

## IDENTIFICATION

**Species:** *Solanum tuberosum*

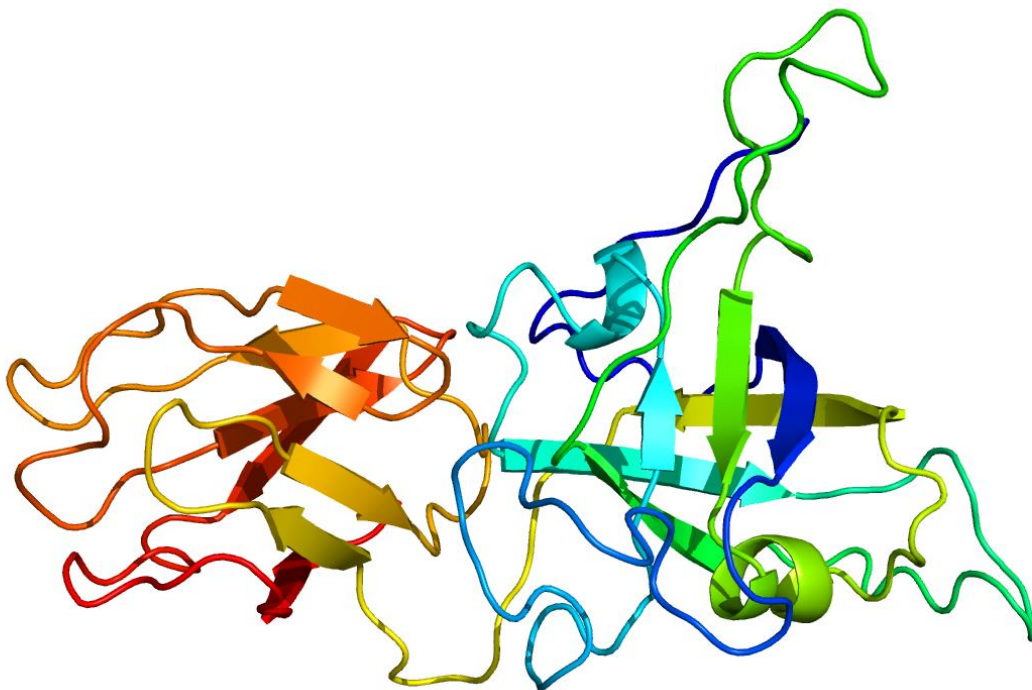
**Locus:** PGSC0003DMP400033279

**Gene Model:** PGSC0003DMP400033279

**Description:** StEXPA-21

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

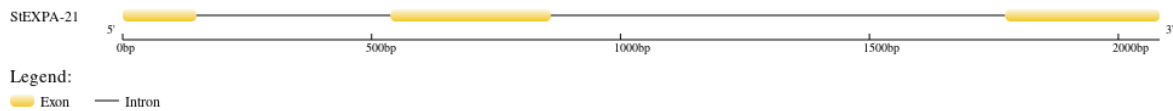
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Stuberosum\\_v4\\_03](https://phytozome-next.jgi.doe.gov/info/Stuberosum_v4_03)

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

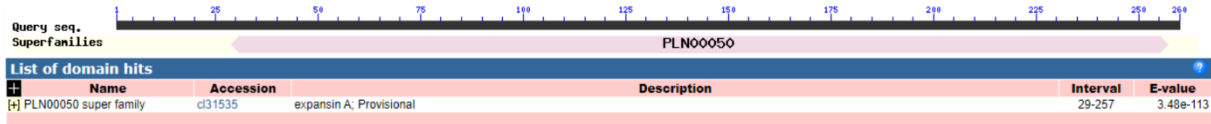
## EXTERNAL RESOURCES

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>StEXPA-21

MAVNWALCIASLLCFLT VVNAKIVGVYTGGSWTS AHATFYGGADASGTMGGACGY  
GNLYSQGYGVNNAALSTALFNSGLSCGSCFEIKCTDSKKEYCNPGNPSILVTGTNFCP  
PNYALPNDNGGWCNPPRPHFDLAMP MFLKIAVYRAGIVAVNYRRVPCRKQGGIRFT  
VNGFQYFNLVLTNVAGAGDIQKVYVKGTNTPWISMTRNWGQNWQTNAKLIGQAL  
SFRVTGSDRRSSASYNIPANWQFGQTFQGKNFRV\*

### CDS (coding sequence)

>StEXPA-21

ATGGCTGTGAATTGGGCACTCTGCATTGCTAGTCTTCTCTGTTTTCTAACGGTTGT  
TAACGCAAAAATCGTCCGAGTTTACACCGGCGGATCCTGGACAAGTGCCACGCC  
ACCTTTTATGGAGGCGCTGATGCTTCTGGAACCATGGGTGGTGCATGTGGCTATG  
GGAATCTGTACAGCCAAGGGTACGGAGTAAACAACGCGGCATTGAGTACGGCAC  
TTTTCAACAGTGGGCTGAGCTGCGGCTCTTGCTTCGAGATAAAGTGTACTGACAG  
TAAGAAGGAATATTGCAACCCTGGAACCCCTTCCATCTTGGTAACAGGAACAAAT  
TTCTGCCACCAAATTACGCCTTGCCTAACGATAATGGAGGTTGGTGTAAACCAC  
CTCGCCACATTTTCGACCTCGCCATGCCCATGTTCCCTCAAAATTGCTGTGTACCGT  
GCTGGAATTGTTGCTGTAACTACCGAAGGGTCCATGCAGGAAACAAGGAGGA  
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GGACAAGCACTTTCTTTTAGAGTCACTGGTAGTGATCGACGCAGCTCTGCTTCAT  
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### Nucleotide

>StEXPA-21

ATGGCTGTGAATTGGGCACTCTGCATTGCTAGTCTTCTCTGTTTTCTAACGGTTGT  
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