

IDENTIFICATION

Species: *Physcomitrium patens*

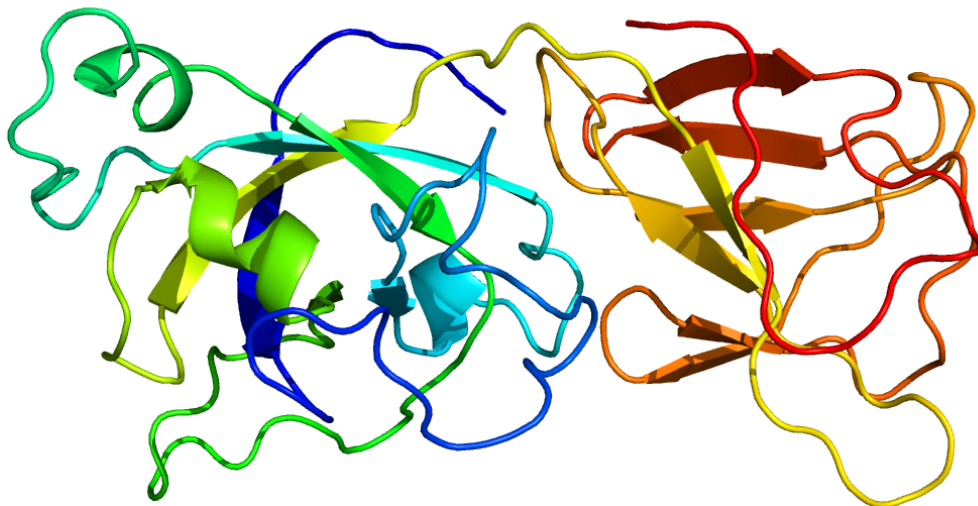
Locus: Pp3c7_12870V3

Gene Model: Pp3c7_12870V3.1.p

Description: PpEXPA-05

Family: Alpha Expansin

3D structure:



GENOME DATABASES

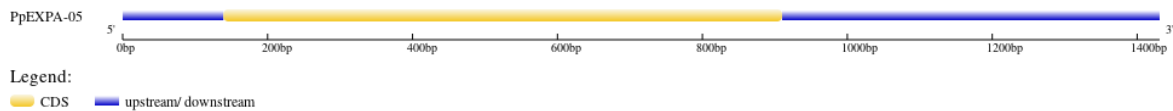
Phytozome: https://phytozome-next.jgi.doe.gov/info/Ppatens_v3_3

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

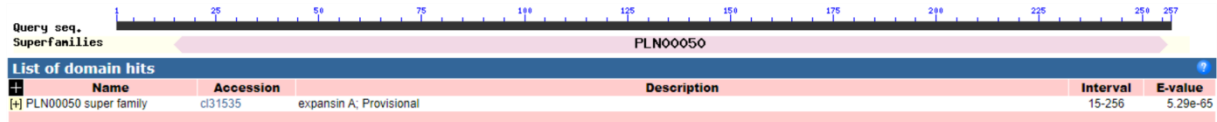
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PpEXPA-05

MTMAAFGVKQTVALLVQLAVVVHSVVGAPPGWQDAHITYYGSPNGGGTQGGACG
YQNTVSLGYGFMTAALSSPLFQGGKACGACFQLQCARVQETRTVKNWCHDYSKAIT
VTATNLCPPGSEG TWCDPPRHFFDLMPAFLSLARQEGGVAPVYYRRVQCLKKGGR
FTMGGNPWFLMVLVHNVGGAGDVVAVKVKCPSSGWYDMYRNWGALWTVQKKM
VGPLSFLTTGDGRRLTAYNAVGNWTFGQTWEGAQY*

CDS (coding sequence)

>PpEXPA-05

ATGACGATGGCTGCATTTCGGCGTTAAGCAAACCGTTGCTCTGCTGGTTCAGCTGG
CGGTGGTTGTCCACTCGGTGGTTGGTGCACCACCTGGGTGGCAGGATGCGCACAT
CACTTACTACGGCTCGCCAACGGTGGAGGGACACAAGGAGGCGCTTGTGGGTA
TCAGAACACAGTGTCACTGGGATACGGATTCATGACTGCGGGCGCTAAGCTCTCCT
TTGTTTCAGGGTGGAAAGGCTTGCAGTGCCTGCTTCCAACCTCAATGTGCTCGAG
TTCAGGAAACCCGAAGTGTGAAGAATTGGTGCCATGATTACTCGAAGGCCATCAC
CGTCACCGCCACCAATCTGTGCCCCCAGGATCTGAAGGAACATGGTGCATCCT
CCTCGGCATCACTTCGACTTGCCAATGCCCGCTTCTTGTCGCTTGCAAGGCAAGA
AGGAGGAGTTGCTCCAGTTTACTACAGGAGGGTGCAGTGTGTTGAAGAAGGGCGG
AATCCGGTTTACCATGGGAGGCAACCCTTGGTTTCTGATGGTACTTGTTCACAATG
TTGGCGGTGCAGGCGATGTAGTGGCCGTGAAAGTGAAGTGCCCTCTTCTGGGTG
GTATGACATGTACCGGAATTGGGGTGCATTGTGGACCGTGCAAAGAAGATGGT
GGGACCCTTATCTTCTTACTCACCACGGGCGACGGTTCGCAGATTAAGTGCCTAC
AATGCAGTGGGCAACGGTTGGACTTTCGGCCAGACTTGGGAGGGCGCTCAATACT
AG

Nucleotide

>PpEXPA-05

ATCTTCCACTGCAGCAAAGGTTGGTCCCTCTAGCGTTCGTAGTAGTTTGAGTGTTGT
CTCTCATGACTATCTAGCAGCAAGCGAGTTACCTGTTGGGTTTTGGAGTCATTTGT
CCCGTAGACGTGCTCTACTAGAGGATCATGACGATGGCTGCATTCGGCGTTAAGC
AAACCGTTGCTCTGCTGGTTCAGCTGGCGGTGGTTGTCCACTCGGTGGTTGGTGC
ACCACCTGGGTGGCAGGATGCGCACATCACTTACTACGGCTCGCCAACGGTGGGA

GGGACACAAGGAGGCGCTTGTGGGTATCAGAACACAGTGTCACTGGGATACGGA
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GTGCCATGATTACTCGAAGGCCATCACCGTCACCGCCACCAATCTGTGCCCCCA
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CCGCTTTCTTGTCGCTTGCAAGGCAAGAAGGAGGAGTTGCTCCAGTTTACTACAG
GAGGGTGCAGTGTTTGAAGAAGGGCGGAATCCGGTTTACCATGGGAGGCAACCC
TTGGTTTCTGATGGTACTTGTTTACAATGTTGGCGGTGCAGGCGATGTAGTGGCC
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CATTGTGGACCGTGCAAAAGAAGATGGTGGGACCCTTATCTTTCTTACTCACCAC
GGGCGACGGTCGCAGATTAACCTACAATGCAGTGGGCAACGGTTGGACTTTC
GGCCAGACTTGGGAGGGCGCTCAATACTAGTTATGAACCTTAGACCTTGCGGGCA
GCGATCTTGCTTCTTCTTCAACGCCGAAAGGAGGCTCATGCCAGGTGATCCGTGA
TGTGCTTGGGGGGTGCCTCATAGCGCAGCTGTATGTAGCTGCCAGGCCGCGCAG
AGAGCTTGCGAAGATGAAGTTTTGATCAGATGGGTCCTCCTTGGCGCGTGGTCAA
GGGATTGCATGCAATAGTATCTTAGGCTGGTGTAGGTTTATGTTGCCAGGAGGA
ATTTCTTGTTCCTCGTGTGCTGGGAGTAAGTAGGAAATCTACATTGTTGGAAATG
GCTGAGCAGTGCTGAGTAAATTTACTGCCGCCTTAATTGAATGATTCTTGAATTA
GCTGCGTGTTGCGAACTTTTGTTCACGAAGTATTCGAAATTCTGCAATACAATG
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GGACTAAGTTGAAATGCACACCGCTTCACACAATCTACCCGTTGCGGAAAAGAGC