

IDENTIFICATION

Species: *Physcomitrium patens*

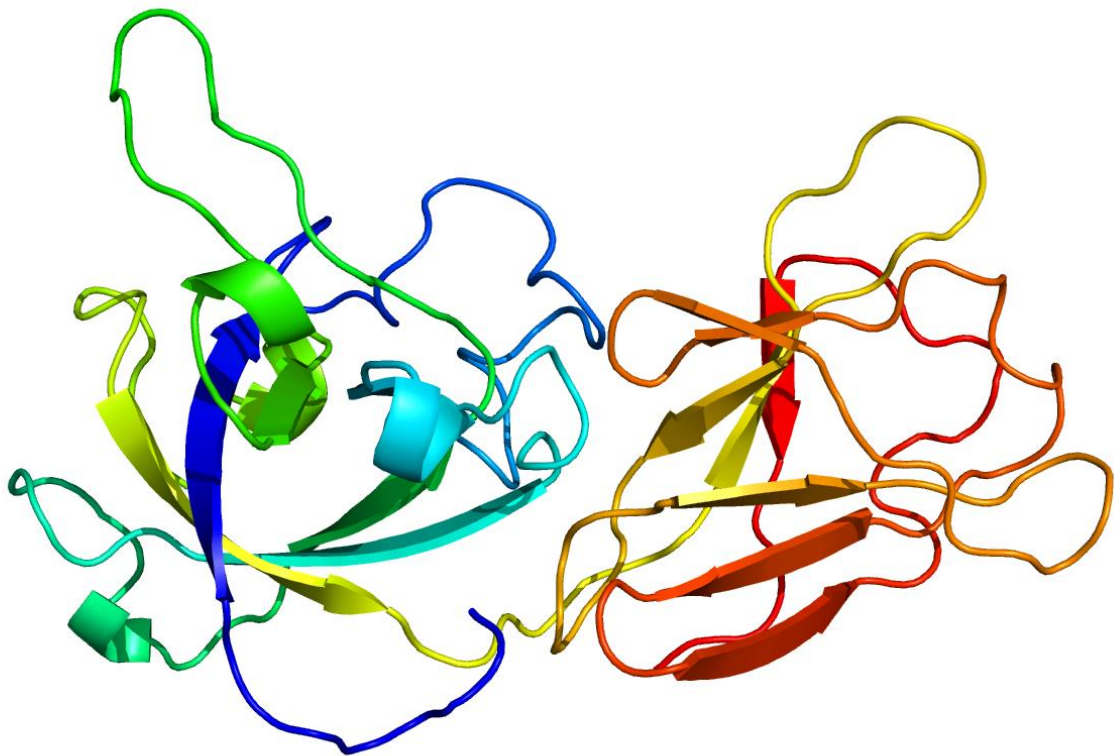
Locus: Pp3c20_5780V3

Gene Model: Pp3c20_5780V3.1.p

Description: PpEXPA-32

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>

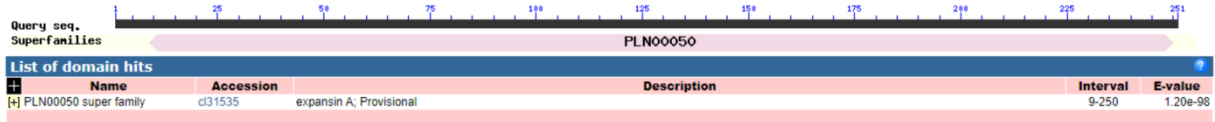
EXTERNAL RESOURCES

-

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PpEXPA-32

MAKFSAQIVVAFMVLLAQVRAESGWNEAHATFYGGSDAGGTTGGACGYGDLYST
GYGTSTVAISSALFDRGLACGACYQVKCAGSSSECRSDSPAIQVTVTNFCPPNPSLPED
NGGWCNLPLHHFDMSMPAFEQIATYKAGIVPVMYRRTSCVRTGGIHFTMSGHNFMN
LVLVTNVGGMGDVQSVSIRGSKTSWVTMTRNFGQIWQSTVNMSGQSLSFMVTTSDG
KTVVSNNVAPPDWAFGQTYEGSQF*

CDS (coding sequence)

>PpEXPA-32

ATGGCAAAGTTCTCAGCCCAGATTGTGGTGGCGTTCATGGTGTGTTGGCGCAAC
AAGTTCGTGCTGAAAGTGGATGGAACGAAGCTCATGCTACATTTACGGTGGTAG
CGATGCCGGTGGCACAACAGGTGGTGCTTGCGGGTACGGAGATCTCTACAGCACT
GGCTATGGCACCAGCACAGTCGCCATAAGCTCAGCTCTTTTCGACCGTGGCCTCG
CATGCGGTGCGTGCTACCAGGTGAAGTGTGCGGGGAGTTCCTCCGAGTGCCGCTC
TGACAGCCCAGCTATTCAAGTTACTGTCACCAACTTCTGCCCTCCTAATCCCTCCT
TGCCTGAAGACAACGGCGGATGGTGCAACCTCCCTCTGCATCATTTGACATGTC
CATGCCTGCCTTCGAGCAAATCGCAACTTACAAGGCCGGCATTGTGCCTGTGATG
TACCGAAGGACTTCTTGTGTAAGGACTGGTGGCATTCACTTCACCATGAGCGGTC
ACAACCTCATGAACTTGGTGCTTGTACCAACGTCGGAGGCATGGGGGACGTGCA
ATCCGTGTCCATTCGAGGTTCCAAAAGTGGGTGACAATGACCAGGAACTTT
GGGCAGATATGGCAGAGTACCGTCAACATGAGCGGCCAGAGCCTCTCCTTTATGG
TGACGACTAGCGACGGCAAGACTGTGGTCTCCAACAACGTAGCGCCTCCCGATTG
GGCGTTCGGCCAAACATACGAAGGATCGCAATTCTGA

Nucleotide

>PpEXPA-32

TGATAACGGGGTACTTAGTCCGGCCGACGCTGTAGGGGGCAGCCATGCACATG
ACTGACTGACCGACCGACCGCCGCTGTTGCTGCTTCTGCTGCTCGCTCTCCGCCTG
CGCGCTTCGCATCCGCCCTCGCTGCGGCACCAGCACCAGCACCACCAAGGCACGC
GAGGCTACATCACGTCAGTGCCTGTGAACGGGGGATTTTGAGCCGGGGCAGGG
GCTGTTGTTGGTCCCTGCAGCTTCATTCATTCATTCACATACACACACTTAC
ATAGATACACATACCCTCCCACTCATCCCACTCATGCACCACTCTTCC

CGGCGCTGCATGTTATGATCCTCATCACCTGCTGTGACCAAACGCTCTCCCTGCTT
CTGCTACTCCACAGATTGCATGTGTGCTTCTCGTGCGTGTCTCTCCTGCACCAAGA
GCTAACCCCGTGAAACCGACGCCCTTGTCTGCTGGGTATTTCCCGCCCGTGAA
GGTTGCGAGATTGGGTTGTGATCGCGTGGTGGTGTTCGTTGTGTGAAGTGTGACA
ACTTTCTTGTCCAGCGTATAGACTTTCGAAGTATGGCCATGGGTTTGGTGCATTTG
TGCTTATTCTTAGCAATCTTGTTCGTGTGTTGGTTATTGCATTTGCTTGTGTGGTGCT
CTTAGGTTACCGAGTGATGTCCCCAAGCGAAGTTGGGGTAAACATTTTAAGTGAA
AAAATGCAGGGTAAATGAAGCTCTTGTGATGAGCGTCGTGAATAGGACTTCTGGG
TGCAGATCGAGACAGAAGAGGTGTAGCTCAGGATCAGGGTATTGAGATTGAGTA
TGTGCGAGCTATTAGTTTCGGGGTTCTGAAGCTGCCGCAGTCAGTGCAAGGGCGT
TTAAGAATCAACGACGGCGTTCTTTTATCGCCATGTCAATTTGCACATGCTCTGCA
ATAATGATTTAGTAGTGGGGTTGAGCGTGGCCTAATCAGAGGACGGAATGGGCTT
ATTCCTTGTGCAGAACTATGGCAAAGTTCTCAGCCCAGATTGTGGTGGCGTTCAT
GGTGTGTGGCGCAACAAGTTCGTGCTGAAAGTGGATGGAACGAAGCTCATGCT
ACATTTTACGGTGGTAGCGATGCCGGTGGCACAACAGGTA CTGAGGCTCCACCA
TAGCCGAGTCCAACTTGCAACTCGTTCACTTAACTACTGCCCTAAGGTTGTGTA
GTTAAGACATAAAGTGAATCTCTCCGGTTGTTCAATTCAGGTGGTGTGCTTGCGGGTA
CGGAGATCTCTACAGCACTGGCTATGGCACCAGCACAGTCGCCATAAGCTCAGCT
CTTTTCGACCGTGGCCTCGCATGCGGTGCGTGCTACCAGGTGAAGTGTGCGGGGA
GTTCTCCGAGTGCCGCTCTGACAGCCAGCTATTCAAGTTACTGTCACCAACTTC
TGCCCTCCTAATCCCTCCTTGCCCTGAAGACAACGGCGGATGGTGC AACCTCCCTCT
GCATCATTTGACATGTCCATGCCTGCCTTCGAGCAAATCGCAACTTACAAGGCC
GGCATTGTGCCTGTGATGTACCGAAGGTGTGCAGTTGTGATTTGCACGCTCATTGT
CAGTTTTGGAATCCTCGAGAATTTCCGACAGGTCGTGATTGTTAACTTGTGTGAT
GTTTTTGAAAATTTCAAGGACTTCTTGTGTAAGGACTGGTGGCATTCACTTCACCAT
GAGCGGTCACA ACTTTCATGAACTTGGTGTCTTGTACCAACGTCGGAGGCATGGGG
GACGTGCAATCCGTGTCCATTCGAGGTTCCAAA ACTAGTTGGGTGACAATGACCA
GGA ACTTTGGGCAGATATGGCAGAGTACCGTCAACATGAGCGGCCAGAGCCTCT
CCTTTATGGTGACGACTAGCGACGGCAAGACTGTGGTCTCCAACAACGTAGCGCC
TCCCGATTGGGCGTTCGGCCAAACATAACGAAGGATCGCAATTCTGACTCCAATC
AAAGACGTAGAATGTCTACTAAACCATTCTGACTTGCATCAGCTCCATGTTAC
TTGAACATTCAGGAGGATCAGTGCATTGGGTGAATTCATTTTTGAAGTTATTGAA
GCAATGGGTGCCACATTGGCTAATGCGGTGTTAGAGCTATAGCCATCCATGGCCC
ACGGTGAGGATGCTAAGTACGGCAACCCAATGTGGTGGAGAATTATTAATATGTG
TATATGCAGTAGACAGTCCAGATCTGAAGAAGAGTAGGAGCTTAGGTTATCTAGT
CTGAGTGGCCGGTACAACACCCCTAAAATCGTTCAAGCTTGTACATTGTTCGGTGT
CTCTTTCCACTGTGGTCTTCACCTTTCCTTTCAATGCAACAGTTGAAACTAAGTCC
CTTGTACTTAACGCGGTGCATTTGTATCCGTTGTGTTTCAGTGAATAATATCACGT
TGTGAAGTGTGGATAGTAGAGATTTAACTCGTGCTCACATGTCAAATCTGTGATG
CAGTTGAGGAAGTGCAGCTTGTGACACTGTTGAAATCAATGTTTTGTAATTAATG
CCAAGCAGAGTCTAGTGGTACTCGTGAACCTTGTG