

## IDENTIFICATION

**Species:** *Zostera marina*

**Locus:** Zosma1g02850

**Gene Model:** Zosma1g02850.1

**Description:** ZmrEXPA-01

**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:-

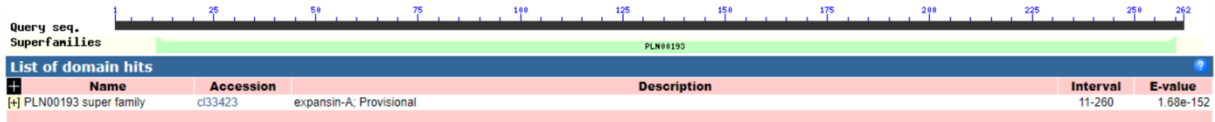
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>ZmrEXPA-01

METGTILRMSFLNLFILCLFLLPRNVHSFSPSPWKKASATFYGGKDASGTMGGACGY  
GNLYSAGYGTRTAALSTALFNDGSPCGQCFRLVCDYKNDRKWCRKGTSVTITATNF  
CPPNFAQANDNGGWCNPPREHFDMA YPAWEKIGIYRGGIVPVMYQRPCKKHGGV  
RFTVNGRKYFELVLVSNVGGCGSIKSMSIKGSKTGWTSMSRNWGANWQSNGQLGG  
QSLSFKLTICDGKTLVFNNIVHSSWSFGQTFSSSLQFD\*

### CDS (coding sequence)

>ZmrEXPA-01

ATGGAACCGGTACCATTCTTAGAATGTCATTCCTCAATCTTTTCATCCTCTGCCT  
CTTCTTACTGCCCAGAAATGTTCACTCCTTCTCTCCCTCCCCGTGGAAGAAGGCTT  
CAGCCACTTTCTACGGCGGAAAGGATGCATCTGGAACAATGGGTGGAGCTTGTGG  
GTATGGTAATTTGTACTCCGCCGATATGGCACGAGAACGGCGGCTCTGAGTACT  
GCCCTGTTCAACGATGGATCACCTTGCGGCCAGTGCTTTAGGCTTGTCTGTGATTA  
CAAGAACGATCGGAAATGGTGCCGAAAGGTACGTCGGTAACAATAACGGCGAC  
AAATTTCTGCCACCTAATTTGCCCCAAGCTAACGACAACGGTGGGTGGTGCAAC  
CCTCCACGTGAGCACTTCGACATGGCATAACCTGCTTGGGAGAAGATCGGAATCT  
ATCGCGGCGGTATCGTTCCCGTCATGTACCAACGAGTACCATGTAAGAAACACGG  
CGGAGTACGGTTCACCGTGAACGGAAGAAAATACTTCGAACTGGTACTGGTAAG  
CAACGTCGGTGGATGTGGGTCGATCAAATCTATGTCCATAAAAGGATCTAAGACA  
GGATGGACATCTATGTCTAGGAATTGGGGAGCCAATTGGCAATCCAATGGTCAAC  
TCGGAGGTCAATCTCTTTCACTCAAACCTCACCATCTGCGATGGGAAAACCCTTGT  
TTCAACAACATAGTTTCATTCCAGTTGGTCATTTGGTCAGACCTTCAGTAGTTCCTT  
GCAATTCGATTAA

### Nucleotide

>ZmrEXPA-01

ATGGAACCGGTACCATTCTTAGAATGTCATTCCTCAATCTTTTCATCCTCTGCCT  
CTTCTTACTGCCCAGAAATGTTCACTCCTTCTCTCCCTCCCCGTGGAAGAAGGCTT  
CAGCCACTTTCTACGGCGGAAAGGATGCATCTGGAACAATGGGTATGTATGTTTC  
TTCTTCATTTTTTGTCTTGTGTGCTTGCCTTGTCTATATTTATTTATTATAAAAT  
AAGAAATTTCTTTTGTTCAGGTGGAGCTTGTGGGTATGGTAATTTGTACTCCGC

CGGATATGGCACGAGAACGGCGGCTCTGAGTACTGCCCTGTTCAACGATGGATCA  
CCTTGCGGCCAGTGCTTTAGGCTTGTCTGTGATTACAAGAACGATCGGAAATGGT  
GCCGGAAAGGTACGTCCGTAACAATAACGGCGACAAATTTCTGCCACCTAATTT  
CGCCCAAGCTAACGACAACGGTGGGTGGTGCAACCCTCCACGTGAGCACTTCGAC  
ATGGCATAACCCTGCTTGGGAGAAGATCGGAATCTATCGCGGCGGTATCGTTCCCG  
TCATGTACCAACGGTAAAATTTAATATCTATCTACATCCAACCTGTTTGTCTCAGTC  
AGTCAGTCAGTCTGTCTGTCTATATATTTACTTTTTTTTCTTCTTTCAGAGTACCAT  
GTAAGAAACACGGCGGAGTACGGTTCACCGTGAACGGAAGAAAATACTTCGAAC  
TGGTACTGGTAAGCAACGTCGGTGGATGTGGGTCGATCAAATCTATGTCCATAAA  
AGGATCTAAGACAGGATGGACATCTATGTCTAGGAATTGGGGAGCCAATTGGCA  
ATCCAATGGTCAACTCGGAGGTCAATCTCTTTCATTCAAACCTCACCATCTGCGATG  
GGAAAACCCTTGTCTTCAACAACATAGTTCATTCCAGTTGGTCATTTGGTCAGACC  
TTCAGTAGTTCCTTGCAATTCGATTAACCAACACATGAACACTTTCTGAGTTTCT  
GGATCTTGGCTGAGGCTTGCTTACTATTACTTTTTTTTAGGACAAGTTGCCCGCCAA  
AAAATGCTGCTCTCTTATCCCAATGTTTTTCCCCCCTTTGG