

IDENTIFICATION

Species: *Phaseolus vulgaris*

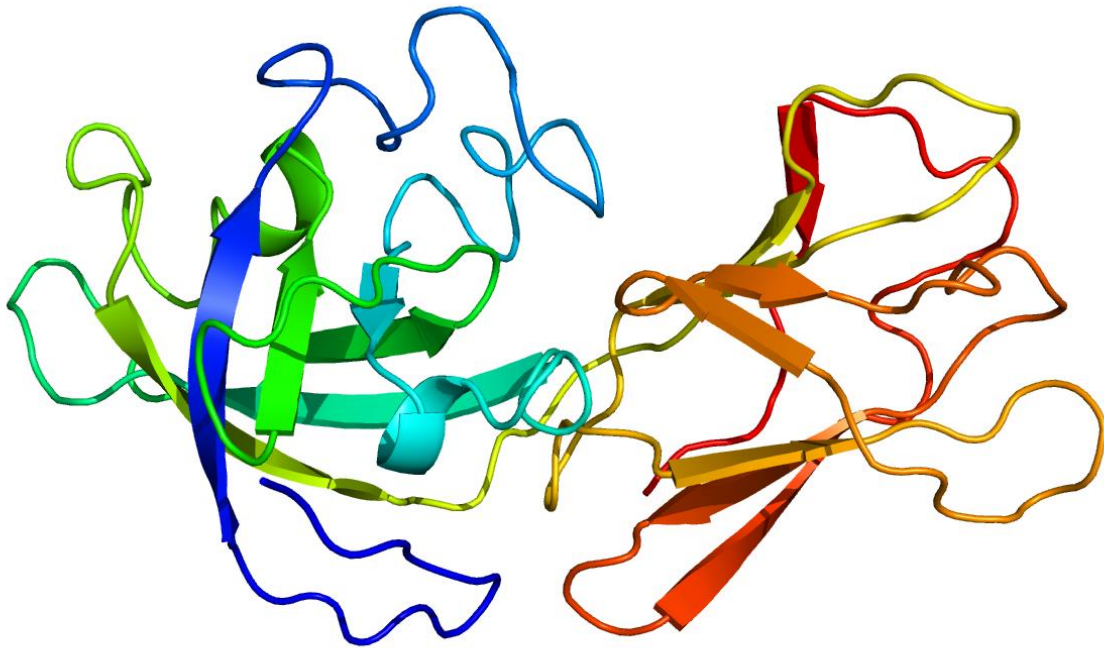
Locus: Phvul.003G213800

Gene Model: Phvul.003G213800.1.p

Description: PvEXPA-08

Family: Alpha Expansin

3D structure:



GENOME DATABASES

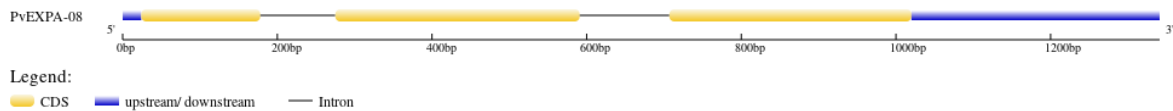
Phytozome: https://phytozome-next.jgi.doe.gov/info/Pvulgaris_v2_1

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

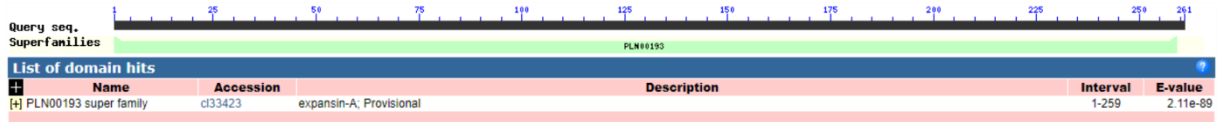
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PvEXPA-08

MAVSLQHCSFLLISIFVIMGKPATVAASFQASEWIPAHATFYGDESASATMGGACGY
GNLLINGYGTDTAALSSTLFNDGYACGTCYEIKCVQSSACFSNVVSTTVTATNICPPN
WAEPDNGGWCNPPRSHFDMSKPAFMKIAQWKAGIVPVMYRRVACVKSSGLRFSFQ
GNGYWLLVYVMNVGGGGDIANMWVKGSGPEWISMSHNWGASYQAFATLSGQSLS
FKATSYTTKETIAWNAAPTNWGVGLTYSTQVNF*

CDS (coding sequence)

>PvEXPA-08

ATGGCTGTGTCTCTTCAACATTGTAGCTTCTTGTGATTTTCGATATTCGTAATCAT
GGGAAAGCCAGCAACAGTAGCGGCTTCATTTTCAGGCTAGTGAATGGATACCAGC
CCATGCCACATTTTATGGTGACGAGAGTGCTTCTGCCACCATGGGAGGAGCATGT
GGATATGGAAATTTGTTGATAAACGGTTATGGGACAGACACAGCTGCTTTGAGCT
CGACATTGTTCAACGATGGATATGCATGTGGAACATGTTACGAGATAAAGTGTGT
CCAATCTAGTGCATGCTTCTCCAATGTGGTTTCCACCACAGTGACTGCCACCAATA
TTTGCCCTCCTAATTGGGCCGAACCCTCTGATAACGGAGGGTGGTGCAACCCACC
CCGTTACATTTTACATGTCCAAGCCCGCTTTCATGAAAATTGCACAGTGGAAA
GCTGGAATCGTTCCTGTTATGTACCGCAGAGTGGCTTGCCTGAAGAGTTCGGGGC
TACGATTCTCTTTCCAAGGAAATGGGTATTGGTTACTTGTGTATGTGATGAATGTG
GGAGGAGGAGGAGACATTGCGAACATGTGGGTGAAAGGAAGTGGACCTGAGTG
GATCAGCATGAGCCACAATTGGGGTGCTTCTTACCAAGCATTGCAACTTTGAGT
GGTCAATCTCTTTTCGTTAAGGCTACTTCTTACACTACCAAGGAGACTATAATAGC
TTGGAATGCTGCTCCCACCAACTGGGGCGTAGGACTAACTTATTCCACCCAGGTC
AACTTCAGTTAA

Nucleotide

>PvEXPA-08

AGAGGAAACAACACAAATTCACCAATGGCTGTGTCTCTTCAACATTGTAGCTTCT
TGTTGATTTTCGATATTCGTAATCATGGGAAAGCCAGCAACAGTAGCGGCTTCATT
TCAGGCTAGTGAATGGATACCAGCCATGCCACATTTTATGGTGACGAGAGTGCT
TCTGCCACCATGGGTATGTTACCAAAATTGATTAATACGATAAACCATTTTATAGT
TAAATGAAACATATGCACTTTACACTAACCAATGAGTTGATAATTAATTGAAG

AGGAGCATGTGGATATGGAAATTTGTTGATAAACGGTTATGGGACAGACACAGC
TGCTTTGAGCTCGACATTGTTCAACGATGGATATGCATGTGGAACATGTTACGAG
ATAAAGTGTGTCCAATCTAGTGCATGCTTCTCCAATGTGGTTTCCACCACAGTGAC
TGCCACCAATATTTGCCCTCCTAATTGGGCGCAACCCTCTGATAACGGAGGGTGG
TGCAACCCACCCCGTTCACATTTTGACATGTCCAAGCCCGCTTTCATGAAAATTGC
ACAGTGGAAAGCTGGAATCGTTCCTGTTATGTACCGCAGGTAATTAATGGTTTAG
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TGAAGAGTTCGGGGCTACGATTCTCTTTCCAAGGAAATGGGTATTGGTACTTGT
GTATGTGATGAATGTGGGAGGAGGAGGAGACATTGCGAACATGTGGGTGAAAGG
AAGTGGACCTGAGTGGATCAGCATGAGCCACAATTGGGGTGCTTCTTACCAAGCA
TTTGCAACTTTGAGTGGTCAATCTCTTTCGTTTAAGGCTACTTCTTACACTACCAA
GGAGACTATAATAGCTTGGAATGCTGCTCCCACCAACTGGGGCGTAGGACTAACT
TATCCACCCAGGTCAACTTCAGTTAAAAACCACACATCGAATCAACCTTTTATTT
ACTTCATTTCAACTCCACGCTTTTGTCAATTTCCCACAAATATTTGTCCATTCT
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