

IDENTIFICATION

Species: *Solanum tuberosum*

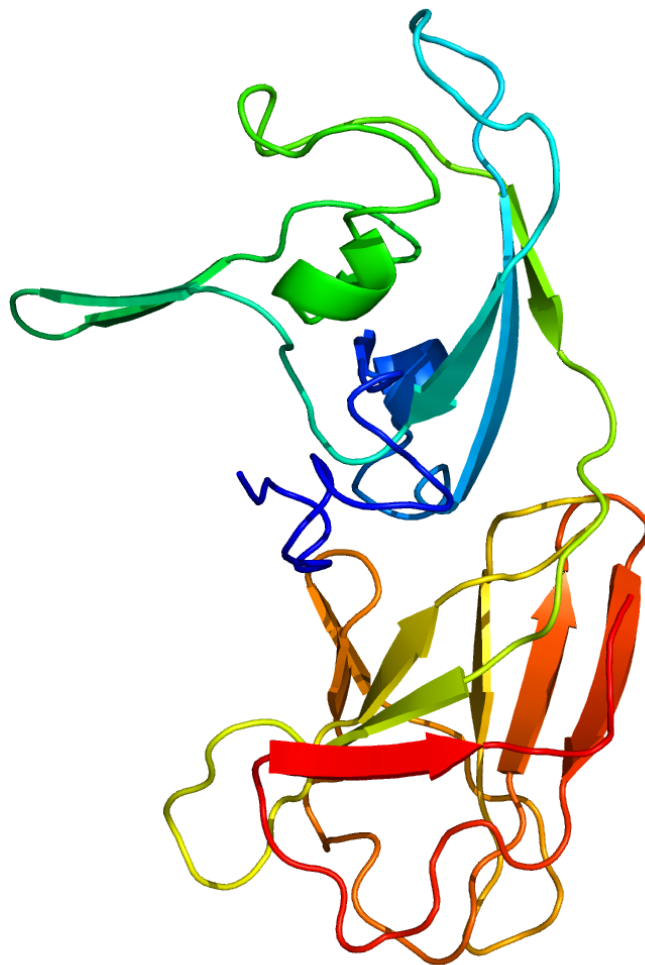
Locus: PGSC0003DMP400022107

Gene Model: PGSC0003DMP400022107

Description: StEXPA-17

Family: Alpha Expansin

3D structure:



GENOME DATABASES

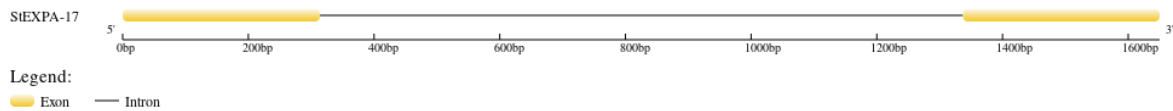
Phytozome: https://phytozome-next.jgi.doe.gov/info/Stuberosum_v4_03

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

EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE

Query seq. VGGACGFGNLTSGYGTDTAALSSVLYNKGFCGQCFQIKCVQSDSCYSTIVTIVTAT
Superfamilies PLN#193

Name	Accession	Description	Interval	E-value
PLN00193 super family	c133423	expansin-A; Provisional	1-207	2.63e-83

SEQUENCES

Peptide

>StEXPA-17

VGGACGFGNLTSGYGTDTAALSSVLYNKGFCGQCFQIKCVQSDSCYSTIVTIVTAT
NLCPPNPAQDSNNGGWCNPPRTHFDMAKPAFMKIAQWKAGIVPVSYRRVPCVKKG
GIKFSLQNGYWLLVYVMNVGGSGDIASMWVKGTKTSLAMSHNWGASYQAFAT
LSGQTLSEFKITSYTSKETIATNVAPSSWQVGMTYQANVNFN*

CDS (coding sequence)

>StEXPA-17

GTAGGGGGAGCTTGTGGATTTGGAAATTTGGTCACATCAGGTTATGGAACAGATA
CAGCAGCATTGAGCTCAGTATTATAACAACAAGGGATTTGCATGTGGACAATGTTT
CCAAATAAAATGTGTGCAGTCAGACTCTTGCTACTCAACAATTGTAACAGTGACA
GCAACAAATCTCTGTCCACCAAATCCTGCACAAGACAGTAACAATGGTGGTTGGT
GTAATCCACCTAGAACACATTTTGATATGGCCAAACCTGCTTTCATGAAAATTGC
TCAATGGAAGGCTGGAATTGTCCCTGTTTCTTATCGCAGGGTACCCTGTGTTAAA
AAAGGTGGAATCAAGTTTAGTCTCCAAGGAAATGGGTATTGGTTATTGGTATATG
TGATGAATGTTGGTGGAAAGTGGAGATATTGCAAGTATGTGGGTGAAGGGAECTA
AAACAAGTTGGTTAGCTATGAGCCATAATTGGGGAGCTTCATATCAAGCATTGTC
AACTCTAAGTGGCCAAACACTTTCTTTTAAGATCACTTCTTACACATCTAAAGAA
ACAATTATAGCTACTAATGTTGCACCTTCTAGTTGGCAAGTAGGAATGACTTATC
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Nucleotide

>StEXPA-17

GTAGGGGGAGCTTGTGGATTTGGAAATTTGGTCACATCAGGTTATGGAACAGATA
CAGCAGCATTGAGCTCAGTATTATAACAACAAGGGATTTGCATGTGGACAATGTTT
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CCCCCTTATAATAGGACTTTTCAGTGAGAATCTGATTAATCGGGCACTAAAGTAA
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CTTGATATTTGTTTTGGGTCCAACTATTTTCGGGCTTCGTGTAAGACTCATTAATA
GAGGAAGTACTGCATATTAGGATTTTCTTCCATTCCTAGGGCTTGATGTGTTACTT
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TGCGTTTAAATAAAACAAATTGATAATTATATAATAGTGGTAGAATCAGTTGTGT
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GATCACTTCTTACACATCTAAAGAAACAATTATAGCTACTAATGTTGCACCTTCTA
GTTGGCAAGTAGGAATGACTTATCAAGCCAATGTCAACTTCAACTAA