

IDENTIFICATION

Species: *Phaseolus vulgaris*

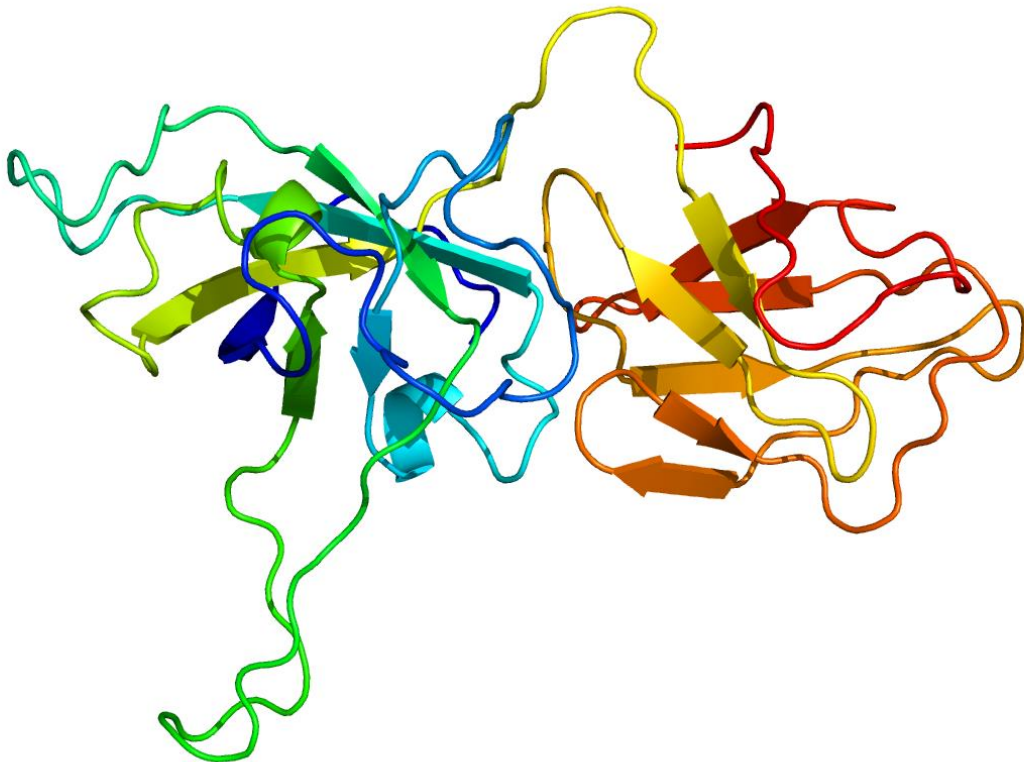
Locus: Phvul.007G207600

Gene Model: Phvul.007G207600.1.p

Description: PvEXPA-12

Family: Alpha Expansin

3D structure:



GENOME DATABASES

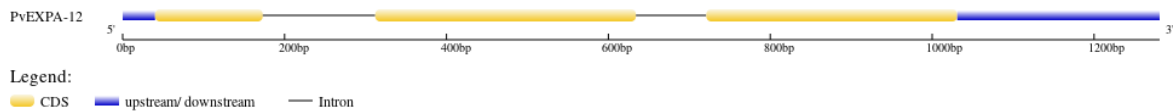
Phytozome: https://phytozome-next.jgi.doe.gov/info/Pvulgaris_v2_1

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

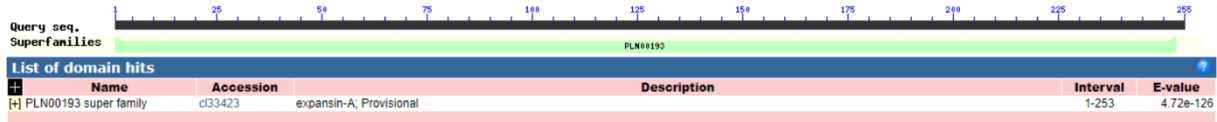
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PvEXPA-12

MQKLVFSGLILLVVLFTTEL RVASAGWLQAHATFYGGSDASGTMGGACGYGNLNTD
GYGIKTAALSTALFNDGKSCGGCYQIVCDANQVPQWCLKGTSITITATNFCPPNYALP
SDNGGWCNPPRPHFDMSQPAFEMIAKYKAGIVPIFYRKVGCKRSGGIRFTINGKDYFQ
LVLISNVGGAGDISLVWIKGSKMSNWESMSRNWGSNWQSLSYLNGQSLSFVRVQLSN
GKTLTANDLAPSNWRFQGSFISKVQL*

CDS (coding sequence)

>PvEXPA-12

ATGCAGAACTAGTTTTTCAGTGGTCTAATACTACTTGTGGTGTTATTCACCACAGA
ACTTAGAGTAGCATCCGCAGGTTGGTTGCAAGCTCATGCAACTTTCTACGGTGGA
AGTGATGCCTCAGGAACAATGGGTGGTGCATGTGGCTATGGAAATCTCAACACA
GATGGTTATGGAATAAAAACAGCTGCTTTGAGTACTGCTTTGTTTAATGATGGCA
AGTCATGTGGTGGTTGCTATCAGATAGTTTGTGACGCAAACCAAGTGCCCAATG
GTGCCTCAAGGGCACTTCCATTACAATCACTGCTACAAATTTCTGCCCTCCAACT
ATGCACTACCCAGTGACAATGGGGGTTGGTGTAATCCTCCTAGACCACACTTTGA
CATGTCTCAACCTGCCTTTGAGATGATAGCCAAGTACAAGGCTGGAATTGTACCA
ATTTTTTACAGAAAAGTTGGGTGCAAAGAAGTGGAGGGATCAGATTTACCATCA
ATGGTAAGGACTATTTCCAACCTGGTGCTTATAAGCAACGTAGGAGGAGCAGGGG
ATATCTCTCTAGTTTGGATCAAAGGGTCCAAAATGAGTAACTGGGAATCTATGTC
AAGGAATTGGGGTTCTAACTGGCAAAGCTTAAGCTACCTCAACGGCCAGAGCTTG
TCCTTCAGAGTCCAACCTCAGTAACGGAAAGACTCTCACAGCTAATGATTTGGCAC
CGTCCAATTGGAGATTTGGCCAGTCTTTCATCAGCAAGGTTTCAGTTATGA

Nucleotide

>PvEXPA-12

AGAAAATTCTTGCTCAGAATCATACTCAGAGATTGAGAAGATGCAGAACTAGTT
TTCAGTGGTCTAATACTACTTGTGGTGTTATTCACCACAGAACTTAGAGTAGCATC
CGCAGGTTGGTTGCAAGCTCATGCAACTTTCTACGGTGGAAGTGATGCCTCAGGA
ACAATGGGTAAAAAATGTTCTACATTTGACTAATGTTTTATTTTTCTGAATTACA
TTAAAGCATTCTCAATTCGAATTTAAGTGCAAATAAGAGGAATTAGTTTCACA
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AATCTCAACACAGATGGTTATGGAATAAAAACAGCTGCTTTGAGTACTGCTTTGT
TTAATGATGGCAAGTCATGTGGTGGTTGCTATCAGATAGTTTGTGACGCAAACCA
AGTGCCCAATGGTGCCTCAAGGGCACTTCCATTACAATCACTGCTACAAATTC
TGCCCTCCAACTATGCACTACCCAGTGACAATGGGGGTGGTGTAATCCTCCTA
GACCACACTTTGACATGTCTCAACCTGCCTTTGAGATGATAGCCAAGTACAAGGC
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TTTTATTTTGTGGAGAGTGAAAATTATTTCAACTTACACATGTTCAAACCTTGATGC
AGAGTTGGGTGCAAAAGAAGTGGAGGGATCAGATTTACCATCAATGGTAAGGAC
TATTTCAAACCTGGTGCTTATAAGCAACGTAGGAGGAGCAGGGGATATCTCTCTAG
TTTGGATCAAAGGGTCCAAAATGAGTAACTGGGAATCTATGTCAAGGAATTGGG
GTTCTAACTGGCAAAGCTTAAGCTACCTCAACGGCCAGAGCTTGTCCCTCAGAGT
CCAACTCAGTAACGGAAAGACTCTCACAGCTAATGATTTGGCACCGTCCAATTGG
AGATTTGGCCAGTCTTTCATCAGCAAGGTTTCAGTTATGAATGGAAGAATACATAC
AAATTTTACGCACCATTTCTTCTACTTCGTCTTTTTTATAATTATATCCAGCTTCTGA
CTGGTTTATATGAGGAATGTATGTTAAATTTTTATGCTTTC AAGGGATTGTGGCTC
CGAAATTTTAGCATTTTCGTGATGAAGCCCACCAAATATGTAAGGCCAGACAAGTG
GATCTAGTTACGCACTTATATCTTGGAAAATTATCTACATACCTATTACTTATCTT
TCTAAGATTA