

IDENTIFICATION

Species: *Zostera marina*

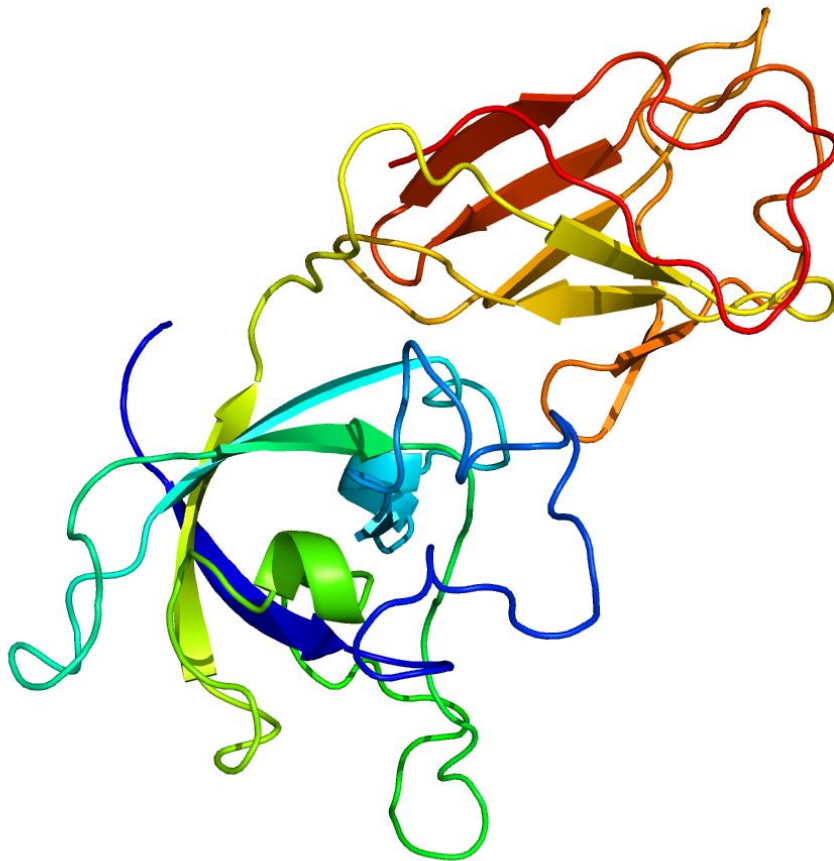
Locus: Zosma56g01230

Gene Model: Zosma56g01230.1

Description: ZmrEXPA-05

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

KEGG:-

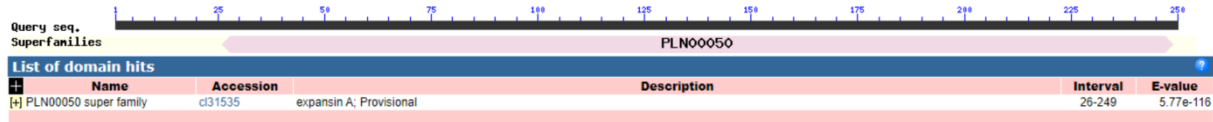
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>ZmrEXPA-05

MSQLSSLTISLLLLLCSAHSSDAQWQSGHATFYGGGDAAGTMGGACGYGDLHSQG
YGTNTAALSTALFNSGQSCGSCYEMRCNNDPEWCLPGTIVVTATNFCPPNPAQPNNN
GGWCNPPLQHFDLAEPAFLEIAKYRAGIVPVSFRRVSCVKKGGVRFTHINGHSYFNLVL
ITNVGGAGDVRVSIVKSGKTSSWQAMSRNWGQNWQSNNYLNGQALSFQVTTSDGK
SITSYNVAPSGWQFGQTFQGAQF*

CDS (coding sequence)

>ZmrEXPA-05

ATGTCGCAACTTTCAAGCCTCACCATCTCCCTCCTCCTCCTCCTCCTCTGCTCCGC
ACATTCCTCCGACGCTCAATGGCAGAGCGGTCACGCCACATTCTACGGCGGTGGT
GATGCTGCCGGGACAATGGGTGGAGCATGTGGTTATGGTGATCTACATAGCCAAG
GATACGGCACAAACACGGCGGCTCTGAGCACTGCGTTATTCAACAGTGGACAGA
GCTGTGGATCTTGTTACGAGATGAGATGCAACAATGACCCAGAATGGTGTCTTCC
GGGTACAATTGTGGTGACAGCCACAACTTCTGCCCGCCAAATCCAGCTCAACCC
ACAACAATGGCGGGTGGTGTAACTCCTTTACAGCACTTCGATCTAGCCGAAC
CGGCCTTCCTCGAGATCGCGAAATACCGAGCTGGAATCGTGCCGGTATCTTTTCG
AAGAGTGTCTGTGCGTGAAGAAAGGAGGTGTGAGGTTCACTATCAACGGTCACTC
CTACTTCAATCTTGTTGATCACCAACGTGGGTGGAGCCGGAGACGTCCGATCG
GTTTCGATCAAGGTTCTGAAGACATCTTCTTGGCAAGCCATGTCACGAACTGGG
GACAGAATTGGCAGAGCAACAATCTCAACGGCCAAGCTCTGTCTTTTCAAGT
CACAACACTAGCGACGGTAAGAGCATCACTAGCTACAACGTCGCTCCATCTGGCTGG
CAATTTGGACAAACCTTCCAAGGCGCTCAGTTCTAG

Nucleotide

>ZmrEXPA-05

ATGTCGCAACTTTCAAGCCTCACCATCTCCCTCCTCCTCCTCCTCCTCTGCTCCGC
ACATTCCTCCGACGCTCAATGGCAGAGCGGTCACGCCACATTCTACGGCGGTGGT
GATGCTGCCGGGACAATGGGTATGCATGTATATTTAATTTTATTTGATTTGATTTT
ATGAATTGATTGATTGATTTAGTATTTATATATTATGATTTATAAATCAGGTGGAG
CATGTGGTTATGGTGTCTACATAGCCAAGGATACGGCACAAACACGGCGGCTCT
GAGCACTGCGTTATTCAACAGTGGACAGAGCTGTGGATCTTGTTACGAGATGAGA

TGCAACAATGACCCAGAATGGTGTCTTCCGGGTACAATTGTGGTGACAGCCACAA
ACTTCTGCCC GCCAAATCCAGCTCAACCCAACAACAATGGCGGGTGGTGTAAATCC
TCCTTTACAGCACTTCGATCTAGCCGAACCGGCCTTCCTCGAGATCGCGAAATAC
CGAGCTGGAATCGTGCCGGTATCTTTTCGAAGAGTGTTCGTGCGTGAAGAAAGGAG
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GTGGGTGGAGCCGGAGACGTCCGATCGGTTTCGATCAAGGGTTCGAAGACATCTT
CTTGGCAAGCCATGTCACGAAACTGGGGACAGAATTGGCAGAGCAACAACATC
TCAACGGCCAAGCTCTGTCTTTTCAAGTCACAACCTAGCGACGGTAAGAGCATCAC
TAGCTACAACGTCGCTCCATCTGGCTGGCAATTTGGACAAACCTTCCAAGGCGCT
CAGTTCTAGCTAGACTTCTAATTAAGCTCGTCAAACTAGCTTGGTTGGCCAATTT
GGTGGCTGTGGTTGCTTATCTCGTTATTATTAACCGTTAATCAGCGCCCGCTTGCT
TAATGGCCAGATCAGATGGATATATATAGAATATTTATATATAGCTTCATAAATG
ATAACGAAAACCATGCATGTGAAATTCCTTCTTGCTGTATGTAAATTGTATGTTGTC
AGTTGTCACTCTCTGAATGTTCTTCTTTAATACTTATTATTTTTGAACTTACTAAGA
GAAACATA