

IDENTIFICATION

Species: *Ananas comosus*

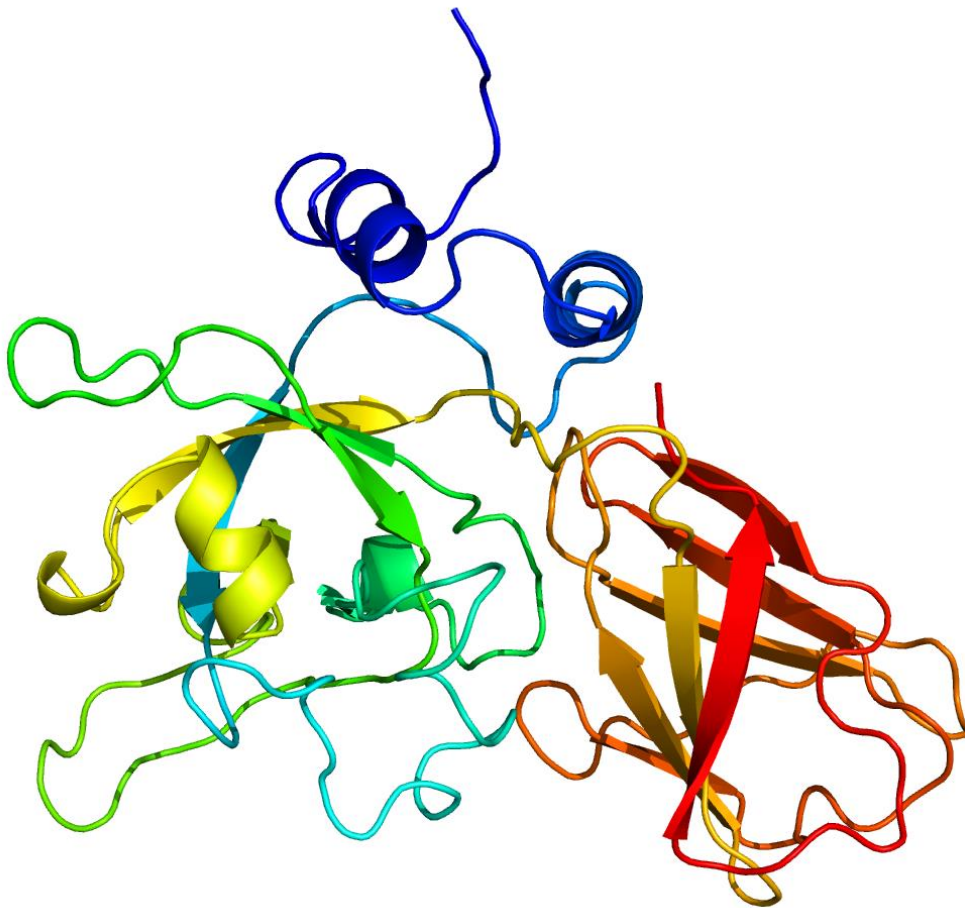
Locus: Aco009615

Gene Model: Aco009615.1

Description: AncEXPA-01

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Acomosus_v3

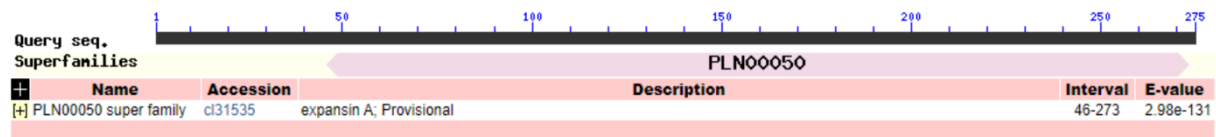
EXTERNAL RESOURCES

[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-01

WVYISVLCRSKVLAYILYSWENMGSAWILLIVSLSLLSIVVHGYNGGGWSSAHATFY
GGSDASGTMGGGYGNLYSQGYGTNTAALSTALFNNGQSCGYEMRCVNDHRWCLP
GSIVVTATNYCPPNYALPNNAGGWCNPPLQHFDLSQPVFQQAQYRAGIVPVSYRRV
SCRKRGGIRFTINGHSYFNLVLITNVGGAGDVHAVSIKGSRTNWQPMSRNWQONWQ
SSSYLDGQSLFSKVTTS DGRSVVSYNVAPASWSFGQTFSGGQLN*

CDS (coding sequence)

>AncEXPA-01

TGGGTCTATCTCTGTTCTGCAGGAGCAAGGTTTTGGCCTATCCTCTATAGTTGGGA
AAATGGGTTCTGCTTGGATTTTGCTTATTGTTTCTCTCTCATTGCTCTCTATAGTAG
TATGGGTAATGGAGGAGGATGGTCCAGTGCCCATGCTTTTCTATGGTGGAAAGTGA
TGCATCTGGGAATGGGTGGGGCATGTGGGTATGGAAATCTATAGCCAAGGATAT
GGGTAAGCAGCTGAGCAGCTCTATTCAAATGGGCAAAGCTGTGGGGCATGTTATG
AGATGAGGTGTGTGAATGCAGATGGTGTCTCCCTGGTTCATTGTGGTCTGCCAA
TTGCCCCCAATATGCTCCCAAAATGCAGGGGGGTGGTGCACCTCCCCTCCAATT
TTGCTCTCTCAGCCTGTTTTCCAGCAAATTGCTCAGTATAGGGCTGGGATTGTCCC
TGTTTCCTATAGAAGGGTCTCTTGCAGGAAGAGAGGGGGAATAAGGTTCCATTAA
TGGCCTCTTTTCAATCTAGTGCTGATCCAATGTTGGAGGAGCTGGAGATGTTCATG
CAGTTTCCATCAAGGGATCGAGGCAATTGGCACAATGTCGCGAATGGGGCCAAA
ATTGGCAGAGCAGTTCTTATCTTGATGGCCAATCTCTCTTTTAAGGTCGGAGCGAT
GGGATCTGTCGTCTCCTAGTGGCTCCGGCTAGTTGGTCTTTTCGGCCAATTTTAGTG
GAGGCCAATTAATTGA

Nucleotide

>AncEXPA-01

TGGGTCTATCTCTGTTCTGCAGGAGCAAGGTTTTGGCCTATCCTCTATAGTTGGTG
AGATGTCTCAAATGATTTAATTAATCTGCAATAAAAAAAAAAAGAAATGGAAAG
TAGAAAAATTTCTTGGAAGTCTCTAAATTTGGGGTTCAGTCCCATTCTAGGAGTTT
CTGCTGAAGTGCTGCTCGATTAGAGTTGTTCCGAAAAGCTATTAATAGCTTTTCCA
TTGGAACGATTATATTCCTGCTTTAGGAGAGAAGAAAATTCAAATTAGAAATTCT
GCTTCGAGCTCAAAGTTCATCTCATCATGCTTTGGTTGTTGGATTCTTAAAAGTA
GAGAATTTCCGAAGCTAGCAAAGTAATTGAAGTCAAATTAGAAATGAATTTTGTA
ATGGAATGAAATCATAATGAAAATGCCCGATTTTGTGGTTTGTTCGGTTTGCAC
GGAATAAGAAATAGTGAATGATTACGATTCCTAGGAATGAGGTGCGGGATTTTA
GGCTATGGTAAAAATCAAGAGATTCGTGCTCTCATCATTTGTTTGAAGAAAGTCG
ATCGGCAGGAGGATCATTCTGATTTCCATTCCAAATCAAATTCTTCCCCACTCTCA
TCATTTGTTTGTAAAAATCAGGAGATTCGCGCTCTCATCCCCGATTAAAGTCGGC
GGGATGATCATTCTGATTTCCATTCCAAATCAAATTCTTCCCCACATATATTCTCT
TTAAATTGCATATAAAATTGAAGGGGCCATGTGCATGTGCCCTTGTTTGGTGAAG
TGGTTTTGGAAGTGGTTTTATGTCAAGAAGCTCTCTCAAACGGTTTTGCATGTGAA
ATGCATCTTCTAATAATATGTTTGTCTTGCATTTTGCTTGACTTATTTTTCTGTTCT
TTTTATCCATAAAGTCCCAAGTGTGAGCTGAGTCAAATTTGCAAAAAGGAGGGT
TAAAACAAAAGAGCCCCGTTCAAATCTATTTATTCCTCCAAACTCCCTCCCCTTC
CCCAAGGAAATCAATTTTCTCTCCCCTCTCTATCTCTTAGCATTTCATCATTCCCAA
GTAATAATATTTCTCCACATGGCTTTATGCTTCTTAATTTTGAGGTGATCTTTTAG
TTCCTAAAATTATTCTTTTTTTGTTGTTGTTGTTCTCTATCATTGCAGGGAAAATGG
GTTCTGCTTGGATTTTGCTTATTGTTTCTCTCTCATTGCTCTCTATAGTAGTATGGG
TAATGGAGGAGGATGGTCCAGTGCCCATGCTTTTCTATGGTGGAAGTGATGCATC
TGGGAATGGGTTTGTCTCCACTTATGTTTTTCAAATAATGCTGTGTTATATTATATT
AGAAATCATTGCCCGTGTCTAGTGCATTCATGCATCTTGTTTCATGCTTTCAATTC
ACATCCATTTTTGGTGAATGCAAAGTCAATAGTTTCTTGGTTTATCAGTAAAAAT
GGGTATATATCGGTCCGTGATTCTCTTAATCTTCAGCCGCTGATTTTATATGTTTTC
TGTAGGCGGTCGTTTTGTAAGTAATTTCCATTTCTTGGATGGTTCATGGTAAATTT
TAGTGCATTATCCAGATAGTAGAGAATTTGTGCTATAAATGTATGGCAAGTATAA
AAATAATGTGTTATTTTGTGTTTTTTTTGGGGGTATATGCTTTGTAGGTGGGGCAT
GTGGGTATGGAAATCTATAGCCAAGGATATGGGTAAGCAGCTGAGCAGCTCTATT
CAAATGGGCAAAGCTGTGGGGCATGTTATGAGATGAGGTGTGTGAATGCAGATG
GTGTCTCCCTGGTTCCATTGTGGTCTGCCAATTGCCCCCAATATGCTCCCAAAT
GCAGGGGGGTGGTGCACCTCCCCTCCAATTTGCTCTCTCAGCCTGTTTTCCAGCA
AATTGCTCAGTATAGGGCTGGGATTGTCCCTGTTTCCCTATAGAAGGTGAGTATTTT
ATTTTGTTTTATTGTTTGTTTTTGGCTTAAGATTGTCATGTTCTTCTTTTTCTTGGAT
CTTCATAGTTCATGTAGTGTAGTGTATAAAAGAGAAGTATGTATTTATATATTTG
CAAATTATCCAATATATGTAGTCAAATCTCATAATTTTGAAGTTTCAATGCCTTT
CAAATGATTTCTTTTGTGTGTGTGTGTATATATATATATATCCTTGTTAGCAA
ATTGTCCCTAGTTTCTTAAAAGAGAGAGCTTTTGTGGTATTTTGTAAAGAAATCGG
TTTCGAAGGAATATATGAAAATTCAAATATTGCAGGTGTGGTAAATATAAGTAGA
TGATTTTGCAGGCATGAAAGGTAAAGGCTTTTGTCTCTCCTGGGCATTTTAGGCT
TTTTGCTCTTGTGTTGTTTCATGTTAAGAATCACTTAAGTGTTATCTAATATCTTCT
TCTGTCTTATTCTGATTAGGCAGAATAAACTACAGCTTGAAGCTATTTAGCCTTTC

AAGTGTTTCCAATAGCTAATTATCCCATATCAATAATAAAAAAGTGATCTTAGTA
GGTCACCCTTTGATCTTTTTTCTTCTCCTCTTTTCTCAAGCTATCATTTTTTCTTCTC
CTCAGCATGCAATGTCTTCTTCTGAATTTTTGAGAAAGACTTAAAAAGGATTATTT
TTTCAGGGTCTCTTGCAGGAAGAGAGGGGGAATAAGGTTCCATTAATGGCCTCTT
TTCAATCTAGTGCTGATCCAATGTTGGAGGAGCTGGAGATGTTTCATGCAGTTTCC
ATCAAGGGATCGAGGCAATTGGCACAATGTCGCGAATGGGGCCAAAATTGGCAG
AGCAGTTCTTATCTTGATGGCCAATCTCTCTTTTAAGGTCGGAGCGATGGGATCTG
TCGTCTCCTAGTGGCTCCGGCTAGTTGGTCTTTCGGCCAATTTTAGTGGAGGCCAA
TTAAATTGAACATAGTCATATTTCTTATGATCTGCTAAAGTTAGTAAATATATATA
TGTTAAGTTTGATTAAGCAGATAAGAAGGGCTCATTTTTGCGGCTTTTCGTATTAT
TATCAGATTAAATGTGGCTTTGTAGAAGGGTTTCTATGAAGCTTCTTAAGTGCTT
CAGGAGAAAAAGGGCTTCTCTTTGATTTGTAGTAATTGGCAGTGGTAGGATTTTC
GCCCCTGATCTTTCCTTTTTTCTTCTTTTCTTTTTTATTTGTGTGCTTTAGTATGCTG
AAAGGGTAAGCTCTGAAAGAGCTTCTTCCCAAGTTGTTTTAATGAGTTGGCTGT
TGAATGTATTGTTTAGTTTGTATCTATCATTGTTTTTTTCTTATATGAAGATCTAA
TGTTTGTATCAATTTTTCTTTTCTTTTCTTTTCATTTTCAGTAGTGA