

## IDENTIFICATION

**Species:** *Mimulus guttatus*

**Locus:** Migut.L01949

**Gene Model:** Migut.L01949.1.p

**Description:** MgEXPA-18

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Mguttatus\\_v2\\_0](https://phytozome-next.jgi.doe.gov/info/Mguttatus_v2_0)

KEGG:-

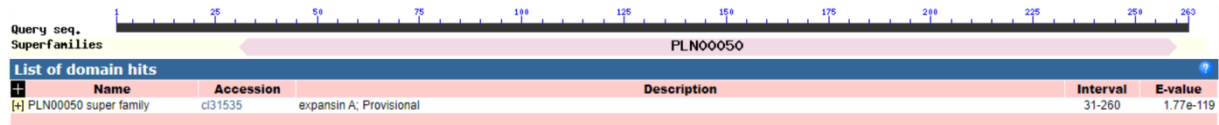
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>MgEXPA-18

MAAAATLLLYIGSILCFITTAARAKIFGVYAGGPWQNAHATFYGGSDASGTMGGACG  
YGNLYSQGYGVNTAALSTALFNGLSCGACFEIKCDAAQDSKSCNPGSPSILITATNF  
CPPNNALPNDNGGWCNPPRTHFDLAVPMFIKIAEFRAIVAVNYRRVACRKQGGVRF  
TVNGSKYFNLVLITNVAGAGDIVRVSIGTNTQWLTMSRNWGWQAWQSSSVLVGQAL  
SFRVTGSDGRTSTSMNVAPPNWQFGQTFTGKNFRV\*

### CDS (coding sequence)

>MgEXPA-18

ATGGCAGCTGCAGCGACATTGCTTCTCTACATTGGCAGCATCCTCTGCTTTATTAC  
AACTGCTCGCGCCAAAATCTTCGGTGTCTACGCCGGCGGCCCTGGCAGAACGCC  
CACGCCACCTTCTACGGCGGAAGCGACGCCTCCGGCACCATGGGTGGTGCCTGCG  
GGTATGGGAATCTGTACAGCCAGGGCTACGGCGTGAACACGGCGGCGCTAAGCA  
CGGCGCTGTTCAACAATGGGCTGAGCTGTGGTGCATGCTTCGAGATCAAGTGCGA  
CGCGGCGCAGGACTCCAAGTCGTGCAACCCGGGCAGCCCCTCCATTCTTATTACC  
GCCACCAACTTCTGCCCCGCTAACACGCGCTGCCAATGACAACGGCGGCTGGT  
GCAACCCACCTCGCACGCATTTTCGATCTCGCCGTGCCATGTTTCATCAAGATCGC  
CGAGTTCCGCGCCGGCATTGTCGCCGTTAACTATCGCCGGGTGGCGTGCAGAAAG  
CAAGGCGGGGTCAGATTCACAGTCAACGGCTCCAAGTACTTCAACCTGGTTCTGA  
TCACCAACGTCGCGGGTGCAGGTGATATCGTGAGGGTGAACATAAAAGGTACAA  
ACACACAGTGGTTGACCATGAGCCGCAATTGGGGCCAAGCTTGGCAATCCAGCTC  
CGTTCTTGTGGGCCAGGCCTTGTCTTCAGAGTCACCGGCAGCGATGGCCGTACA  
TCTACTTCCATGAACGTGGCACCCCTAATTGGCAGTTCGGCCAGACCTTCACCG  
GCAAAAATTTCCGCGTCTAG

### Nucleotide

>MgEXPA-18

CCCCTCCATCTTCTCCTGATTCTTCTACATTCGCCCCCAAATCCTTCACTTTCTCT  
CTCTAAACACACCTCTACTTACTCCCCTCTTTCTTCTCTCTAGCTTAACTTTT  
CAAAATTTAAATCCATAATCGGAAAAGTGAGAAAATGGCAGCTGCAGCGACATT  
GCTTCTCTACATTGGCAGCATCCTCTGCTTTATTACAACCTGCTCGCGCCAAAATCT  
TCGGTGTCTACGCCGGCGGCCCTGGCAGAACGCCACGCCACCTTCTACGGCGG  
AAGCGACGCCTCCGGCACCATGGGTACTAATTAATTAATATATTTATTAATTATTG  
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TTAAGGTGGTGCGTGCGGGTATGGGAATCTGTACAGCCAGGGCTACGGCGTGAA  
CACGGCGGCGCTAAGCACGGCGCTGTTCAACAATGGGCTGAGCTGTGGTGCATGC  
TTCGAGATCAAGTGCGACGCGGGCGCAGGACTCCAAGTCGTGCAACCCGGGCAGC  
CCCTCCATTCTTATTACCGCCACCAACTTCTGCCCCCCTAACAACGCGCTGCCAA  
TGACAACGGCGGGCTGGTGCAACCCACCTCGCACGCATTTTCGATCTCGCCGTGCC  
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GGTAATTTGAAGCTTCATGTTTTTTTATTCTCTTGTGAATTGACCATTTTGTCTCTA  
GTCGTTGGCATTACTCCGCTCACATTTTCCTAAAATGTTGGGCATATGTGGGTTTT  
CACACTATTTTGAAAACCTTGACGAAAATACCCCCATTTTTCCTCAATTGATATGGG  
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TCCATCATCATTAGCTCATTATGCCAGTCCATTGGGTTATTGTCACGTGACCAAAC  
TCTATTTATTATATTATAATGATTA AAAACTGATTA AAAAAGAAAATGTAATTGTT  
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TCCAAGTACTTCAACCTGGTTCTGATCACCAACGTCGCGGGTGCAGGTGATATCG  
TGAGGGTGAGCATAAAAGGTACAAACACACAGTGGTTGACCATGAGCCGCAATT  
GGGGCCAAGCTTGGCAATCCAGCTCCGTTCTTGTGGGCCAGGCCTTGTCTTCAG  
AGTCACCGGCAGCGATGGCCGTACATCTACTTCCATGAACGTGGCACCCCCTAAT  
TGGCAGTTCGGCCAGACCTTCACCGGCAAAAATTTCCGCGTCTAGAATTTTTATTT  
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CTTTTAATTCTCCTTTTTTTTTATTTTATTA AAAAGAGAGTGTGGTGGCTGAAGCGG  
CTAACGGAAAATAGATGTAGCCCGCAGCTTCAAATTATTATTAATGTAATTGATA  
TAATTCATATTTT