

IDENTIFICATION

Species: *Physcomitrium patens*

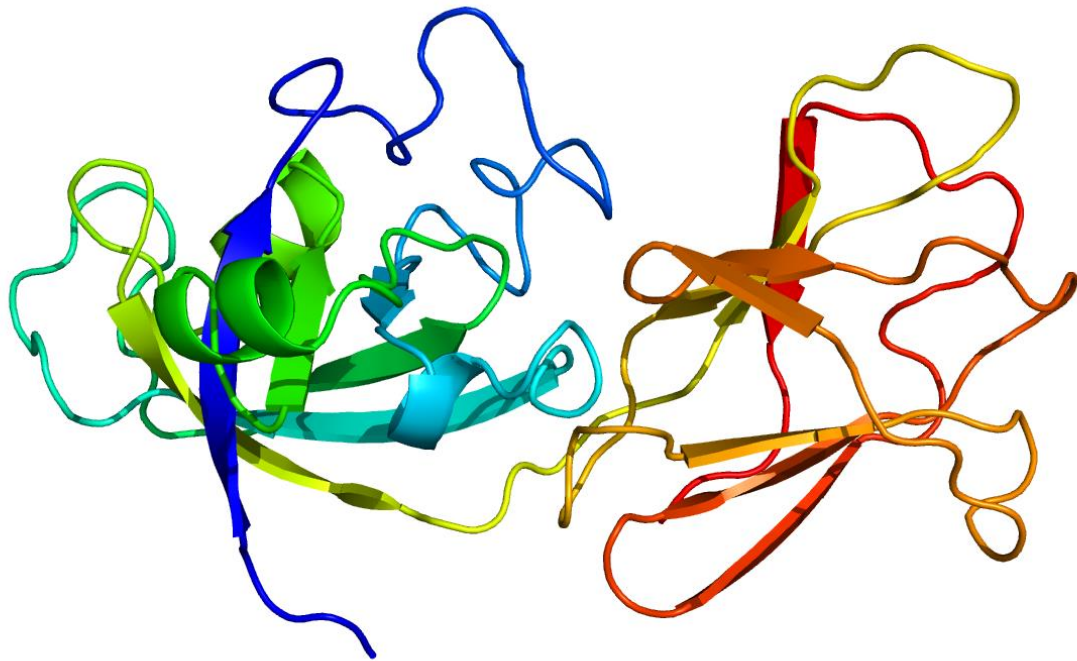
Locus: Pp3c8_13450V3

Gene Model: Pp3c8_13450V3.2.p

Description: PpEXPA-13

Family: Alpha Expansin

3D structure:



GENOME DATABASES

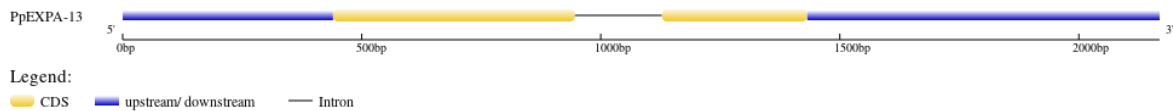
Phytozome: https://phytozome-next.jgi.doe.gov/info/Ppatens_v3_3

KEGG: <https://www.genome.jp/entry/gn:T01041>

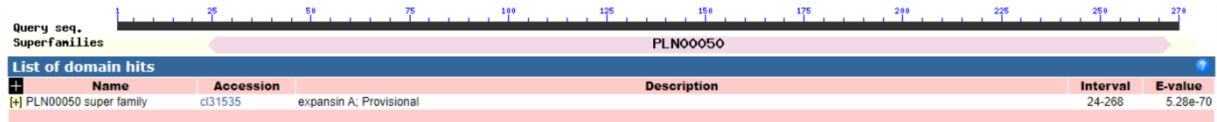
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PpEXPA-13

MLNDQEISMMQVVAVHRSETVMKMSNLKLVVFLALGLTTVIAAPRGWGDAHITY
YGSPNGAGTEGGACGYQNTYKLGYSMTAALSSRLFQGGKACGGCYQLRCAPNRG
RNWCWSYARAIVVTATNLCPQGGSHGGWCDYPKSHFDLPMPAFTSLARREGGVAPV
WYRKVRCAKRGGVRFITIGGNPWFLMVLIHNVGGAGDVVSVKVKCPYTGWVSAYR
NWGCLWTVRDKMTGPLSFTLVTS DGRTLYSMNAVRNGWKFGQTWEQSQR*

CDS (coding sequence)

>PpEXPA-13

ATGTTAAATGATCAGGAGATTTCAATGATGCAAGTTGTTGCCGTTACAGGAGCG
AGACAGTCATGAAGATGTCCAACCTTGAAGCTCGTTGTGCTGTTTCTGGCGCTGGG
TCTGACCACGGTGATCGCGGCGCCGCGGGGTTGGGGTGATGCTCATATCACGTAC
TATGGCTCTCCCAACGGCGCTGGAACGGAGGGCGGCGCCTGCGGGTACCAGAAT
ACCTACAAGCTGGGGTATGGGTCAATGACTGCCGCGTTGAGCTCTCGTCTATTCC
AGGGCGGGAAGGCGTGCGGCGGATGTTACCAGCTGAGGTGCGCACCAAATCGTG
GCAGGAACTGGTGCTGGAGTTACGCCAGGGCCATTGTGGTGACTGCCACCAACCT
GTGCCCGCAGGGTTCGCATGGTGGGTGGTGCGATTATCCCAAGTCGCACTTCGAC
TTGCCGATGCCCGCTTCACTAGCCTTGCGCGGCGCGAAGGAGGTGTTGCCCCAG
TGTGGTACAGGAAGGTCCGGTGTGCGAAGCGCGGTGGGGTGCGGTTACCAATTG
GAGGCAACCCATGGTTCTTGATGGTGCTGATTCACAACGTGGGCGGAGCAGGGG
ATGTGGTGTCGGTGAAGGTCAAGTGCCCATACAGGGATGGGTATCAGCGTACCG
GAACTGGGGATGCCTGTGGACGGTGAGGACGAAGATGACGGGACCGCTGTCTTT
CACGTTGGTGACGAGCGATGGGCGAACGCTGTACTCGATGAATGCAGTACGGAA
CGGATGGAAATTTGGGCAGACGTGGGAGGGCAGCCAGTTCAGATGA

Nucleotide

>PpEXPA-13

GCTATTCGAGGATCGGGTGATCATGGATGTTGATTCCAGCAACGCTGCTCGATCC
TTCTCGGCTTGCCGGCACCAACCTTTCTGTGCTCCGCTCCACTTAAGGAAGG
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ATGAAGATGTCCAACCTGAAGCTCGTTGTGCTGTTTCTGGCGCTGGGTCTGACCA
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GTTGTATATTGCAGATGCTTTTTTCTATCGTAGCATCTCCAAAATTACTGCAAAAG
TAATTTTTCTTGCCTAG