IDENTIFICATION

Species: *Physcomitrium patens*

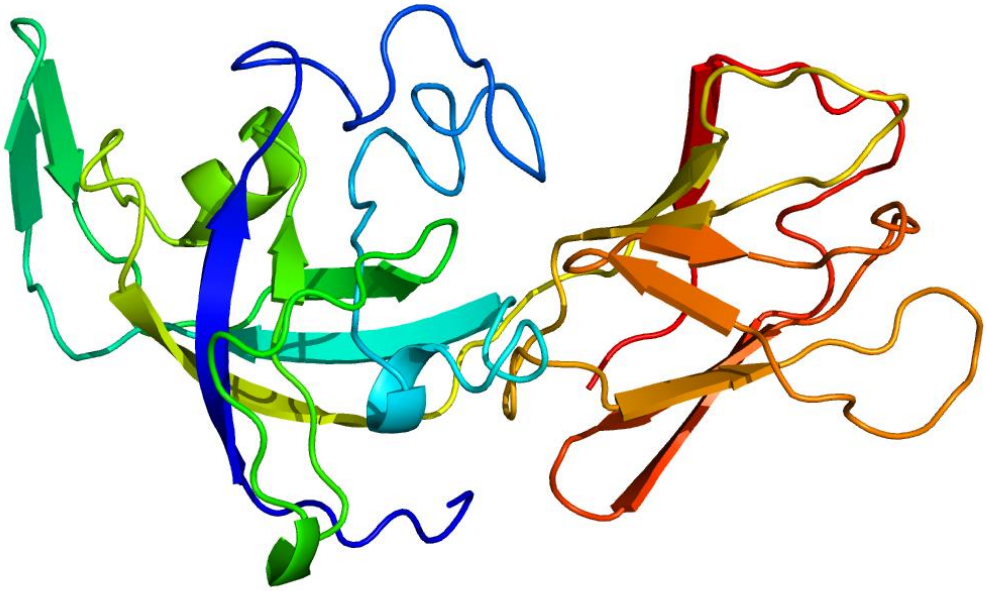
Locus: Pp3c14_18440V3

Gene Model: Pp3c14_18440V3.3.p

Description: PpEXPA-25

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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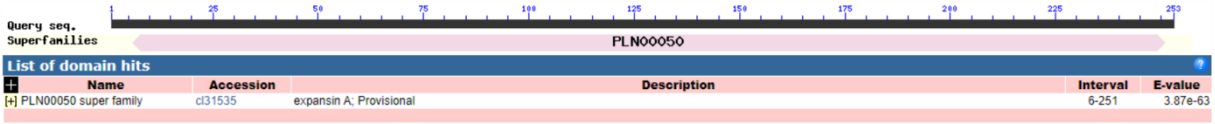
GENE STRUCTURE

DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PpEXPA-25

MKAAACVGMAALMALSVLPCVVGAPYGWSEAHITYYGTASGGGTQGGACGYPNT
FAMGYGAMTAALSYPLFQGGKACGGCYQLRCKWVTPTRTVHNWCWSYSRTITVTA
TNSCPPGSHGGWCNWRPHFDLPMPAFLTLARREGGVAPVYYRKVRCAKRGGIRFTI
GGNPYFLMILIHNVGGAGDLKAVKVRGGNGYWVPMWRNWGALWTCKTRMSGALS
FQITTGDGRTLTTYKAVGGYWRFGQTWEGSQFR*

CDS (coding sequence)

>PpEXPA-25

ATGAAGGCCGCAGCTTGCGTTGGCATGGCCGCCTTGATGGCGCTGAGCGTCCTGC
CTTGCGTGGTGGGAGCGCCGTACGGGTGGAGTGAGGCGCATATCACGTACTACG
GAACAGCTAGTGGCGGTGGCACGCAGGGAGGCGCCTGCGGGTATCCGAACACCT
TTGCGATGGGATACGGGGCGATGACCGCAGCGTTGAGTTATCCTCTGTTCCAGGG
CGGAAAGGCATGCGGCGGGTGCTATCAGTTGCGGTGCAAGTGGGTGACGCCAAC
CCGAACCGTGCACAACTGGTGCTGGAGCTACTCTCGCACCATCACCGTGACCGCA
ACAAACTCGTGCCCTCCAGGGTCGCACGGAGGTTGGTGCAACTGGAGACCTCACT
TCGACTTGCCAATGCCTGCTTTCCTGACGCTGGCACGGCGTGAGGGAGGAGTGGC
TCCGGTGTATTACAGGAAGGTCCGGTGCGCGAAGCGCGGCGGAATTCGGTTCACC
ATCGGAGGCAACCCGTACTTCTTGATGATCCTGATTCACAACGTGGGAGGGGCGG
GCGATTTGAAGGCAGTGAAGGTCAGGGGAGGAAACGGATATTGGGTGCCCATGT
GGCGCAACTGGGGCGCGCTGTGGACATGCAAAACGAGGATGAGCGGAGCACTGT
CTTTCCAGATTACGACGGGCGACGGGCGCACTTTGACGACTTACAAAGCCGTGGG
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Nucleotide

>PpEXPA-25

CTGCAGGTGCAGCCTGACAGCCTTGGCACCGCGGGGGAAGGCAGTTTGCTTTTCC
CGGTGTGCGATCGCCAAGTACTTCCGCACCCGTACTTGTTGTAATTAGAGGACGA
GCTATTCCCGGATTCTTGGTCAGACATGGTAGAAGCTTCGCATCCTCCGGGAGAA
AAATGTGGTGGTGTGCATAAGTGCTGCGCCGAGGCCGTTGGTCTTCGCATTCTTA
TTGCTTGTGTCGTCACGGACCGTGAAGTCGTTGGATCCCTTCCACCTACAGGGCC
AGTACATGAAGCAGGCCTTGATGGTCTCTTCCGGATGAGCGCATCACAGCAACCG

AGTCTGTAGACTTCGAGCCCACTCAGACACAGCTTCGCATCTCTGCCCATACTAG
CTCGACCAGGTGGCCATGAGGACTTCGGGCGCAGTATCCAGCATGAAGGCCGCA
GCTTGCGTTGGCATGGCCGCCTTGATGGCGCTGAGCGTCCTGCCTTGCGTGGTGG
GAGCGCCGTACGGGTGGAGTGAGGCGCATATCACGTACTACGGAACAGCTAGTG
GCGGTGGCACGCAGGGAGGCGCCTGCGGGTATCCGAACACCTTTGCGATGGGAT
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CGGCGGGTGCTATCAGTTGCGGTGCAAGTGGGTGACGCCAACCCGAACCGTGCA
CAACTGGTGCTGGAGCTACTCTCGCACCATCACCGTGACCGCAACAAACTCGTGC
CCTCCAGGGTCGCACGGAGGTTGGTGCAACTGGAGACCTCACTTCGACTTGCCAA
TGCCTGCTTTCCTGACGCTGGCACGGCGTGAGGGAGGAGTGGCTCCGGTGTATTA
CAGGAAGGTCCGGTGCGCGAAGCGCGGCGGAATTCGGTTCACCATCGGAGGCAA
CCCGTACTTCTTGATGATCCTGATTCACAACGTGGGAGGGGCGGGCGATTTGAAG
GCAGTGAAGGTCAGGGGAGGAAACGGATATTGGGTGCCCATGTGGCGCAACTGG
GGCGCGCTGTGGACATGCAAAACGAGGATGAGCGGAGCACTGTCTTTCCAGATT
ACGACGGGCGACGGGCGCACTTTGACGACTTACAAAGCCGTGGGCGGGTACTGG
AGGTTCGGACAGACCTGGGAAGGATCCCAGTTCAGGTAGGTAGATTGTAGCGGA
CCTCGACGCTGAGCGCAGCATCGGTGGCGACAGTCGCTGCGACTGATGGGGAAA
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ATGTGCGTGGATGTCACAGGTCAAACTGCCTTGTGGCGTGTTGAGGAGGTTTAGA
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TGAAACGATACGGTGGCTCAATGCTTTAAATATTAATAGCAATTTGTTAGAAATG
TTTTAAATTAAGTTGTTTAAGAAAATTTTTGAAG