IDENTIFICATION

Species: *Physcomitrium patens*

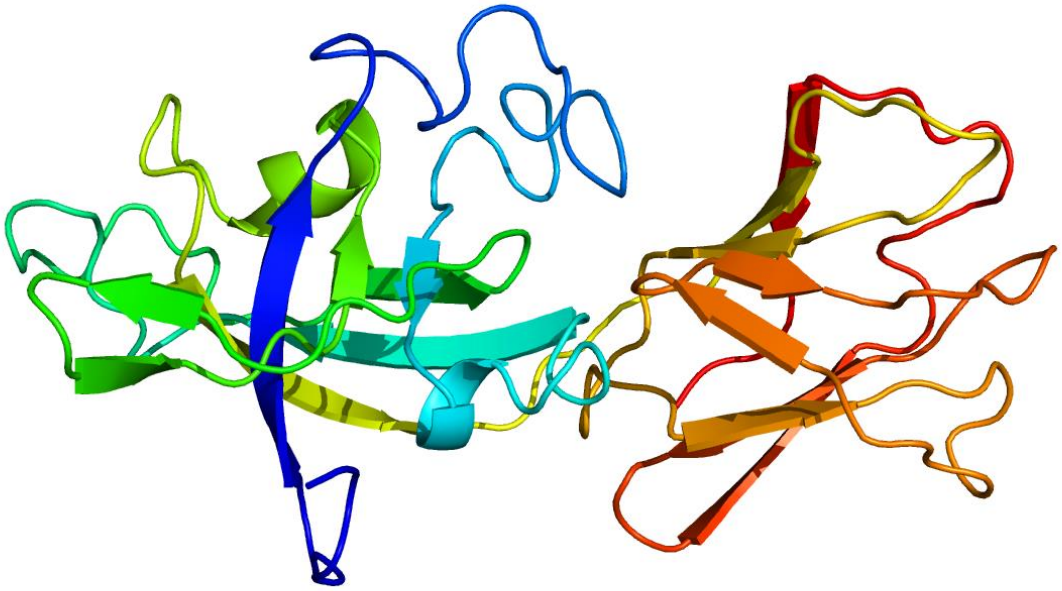
Locus: Pp3c14_18030V3

Gene Model: Pp3c14_18030V3.1.p

Description: PpEXPA-23

Family: Alpha Expansin

3D structure:



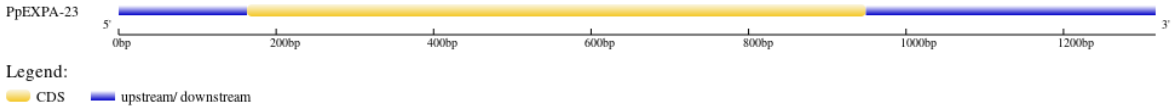
GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Ppatens_v3_3
KEGG: https://www.genome.jp/entry/gn:T01041

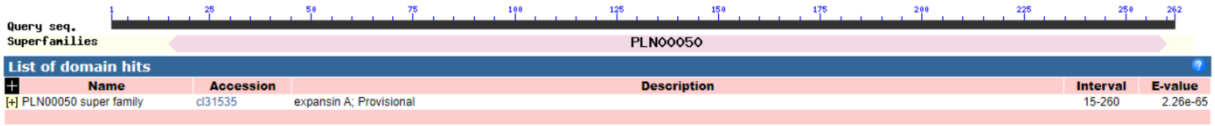
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PpEXPA-23

MSTTRALSSMKLAVCIAAVAILALNSLPSVLGAPYGWKEAHITYYGTANGGTQGG
ACGYPNTFAMGYGVMTAALSYPLFQGGKSCGACYQLKCKWLAPTRTVHNWCWSY
SRTITITATNSCPPGSHGGWCDWKPHFDLPMPAFMTLARREGGVAPVYYRKVRCAK
RGGIRFTLGGNPYFMMILIHNVGGAGDLRAVKIKGRNGYWVPMWQNWGALWTCK
TKLSGALSFQITTGDGRTVTVNRAVGDYWKFGQTWEGSQFR*

CDS (coding sequence)

>PpEXPA-23

ATGTCGACTACGAGAGCCTTATCCAGCATGAAACTCGCAGTTTGCATTGCCGCAG
TCGCTATTTTGGCACTGAACTCCCTGCCTTCGGTGCTTGGAGCACCATACGGATGG
AAGGAGGCGCATATCACGTACTATGGAACAGCTAATGGCGGTGGCACACAGGGA
GGCGCATGCGGATATCCGAACACCTTTGCGATGGGATACGGGGTGATGACCGCA
GCATTGAGTTATCCTTTGTTCCAGGGCGGAAAGTCTTGCGGGGCGTGTTACCAGC
TGAAGTGCAAATGGCTGGCGCCCACTCGCACCGTTCACAACTGGTGCTGGAGCTA
CAGTCGCACCATCACTATCACTGCAACAAACTCGTGCCCTCCAGGATCGCACGGA
GGTTGGTGCGACTGGAAGCCTCACTTCGACTTGCCCATGCCTGCTTTCATGACATT
GGCGCGGCGTGAAGGAGGAGTGGCCCCCGTGTACTACAGAAAGGTTCGGTGTGC
GAAGCGCGGCGGAATTCGGTTTACCCTTGGCGGCAACCCATACTTCATGATGATC
TTGATTCACAACGTGGGAGGTGCAGGCGATTTGAGGGCAGTGAAGATCAAGGGG
CGGAACGGATATTGGGTACCAATGTGGCAGAACTGGGGTGCGCTGTGGACATGC
AAAACGAAGTTGAGCGGAGCATTGTCTTTCCAGATCACGACGGGCGACGGGCGC
ACTGTGACGGTTAACAGAGCAGTTGGAGACTACTGGAAGTTTGGACAAACGTGG
GAGGGCTCTCAGTTCCGATAG

Nucleotide

>PpEXPA-23

ATTCCGCACTGCAGACGGTGAGCTTCTCATTCTGCACATGTAGGGCCAGACGTGG
GTTTGATCATTTCTTCCTCATGACCGCGTCCCGGAAGCCGGATCCTTAGACCTCGA
CAGCCTCTGCCACACTCTGGTTCTCATCTGCCCAGGCCAGCTCGAATTCATCATGT
CGACTACGAGAGCCTTATCCAGCATGAAACTCGCAGTTTGCATTGCCGCAGTCGC
TATTTTGGCACTGAACTCCCTGCCTTCGGTGCTTGGAGCACCATACGGATGGAAG

GAGGCGCATATCACGTACTATGGAACAGCTAATGGCGGTGGCACACAGGGAGGC
GCATGCGGATATCCGAACACCTTTGCGATGGGATACGGGGTGATGACCGCAGCAT
TGAGTTATCCTTTGTTCCAGGGCGGAAAGTCTTGCGGGGCGTGTTACCAGCTGAA
GTGCAAATGGCTGGCGCCCACTCGCACCGTTCACAACTGGTGCTGGAGCTACAGT
CGCACCATCACTATCACTGCAACAAACTCGTGCCCTCCAGGATCGCACGGAGGTT
GGTGCGACTGGAAGCCTCACTTCGACTTGCCCATGCCTGCTTTCATGACATTGGC
GCGGCGTGAAGGAGGAGTGGCCCCCGTGTACTACAGAAAGGTTCGGTGTGCGAA
GCGCGGCGGAATTCGGTTTACCCTTGGCGGCAACCCATACTTCATGATGATCTTG
ATTCACAACGTGGGAGGTGCAGGCGATTTGAGGGCAGTGAAGATCAAGGGGCGG
AACGGATATTGGGTACCAATGTGGCAGAACTGGGGTGCGCTGTGGACATGCAAA
ACGAAGTTGAGCGGAGCATTGTCTTTCCAGATCACGACGGGCGACGGGCGCACT
GTGACGGTTAACAGAGCAGTTGGAGACTACTGGAAGTTTGGACAAACGTGGGAG
GGCTCTCAGTTCCGATAGATCGGTCGACATGGAACTGGATCATGAGAACAAGCTC
GCTAGCATTGGTCGTTTCGATTGATGGGAACATGGCGACGCTCCTCGGTCCGAGA
TGTGCATGTCATATGGCCCGTCCGACCGTGCGAAGCAGATCTCGCTTTCTTGATG
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GTCCTTTGAGCCAGCTAATCGTGCTGGGTGATTGTTATTTGATCTCATATTTGAGA
ACATCTTTGAGCAATAAAAAGATCAACATCTTCGTCTGATTTAAACATTTACAT