

## IDENTIFICATION

**Species:** *Marchantia polymorpha*

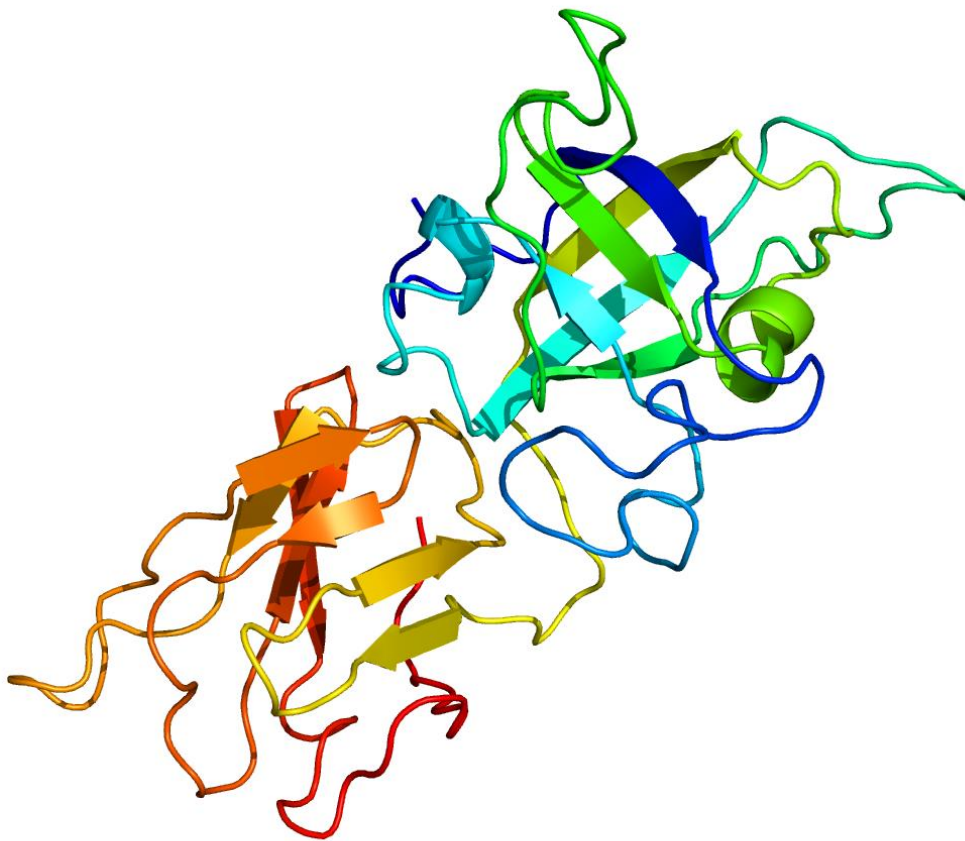
**Locus:** Mapoly0161s0011

**Gene Model:** Mapoly0161s0011.1.p

**Description:** MpoEXPA-36

**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:-

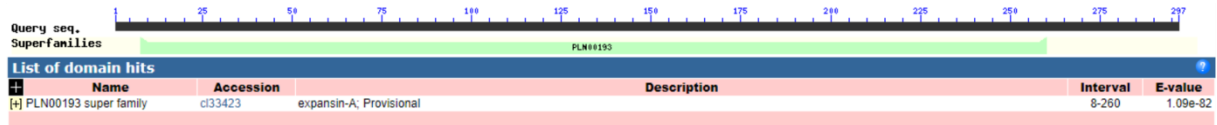
## EXTERNAL RESOURCES

<https://marchantia.info/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>MpoEXPA-36

MTGSFKMASGLFLSAMMLLSIAPISVSAEAFARTWTDSHATWYGGKDGAGTMG  
GACGYGNMNRGYGMKTAALSTKLFNDGFTCGACFEIRCKSSQSKYCYSSSTASVIVT  
ATNYCPANPNRPTDGWCNGDRTHFDLTYQMFTTLAIYEAGIIPVQYRRVPCA KGGI  
RFTINGNPNFNLILLSNVGGSGNVVSVQMKGENSYSGWVPMKQNWGQMWECGTKV  
TGQISIFKVTVGYGQTFTFWTVAPKTWQFGQTYEASSNVNDSWDNNDGNSKFN  
NGYNGGNQWWRGW RN\*

### CDS (coding sequence)

>MpoEXPA-36

ATGACAGGGTCCTTTAAGATGGCCTCAGGGCTTTTTCTGAGCGCAATGATGCTTTT  
GAGCATCGCACCGATTAGTGTCTCTGCAGCAGAGGCTTTCGCGGCCAGA ACTTGG  
ACAGACTCACATGCAACATGGTATGGAGGGAAGGATGGTGCGGGCACCATGGGA  
GGAGCATGCGGCTACGGAAACATGAACGCTAGAGGCTATGGGATGAAGACTGCT  
GCACTGAGCACAAAATTGTTCAACGATGGATTCACCTGCGGAGCATGTTTTGAAA  
TCAGGTGTAAGTCAAGTCAGTCGAAGTACTGCTACTCCAGTACAGCATCTGTCAT  
CGTAACCGCCACCAACTACTGCCCTGCCAATCCCAACAGACCCACCGATGGTTGG  
TGCAATGGTGACAGGACTCACTTCGACCTGACATAACCAGATGTTTACAACCCTGG  
CCATTTATGAAGCTGGAATCATCCCTGTCCAGTACCGAAGGGTCCCATGTGCCAA  
GAAAGGTGGGATTCGTTTTACGATAAACGGGAATCCTAATTTCAACCTTATTCTTC  
TGAGCAACGTCGGAGGATCTGGGAACGTGGTATCCGTTCAAATGAAGGGTGAGA  
ACTCTTACTCCGGGTGGGTCCCATGAAGCAGAATTGGGGCCAGATGTGGGAGTG  
TGGCACAAAAGTGACCGGACAGAGTATATCCTTCAAGGTCACCGTGGGTTATGGA  
CAGACATTTACTTTCTGGACTGTTGCTCCGAAAACATGGCAATTCGGTCAAACAT  
ACGAGGCCAGCAGCAACGTCAATGACTCGTGGGACAACAACGACGACGGGAGCA  
ATTCCAAGTTCAATGGAACAACGGATACAATGGAGGAAACCAATGGTGGAGAG  
GCTGGAGAAATTAG

### Nucleotide

>MpoEXPA-36

CACACACACACACACACACACACACACACAGAACCTTGCAGTACCCTCGCGCTCT  
CCTCTTGAATTCAGAAGCTAGATTCGGACCAGTCATCTGCTTTCGAGTGCTGATTC  
AGGTAATTTTATATGAAATATCCTGGTCTGTAGTAGTACTCCAGACAAAGTTCTTT  
CTACCCATTGCTTAACAAGTTTCTTGGTAGTATGTGTAGAAATCGATAGCGAGAG

TTTTCTGAGGATTCAGCATTGGACCACCCTCTAGGCAGTTCATTCCCTTCATCTAGT  
GCTTCTCAAAATTTGTGCGACGTTTTCTCGATCTTCTCCAAAGACTAAGTAGAATA  
CTCAAGTGAACTAGATTTCTTTCTTCTTCAAAGCCCTTAGAGAAACCTGAGGAT  
AGTACAGGTTATTCAGTAATTTCCAGAGCATCACGCTGCTTCCTGTTTCCTGAAG  
AGCTTGAAGGTCCTTCTTATGACACAGTCTCAAACCATCGTCTTCATAGATACTTA  
GAGCTAAGAGAATAGTTGGTACCACGAAATATCAGTCTGAAAAATTCTATCTACT  
GAATTTTCACTGCTGATCACTTTGCATTGCAGATGACAGGGTCCTTAAGATGGCC  
TCAGGGCTTTTTCTGAGCGCAATGATGCTTTTGAGCATCGCACCGATTAGTGTCTC  
TGCAGCAGAGGCTTTCGCGGCCAGAACTTGGACAGACTCACATGCAACATGGTAT  
GGAGGGAAGGATGGTGCGGGCACCATGGGTAAGTCAATTTCTGGCTTATAACTG  
GACCGGATCTAGAGCATTGCTTCGACATATCGAGAGGCAGTTTCATATGTATGG  
CCAATTACAAGTTTTTCTTCCATTCGGATGCGCATGATGGACTAGCCTAATGTCAA  
GACTCGATATGCAGGAGGAGCATGCGGCTACGGAAACATGAACGCTAGAGGGCTA  
TGGGATGAAGACTGCTGCACTGAGCACAAAATTGTTCAACGATGGATTCACCTGC  
GGAGCATGTTTTGAAATCAGGTGTAAGTCAAGTCAGTCGAAGTACTGCTACTCCA  
GTACAGCATCTGTCATCGTAACCGCCACCAACTACTGCCCTGCCAATCCCAACAG  
ACCCACCGATGGTTGGTGCAATGGTGACAGGACTCACTTCGACCTGACATACCAG  
ATGTTTACAACCCTGGCCATTTATGAAGCTGGAATCATCCCTGTCCAGTACCGAA  
GGTATGAACGAAGAAGCTCATGTGGGTTGCATTTATGTCCATTGATAAAAAATGC  
TTCGAATTCAGAAGATTATCCATCAAGCCCATCTTCAAATCGTCTGAATTGTTGC  
ACGTTTTAAACCACTTTGAAAATATATCATCACCTGGTTCAAGACTTTGCATTATG  
GTGATATGCATATTCCTCTACATTCTATTCGCTCCAGTGCATGACTACTCGATTAT  
CCTGAATGAATGTCTTGTCGTTGTCATCCGCAGGGTCCCATGTGCCAAGAAAGGT  
GGGATTCGTTTTACGATAAACGGGAATCCTAATTTCAACCTTATTCTTCTGAGCAA  
CGTCGGAGGATCTGGGAACGTGGTATCCGTTCAAATGAAGGGTGAGAACTCTTAC  
TCCGGGTGGGTTCCCATGAAGCAGAATTGGGGCCAGATGTGGGAGTGTGGCACA  
AAAGTGACCGGACAGAGTATATCCTTCAAGGTCACCGTGGGTTATGGACAGACAT  
TTACTTTCTGGACTGTTGCTCCGAAAACATGGCAATTCGGTCAAACATACGAGGC  
CAGCAGCAACGTCAATGACTCGTGGGACAACAACGACGACGGGAGCAATTCCAA  
GTTCAATGGAAACAACGGATACAATGGAGGAAACCAATGGTGGAGAGGCTGGAG  
AAATTAGAATCGACATAAGTGGAGAGCTCTAACCAAAGGAATGAGAACACCAAT  
CATAGAGTCAATCTGTGAGTGTGGTTTTGGAATTATGTTTTTGCTCACAAGCGAA  
GGTGTGCGAACTGCACGTGGCTGAACACTTCTGAATCCTTTTCTGAATCCCTGAG  
TGCTGCCTACGCCGATTGAAATGTCATCTTTGGCATACTCGTGATTACGAGGCAA  
TCCATGGCACGAACATCTTGGAGCGACCAGGTCTAGAATAGTGGTCTACTTCAA  
GCTCCTATAGTGAATGTCCAGCAGATTGGTGAACCTCAGAGGGGGACACAACAAC  
AGTGAATTCAGCTGATTCAACACGTTGACACTGAGCTTATCAGAAGTTACTTCAC  
AAACATTTATGAAATTAGATATTAGGAGTTCATTTGTAGACAGATATATTAAT  
CCCCTCGAAAAGAGGCAGAAGGTGGAACTTGAACCCACCAGCTTAAATACAGT  
TCGGATATTCGTCCAGTTATCACCAGATGAATGATAGCAGCCAGGGTCCATGGCA  
GGCCTACCAGACAGGCTATAGAATCTGATGCTGGTAAGACAGAGGGAGGCACAC  
TTTCTTCACATGAAGGTGGTTACAGTAGAAGTCCCAGAATTTGTGTTGGAGGTCT  
AGAGAGATTGATAAAGGTCATGAGGAGTATGTTGTATGTAGAGGTGTCATGAGCT  
GGAACCTCAACTGGACGAGACTTACAGCTTCTGGGTATGTGAGCTGGTCCGGAAC  
AGTCTGCGCATGATACATGTCATTTGCGCACGACTGTCAGGTGAATTCGCGCCAC  
CTTCATCGCTGGAGCTGGCGGTATCATGCTTAGTTAGTGAATGAATACACATGTA  
CAATGACTCCGGTGGCGAAGGACGTTTCTTGGCCTTTGCTGCCTGACCATCCCAA  
ATCTATCTCTGACTATTCATGTCATTGTGTTCTGATCCTTGAGCACTTCCCAATC  
CGCATTTGTTTTCATGCATGATAGAGCATTCTTGGCGGCTGTATCCAGTTCAATCA  
TTATAATCCCGAGCCTCCCTGTGTTCTCCGGTTTTTTAACTAGTTCTATTTTCGT

