

IDENTIFICATION

Species: *Phaseolus vulgaris*

Locus: Phvul.006G086800

Gene Model: Phvul.006G086800.1.p

Description: PvEXPA-11

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Pvulgaris_v2_1

KEGG: <https://www.genome.jp/entry/gn:T03093>

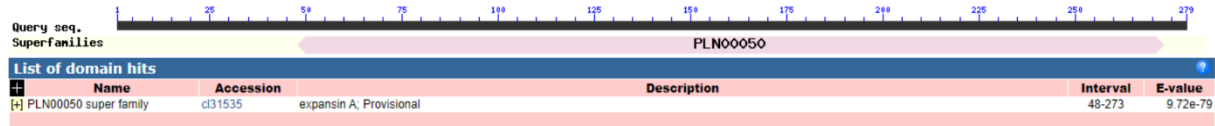
EXTERNAL RESOURCES

<https://www.pulsedb.org/organism/636>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PvEXPA-11

MSKLALLFLLFTFFNSSTVTSLYSPSPAAPFSQTIPDPDSSPRAEWLFAHATHYAAA
EALGGACGYADIPNGMATAALSEALFDRGQICGACFELRCLEEDSDFDRRWICISGAS
VVVTATNFCAPNYGSDAESLSGHENPPKQHFVLPPIEVFEKIAIWKSGSGNMPVQYRRI
ECRREGGIRFTISGSGIFISVLISNVGGMGNIVGVKVKGSKTGWLSMGRNWGQNW HV
NALLQNQPLSFELTASDGRTVKSYSVAPKDWTFGQSFQGKQFHDTSI*

CDS (coding sequence)

>PvEXPA-11

ATGTCAA AACTAGCCCTTCTCTTTTTTCTTCTATT CACATTCTTCAATTCTTCAACA
GTCACAAGTTTATATTCTCCTTACCTCCC GCCCGCCGCCATTTTCCCAA ACTATCCC
TGATCCCGACTCCTCTCCACGCGCCGAGTGGCTCTTCGCC CACGCCACGCACTAC
GCCGCCGCCGAAGCGCTTGGCGGGCGCTTGC GGCTACGCCGACATTCCCAACGGCA
TGGCCACCGCCGCACTCAGCGAAGCCCTCTTCGACCGCGGCCAGATCTGCGGCGC
CTGCTTCGAGCTCCGCTGCCTCGAGGAGGACTCCGACTTCGACCGCCGCTGGTGC
ATCTCCGGCGCGTCGGTTGTCGTCACCGCCACCAATTTCTGCGCACC GA ACTACG
GATCCGACGCCGAGAGCCTCAGCGGACACTGTAACCCCTCCGAAGCAGCATTTCGT
TCTTCCCATTTGAAGTTTTCGAGAAAATCGCAATCTGGAAAAGTGGCAGCGGCAAC
ATGCCAGTGCAGTATCGCAGGATAGAGTGCAGAAGAGAAGGGGGAATCCGGTTT
ACAATAAGTGGTTCTGGAATCTTCATTTTCGGTTCTGATTAGTAATGTGGGTGGAAT
GGGGAACATTGTGGGTGTGAAGGTTAAGGGTTCAAAA ACTGGTTGGCTTTCCATG
GGTAGAAACTGGGGTCAGAATTGGCATGTTAATGCTTTACTACAGAATCAACCTC
TTTCTTTTGAGCTCACTGCTAGTGATGGAAGAACTGTTAAGTCTTACAGTGTTGCT
CCCAAAGATTGGACCTTCGGACAATCTTTTCAGGGAAAACAATTT CATGACACAT
CAATTTAA

Nucleotide

>PvEXPA-11

AGAAAAGTTACGAAAAGCGAAAAGAAGATCGCCATCGCTTGTATCAACAACAA
CAACGAAACGCAAATCAATGTCAA AACTAGCCCTTCTCTTTTTTCTTCTATT CACA
TTCTTCAATTCTTCAACAGTCACAAGTTTATATTCTCCTTACCTCCC GCCCGCCG
ATTTTCCCAA ACTATCCCTGATCCCGACTCCTCTCCACGCGCCGAGTGGCTCTTCG

CCCACGCCACGCACTACGCCGCCGCCGAAGCGCTTGGCGGGCGCTTGCGGCTACGC
CGACATTCCCAACGGCATGGCCACCGCCGCACTCAGCGAAGCCCTCTTCGACCGC
GGCCAGATCTGCGGCGCCTGCTTCGAGCTCCGCTGCCTCGAGGAGGACTCCGACT
TCGACCGCCGCTGGTGCATCTCCGGCGCGTTCGGTTGTCGTCACCGCCACCAATTC
TGCGCACCGAACTACGGATCCGACGCCGAGAGCCTCAGCGGACACTGTAACCCTC
CGAAGCAGCATTTCGTTCTTCCCATTGAAGTTTTTCGAGAAAATCGCAATCTGGAA
AAGTGGCAGCGGCAACATGCCAGTGCAGTATCGCAGGTA CTCAATTTACCCCTT
TTTTATTATCGCAAAGTTCTTGATACTTATTTACTATTGCCATAGTTAAATTT
TGTTAGTAGCATAAAAAGAATGATTTGGAAGCAGTTAGAAAGTGCTAGTATTGAA
GAGTGTAAGATAGAATTGGAAAGTGAGAGTTTGTATTTTGATTAGTGTGTTGTGCA
TTTGTGTTTGGAGCAGGATAGAGTGCAGAAGAGAAGGGGGAATCCGGTTTACAA
TAAGTGGTTCTGGAATCTTCATTTCCGGTTCTGATTAGTAATGTGGGTGGAATGGG
GAACATTGTGGGTGTGAAGGTTAAGGGTTCAAAA ACTGGTTGGCTTTCCATGGGT
AGAACTGGGGTCAGAATTGGCATGTTAATGCTTTACTACAGAATCAACCTCTTT
CTTTTGAGCTCACTGCTAGTGATGGAAGAACTGTTAAGTCTTACAGTGTTGCTCCC
AAAGATTGGACCTTCGGACAATCTTTTCAGGGAAAACAATTCATGACACATCAA
TTAACATCTTCCTTTTCTTCTCCATTGCAATTCTCATTCACTT