

IDENTIFICATION

Species: *Physcomitrium patens*

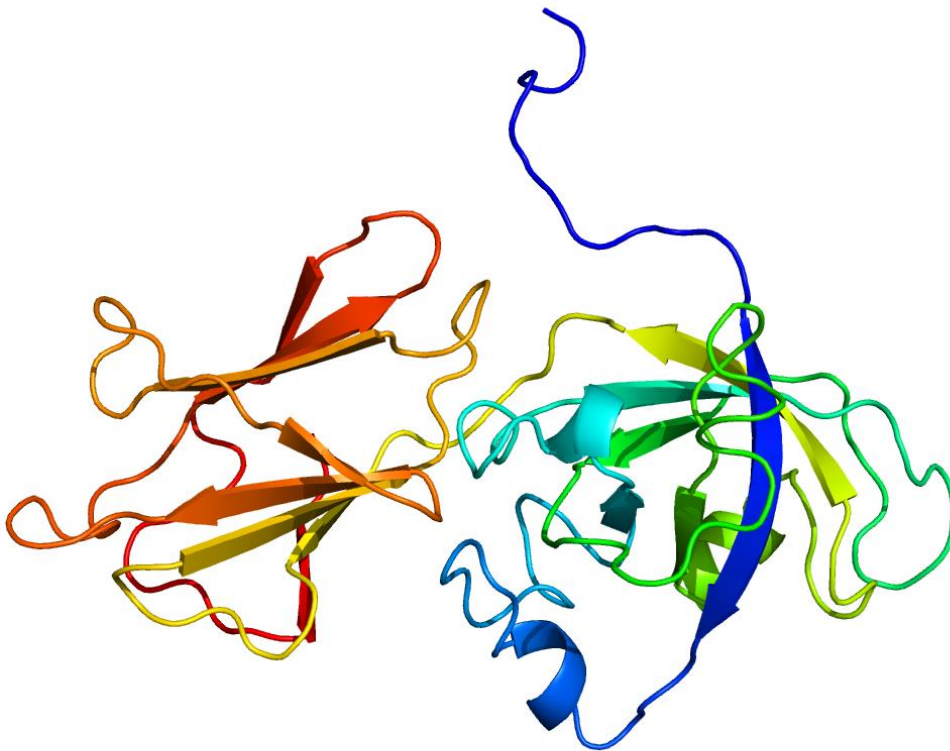
Locus: Pp3c12_4560V3

Gene Model: Pp3c12_4560V3.1.p

Description: PpEXPA-20

Family: Alpha Expansin

3D structure:



GENOME DATABASES

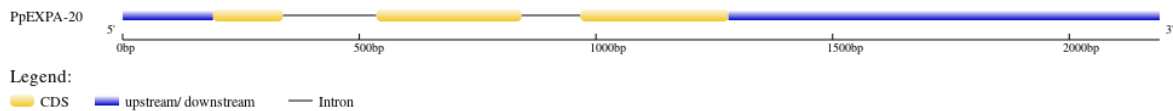
Phytozome: https://phytozome-next.jgi.doe.gov/info/Ppatens_v3_3

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

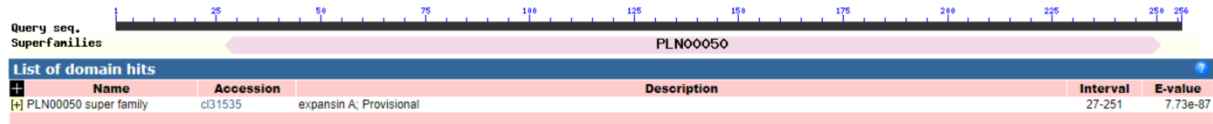
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PpEXPA-20

MAMATHVALLLVSALALVTSVQSGYAGSDWISGVAHATFYGGVDAQGTQGGACG
YGNLYSTGYGTSTTALSSALFNAGLSCGACFELKCDSANSKYCLPGDKSITVTATNY
CPQGS DGGWCDS PKQHFDLSHPMFTSLAQEVGGVIPV TYRRAPCAKKGGMRFTING
NPWFVMILVTNCGGAGDVQQLQIRGSDTPWYPCVRN WGQMWQMTSDPNLPGKAL
SFRATLSDGSVAESLNAASNWGWGQTFEGVATY*

CDS (coding sequence)

>PpEXPA-20

ATGGCGATGGCTACCCATGTTGCGCTCTTGCTCGTATCGGCTCTAGCGTTGGTGAC
TTCGGTGCAGTCTGGGTATGCTGGCAGCGACTGGATCAGCGGCGTTGCTCATGCG
ACGTTCTACGGTGGCGTGGACGCACAGGGA ACTCAAGGTGGAGCTTGCGGTTAC
GGAAACCTCTACTCAACCGGATATGGCACCAGTACCACCGCACTCAGTAGTGCTT
TGTTTAATGCGGGCCTTAGCTGCGGAGCCTGCTTCGAACTCAAGTGCGACAGCGC
CAACTCCAAGTACTGTCTTCCAGGGGACAAGTCCATCACAGTTACAGCAACGAAC
TACTGTCCTCAGGGCTCAGATGGCGGGTGGT GCGATTCCCCGAAGCAGCACTTCG
ACCTCTCGCACCCCATGTTACACCAGCCTTGCTCAAGAGGTTGGGGGTGTCATTCCC
GTCACGTATCGGAGAGCTCCTTGCGCAAAGAAAGGCGGCATGAGGTT CACAATT
AACGGCAACCCATGGTTCGTGATGATACTAGTCACCAATTGCGGTGGTGCAGGAG
ATGTGCAGCAACTTCAGATCAGGGGCAGCGACACCCCGTGGTACCCTTGCGTCCG
CAACTGGGGACAGATGTGGCAGATGACCTCGGACCCAAATCTGCCTGGGAAGGC
ACTCTCCTTCAGAGCTACCCTGAGTGACGGCAGCGTGGCCGAGTCTCTGAACGCC
GCGCCCTCCA ACTGGGGCTGGGGTCAAACGTTTCGAGGGCGTCGCTACCTACTAG

Nucleotide

>PpEXPA-20

TATTCATTGACAAAGGACAATTGCGAGATGTGAATCACCAGACACTTCCTGATTT
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GCAGCCA ACTGAAGCTCGGGGAGCGATGGCGATGGCTACCCATGTTGCGCTCTTG
CTCGTATCGGCTCTAGCGTTGGTGACTTCGGTGCAGTCTGGGTATGCTGGCAGCG
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CGACCTCTCGCACCCCATGTTACCAGCCTTGCTCAAGAGGTTGGGGGTGTCATT
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TTTGAATTGCATCAATACTACATCGTGAGTCGCCCAATTGATACGTCACCGCTCAC
TCTCTTTTTCGCTGCCTGTGCTTCTTCAGAGCTCCTTGCGCAAAGAAAGGCGGCAT
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TCCCATTGAAGTAGACACGATGTGGAAATGCCACCCA