

IDENTIFICATION

Species: *Solanum tuberosum*

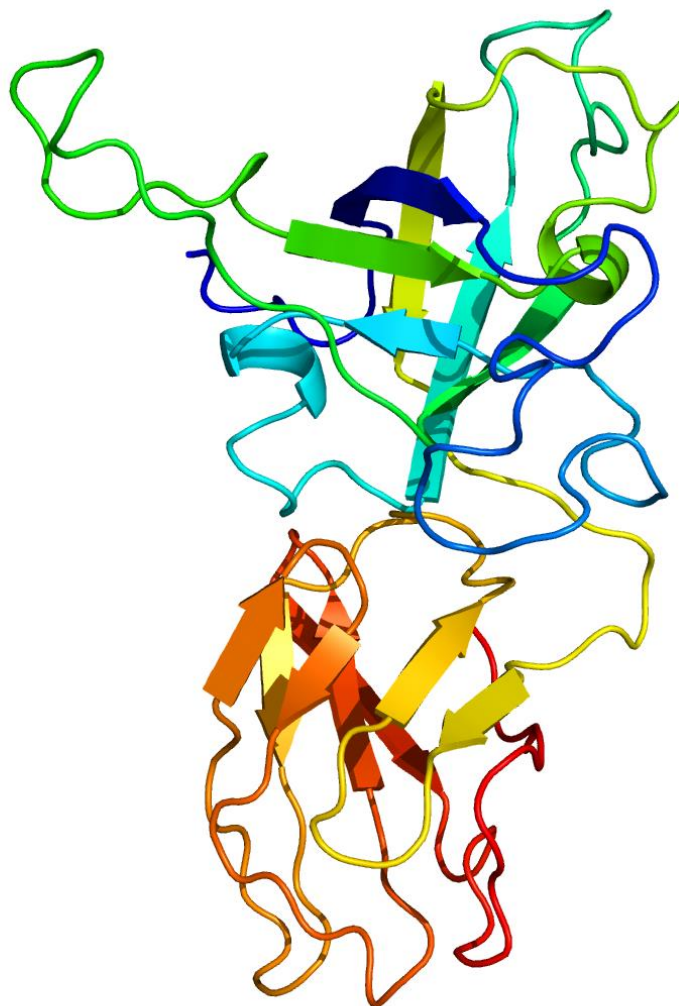
Locus: PGSC0003DMP400052934

Gene Model: PGSC0003DMP400052934

Description: StEXPA-15

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>

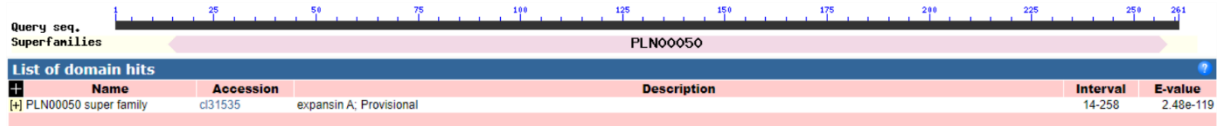
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>StEXPA-15

MGFLNVACCVASLFLILLTAEARIPGVFTAGAWQSAHATFYGGSDASGTMGGACG
YGNLYSQGYGVNNGALSTALFNGLSCGACFEIKCDNYPQWCHPGSPSIFITATNFCP
PNFALPNDNGGWCNPPRPHFDLAMPFLHIAEYRAGIVPVVYRRVPCRKQGGIRFTI
NGFRYFNLVLVTNVAGAGDIVSLSIKGSKTNWISMSRNWQNWQTNVLFQQSLSFR
VRAGDRRSSTSWNIAPAHWQFGQTFIGKNFRV*

CDS (coding sequence)

>StEXPA-15

ATGGGGTTTTTGAATGTGGCCTGCTGTGTTGCTTCACTTTTTTCACTAATTTTACTA
ACGGCTGAAGCTAGAATCCCTGGTGTTTTTACTGCCGGAGCATGGCAGAGTGCTC
ATGCTACTTTCTATGGCGGAAGCGACGCTTCTGGTACTATGGGTGGAGCATGTGG
GTATGGTAACCTATACAGTCAGGGATACGGAGTGAACAATGGAGCACTTAGCAC
AGCGCTATTCAACAATGGACTGAGTTGTGGAGCGTGTTTTGAGATCAAATGTGAC
AACTACCCACAATGGTGCCATCCCGGAAGTCCTTCCATCTTCATTACAGCTACTA
ACTTCTGCCCTCCCAACTTTGCTCTCCCAAACGACAACGGGGGTTGGTGTAACCTT
CCTCGCCCTCATTTCGACCTCGCCATGCCTATGTTCCCTCCACATCGCCGAGTACCG
TGCCGGAATTGTCCCGTCGTTTACCGCCGGGTGCCATGCAGGAAGCAAGGTGGA
ATAAGGTTTACAATTAACGGTTTCCGTTACTTCAACTTGGTTTTGGTAACCAACGT
CGCAGGTGCAGGGGATATCGTGAGTCTTAGTATTAAGGTTCAAAAATAATTGG
ATAAGTATGAGCAGGAACTGGGGGCAAATTTGGCAAACAATTCAGTTTTGTTTG
GTCAGTCACTTTTCAATTTAGGGTTAGAGCTGGTGATAGAAGGAGCTCCAATTCATG
GAATATAGCACCTGCACATTGGCAATTTGGTCAAACCTTTATTGGGAAGAATTC
AGAGTTTAA

Nucleotide

>StEXPA-15

ATGGGGTTTTTGAATGTGGCCTGCTGTGTTGCTTCACTTTTTTCACTAATTTTACTA
ACGGCTGAAGCTAGAATCCCTGGTGTTTTTACTGCCGGAGCATGGCAGAGTGCTC
ATGCTACTTTCTATGGCGGAAGCGACGCTTCTGGTACTATGGGTATGTTACCGTTT
CCTCTATAATCTTCTACTGTCAATTCACAACTACCTTTTTTTCTGCACATAATGTA

CTTGAAATGCTTCATTTCTACTCTGTTTTCGGTCTGTTTTTCTAGATTTTTTCGTTCA
ATGTTCAAAGAAATGTTAGTCAATTTGTAAATCTATGAGTATTTCCCTCATTTCAG
CGTATTTTGTGCATGTACATGAAATGCCCATTTCTACACTATTTTGTTCTTCTTCT
CCAGCATTTTGGTTTTATTTTCAGAGAAATGCAAGTCAATTTGTAGATCTAAAAGT
AAATGTAACATAAAATTTAGACTAATTTTGAGATTTGTGATGGATTTACAGGTGGA
GCATGTGGGTATGGTAACCTATACAGTCAGGGATACGGAGTGAACAATGGAGCA
CTTAGCACAGCGCTATTCAACAATGGACTGAGTTGTGGAGCGTGTTTTGAGATCA
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CGAGTACCGTGCCGGAATTGTCCCCGTCGTTTACCGCCGGTAAGATTCGTTATCTT
TCTCTGTCAGTACTGTATTTTTTGTGTGCCATTTTCGGTTTGTTTTCTAGTTGGTT
CTTTTCTTTATTGCTTTTGTTCATTGTTGGGGTAGAAGAAATAATAACCTGTCAA
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AACCCTAGATAGTGAAGCACAGTCTCCTAGTATTATCTCCAGTCCATTATTTTAA
CAGTAACATTTGGATGACTAAATTGACCTGAGTTTTTCTATTTATTTACGCAGGGT
GCCATGCAGGAAGCAAGGTGGAATAAGGTTTACAATTAACGGTTTCCGTTACTTC
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