

IDENTIFICATION

Species: *Zostera marina*

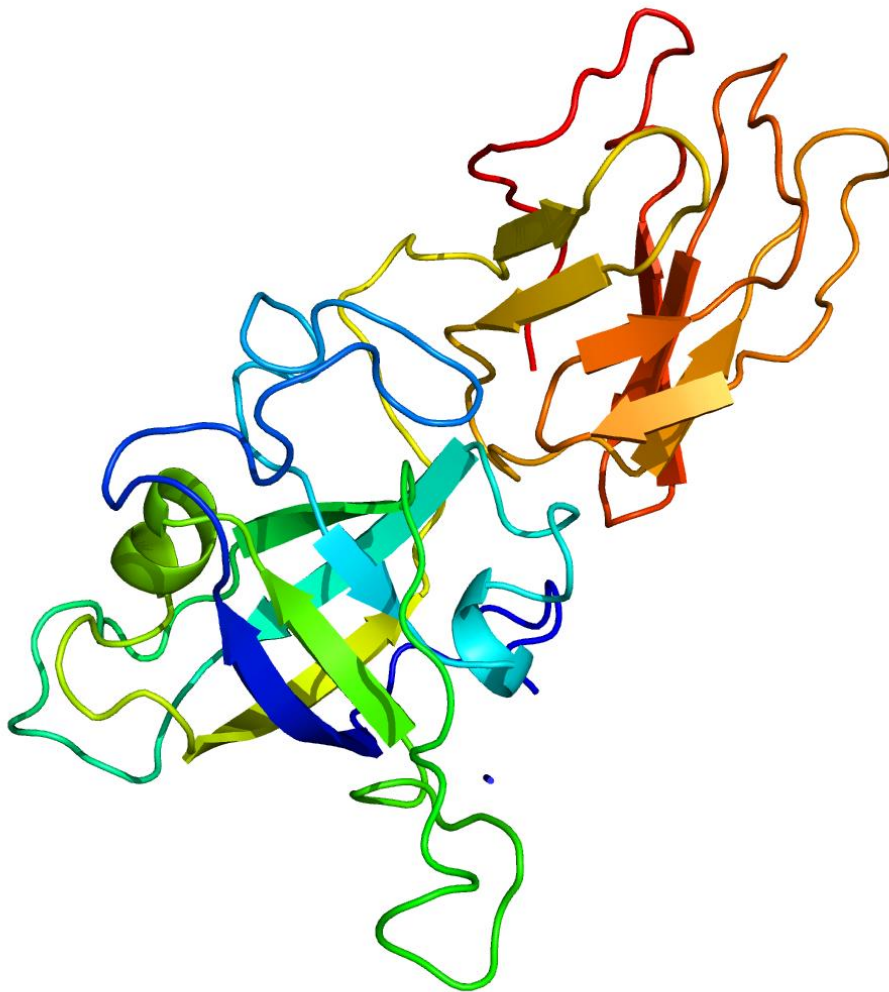
Locus: Zosma6g01560

Gene Model: Zosma6g01560.1

Description: ZmrEXPA-02

Family: Alpha Expansin

3D structure:



GENOME DATABASES

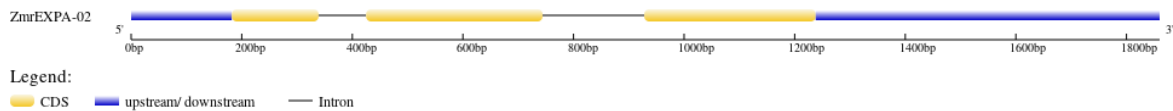
Phytozome: https://phytozome-next.jgi.doe.gov/info/Zmarina_v2_2

KEGG:-

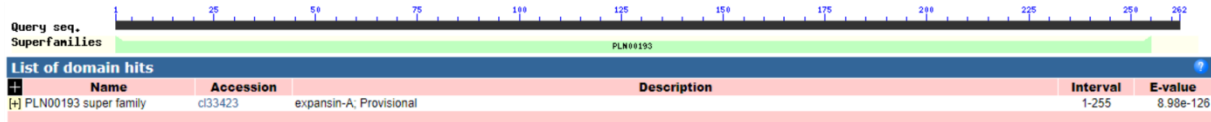
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>ZmrEXPA-02

MASLLQQLSALWVVLVLYSSPADARIPGVYNGEGWRTAHATFYGGSDASGTMGGA
CGYGNLYSQGYGVSTAALSTALFNGLKCGSCYEIKCEDPKWCHKGSPSIFITATNF
CPPNYALPNDNGGWCNPPRPHFDLAMPFLKIAAYHAGIVPVVYRRVPCRKPGGIRF
TINGFRYFNLVLISNVAGAGDIIRVSVKGSKTGWMSMSRNWQNWQSNALLVGQSL
SFRVTGSDHRTSTSRNIVPANWKFGQTFAGKNFRF*

CDS (coding sequence)

>ZmrEXPA-02

ATGGCATCTCTTCTTCAACAACCTTTCGGCTCTATGGGTTGTCCTCTACCTATACTC
ATCACCAGCTGACGCTAGAATCCCCGGTGTTTACAACGGTGAAGGATGGCGTACA
GCACACGCCACTTTCTACGGCGGAAGTGACGCCTCCGGCACGATGGGTGGGGCGT
GTGGGTACGGGAACCTTTACAGCCAAGGTTACGGTGTGTCGACGGCGGCACTGA
GTACGGCGTTGTTCAACAACGGGTTGAAATGTGGTTCTTGTTACGAGATCAAGTG
CAGCGAGGACCCAAAATGGTGCCATAAAGGCAGTCCTTCTATCTTCATAACGGCT
ACTAACTTCTGCCACCTAACTATGCTCTTCCTAACGATAATGGTGGATGGTGTA
CCCTCCACGTCCGCATTTGACCTTGCCATGCCTATGTTTCTGAAGATCGCCGCTT
ACCACGCCGGTATCGTCCCCGTCGTCTACCGCAGGGTGCCATGCAGAAAGCCAGG
AGGGATTCGGTTCACAATAACGGATTCCGGTACTTCAACCTTGTGCTAATCTCA
AACGTCCCGGAGCAGGGGATATAATTCGTGTGAGCGTGAAAGGGTCGAAGACA
GGGTGGATGAGTATGAGCAGGAATTGGGGACAGAACTGGCAGTCCAATGCCCTT
CTTGTGGTCAATCTCTCTCTTTCCGTGTCCTGGTAGCGACCATCGCACCTCAAC
TTCAAGGAACATCGTTCGGCAAATTGGAAGTTTGGACAAACCTTCGCCGGAAAG
AATTCCGTTTCTAA

Nucleotide

>ZmrEXPA-02

TATAAAAGGGGTAAAAGAAAAGGGCAGTTAGGGTTTTTTTTTTTTTTAATTTGGTT
TTATTTACAAGTACTGCCATGCCAGCAGAATGCCATTGGTGTCTTTTGCTCTCACA
CCACCATAATAAGTAACCTTCATTCCACTTCCATCTTTCACTTCCACTACCAGTCT
TATCAGCAAAGAAGATGGCATCTCTTCTTCAACAACCTTTCGGCTCTATGGGTTGTC
CTCTACCTATACTCATCACCAGCTGACGCTAGAATCCCCGGTGTTTACAACGGTG

AAGGATGGCGTACAGCACACGCCACTTTCTACGGCGGAAGTGACGCCTCCGGCA
CGATGGGTACCGTCTGTTCTTTTTTCTTCTTATATATACATCTCGTACATGGCACTA
TAATGTTTCTAACTTGTGTGTGTGTGTGTGTAAAGGTGGGGCGTGTGGGTACGGG
AACCTTTACAGCCAAGGTTACGGTGTGTCGACGGCGGCACTGAGTACGGCGTGTG
TCAACAACGGGTTGAAATGTGGTTCTTGTACGAGATCAAGTGCAGCGAGGACCC
AAAATGGTGCCATAAAGGCAGTCCTTCTATCTTCATAACGGCTACTAACTTCTGC
CCACCTAACTATGCTCTTCCTAACGATAATGGTGGATGGTGTAAACCCTCCACGTCC
GCATTTTCGACCTTGCCATGCCTATGTTTCTGAAGATCGCCGCTTACCACGCCGGTA
TCGTCCCCGTCGTCTACCGCAGGTTTGTTTTTTCTCGAACACAGGGAAGTTATTTTG
TTACCCTGTTTTTCTCTTTTTTCTTTCCAGGAAAAAAATTCGGAAACCGCGTGGA
TCTCAGCACATAATATGCGAAATGACAAAATCACCCATCCTTTTTTTTACTTTTTT
AATCGGGTAATCGAGTCGGGTTTTGTGATTCATGTAGGGTGCCATGCAGAAAGCC
AGGAGGGATTCCGGTTCACAATAAACGGATTCCGGTACTTCAACCTTGTGCTAATC
TCAAACGTCGCCGGAGCAGGGGATATAATTCGTGTGAGCGTGAAAGGGTCAAG
ACAGGGTGGATGAGTATGAGCAGGAATTGGGGACAGAACTGGCAGTCCAATGCC
CTTCTTGTGGTCAATCTCTCTCTTTCCGTGTCACTGGTAGCGACCATCGCACCTC
AACTTCAAGGAACATCGTTCGGCAAATTGGAAGTTTGGACAAACCTTCGCCGGA
AAGAATTTCCGTTTCTAATATCTATCCTTGTGGTAGCTTTCTTTCCGGTGTCTCTT
TTTTAACGGAGTGATCGTCTACTTTCTGTGTTTTGACCGGTTGGTTATATTCTGGT
CGGAAAATTGCTGTAGTGGCTACTGAAGGCAAAGTCATGGCGTGGCCCCAGCTTC
TCCCTATATTATTAACTTATTATGTCGTAAAATACTATTAATATGTTTTACCA
TATTTTATTGGTCTCTAGACTCTCTGTTGTCTAATAGTCTAATGTGTATTTGTGTCG
GAAAGACTTCAAGTGTTAAGATTAAGTGAGATGTTATGTTTTAACATAGTGAAA
GCAATATCTATTGTCTCCATGATTGTGGATTTATTTGGTTGTCATGCTGAAAAAAA
AACATGGAAGAGAAGACTTGAAGTGTAACAATACACAACAAAAGTCACCAAAG
TACTTCAAACAACAGCTCAGGACAACAATAAAAAGTTGGGGGAATAAACACAAT
AAAAGCATGCGGAAGACGACCTTCCTTTATAAATAAGCAACGCTGCTGTAAACTG
GAGTGCTGACAATTATGCAAATGCAAATTATAGTTTGTAGACTACTACTAGTCAC
TAGTGACCTACATTCTTTAGGGTAAGT