

## IDENTIFICATION

**Species:** *Zostera marina*

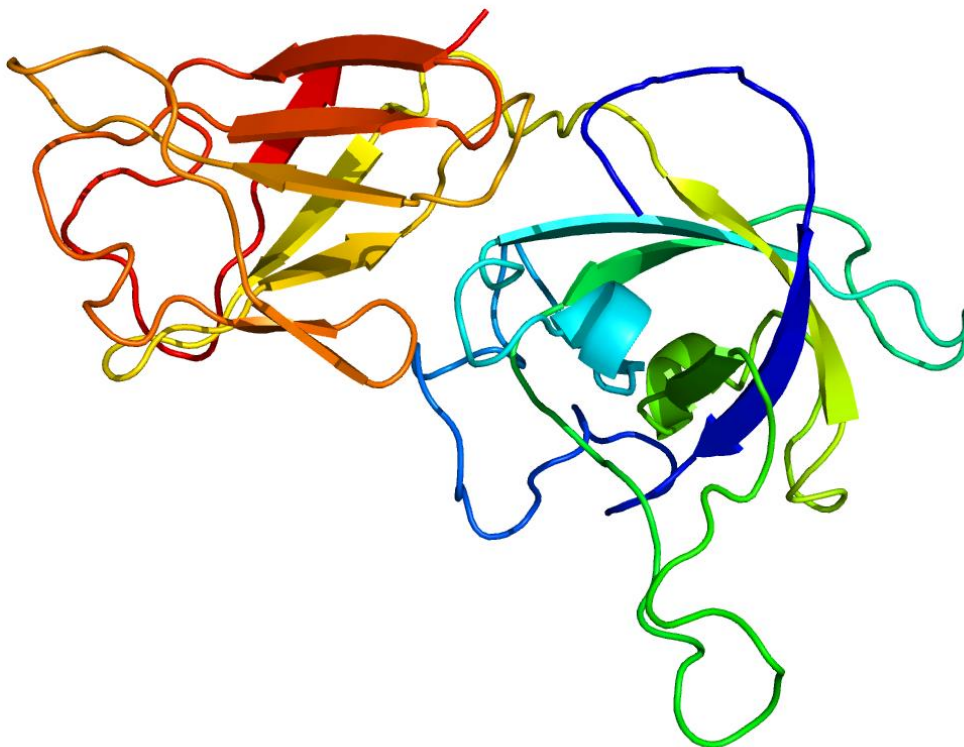
**Locus:** Zosma155g00030

**Gene Model:** Zosma155g00030.1

**Description:** ZmrEXPA-11

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

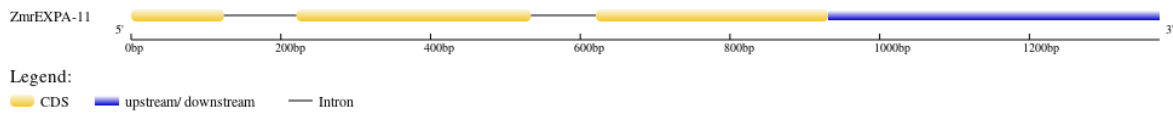
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Zmarina\\_v2\\_2](https://phytozome-next.jgi.doe.gov/info/Zmarina_v2_2)

KEGG:-

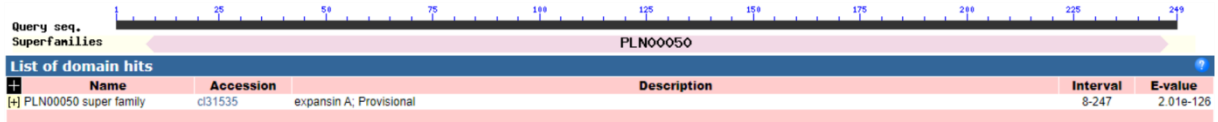
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>ZmrEXPA-11

MAIAASSVAFFLLLSIYSVNAADWQSAHATFYGGGDATGTMGGACGYGNLYSQGY  
GDTAALSTVLFDSGLSCGSCYEMQCRGEQKWCLPGTITVTATNFCPPNPSKPN  
DNG  
GWCNVPRQHFDLAEP AFLKIARYRAGIVPVA YRRVSCVKKGGIRFTINGHSYFNLVLI  
TNVAGAGDVRAVSIKGSKSGNWQSMSRNWQNWQSNAYLNGQTL SFRVTTSDGKT  
VESNNAVSSDWEFGKTYEGAQFN\*

### CDS (coding sequence)

>ZmrEXPA-11

ATGGCAATTGCTGCATCCTCCGTTGCATTCTTCCTTCTCCTTTCCATCTACAGCGTC  
AATGCCGCCGACTGGCAGTCCGCCACGCCACTTTCTACGGCGGAGGCGATGCTA  
CCGGGACTATGGGTGGAGCTTGTGGGTATGGGAATTTGTACAGTCAAGGCTACGG  
AACAGACACGGCGGCTCTGAGCACGGTTTTGTTTCGATAGTGGTCTGAGTTGTGGA  
TCGTGCTACGAGATGCAATGCCGAGGTGAACAGAAATGGTGCTTGCCAGGTACA  
ATCACAGTCACCGCCACAACTTCTGCCACCAAACCCGTCCAAACCTAACGATA  
ACGGCGGTTGGTGCAACGTTCCAAGACAACATTTGACCTCGCCGAACCCGCCTT  
CCTCAAGATCGCCCGTTACCGTGCCGGCATCGTACCCGTCGCTACCGAAGGGTC  
TCGTGTGTGAAGAAGGGAGGAATAAGGTTACGATCAATGGACACTCTTACTTCA  
ACCTGGTCCTGATACCAACGTGGCCGGCGCAGGTGACGTGCGAGCCGTTTCGAT  
CAAGGGTTCGAAGAGTGGGAATTGGCAATCCATGTCAAGAACTGGGGACAGAA  
CTGGCAGAGCAACGCATACCTCAACGGACAGACTCTGTCCTTCAGGGTCACTACC  
AGCGACGGCAAGACTGTGGAGAGCAACAACGCGGTTTCATCCGATTGGGAGTTC  
GGTAAAACCTATGAAGGCGCACAGTTCAATTAG

### Nucleotide

>ZmrEXPA-11

ATGGCAATTGCTGCATCCTCCGTTGCATTCTTCCTTCTCCTTTCCATCTACAGCGTC  
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GGGATGAATTTATTCTAACTAGTATTTCAATTGATTGATGGATTGTTTGATCAGGTG  
GAGCTTGTGGGTATGGGAATTTGTACAGTCAAGGCTACGGAACAGACACGGCGG  
CTCTGAGCACGGTTTTGTTTCGATAGTGGTCTGAGTTGTGGATCGTGCTACGAGAT

GCAATGCCGAGGTGAACAGAAATGGTGCTTGCCAGGTACAATCACAGTCACCGC  
CACAACTTCTGCCACCAAACCCGTCCAAACCTAACGATAACGGCGGTTGGTGC  
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GTTACCGTGCCGGCATCGTACCCGTCGCCTACCGAAGGTAAAAATAAAATAAAA  
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AATGGACACTCTTACTTCAACCTGGTCCTGATCACCAACGTGGCCGGCGCAGGTG  
ACGTGCGAGCCGTTTCGATCAAGGGTTCGAAGAGTGGGAATTGGCAATCCATGTC  
AAGAACTGGGGACAGAACTGGCAGAGCAACGCATACCTCAACGGACAGACTCT  
GTCCTTCAGGGTCACTACCAGCGACGGCAAGACTGTGGAGAGCAACAACGCGGT  
TTCATCCGATTGGGAGTTCGGTAAAACCTATGAAGGCGCACAGTTCAATTAGGAT  
TTAGGGGAGAGATCGGTCGGCACCATCGATCCACCATAACCTAATTGGTTAATT  
TACCTATATACACCCATATGTACCTTAAATACCTATATCTATTTTGAGAAAGCTGT  
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TTTAGGCTCATCATGTAGATTAGATGTGATCGGCCGAACCTCACGTGAAATTTCGA  
TGAGGTCAGTGTCGGTCCATATATACATGATTTACTATTTGTAGTCTAGTGTCGTG  
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CTTCCTCAACTCCTCTTGTGATCTATTAATAAATGAACAAGTGACAGTTTA