

## IDENTIFICATION

**Species:** *Solanum tuberosum*

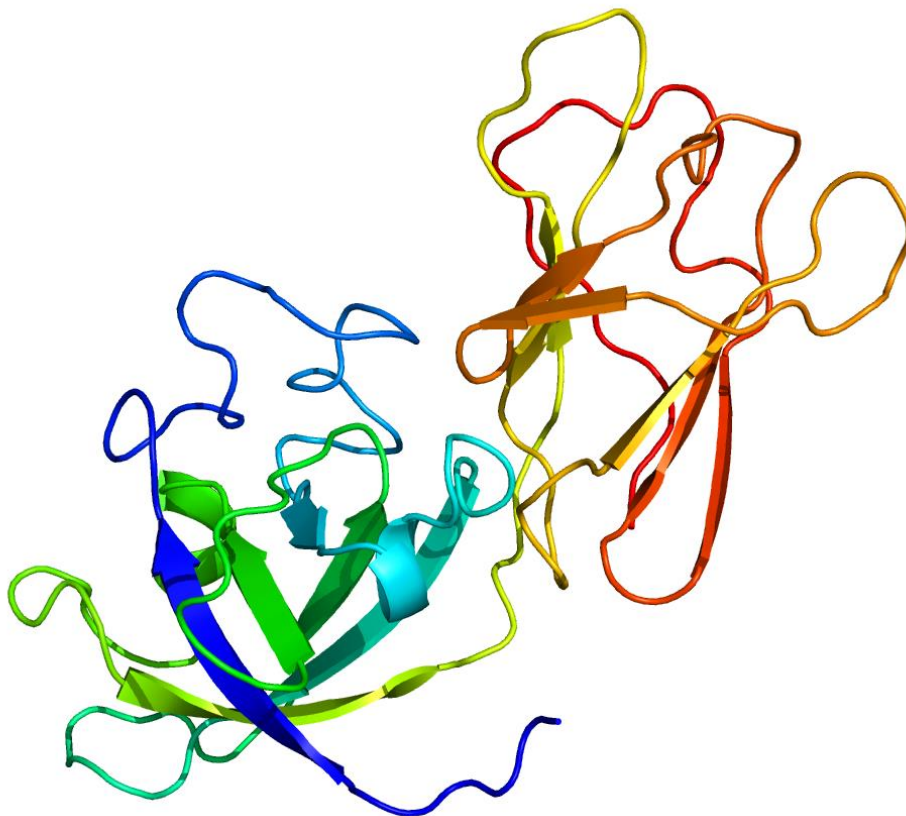
**Locus:** PGSC0003DMP400019543

**Gene Model:** PGSC0003DMP400019543

**Description:** StEXPA-22

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

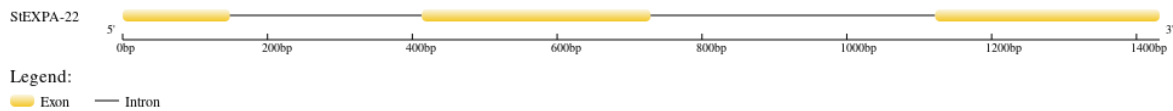
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Stuberosum\\_v4\\_03](https://phytozome-next.jgi.doe.gov/info/Stuberosum_v4_03)

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

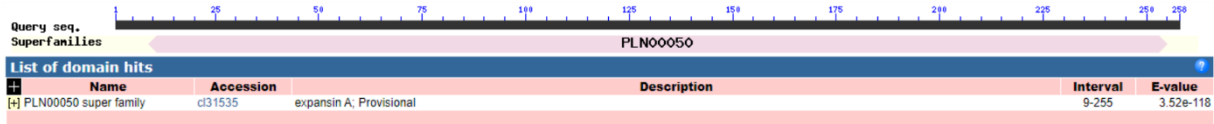
## EXTERNAL RESOURCES

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>StEXPA-22

MAITWMLCIASLLSFLTTVDSKVRGVYTAGPWQSAHATFYGGSDASGTMGGACGY  
GNLYSTGYGVNNAALSTVLFNSGLSCGACFEIKCTDEKWCNPGNPSIFVTGTNFCPPN  
YALPNDNGGWCNPPRPHFDLSMPVFLQIAQYRAGIVPVTYRRVPCKKQEGIRFTINGF  
NYFNMIIVTNVAGAGDIQQVQVKGTNTKWIIMSRNWGQNWQSNALLTGQALSFKV  
KTSDDRYVTSYNVAPSNWQFGQTYQGKNYRV\*

### CDS (coding sequence)

>StEXPA-22

ATGGCTATAACTTGGATGCTTTGCATTGCTTCCCTTCTCTCTTTCTTGACAACCGTC  
GATTCAAAGGTCCGCGGTGTTTACACCGCTGGCCCTTGGCAGAGCGCTCATGCCA  
CCTTCTATGGTGGCTCTGATGCCTCTGGCACCATGGGTGGTGCATGTGGATATGG  
AAATTTGTACAGCACAGGATAACGGAGTGAATAATGCAGCACTAAGCACAGTACT  
TTTTAATAGTGGACTAAGCTGCGGTGCTTGTGTTTGAATAAAATGCACTGATGAA  
AAATGGTGCAACCCGGGTAACCCATCCATTTTTGTAACGGGTACAAATTTCTGCC  
CGCCAAATTACGCTTTGCCAAATGATAATGGAGGTTGGTGCAACCCGCCCCGGCC  
CCATTTGACCTTTCCATGCCTGTGTTCCCTCCAAATTGCGCAGTATCGAGCCGGCA  
TCGTCCCAGTTACCTATCGAAGGGTTCATGCAAGAAACAAGAAGGAATAAGATT  
CACAATCAACGGTTTCAATTACTTCAACATGATCATAAGTGACTAACGTGGCAGGT  
GCTGGTGATATCCAGCAAGTTCAAGTCAAAGGTAATAACTAAATGGATAATTA  
TGAGTCGAAACTGGGGGCAAAATTGGCAATCCAATGCTTTGCTAACTGGTCAAGC  
ACTTTCATTTAAAGTCAAACAAGTGACCGTCGCTATGTTACCTCATAACAACGTG  
GCACCTTCTAATTGGCAGTTTGGCCAGACTTATCAAGGCAAAAATTATCGAGTTT  
AA

### Nucleotide

>StEXPA-22

ATGGCTATAACTTGGATGCTTTGCATTGCTTCCCTTCTCTCTTTCTTGACAACCGTC  
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ATAATAGGGTTCCATGCAAGAAACAAGAAGGAATAAGATTCACAAATCAACGGTT  
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