

## IDENTIFICATION

**Species:** *Ananas comosus*

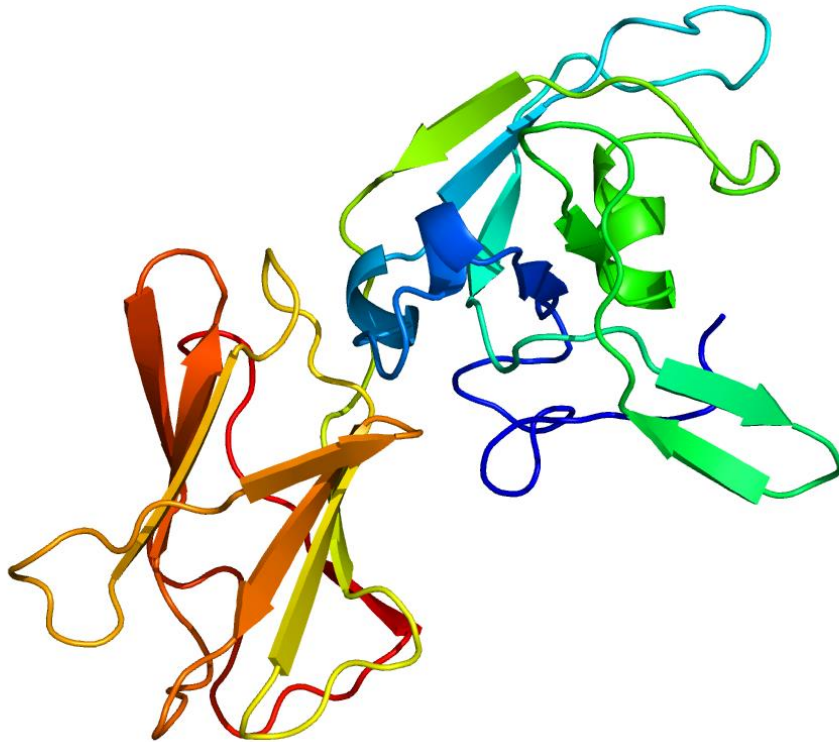
**Locus:** Aco030191

**Gene Model:** Aco030191.1

**Description:** AncEXPA-22

**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)

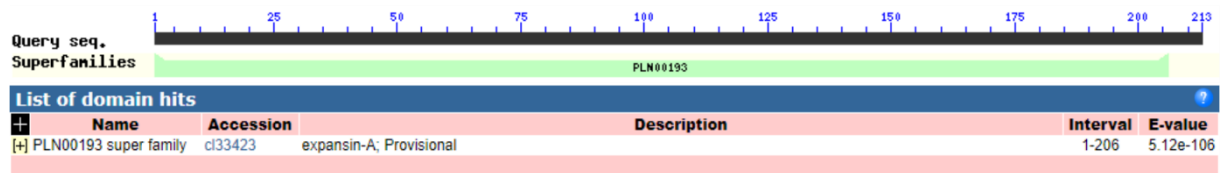
## EXTERNAL RESOURCES

[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-22

IGGGYGNLYSQGYGVETAALSTALFNDGLSCGFELKCADDPRWCHAGSPSILITATNF  
CPPNYALPSDNGGWCNPPRPHFDLAMPFLKIAEYRAGIVPVSFRRVPCRKSGGIRFT  
INGFSYFNLVLITNVAGAGDIVRASVKGSRTGWMPMSRNWQNWQSNVAVLVGQSL  
FRITGSDRRTSTSWNVVPANWQFGQTFSGKNFRV\*

### CDS (coding sequence)

>AncEXPA-22

ATAGGAGGGGCGTGTGGGTGGAAATTTATAGCCAAGGATGGTGTGGAGGGCAGC  
GCTGAGCGGCGCTGTTTAGGGGCTCAGCTGCGGGGCGTGCTTCGAGCTCAAGTGC  
GCCGCCCAGGTGGTGCCATGCCGGCAGCCCCTCCATCCTCATCGGCCCAATTC  
TGCCCCCCAATTACGCCCTCCCGTCCGAGGCGGGTGGTGCACCCCCTCGCCCC  
TTCGCTCGCCATGCCTATGTTCTCAAATCGCCGAGTCGCGCCGGGATCGTCCGT  
ATCCTTTCGAAGAGTGCCCTGCCGTAAGTCGGGAGGGATCCGGTTCGATCAGGAT  
TCAGTTTTCACTGGTGCTGATCGAGTGGCGGGGGCGGGCGATAGTGCGGGCGAGC  
GTGAAGGGCTCGCGCCGGGTGGATGCCGATGTCGCGCATGGGGCCAGAATTGGC  
AGTCCAATGCTGTCCTCGTCGGAATCCCTCTCCTTCCGCATCCGGCAGCGCGCCGC  
TTCCTTCTGGAGTCGTGCCCGCAATTGGCAGTTCGGCCAGCTTCTCTGGCAAG  
ATTCAGGGTCTGA

### Nucleotide

>AncEXPA-22

ATAGGAGGGGCGTGTGGGTGGAAATTTATAGCCAAGGATGGTGTGGAGGGCAGC  
GCTGAGCGGCGCTGTTTAGGGGCTCAGCTGCGGGGCGTGCTTCGAGCTCAAGTGC  
GCCGCCCAGGTGGTGCCATGCCGGCAGCCCCTCCATCCTCATCGGCCCAATTC  
TGCCCCCCAATTACGCCCTCCCGTCCGAGGCGGGTGGTGCACCCCCTCGCCCC

TTCGCTCGCCATGCCTATGTTCCCTCAAATCGCCGAGTCGCGCCGGGATCGTCCGT  
ATCCTTTCGAAGGTAATCAGTCGTAAAATTTTTTATTATTTTGTGAATTTTCATTA  
GAGTATCCTAGTATAAAAAGGGGCGAGATCGTATATAATGAATTTCAAATAAA  
GTAAATGAGATTCGATGGTTTATGTCCGTCCTTCTTGTTGAAAGGTTCTTTCGCTT  
TTCGGATATTTATTATTGAGGGTCAAGTTTCGCAATTTTGGCTTGGTCGCGTACCT  
TGCGTAGATGTTTCGGAGCCATTTATTATCCGGAGAGCTTCTCGATCCATTTCCATT  
ATAAGTATTGCTATAGATTCTTTAATAATATTTTTATATTTTCAAATTTATTGATAA  
TTAATAATATAGATGATAAAAAGAACTTTTAATATTAATATATAAAGGTAATTA  
TTATGTAAAGTTGGATTAGCTTCTAATTATCAAAGCAAAAAAATAAAAAATAAAA  
AAAAATTAGAAGAGGGCAATTTGATCTTTATCTTCTCGTCTCAAACGCGTGAGCC  
CTCGGTGCGCGCCGGTGAGGCATGCCCATGTCCCCTGGGCCCCCTCTTCTCGTTT  
CGTCCAATCAAATCTTTTCCCAGAATTTAGCATTAAATCCCCAAAATTCCATTTTA  
TCAAATTTCCATTTTGTAGTTTTGCTGATCAATTTCCATTAGAAAATATGATATAGA  
TCTTAAATGTGTTTGTGCATCTTCAGATTGTTGAATTGTATATAATAGCGAATGAA  
TGCGAATTCTCAGAGTGCCCTGCCGTAAGTCGGGAGGGATCCGGTTCGATCAGGA  
TTCAGTTTTCACTGGTGCTGATCGAGTGGCGGGGGCGGGCGATAGTGCGGGCGAG  
CGTGAAGGGCTCGCGCCGGGTGGATGCCGATGTCGCGCATGGGGCCAGAATTGG  
CAGTCCAATGCTGTCTCGTCGGAATCCCTCTCCTTCCGCATCCGGCAGCGCGCCG  
CTTCTTCTGGAGTCGTGCCCGCGAATTGGCAGTTCGGCCAGCTTCTCTGGCAAG  
ATTCAGGGTCTGA