAAATTTTCAGGGTG
GCGTGTGATTATTCAAGGAAAAACATAGTGTTCCACGTTGATCAAGGTTCAA
CGGAGTACTTTGCAGTTGTGATAGAATTTGAAGAAGGAGATGGTGTCTTGCTAA
AGTTGAATTGAAGGAAAAATAAGCAGCATTACAAAGAATTCTAAATGGAGGCA
AATGCAGCAGTCTTGGGGTGCTGTTTGGAACTGGATGCTGGCTCTGAGTTACAC
CCTCCCTTTTCTATTCGATTGACTTCACAATATTCTGACCAGATATTAATAGCCAA
GAATGTGATTCTACTGGTTGGCAGCCTGGTGCTACGTATCGATCCCTCGTCAATT
ATAGAGTTTAA