

IDENTIFICATION

Species: *Zostera marina*

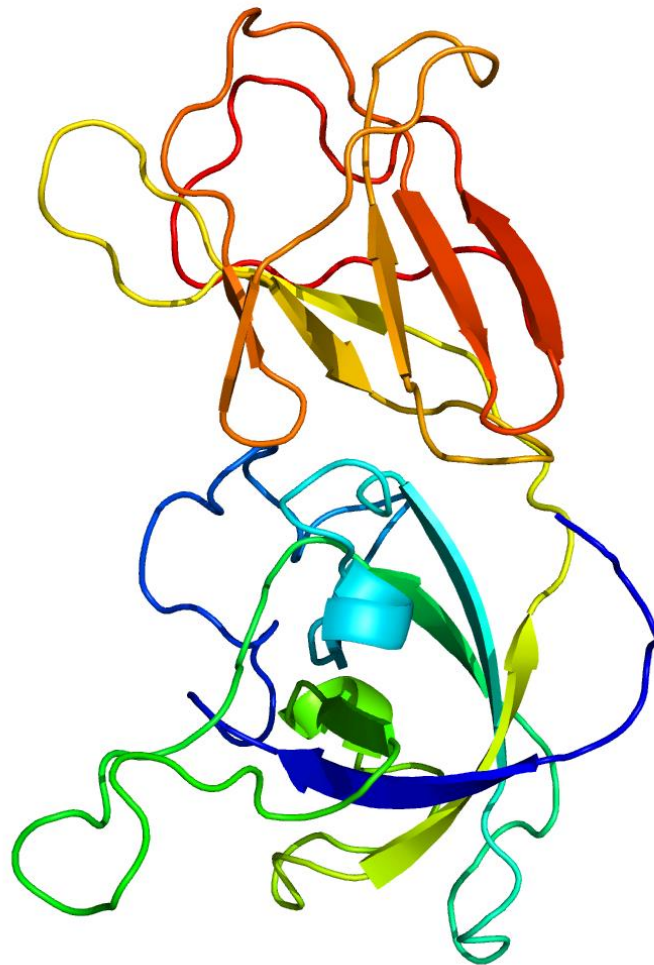
Locus: Zosma136g00370

Gene Model: Zosma136g00370.1

Description: ZmrEXPA-10

Family: Alpha Expansin

3D structure:



GENOME DATABASES

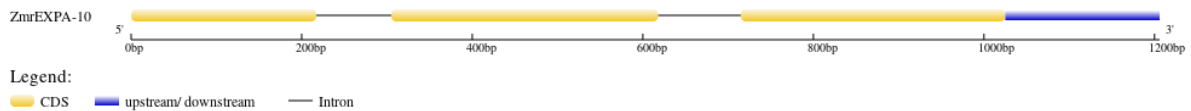
Phytozome: https://phytozome-next.jgi.doe.gov/info/Zmarina_v2_2

KEGG:-

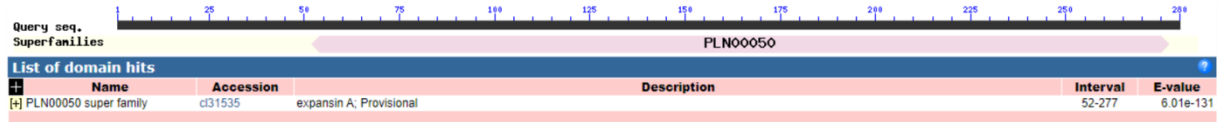
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>ZmrEXPA-10

MNATISCLHPIYFRPSTTSFGNSELKWALLRLLFCFCFNFFNTLAHGYYGHS GTGWSTA
HATFYGGGDASGTMGGACGYGNLYSEGYGTKTAALSTAMFNGLSCGACYELKCS
GDRKWCLPSSVVVTATNFCPPNNALPNNAGGWCNPLHFFDLSQPVFERIARYKAGI
VPVAYRRVSCRKKGGMRFTINGHPYFNLVLITNVAGAGDVHAVSVKTAATGWQSM
SRNWGQNWQSSNNLKGQTLSEFKVTTSDGMTVVSKNAVPADWSFGQTYSGSQFRH*

CDS (coding sequence)

>ZmrEXPA-10

ATGAACGCAACTATCTCCTGTCTCCATCCTATTTATTTCCGTCCATCGACCACATC
CTTTGGTAACTCCGAACTCAAATGGGCTCTACTACGGCTTCTTTTCTGCTTCTGCT
TCAACTTCTTCAATACTCTTGCTCATGGTTATGGCCACAGCGGTA CTGGCTGGTCC
ACGGCTCACGCCACCTTTTACGGCGGCGGCGATGCATCTGGAACAATGGGTGGGG
CTTGCGGATATGGGAACCTTTACAGTGAAGGATACGGAACCAAACGGCTGCTCT
AAGCACTGCCATGTTTAAACAATGGACTTAGCTGTGGAGCTTGTTATGAGCTCAA
TGCTCCGGTGATCGGAAATGGTGTCTTCCATCTTCCGTTGTTGTAACGGCTACAAA
TTTCTGCCCTCCTAATAACGCTCTCCCAAACAACGCCGGTGGCTGGTGCAACCCTC
CACTTCATCACTTCGACCTCTCACAACCGGTGTTTCGAACGGATTGCACGGTACAA
AGCCGGCATCGTTCCCGTCGCTTACCGCAGAGTGTCGTGCAGGAAGAAAGGAGG
AATGAGGTTACGATAAACGGTCATCCTTACTTCAACCTCGTTCTGATAACAAAC
GTCGCCGGAGCTGGGGACGTCCATGCCGTTTCCGTCAAACGGCCGCAACTGGTT
GGCAGTCCATGTCTCGAAACTGGGGCCAGA ACTGGCAGAGTAGTAACAATCTCA
AAGGTCAA ACTCTCTCCTTCAAGGTCACAACCAGTGATGGAATGACCGTAGTTTC
CAAACGCGCTTCCCGCTGACTGGAGCTTCGGCCAGACCTACAGTGGGAGTCAA
TTCCGTCATTGA

Nucleotide

>ZmrEXPA-10

ATGAACGCAACTATCTCCTGTCTCCATCCTATTTATTTCCGTCCATCGACCACATC
CTTTGGTAACTCCGAACTCAAATGGGCTCTACTACGGCTTCTTTTCTGCTTCTGCT
TCAACTTCTTCAATACTCTTGCTCATGGTTATGGCCACAGCGGTA CTGGCTGGTCC
ACGGCTCACGCCACCTTTTACGGCGGCGGCGATGCATCTGGAACAATGGGTAAGT

GTGCATTTGGAAAAACAGTAATTAATGGCTGGGTTATGAAGGTCACTCAGGTCTG
TTTTTTTTCTTTCTTTCTCCTCTCTAGGTGGGGCTTGCGGATATGGGAACCTTTACA
GTGAAGGATACGGAACCAAACGGCTGCTCTAAGCACTGCCATGTTTAAACAATG
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TCTTCCATCTTCCGTTGTTGTAACGGCTACAAATTTCTGCCCTCCTAATAACGCTC
TCCCAAACAACGCCGGTGGCTGGTGCAACCCTCCACTTCATCACTTCGACCTCTC
ACAACCGGTGTTCGAACGGATTGCACGGTACAAAGCCGGCATCGTTCCCGTCGCT
TACCGCAGGTATTCATTCATATTCCCGTTTTTCGATTGTTGTGTTTATCTATCTATCT
ATATATATACACACCTCAATACCTCATATTTGGTAGCTTGTGATGCAGAGTGTCGT
GCAGGAAGAAAGGAGGAATGAGGTTCCACGATAAACGGTCATCCTTACTTCAACC
TCGTTCTGATAACAAACGTCGCCGGAGCTGGGGACGTCCATGCCGTTTCCGTCAA
AACGGCCGCAACTGGTTGGCAGTCCATGTCTCGAAACTGGGGCCAGAACTGGCA
GAGTAGTAACAATCTCAAAGGTCAAACCTCTCTCCTTCAAGGTCACAACCAGTGAT
GGAATGACCGTAGTTTCCAAAAACGCCGTTCCCGCTGACTGGAGCTTCGGCCAGA
CCTACAGTGGGAGTCAATTCCGTCATTGATGTTGACACATACTAGCTTCTTTTT
ACTTGTTGTTGTAGTAATTAACCGGCAGAGGTGGAACGCTACTTACTCTTTCCC
ACCCGCCGGCGGCCGGCAGAGATGGAACGATATTTTGTGTTGATGCCGCCGACT
GCAGGCAGTACCACCCTTTTCGTATTATTATTATGGAAATC