

## IDENTIFICATION

**Species:** *Zostera marina*

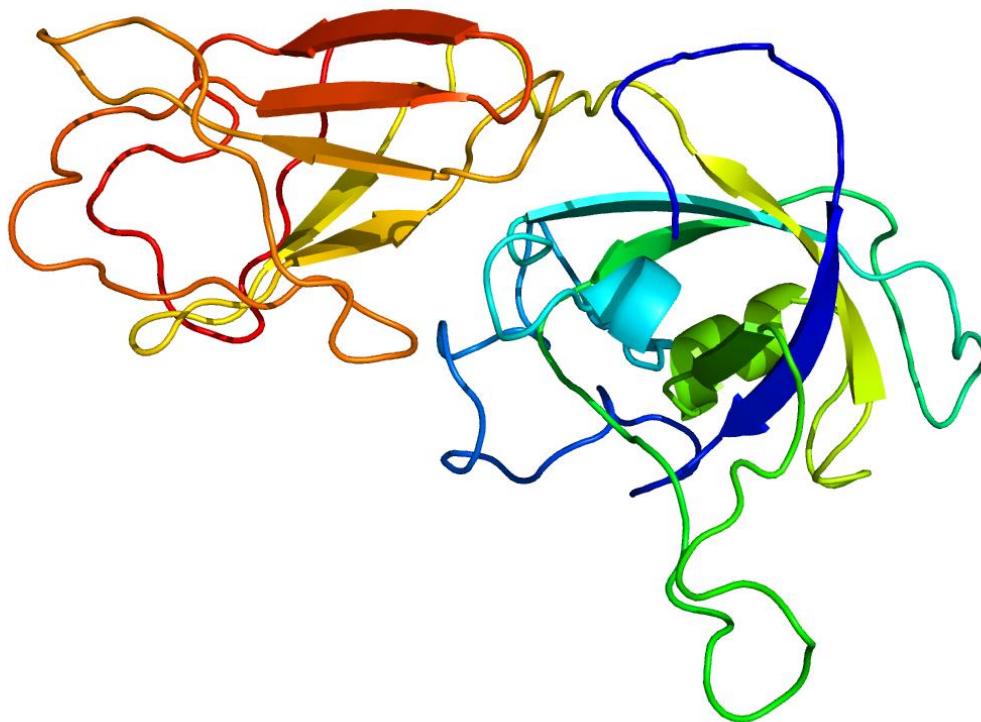
**Locus:** Zosma117g00160

**Gene Model:** Zosma117g00160.1

**Description:** ZmrEXPA-09

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

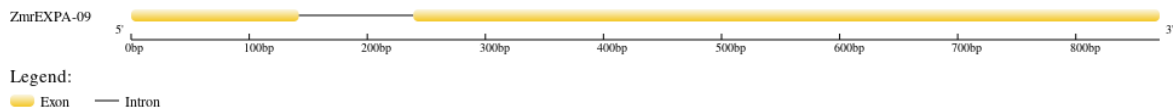
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Zmarina\\_v2\\_2](https://phytozome-next.jgi.doe.gov/info/Zmarina_v2_2)

KEGG:-

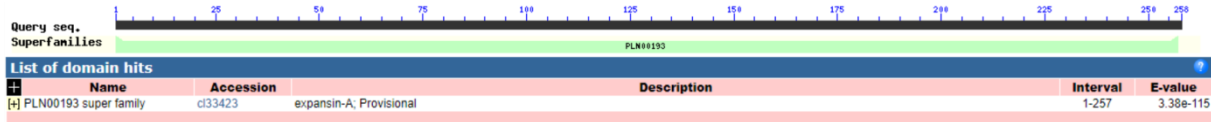
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>ZmrEXPA-09

MMFMTIFLFITTVFFSLAFPTTVGASYSGWSRAHATFYGGRDGSMTMGGACGYGNL  
YKRGYGLKTAALSSTLFNHGASC GG CYQIVCDAIKSPKWCRKRKHITITATNFCPPNP  
ALPNNNGWCNTPRKHFDM SQPAWESIAIYKAGIVPVYYRSVECRKGGVRF TINGR  
NYFELVLVSNVAGVGSVKAVWIKGSKKRGWKAMSRNWGANWHS LDDL R G Q R L S F  
RVQLTDGRIKTMNNVAPSNWSFGMTYTSNVQF\*

### CDS (coding sequence)

>ZmrEXPA-09

ATGATGTT CATGACTATATTTCTATTCATCACTACCGTATTTTTCTCTCTCGCCTTT  
CCGACCACCGTAGGAGCTTCTTATTCTGGTTGGTCTCGTGCTCATGCCACATTCTA  
CGGAGGCCGTGATGGCTCTGGA ACTATGGGCGGGGCATGTGGATACGGTAATCTC  
TACAAAAGAGGATACGGACTGAAGACGGCAGCATTGAGCAGCACTCTATTCAAC  
CATGGAGCCTCCTGTGGAGGTTGCTACCAGATAGTCTGTGATGCGATCAAATCCC  
CCAAGTGGTGCCGGA AAAAGAAAACACATCACCATAACCGCCACAAATTTTTGCC  
ACCGAACCCAGCTCTCCCAACAACAACGGAGGGTGGTGCAACTCCTCGGAA  
GCATTCGACATGTCTCAACCGGCATGGGAGTCAATTGCGATCTACAAGGCAGGT  
ATAGTCCCTGTGTACTACAGGAGTGTCTGAGTGTCTCGTGGAAAGGTGGTGTGAGGT  
TACTATCAACGGAAGGA ACTACTTCGAACTTGTCTAGTCAGCAACGTCGCCGG  
AGTTGGGAGTGTCAAGCGGTGTGGATCAAGGGTTCCAAGAAGAGGGGGTGGAA  
GGCCATGTTCGAGGAATTGGGGCGCAATTGGCATAGCTTGGATGATCTGAGGGG  
TCAGAGATTGTCATTTAGGGTGCAACTTACTGATGGGAGAATCAAACTATGAAT  
AACGTGGCACCTTCTAATTGGTCGTTTGGAAATGACTTATACTTCCAATGTCCAATT  
TTAA

### Nucleotide

>ZmrEXPA-09

ATGATGTT CATGACTATATTTCTATTCATCACTACCGTATTTTTCTCTCTCGCCTTT  
CCGACCACCGTAGGAGCTTCTTATTCTGGTTGGTCTCGTGCTCATGCCACATTCTA  
CGGAGGCCGTGATGGCTCTGGA ACTATGGGTACGTGAAATTAATGCATGTGTAGT  
GTTTTTCTTTCGAAACTCGATCTTAATTAATTAATACTTAATTATTCTAAATG  
GACATACGTGTTTAGGCGGGGCATGTGGATACGGTAATCTCTACAAAAGAGGAT

ACGGACTGAAGACGGCAGCATTGAGCAGCACTCTATTCAACCATGGAGCCTCCTG  
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AAAAGAAAACACATCACCATAACCGCCACAAATTTTTGCCACCGAACCCAGCTC  
TCCCCAACAAACGGAGGGTGGTGCAACACTCCTCGGAAGCATTTCGACATGTC  
TCAACCGGCATGGGAGTCAATTGCGATCTACAAGGCAGGTATAGTCCCTGTGTAC  
TACAGGAGTGTCGAGTGTCGTCGGAAAGGTGGTGTGAGGTTTACTATCAACGGAA  
GGA ACTACTTCGAACTTGTTCTAGTCAGCAACGTCGCCGGAGTTGGGAGTGTCAA  
GGCGGTGTGGATCAAGGGTTCCAAGAAGAGGGGGTGGAAAGGCCATGTCGAGGAA  
TTGGGGCGCGAATTGGCATAGCTTGGATGATCTGAGGGGTCAGAGATTGTCATTT  
AGGGTGCAACTTACTGATGGGAGAATCAAACTATGAATAACGTGGCACCTTCTA  
ATTGGTCGTTTGGAAATGACTTATACTTCCAATGTCCAATTTTAA