

## IDENTIFICATION

**Species:** *Marchantia polymorpha*

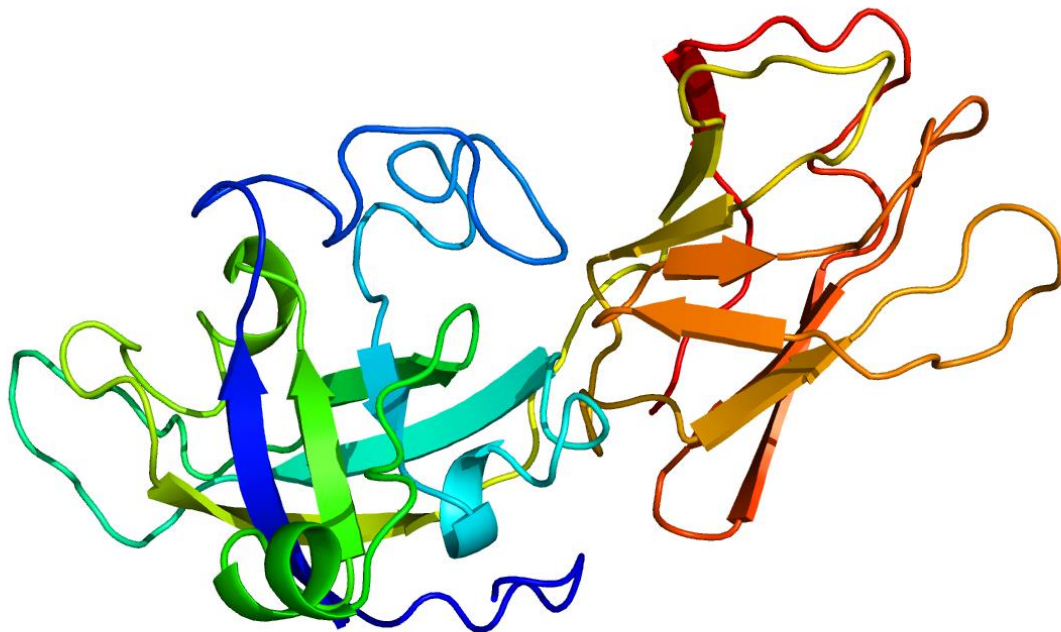
**Locus:** Mapoly0058s0021

**Gene Model:** Mapoly0058s0021.1.p

**Description:** MpoEXPA-14

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

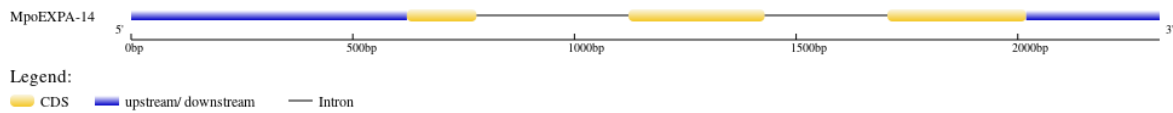
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Mpolymorpha\\_v3\\_1](https://phytozome-next.jgi.doe.gov/info/Mpolymorpha_v3_1)

KEGG:-

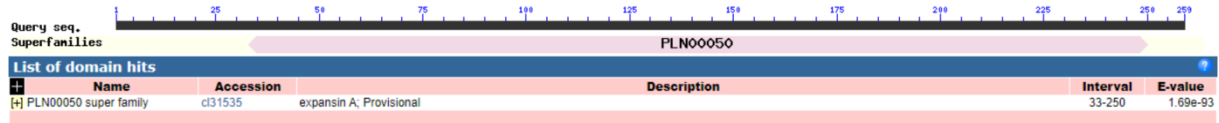
## EXTERNAL RESOURCES

<https://marchantia.info/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>MpoEXPA-14

MEAFKKLAVLLKALMLMFFRATLVDVQPWATTSWGNAHATFYGGNDASGTMGG  
ACGYGNLYSRGYGTATTALSNGLFNGLTCGACFTLVCKLDGSRWCYSGGKQITVT  
ATNACPPGSEGGWCDPPRLHFDLSYPMFQKLAQPVGGVIPVRYKRVPCVKQGGIRM  
SLYGNPWFYDYLVDLHNVAGGGDVA AVSIKGSKTNWVVMHQNWGQYWSASSYLVG  
QALSFKVTLGNGKSIVFWDIAPKNWQFGQTYEADNNQNF\*

### CDS (coding sequence)

>MpoEXPA-14

ATGGAGGCATTCAAGAACTCGCTGTCCTGCTTAAGGCTCTGATGCTTATGTTCTT  
CAGGGCCACTCTTGTGGACGCGGTGCAACCCTGGGCTACCACAAGCTGGGGCAAT  
GCACATGCAACTTTCTATGGTGGCAATGATGCATCGGGCACAATGGGTGGAGCTT  
GCGGTTATGGTAATCTCTATTCTCGGGGTTATGGAAGTGGTACCACCGCTCTGAGC  
AACGTTTGTTCACAACGGGCTCACCTGCGGAGCTTGTTCACGCTCGTTTGCA  
AGTTGGACGGAAGCAGATGGTGTCTATTCTGGGGGAAGCAGATCACTGTGACGG  
CCACCAATGCTTGTCTCCGGGTTCCGAAGGTGGCTGGTGTGACCTCCCCGTCTC  
CACTTCGATCTCTCCTACCCATGTTTCAGAACTTGCTCAGCCTGTCCGGTGGTGT  
CATCCCCGTGAGATACAAAAGGGTGCCTTGCCTCAAACAAGGAGGGATACGCAT  
GAGCCTGTATGGAAATCCCTGGTTCGACTATGTACTTGTCCACAATGTAGCAGGG  
GGTGGAGATGTGGCAGCTGTATCGATCAAAGGGAGCAAACCAACTGGGTCTGTC  
ATGCATCAGAACTGGGGACAGTACTGGTCCGCCAGTTCATACCTAGTCGGCCAGG  
CTCTCTCTTTCAAAGTGACTTTAGGCAATGGAAAGAGCATCGTATTCTGGGACAT  
CGCTCCCAAGAACTGGCAGTTTGGTCAGACTTATGAAGCCGACAACAATCAAAT  
TTTTGA

### Nucleotide

>MpoEXPA-14

CCCGATTAGCATCCCCTTGTATCCGAAGCCGCAAATTCCTGACCCGGATATATC  
AGGCACTGAGAATAATCTGCCAGCGAATATTTTCGATGCCTCTGAGGACGTACGT  
GTTGGAAACGAGCCCCAACACCCGACTCCCGACTCTGGCGGGGGAGGGGGCCTG  
GCTACTGTTGGGTTTCGTCGGGGGTTCAAGCGAGCGTCAAGCGCATCTGGAGGAG  
ATTATGTGCATTATGATTGTGTGCGTTCACAACGTTGAGAAAGGTGTTGCTCACGT  
TTGGGGAGCGGCTGCTCTTGGGCATGGATGGCAAAGCGCTGATCGGCGAAGCC  
ATTGACTTTCTATTAGTATTCTCAGCTCCACCGCTTTTCTAATTTCTTGGGATCTAC

TACTGACTGATCAAAAGTCAGAATCATTTGTCTATCTACTTGGACCCCGAGCAGT  
ATTCCC GCGAGTTGACAGCCATCACGATTTTCGCTGTTGAATTCTCACTGTTCCAT  
GCTTCCTACTCCTGGTATAAAGATGGGCCTCCCGACTTCTCAAATCCAATGCAAGG  
TTCGGTCTCAATTCCACTCTCAAGGCGTCTGCCGAGGTCCGGTTGTATTAGCTGAA  
GGCCAGATAAAGAGATGGAGGCATTCAAGAACTCGCTGTCCTGCTTAAGGCTCT  
GATGCTTATGTTCTTCAGGGCCACTCTTGTGGACGCGGTGCAACCCTGGGCTACC  
ACAAGCTGGGGCAATGCACATGCAACTTTCTATGGTGGCAATGATGCATCGGGCA  
CAATGGGTGAGCCTCCTTGTATTCTTAACCTCCAGATTTCTGCAATTTGACATTT  
ACAAACCCGATTTTTTTTGTGAAAGAATTGTTTCATCATCGCATCTGACATACAGAA  
TTTTGCAGCCATCCCCTGAGTGACAAAGAATCACAGTAATCCCCGACCGCATTG  
TACTCATCGAGAGTCTGATACAGTCGTCGCAACAATTGATTCTCATATGAAACCG  
ACGGAATTCTGTGATGATTTGGGTCTTACTGGAAATATATGGCAATCTCGTAGGC  
AATTCAGCATCATATCAAAGTCTCTTGAATTTATCCTGCAAGCGTGCTTACCGAG  
ATCTGAACTGGATTGCAGGTGGAGCTTGCGGTTATGGTAATCTCTATTCTCGGGG  
TTATGGAAGTCTACCACCGCTCTGAGCAACGGTTTGTTCACAACGGGCTCACC  
TGCGGAGCTTGTTCACGCTCGTTTGCAAGTTGGACGGAAGCAGATGGTGCTATT  
CTGGGGGGGAAGCAGATCACTGTGACGGCCACCAATGCTTGTCTCCGGGTTCCGA  
AGGTGGCTGGTGTGACCCTCCCCGTCTCCACTTCGATCTCTCCTACCCATGTTTC  
AGAACTTGCTCAGCCTGTCGGTGGTGTATCCCCGTCAGATACAAAAGGTAATT  
TCTTAGTACTACGACAGTTACATCAATTCTCTAATTGATGAATTCTCTAGATCTGT  
ATTTCCCTGTCCGATTTCGATGTCTTTATCTCTCTCGCCACCAGCTGATGGTAACTG  
CATAACGTGGTACCACAACCATGATCATATTTCAATTATCTTCGAAAGAAATACT  
TGACAATTTTGACGTGTGTTTTCTGTGGAAGTTGAGTTAAACAATCTTTTTGTCCTT  
TGACTTCGGAGATATTCACTAACAGATTTTCTCTTGTTCATCGGCAGGGTGCCTT  
GCGTCAAACAAGGAGGGATACGCATGAGCCTGTATGGAAATCCCTGGTTCGACT  
ATGTAATTGTCCACAATGTAGCAGGGGGTGGAGATGTGGCAGCTGTATCGATCAA  
AGGGAGCAAACCAACTGGGTCGTCATGCATCAGA ACTGGGGACAGTACTGGTC  
CGCCAGTTCATACCTAGTCGGCCAGGCTCTCTCTTTCAAAGTGACTTTAGGCAATG  
GAAAGAGCATCGTATTCTGGGACATCGCTCCCAAGAACTGGCAGTTTGGTCAGAC  
TTATGAAGCCGACAACAATCAAATTTTTGAGGTTACTTTAGTAGTTGAACATCT  
GGTGAAGTTCGACACTATCCAAAACAGAAGAGGTGTGTACAGTTCAGAATGAGC  
GCCCTCTGTTGCTTTCAATACATACACCAGTGAAGTCAGTATGCAGCACGTGAGC  
ACAGAACAGAAGAGGCGTGTATATACCAAAGACGCCACTGTCAGTCTTACAAT  
CCTACAGATAGGATCATGCTTTCAGTCTCAGTTTCCTTGGAAAGTCATCTACTTCAC  
TTGTAATTTAAGCTTCATATACTAAGA ACTTCAGGAGATACTTGGCAGTATCAAT  
CT