

IDENTIFICATION

Species: *Solanum tuberosum*

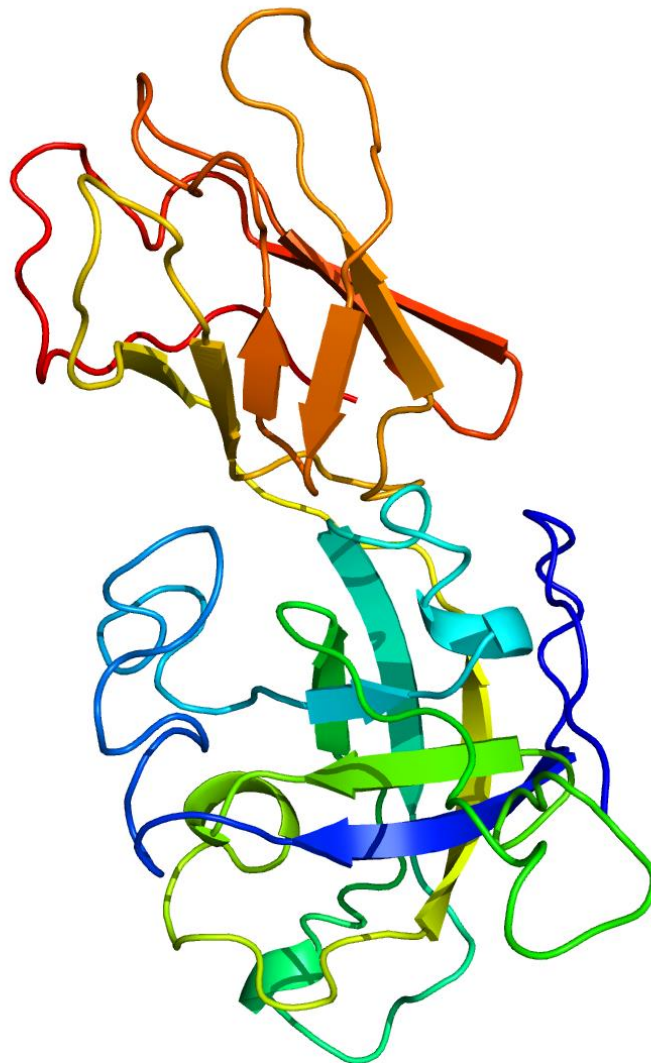
Locus: PGSC0003DMP400041197

Gene Model: PGSC0003DMP400041197

Description: StEXPA-13

Family: Alpha Expansin

3D structure:



GENOME DATABASES

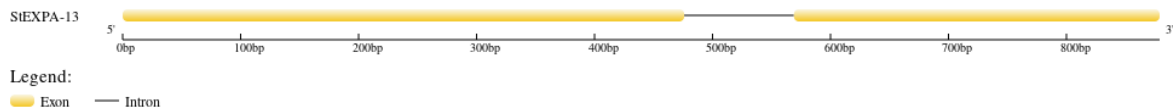
Phytozome: https://phytozome-next.jgi.doe.gov/info/Stuberosum_v4_03

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

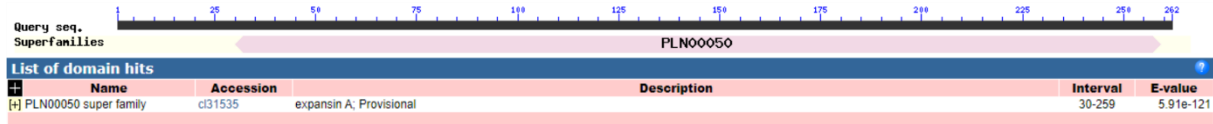
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>StEXPA-13

MGIMIIIIVLLFVDSFCNIVEGRIPGVYSGGSWQTAHATFYGGSDASGTMGGACGYG
NLYSQGYGVNTAALSTALFNGLSCGACFELKCTNTPNWKWCLPGSPSILITATNFCP
PNYALPNDNGGWCNPPRSHFDLAMPFMLKLAQYRAGIVPVTYRRIPCRKQGGIRFTI
NGFRYFNLVLITNVAGAGDIIKVVWVKGTKTNWIPLSRNWQNWQSNVLTGQSLSF
RVKASDHRSSTSWNIVPSHWQFGQTFGKNFKI*

CDS (coding sequence)

>StEXPA-13

ATGGGTATCATGATTATCATCGCTGTTCTTCTTTTTGTGGACTCATGTTTCAACATT
GTTGAAGGAAGAATCCCTGGTGTTTACTCTGGTGGTTCATGGCAAACCTGCACATG
CTACATTTTACGGTGGAAGTGATGCTTCTGGAACAATGGGTGGTGCCTGTGGTTA
TGGAATTTATACAGCCAAGGATACGGAGTTAACACAGCAGCACTAAGTACTGCT
TTGTTTAAACAATGGATTAAGTTGTGGAGCTTGCTTTGAACTTAAATGTACAAATAC
TCCTAATTGGAAATGGTGTCTCCCTGGAAGCCCTTCAATTTAATCACAGCTACCA
ATTTCTGCCACCAAACCTATGCATTGCCAAATGATAATGGTGGCTGGTGCAATCC
TCCTCGCTCTCACTTTGATCTCGCTATGCCTATGTTTCTCAAGCTTGCTCAGTACCG
TGCTGGCATTGTTTCTGTTACTTATCGCAGGATACCATGCCGCAAGCAAGGAGGA
ATCAGGTTACAATCAATGGTTTCCGTTACTTCAACTTAGTCTTGATCACGAATGT
AGCAGGTGCAGGAGATATTATTAAGTTTGGGTAAAAGGAACAAAGACTAATTG
GATTCATTGAGCCGTAATTGGGGTCAAATGGCAATCAAATGCGGTTTTAACT
GGTCAATCACTCTCTTTCAGGGTTAAAGCTAGTGACCATCGCTCTTCTACTTCATG
GAATATTGTTTCTTCTCATTGGCAATTTGGCCAAACTTTCACCGGAAAGAATTTCA
AAATATAA

Nucleotide

>StEXPA-13

ATGGGTATCATGATTATCATCGCTGTTCTTCTTTTTGTGGACTCATGTTTCAACATT
GTTGAAGGAAGAATCCCTGGTGTTTACTCTGGTGGTTCATGGCAAACCTGCACATG
CTACATTTTACGGTGGAAGTGATGCTTCTGGAACAATGGGTGGTGCCTGTGGTTA
TGGAATTTATACAGCCAAGGATACGGAGTTAACACAGCAGCACTAAGTACTGCT
TTGTTTAAACAATGGATTAAGTTGTGGAGCTTGCTTTGAACTTAAATGTACAAATAC

TCCTAATTGGAAATGGTGTCTCCCTGGAAGCCCTTCAATTTAATCACAGCTACCA
ATTTCTGCCCACCAAACCTATGCATTGCCAAATGATAATGGTGGCTGGTGCAATCC
TCCTCGCTCTCACTTTGATCTCGCTATGCCTATGTTTCTCAAGCTTGCTCAGTACCG
TGCTGGCATTGTTCCCTGTTACTTATCGCAGGTAATAATCAATTAATATACCTCTG
TACTATCGGAAATAATGTTTATATGACATTCCATAATAATAGTAATGTATATTTGT
GAAATGTTTCAGGATACCATGCCGCAAGCAAGGAGGAATCAGGTTCCACAATCAAT
GGTTTCCGTTACTTCAACTTAGTCTTGATCACGAATGTAGCAGGTGCAGGAGATA
TTATTAAAGTTTGGGTAAAAGGAACAAAGACTAATTGGATTCCATTGAGCCGTAA
TTGGGGTCAAATTTGGCAATCAAATGCGGTTTTAACTGGTCAATCACTCTCTTTCA
GGGTAAAGCTAGTGACCATCGCTCTTCTACTTCATGGAATATTGTTCCCTTCTCAT
TGGCAATTTGGCCAAACTTTCACCGGAAAGAATTTCAAATATAA