

IDENTIFICATION

Species: *Selaginella moellendorffii*

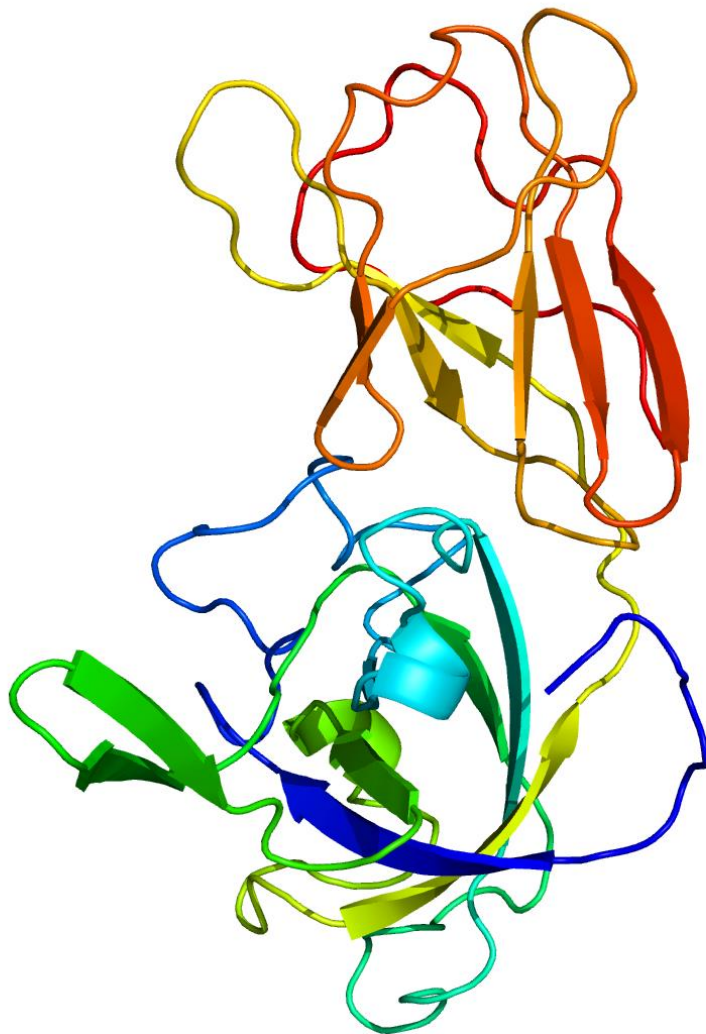
Locus: 174522

Gene Model: 174522

Description: SmEXPA-12

Family: Alpha Expansin

3D structure:



GENOME DATABASES

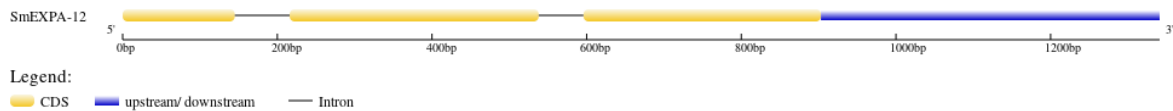
Phytozome: https://phytozome-next.jgi.doe.gov/info/Smoellendorffii_v1_0

KEGG: <https://www.genome.jp/entry/T01496>

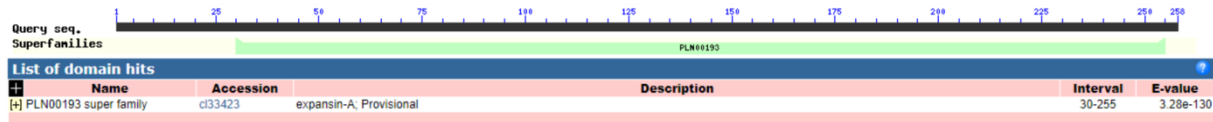
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>SmEXPA-12

MNSWYSRSPVLAALGFLHCTLFQFAQQGWTS AHATFYGGSDAAGTMGGACGYG
NLYSQGYGNNAALSTALFNSGLSCGACFEIRCD SAADPRWCIAGTSVVVTATNFCP
PNYALANNNGGW CNPPLEHFDMAQPAWEQIGIYRGGIVPVQYRRVSCVKKGGIHFT
MNGHTYFNLVLISNVGGAGDVHAVSIKSGTGWQDMSRNW GQNWQSNGQFQGQS
LSFRVTTSDGKSVVSM DVAPADWQYGTTFEGSQFD*

CDS (coding sequence)

>SmEXPA-12

ATGAATTCATGGTATTCCAGGTCGCCAGTTCTCGCTGCTCTTGGATTTCTTCTCCA
CTGTACGCTGTTCCAGTTCGCTCAGGGACAAGGGTGGACAAGCGCTCATGCAACT
TTCTATGGGGGAAGCGATGCAGCAGGGACAATGGGTGGAGCTTGTGGTTATGGT
AATTTGTACAGCCAAGGATACGGCAACAACAATGCCGCACTGAGCACTGCTTTGT
TCAACTCTGGATTGAGCTGTGGTGCGTGCTTTGAGATCCGGTGTGACAGTGCTGC
CGATCCAAGATGGTGCATTGCCGGGACTTCCGTTGTTGTCACTGCAACCAACTTCT
GCCCTCCAACTACGCTCTCGCAAACAACAACGGAGGATGGTGCAACCCTCCACT
GGAACACTTCGACATGGCGCAGCCTGCGTGGGAGCAAATTGGCATCTACAGGGG
AGGCATTGTTCCCGTCCAATACAGAAGAGTCAGCTGCGTCAAGAAGGGAGGAAT
CCACTTCACAATGAACGGCCACACGTATTTCAATCTGGTGCTCATCAGCAACGTT
GGCGGAGCAGGCGACGTGCACGCCGTGTCCATCAAAGGCTCCGGCACCGGTTGG
CAAGACATGAGCCGGA ACTGGGGACAAA ACTGGCAGAGCAATGGTCAGTTCCAG
GGGCAGAGCCTCTCGTTCAGAGTCAACACGAGCGATGGCAA AAGCGTGGTCTCC
ATGGACGTGGCTCCCGCCGACTGGCAGTATGGACAAACCTTCGAAGGGTCCAGT
TTGATTGA

Nucleotide

>SmEXPA-12

ATGAATTCATGGTATTCCAGGTCGCCAGTTCTCGCTGCTCTTGGATTTCTTCTCCA
CTGTACGCTGTTCCAGTTCGCTCAGGGACAAGGGTGGACAAGCGCTCATGCAACT
TTCTATGGGGGAAGCGATGCAGCAGGGACAATGGGTACGTAATGCGTGAAGTTT
CTACAGTGAAGAGTTATAATATATGTGTGATGTTCTTCTTTTGTGGTAGGTGGAG
CTTGTGGTTATGGTAATTTGTACAGCCAAGGATACGGCAACAACAATGCCGCACT
GAGCACTGCTTTGTTCAACTCTGGATTGAGCTGTGGTGCGTGCTTTGAGATCCGGT

GTGACAGTGCTGCCGATCCAAGATGGTGCATTGCCGGGACTTCCGTTGTTGTCAC
TGCAACCAACTTCTGCCCTCCAACTACGCTCTCGCAAACAACAACGGAGGATGG
TGCAACCCTCCACTGGAACACTTCGACATGGCGCAGCCTGCGTGGGAGCAAATTG
GCATCTACAGGGGAGGCATTGTTCCCGTCCAATACAGAAGGTAAAGTCGAAAGC
CTTTAAAAGCCGCTCATAACTTTTTCTCGTTTGGTGGATAACAGAGTCAGCTGCGT
CAAGAAGGGAGGAATCCACTTCACAATGAACGGCCACACGTATTTCAATCTGGTG
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CCGGCACCGGTTGGCAAGACATGAGCCGGAACCTGGGGACAAAACCTGGCAGAGCA
ATGGTCAGTTCCAGGGGGCAGAGCCTCTCGTTCAGAGTCACCACGAGCGATGGCAA
AAGCGTGGTCTCCATGGACGTGGCTCCCGCCGACTGGCAGTATGGACAAACCTTC
GAAGGGTCCCAGTTTGATTGAAAAGTACGTTGTTTTTCTCTGGAGCTTTTCTGGTT
CTCGTCCTGTGCTTATGGCTGGCTGTGTTGCAGGGATCGAAGGAAAGAGATGGAA
GAGATGGAAGACATGCTGGAAGATGGAAGAGGAGGTAAAAGTTTCATTACATCC
ATGGAGGAAACTAAGAGCGTAGAGGGTCTAGAAAGGATGGGTTTTTAGCGCAGA
TTTGAGGATGGGGATGAGATGAAGAAACGACGGCCAACCTCCCCGCCGCTGGAA
GAGATTTTAGAGATTCTAGAGAAGCTCGAGGAACAGTTTGCAAAGTCCAAATCG
AGCAGACGAGCTCCATCACGCTGTCGGGAGTTTGCAAAGAGTCACGGGGAAAAA
TAGAAGATAAAAGGAAACGAGGCGAGCGTTATGAAGCTCTTGTGCACTGCATCG
AAACCAAAAAGAGAAAAGCTTTCTT