

IDENTIFICATION

Species: *Zostera marina*

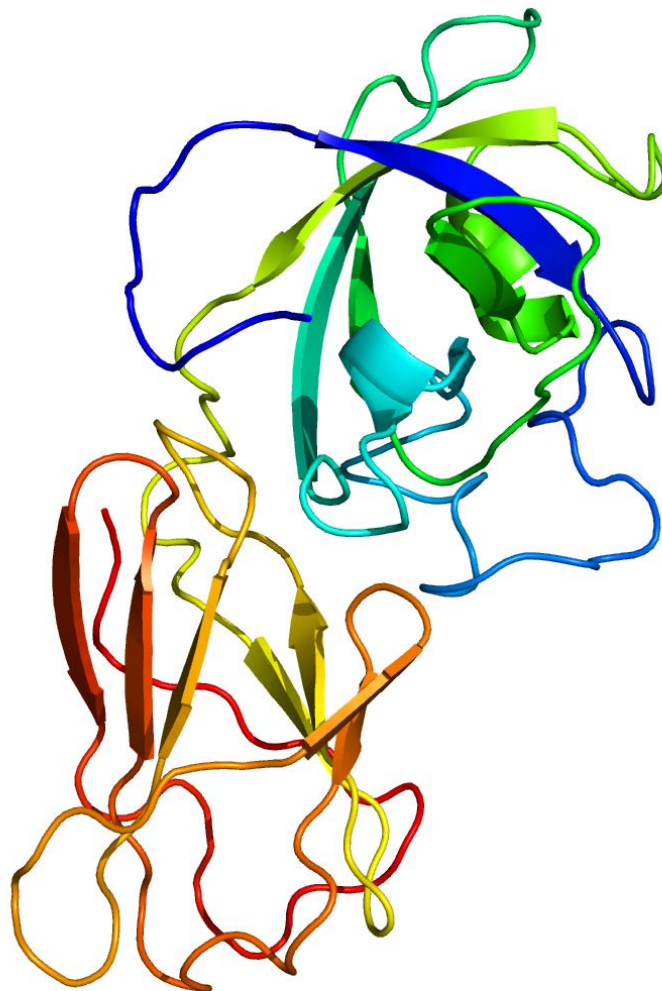
Locus: Zosma68g00430

Gene Model: Zosma68g00430.1

Description: ZmrEXPA-06

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

KEGG:-

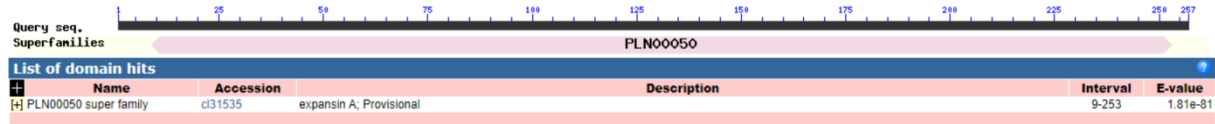
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>ZmrEXPA-06

MTWSTLPAQLFYFTLTLATLSASTEEDWKPARATYYASYDPLDRVDGACGYGDLG
RNGYGMATVGASQALFERGKVCGACFQVRCVEELRYCIPGTTIVVTVDFCPPNYSL
SSEEDGYCNPPNHLLMPIAAFEKIAIWKAGNMAVEYRRVKCRREGGVRF AIDGHG
VFISVLISNVAGAGDVNAVKIKGSNTGWLPMGRNWGQNWVHVNADLVNQPLSFEVT
TSDSVTLTSYNVAPKEWRFGVSYTATKQFQDQ*

CDS (coding sequence)

>ZmrEXPA-06

ATGACGTGGTCTACCCTTCCAGCCCAACTTTTCTACTTCACACTAACATTACTCGC
CACACTCTCCGCTTCCACTGAAGAAGATTGGAAACCTGCAAGAGCCACGTATTAC
GCCTCCTACGATCCTCTTGACCGCGTTGATGGGGCATGTGGGTACGGCGATTTGG
GTCGGAATGGGTACGGTATGGCGACGGTGGGTGCGAGCCAGGCATTGTTTCGAGC
GGGGCAAGGTGTGCGGTGCTTGTTC AAGTACGATGCGTGGAGGAGTTGAGATA
CTGTATACCTGGGACAACAATCGTGGT GACTGTGACGGACTTCTGCCACCAAAC
TACTCTCTGTCTTCAGAGGAAGATGGGTATTGCAATCCCCCAACCATCATCTACT
CATGCCCATTCAGCATTGAGAAGATTGCAATATGGAAGGCTGGAAACATGGCC
GTCGAGTACCGGAGAGTGAAGTGCAGGAGAGAAGGAGGCGTCCGATTCGCGATT
GACGGTCATGGAGTGTTTCATCTCTGTTCTGATCAGCAATGTTGCCGGTGCCGGAG
ACGTGAATGCGGTTAAGATCAAAGGGT CGAACACAGGATGGCTTCCGATGGGTA
GGAATTGGGGACAGA AACTGGCACGTTAATGCGGATCTCGTTAATCAACCCTTTC
CTTTGAGGTTACCACCAGTGATAGCGTCACTCTCACCTTTATAACGTGGCTCCAA
AGGAATGGAGGTTTGGGGTGTCTTACACAGCAACCAAGCAGTTCAGGATCAAT
GA

Nucleotide

>ZmrEXPA-06

TCCCGACCGACGGGTCAACATCCCTGAAGGTCTCAAACCAGAAGAGGAAGAAA
AGCGGCAATGACGTGGTCTACCCTTCCAGCCCAACTTTTCTACTTCACACTAACAT
TACTCGCCACACTCTCCGCTTCCACTGAAGAAGATTGGAAACCTGCAAGAGCCAC
GTATTACGCCTCCTACGATCCTCTTGACCGCGTTGGTAATCCTCATTCCCATCTTC
CTTTCCGGCTTTC CGCACAGCAGATGTGCTACTGACTTGTTATTTTACATGTATA

TGCAGATGGGGCATGTGGGTACGGCGATTTGGGTTCGGAATGGGTACGGTATGGC
GACGGTGGGTGCGAGCCAGGCATTGTTTCGAGCGGGGCAAGGTGTGCGGTGCTTG
TTTCCAAGTACGATGCGTGGAGGAGTTGAGATACTGTATACCTGGGACAACAATC
GTGGTGACTGTGACGGACTTCTGCCCACCAAACACTACTCTCTGTCTTCAGAGGAAG
ATGGGTATTGCAATCCCCCAACCATCATCTACTCATGCCATTGCAGCATTTGAG
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TGCAGGAGAGAAGGAGGCGTCCGATTTCGCGATTGACGGTCATGGAGTGTTTCATCT
CTGTTCTGATCAGCAATGTTGCCGGTGCCGGAGACGTGAATGCGGTTAAGATCAA
AGGGTCGAACACAGGATGGCTTCCGATGGGTAGGAATTGGGGACAGAACTGGCA
CGTTAATGCGGATCTCGTTAATCAACCCCTTTCCTTTGAGGTTACCACCAGTGATA
GCGTCACTCTCACCTCTTATAACGTGGCTCCAAAGGAATGGAGGTTTGGGGTGTC
TTACACAGCAACCAAGCAGTTCAGGATCAATGAATGATTCATAGATTGATGGAT
TTGTCTGGTTTTTTTTTGTCTTCTATTTTCAGATCTACCATCAATGTTCACTTTTCTTA
AATTTTCACATTTTAATTTTAATGACAAAATCAATTCCTTTAATG