

## IDENTIFICATION

**Species:** *Ananas comosus*

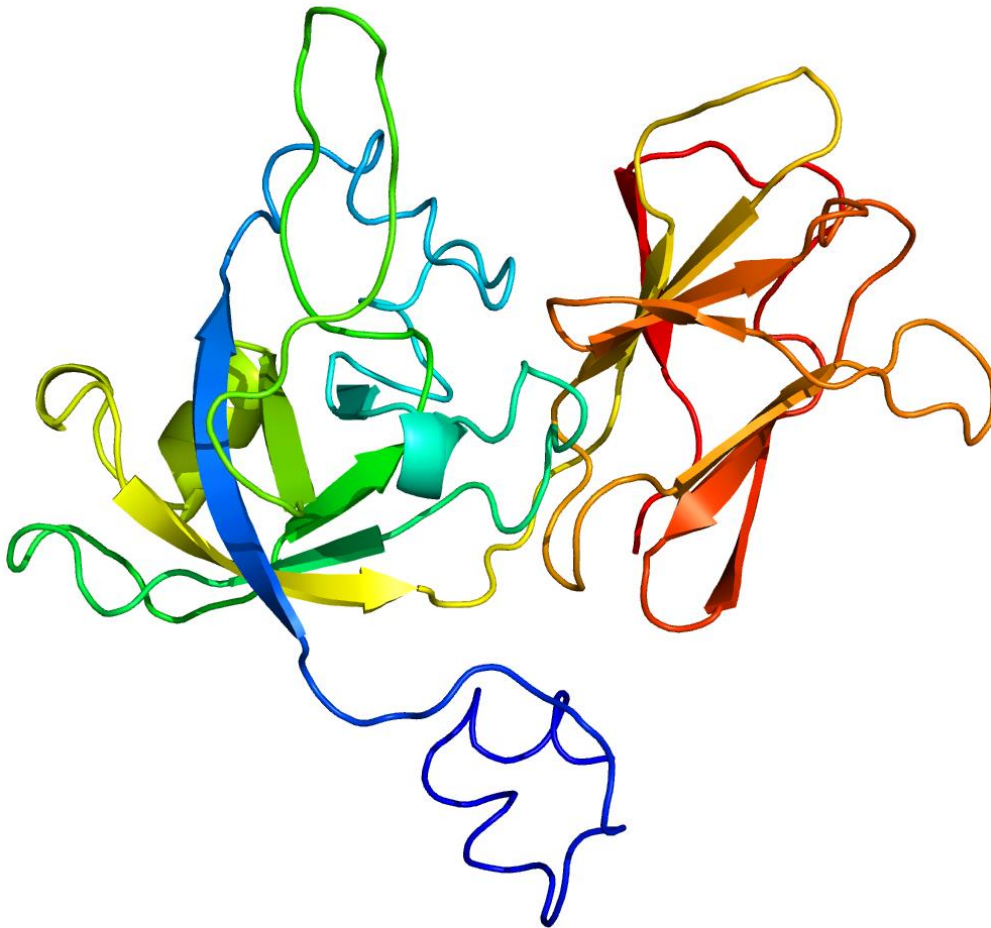
**Locus:** Aco001677

**Gene Model:** Aco001677.1

**Description:** AncEXPA-15

**Family:** Alpha Expansin

**3D structure:**



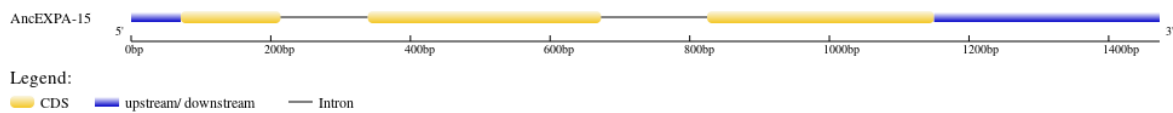
## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Acomosus\\_v3](https://phytozome-next.jgi.doe.gov/info/Acomosus_v3)

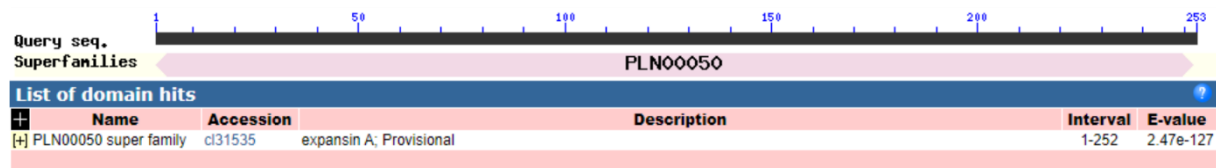
## EXTERNAL RESOURCES

[http://pineapple.angiosperms.org/pineapple/html/index.html#:~:text=The%20PGD%20\(Pineapple%20Genomics%20database,genomics%20and%20CAM%20pathway%20genes..](http://pineapple.angiosperms.org/pineapple/html/index.html#:~:text=The%20PGD%20(Pineapple%20Genomics%20database,genomics%20and%20CAM%20pathway%20genes..)

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>AncEXPA-15

MEFFGLFMFALLTTFKAANADASYSSGWTNAHATFYGGSDASGTMGGGYGNLYSQ  
GYGTNTAALSTALFNSGQSCGFEITCAGGSSWCLSGSIIVTATNFCPPNYALANDDGG  
WCNPPLQHFDLSQPVFQQAQYRAGIVPVQYRRVSCVKPGGIRFTINGHDYFNLVLIT  
NVGGAGDVASVSIKGSSTGWQAMSRNWGANWQSNSYLTGQALSFMVTTSDGRTVT  
SMDAAPAGWSFGQTFSGGQF\*

### CDS (coding sequence)

>AncEXPA-15

ATGGAGTTTTTTGGGCTCTTCATGTTTGCGCTTCTCCTTTTAAAGCAGCCAATGCA  
GGCTAGCTAGCAGTGGCTGGAAATGCTCATGCAACCTTCTATGGTGGTAGTGATG  
CTTCTGGAAATGGGAGGTGCTTGTGGCTGGAAATCTATAGCCAAGGGTGGGGAG  
GCGGCGCTGAGCTGCTCTATTCAAGCGGGCAGAGCTGCGGGGCGTGCTTCGAGAT  
AGTGCGCCGGCGGCAGCAGCTGGTGTCTGTCCGGGTCGATCATCGTCCGCCATT  
CTGCCCCCATGCCCTCGCGAGGGGCGGGTGGTGCACCCCCCTGCAGCTTCGA  
TCTCTCAGCCCGTCTTCCAGCAGATCGCGCAGTATCGCGCCGGCATCGTCCCCGTC  
CAATAGAAGGGTGTTCATGCGTAAAGCCCGGAGGGATCCGGTTCGATCAGGGCGA  
CTTTCAATCTGGTGTGATCGAGTAGGGGGGGCGGGGGGTGGCGTCGGTGTTCGAT  
CAAGGGGTGAGCCGGCTGGCAGGCGATGAGCCGGATGGGGCGCGATGGCAGAG  
CAAGCTCTGTGGAAGCCCTCTCCTTCATGGTGCCAGCGGGCCGGCGTTCGATCAATG  
GGCCGCCCCCGCAGGCTGGAGCTTCGGGCAGCTTCTCCGGAGGGCAATTCTGA

### Nucleotide

>AncEXPA-15

TGCCTTCTCCCTCCCCCTATCATTCTCCTCCTCTGCGGCCTATCAAATCTTCCCA  
TGGAGTTTTTTGGGCTCTTCATGTTTGCGCTTCTCCTTTTAAAGCAGCCAATGCA

GCTAGCTAGCAGTGGCTGGAAATGCTCATGCACTTCTATGGTGGTAGTGATGCTT  
CTGGAAATGGGTAATTAATTAAGCAAATAATAATAATAATAATAATAATAAT  
AATAATAATTATAGAAAGAAAATAAAAATTCTGCTAAATATATTTCTGAGTCGTT  
TCCTATATATATATTTTTTGCAGGAGGTGCTTGTGGCTGGAAATCTATAGCCAAGG  
GTGGGGAGGCGGCGCTGAGCTGCTCTATTCAAGCGGGCAGAGCTGCGGGGCGTG  
CTTCGAGATAGTGCGCCGGCGGCAGCAGCTGGTGTCTGTCGGGGTCGATCATCGT  
CCGCCATTCTGCCCCCATGCCCTCGCGAGGGGCGGGTGGTGCACCCCCCTG  
CAGCTTCGATCTCTCAGCCCGTCTCCAGCAGATCGCGCAGTATCGCGCCGGCAT  
CGTCCCGTCCAATAGAAGGTA AAAATAAAAAAATGCTAGCTATCCGTTGAATAT  
GAAAATATTTAACGTTCTCTTGGCTTAAATTTTTAGAGAATGGGATGTTTCGTATA  
ATTTGATATGAAATAGCATGTTGTCGAATGCAGGGTGTCATGCGTAAAGCCCGGA  
GGGATCCGGTTCGATCAGGGCGTTTCAATCTGGTGCTGATCGAGTAGGGGGGGCG  
GGGGGTGGCGTCCGGTGTTCGATCAAGGGGTCGAGCCGGCTGGCAGGCGATGAGCC  
GGATGGGGCGCGATGGCAGAGCAAGCTCTGTGGAAGCCCTCTCCTTCATGGTGCA  
CCAGCGGGCCGGCGTTCGTCGAATGGGCCGCCCGCAGGCTGGAGCTTCGGGCAG  
CTTCTCCGGAGGGCAATTCTGAGTGTGAGTGTGCGGAGTGCTAGTCTGGGATGCGC  
AAAAGTATTGCGTTGTCGCGAATTTGGGGCTTCTCTTTTCGAATTAGCCCTGGATG  
ATGGTAGTTTCTTTTTCTTTTTCTTTTTCTTTTGCGATTTGCGAGGAGAGAGGGC  
TGAGGTGAGCAATGCCGGTCCCGCCGATGAATGTCTCGTTCCGTTTTTCTCTGTAA  
AATCTAAGTGATCGTTGTAATCGGCTTTCTAGCTGAAATATTTTCGTGAGATAATA  
GAGATATATTTTTTTAGAAAGTTTGAGCTTGTGAATGAG