

## IDENTIFICATION

**Species:** *Zostera marina*

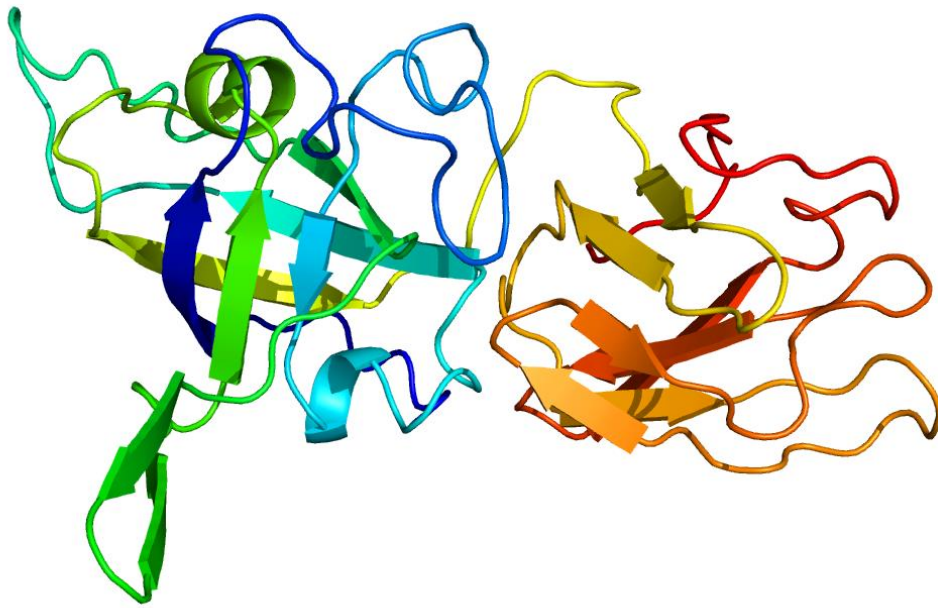
**Locus:** Zosma79g00560

**Gene Model:** Zosma79g00560.1

**Description:** ZmrEXPA-07

**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:-

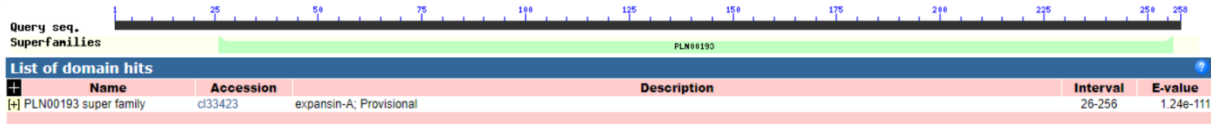
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>ZmrEXPA-07

MAMTLRMFITVTSSVFLISSLFLTASAPWLSAHATFYGGDGSMTMGGACGYGNLY  
KDG YGLKNAALSTALFNDGASCGGCYQIVCDSTKVPQWCRKGTHITVTATNFCPPNP  
ALSND DGGWCNSPRMHFDM SQPAWESIAIYKAGIVPVYYRSVKCSRKGGVTFTING  
KNYFQLILISNIAGVGTIKA AWIKGSKTEWKALTRNWGANWHS LDYLSGQGLSFRVQ  
LTDGNIKTMYDVAPSNWSFGSTYTTTLQFH\*

### CDS (coding sequence)

>ZmrEXPA-07

ATGGCGATGACCTTGAGAATGTTTCATCACCGTGACCTCCTCTGTTTTTCTCATCTC  
CTCTCTCTTTCTCACCGCATCGGCCTCTCCTTGGCTTTCCGCTCATGCCACATTCTA  
CGGCGGTGGCGATGGCTCTGGAACCATGGGAGGAGCTTGCGGATATGGGAATTT  
ATACAAAGACGGTTACGGATTGAAAAACGCGGCGTTAAGTACGGCGCTTTTCAAC  
GACGGAGCTTCGTGTGGAGGTTGCTATCAGATAGTCTGTGACTCGACTAAAGTCC  
CGCAGTGGTGCCGTA AAGGA ACTCACATCACCGTCACCGCTACCAATTTTTGCC  
ACCAAACCCGGCTCTGTCCAACGACGACGGTGGCTGGTGCAATAGTCCCCGGATG  
CATTTCGACATGTCTCAGCCGGCGTGGGAGTCCATCGCGATCTATAAAGCGGGTA  
TTGTCCCGGTGTACTACCGGAGTGTGAAGTGTAGTCGGAAAGGTGGCGTGACGTT  
TACGATAAATGGAAAAA ACTACTTCCA ACTTATTCTCATCAGTAACATCGCCGGA  
GTTGGGACTATCAAGGCGGCATGGATCAAGGGTTCGAAA ACTGAGTGGAAGGCC  
TTGACCAGGAATTGGGGTGC GAATTGGCATAGCTTGGATTATCTCAGTGGACAGG  
GGTTGTCATTTAGAGTGCAACTAACCGATGGGAATATTAAGACCATGTATGACGT  
GGCGCCATCTAATTGGTCGTTTGGTAGCACTTACACCACA ACTCTCCAATTTCACT  
AA

### Nucleotide

>ZmrEXPA-07

CAAGTCATTATGATGATAAACAGGGGCCTTATTACCTTATATAGTTTTTTGTATAT  
AAATATAAACACGTA CTCTCGACCACAATTCACAAACAGACATATCGATGGCGATG  
ACCTTGAGAATGTTTCATCACCGTGACCTCCTCTGTTTTTCTCATCTCCTCTCTTT  
CTCACCGCATCGGCCTCTCCTTGGCTTTCCGCTCATGCCACATTCTACGGCGGTGG  
CGATGGCTCTGGAACCATGGGTAATTTATAAGTTTGAATAAATTGACTGACTTTG

TCATTTTAATTTCTAATGTTGTCTGTTGTTGTTGTTGCAGGAGGAGCTTGCGGATA  
TGGGAATTTATACAAAGACGGTTACGGATTGAAAAACGCGGCGTTAAGTACGGC  
GCTTTTCAACGACGGAGCTTCGTGTGGAGGTTGCTATCAGATAGTCTGTGACTCG  
ACTAAAGTCCCGCAGTGGTGCCGTAAGGAACACATCACCGTCACCGCTACCA  
ATTTTGGCCACCAAACCCGGCTCTGTCCAACGACGACGGTGGCTGGTGCAATAG  
TCCCGGATGCATTTGACATGTCTCAGCCGGCGTGGGAGTCCATCGCGATCTAT  
AAAGCGGGTATTGTCCCGGTGTACTACCGGAGTGTGAAGTGTAGTCGGAAAGGT  
GGCGTGACGTTTACGATAAATGGAAAAAACTACTTCCAACCTTATTCTCATCAGTA  
ACATCGCCGGAGTTGGGACTATCAAGGCGGCATGGATCAAGGGTTCGAAAACCTG  
AGTGGAAGGCCTTGACCAGGAATTGGGGTGCGAATTGGCATAGCTTGGATTATCT  
CAGTGGACAGGGGTTGTCATTTAGAGTGCAACTAACCGATGGGAATATTAAGACC  
ATGTATGACGTGGCGCCATCTAATTGGTCGTTTGGTAGCACTTACACCACAACCTCT  
CCAATTTCACTAAATAAATAGTCATAAATCATTTAAAAAGTACTTGAAAATATTC  
GTGTTTATGAATATTTTATAGGGATAATCAGTTAGTTAATCACACACATACACACA  
CAAATTGTA CTCTGGTTCATAGTCTCAGTC