

IDENTIFICATION

Species: *Physcomitrium patens*

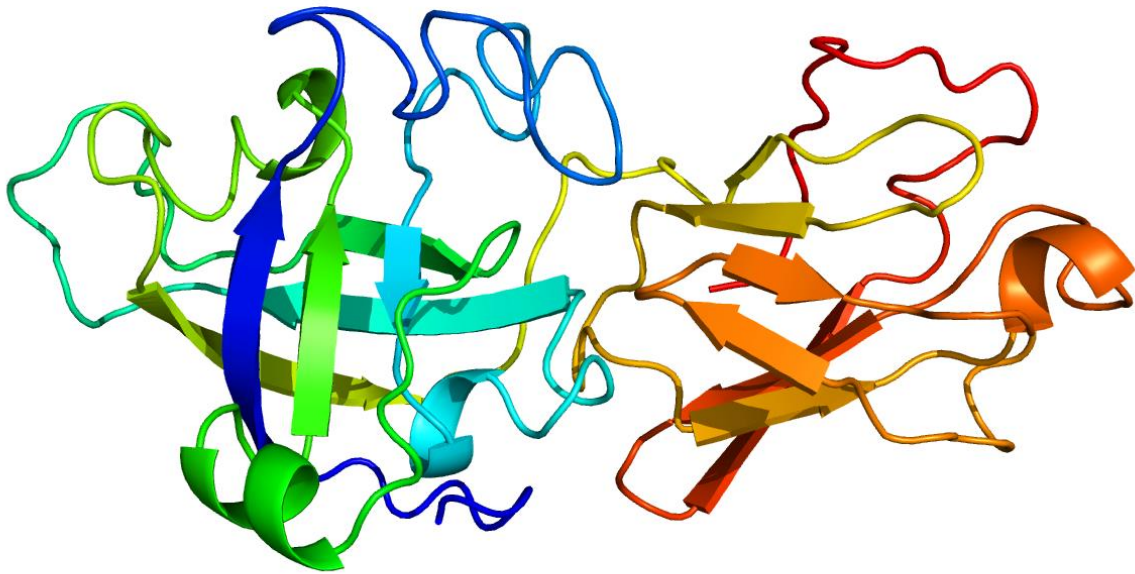
Locus: Pp3c21_1890V3

Gene Model: Pp3c21_1890V3.1.p

Description: PpEXPA-35

Family: Alpha Expansin

3D structure:



GENOME DATABASES

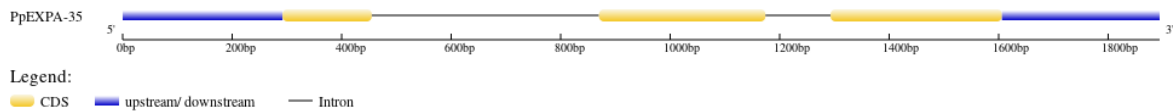
Phytozome: https://phytozome-next.jgi.doe.gov/info/Ppatens_v3_3

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

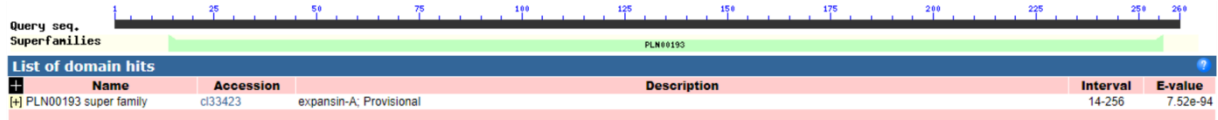
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PpEXPA-35

MTQVIRLTMVPSVAVALLVMLCGCVSQAAGYGPGGWDKGHATYYGEGDARGTM
GGACGYSNLYSTGYGVNTAALSGPLFNGGATCGACYELTCILNESKWCYRGKNIIVT
ATNFCPSGSTGGWCNPPQKHFDLSEPMFTTLANRVGGVIPVNFRRVACYKQGGMRF
TINGNPYFFIVLVYNVAGAGDVQQVYIKGPKTQWLQMYRNLWGSQWTFNGGPNNIV
GSALSFRVHTSDGRQVISYNAAPANWWFGQTFSSGAN*

CDS (coding sequence)

>PpEXPA-35

ATGACGCAGGTGATCCGGCTGACGATGGTGCCGTCCCCGGTGGCGGTTGCTCTGC
TCGTGATGCTGTGCGGGTGCCTTCGCAGGCGGCTGGTTACGGCCCTGGTGGATG
GGACAAAGGTCACGCAACGTAATGGGGAAGGGGATGCACGCGGCACCATGGG
AGGTGCTTGCGGGTATAGTAATTTATACAGTACCGGTTACGGTGTCAACACTGCT
GCTCTGAGTGGGCCGCTATTCAACGGTGGAGCCACTTGCAGCATGCTACGAGC
TGACCTGCATTCTCAACGAATCCAAATGGTGCTACAGAGGCAAGAATATTATAGT
CACGGCCACCAACTTCTGTCCCTCGGGATCCACGGGAGGGTGGTGCACCCACCC
CAGAAGCACTTTGACCTATCCGAGCCCATGTTACCCACTTGCTAACAGAGTCG
GAGGCGTCATTCTCAACTTTTGAAGGGTGGCGTGTTACAAGCAAGGAGGGAT
GCGCTTACCATCAACGGAACCCCTACTTTTTTATCGTGCTCGTTTACAACGTAG
CGGGCGCTGGCGACGTGCAACAGGTGTATATCAAGGGCCCCAAGACGCAATGGT
TGCAAATGTACCGCAACTGGGGGTCTCAGTGGACATTCAATGGGGGGCCCAATA
ACATAGTCGGGAGTGCCTCTCCTTCCGAGTTCATACCAGCGACGGCCGCCAAGT
GATCTCCTACAACGCGGCCCCAGCGAACTGGTGGTTTCGGCCAACTTTCAGCAGT
GGCGCTAATTAG

Nucleotide

>PpEXPA-35

GCTCGTCTGCACTACGTAAAGGGCGGTTGCTGCCATCCGTTACACATCCCATTTT
TACATAGCGAGCTACCTACCCATCCAGGATTGACAGCTCATTCCCCTTCCCACTCC
AGTTACGAATTCCGCCTCGCTTTCGAATCCCACTTGTGATCCACAGTCCCACTGGA
ATCCATCGTCACCAGGTGTTGCAGGACAGCACAAGTGCCGTCAATTGGGTTTCTT
GATTGGAATTGTGTGTGTTTTCTTTTTTTGAGTTTCAACACAGTGTGGGTCGGTTA

GTGCAATTCGACAATGACGCAGGTGATCCGGCTGACGATGGTGCCGTCCCCGGTG
GCGGTTGCTCTGCTCGTGATGCTGTGCGGGTGC GTTTCGCAGGGCGGCTGGTTACG
GCCCTGGTGGATGGGACAAAGGTCACGCAACGTACTATGGGGAAGGGGATGCAC
GCGGCACCATGGGTACGTAATCTTCTCGATCTTTTCAGCTGGAATGTGTGCGCTTG
CTTGGTGCCAATCTGTGCAGCAGCAGCAGCCTTCATGGTTGTATAAATTCATCTCAG
GCGAGTGAGCAAGCGAGCGAGGGTTCCTCGATGTGATATAGTTTTGTGCCAGTCT
CTGTCTGCAGCCGATCAGGATGTAGTTGATGCAGAATTGACCGGACGCATTCAAG
CTCGTTACAGTGGACTGGGAATGGGCTGATTCAGAAAATTCGTGATGAAATTGCA
TGAACATATTAGGATTGGTCAGCTGATTATTTTTGAGGATCTGCCCATCTTAAACC
CCAGACAGTATCCTCATGATTCCTACATTTGAGAAGATTGTTGGGAAATCATTTTG
GTTGACATCAGTTGTGCATTTGTTGACACAATGTGCAGGAGGTGCTTGCGGGTAT
AGTAATTTATACAGTACCGGTTACGGTGTCAACACTGCTGCTCTGAGTGGGCCGC
TATTCAACGGTGGAGCCACTTGCGGAGCATGCTACGAGCTGACCTGCATTCTCAA
CGAATCCAAATGGTGCTACAGAGGCAAGAATATTATAGTCACGGCCACCAACTTC
TGTCCCTCGGGATCCACGGGAGGGTGGTGCAACCCACCCAGAAAGCACTTTGACC
TATCCGAGCCCATGTTACCCACACTTGCTAACAGAGTCGGAGGCGTCATTCTGT
CAACTTTCGAAGGTACTGCAAATCTCCTCGTTGCACCGAATGTTTCAAGTTGATCC
AATTACGCTCCGCAAAGCAGAATGAGCCCGTGCCACAAACACATAATGTCCCATC
GGTTGTATTTTGTGATGCAGGGTGGCGTGTTACAAGCAAGGAGGGATGCGCTTCA
CCATCAACGGAAACCCCTACTTTTTTATCGTGCTCGTTTACAACGTAGCGGGCGCT
GGCGACGTGCAACAGGTGTATATCAAGGGCCCCAAGACGCAATGGTTGCAAATG
TACCGCAACTGGGGGTCTCAGTGGACATTCAATGGGGGGCCCAATAACATAGTCG
GGAGTGCGCTCTCCTCCGAGTTCATAACCAGCGACGGCCGCCAAGTGATCTCCTA
CAACGCGGCCCCAGCGAACTGGTGGTTCGGCCAACTTTCAGCAGTGGCGCTAAT
TAGATGCGGTTTCGGCCAAGCTTTTCATCGATGCAGCTGCAGAGATATCGTAGATT
TGGCCTCCGTCAATCACTCATCTCTGTTGTGTAGACTAAGCAGTGGCGTGGTTTTT
TCGCATCCGCCCGCTCCAGCTCCAAGCCATCCCTATCCTACTTGTTGTGATATCAG
CGTCCTGAATAACATTGCAATGTCGTCGCCAGCCATGACGAACTGATTGCAAGCA
TAGGAAACCTCTTAGACAGACAGAGATATATCTATATATATATATATATATATAT
ATATAATGACGTCT