

IDENTIFICATION

Species: *Solanum tuberosum*

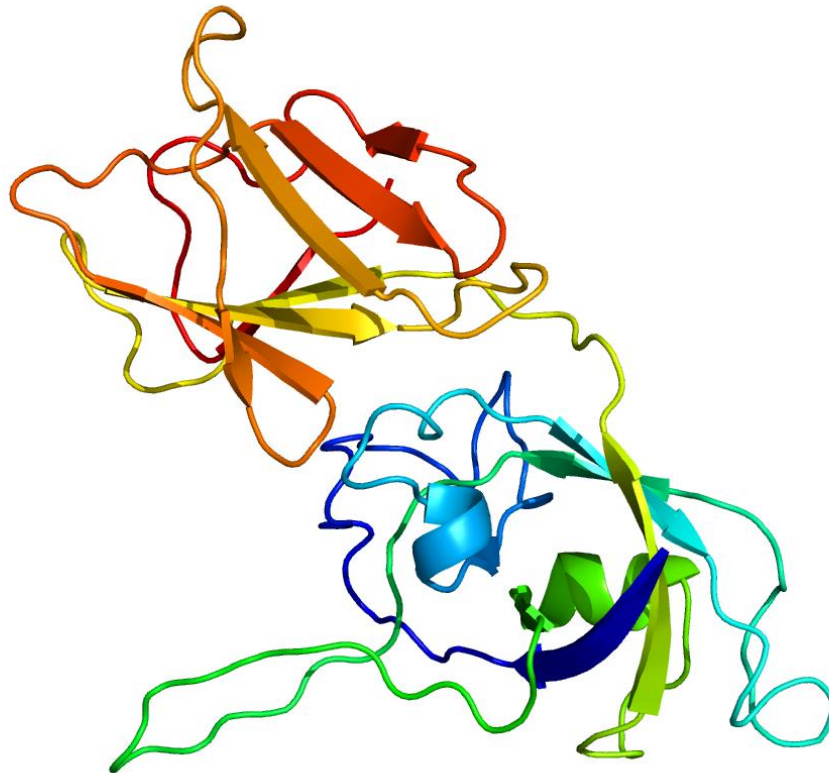
Locus: PGSC0003DMP400007816

Gene Model: PGSC0003DMP400007816

Description: StEXPA-12

Family: Alpha Expansin

3D structure:



GENOME DATABASES

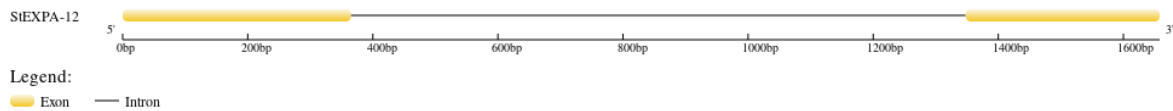
Phytozome: https://phytozome-next.jgi.doe.gov/info/Stuberosum_v4_03

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

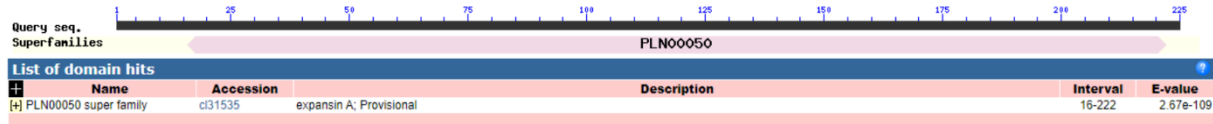
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>StEXPA-12

MNKLRFQTRFIDVQFAGGACGYGNLYSQGYGVNNAALSTALFNNGLSCGACFEIKCD
NQPQWCHPGSPSILITATNFCPPNYALPNDNGGWCNPPRTHFDLAMPMLKIAEYRA
GIVPVVYRRVSCRKQGGIRFTINGFSYFNLVLTNVAGAGDITKVMVKGTRTNWITL
SRNWGQNWQTNSVLVGQSLFRVITASDKRKSTSWNIAPSHWQFGQTFVGKNFRV*

CDS (coding sequence)

>StEXPA-12

ATGAATAAATTGTTTCAAAC TAGATTCATAGACGTTCAATTTGCAGGTGGGGCAT
GTGGATATGGCAATCTTTATAGCCAAGGGTATGGAGTAAACAATGCAGCATTAAAG
CACAGCATTATTCAACAATGGACTAAGTTGTGGAGCTTGTTTTGAGATCAAATGT
GACAATCAACCACAATGGTGT CATCCTGGAAGTCCTTCCATTTTGATTACTGCAA
CTAACTTTTGTCCCTCCAAATTATGCATTGCCTAATGATAATGGTGGTTGGTGTAA
CCTCCTCGTACCCATTTTCGATCTCGCCATGCCTATGTTCCCTCAAGATCGCTGAGTA
TCGTGCTGGTATCGTCCCTGTTGTTTATCGTAGGGTGT CATGTAGGAAGCAAGGT
GGAATAAGGTTCACTATCAATGGTTTTAGTTACTTCAACTTGGTTTTAGTCACGAA
TGTCGCTGGTGCAGGTGACATTACGAAGGTTATGGTGAAGGGTACGAGGACTAA
CTGGATAACGTTGAGTCGTAATTGGGGTCAGAACTGGCAAACCAACTCCGTGTTG
GTTGGTCAGTCGTTGTCATTCAGGGTCACAGCTAGCGATAAACGCAAATCTACCT
CGTGGAACATAGCCCCATCACATTGGCAATTTGGTCAGACATTTGTTGGAAAGAA
CTTTAGAGTCTAA

Nucleotide

>StEXPA-12

ATGAATAAATTGTTTCAAAC TAGATTCATAGACGTTCAATTTGCAGGTGGGGCAT
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