

## IDENTIFICATION

**Species:** *Phaseolus vulgaris*

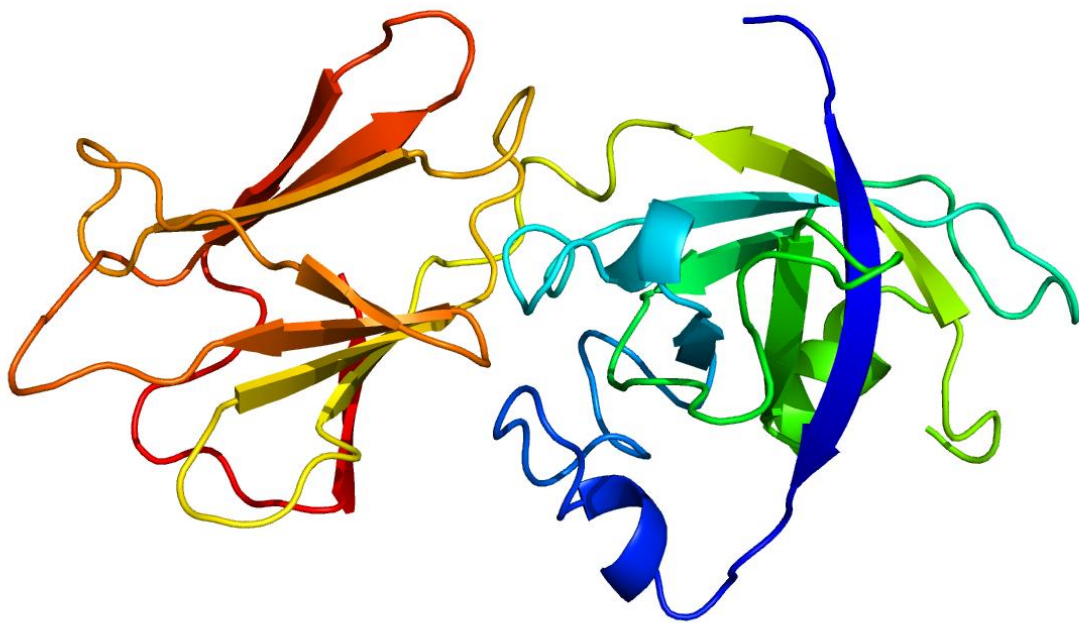
**Locus:** Phvul.008G037500

**Gene Model:** Phvul.008G037500.1.p

**Description:** PvEXPA-15

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

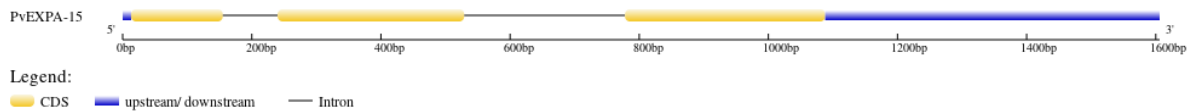
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Pvulgaris\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/Pvulgaris_v2_1)

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

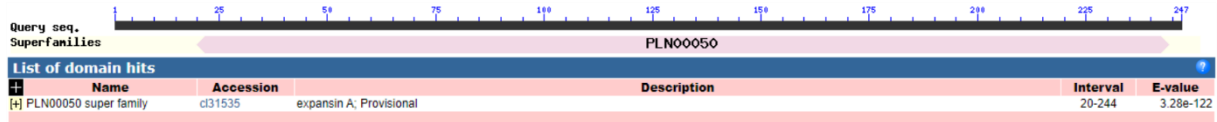
## EXTERNAL RESOURCES

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>PvEXPA-15

MIHLCREMALLGFLGLFFMVSHVKGYYGGWTNAHATFYGGGDASGTMGGACGYG  
NLYSQGYGTDTTALSTALFNGLSCGACFEIKCVNDPQWCLPGSIVVTATNFCPPGG  
WCDPPQHFDLSQPVFQHIAQYKAGIVPVVYRRVRCRRKGGIRFAINGHSYFNLVLV  
TNVGGAGDVHSVSIKGSRTRWQAMSRNWGQNWQSN SYLNGQSLSFVVTTSNGHSV  
VSYNVAPAGWSFGQTYTGRQFNY\*

### CDS (coding sequence)

>PvEXPA-15

ATGATTCATTTATGTAGGGAAATGGCGCTTCTTGGATTTCTTCTGGGACTTTTCTT  
CATGGTGTACATGTGAAGGGTTACGGGGGTTGGACCAATGCACACGCTACTTTC  
TATGGAGGAGGTGATGCTTCTGGGACAATGGGTGGGGCTTGTGGTTATGGGAATC  
TCTATAGCCAAGGTTATGGAAGTACATAACAGCACTGAGCACTGCACTGTTCAA  
CAATGGTTTGAGCTGTGGTGCATGCTTTGAAATTAATGTGTGAATGACCCACAA  
TGGTGCCTTCTGGCTCCATCGTAGTCACTGCCACAACTTCTGTCCACCTGGTGG  
TTGGTGTGACCCTCCCAACACCACTTTGATCTGTCAACCTGTTTTCCAGCACA  
TTGCTCAATATAAGGCTGGAATTGTGCCTGTAGTTTACAGAAGGGTGAGATGCAG  
GAGAAAGGGTGGAATCAGGTTTCGCCATCAATGGCCACTCTTACTTCAATTTAGTC  
CTTGTGACAAATGTTGGAGGTGCTGGTGTGTCATTCTGTGTCCATCAAAGGGT  
CAAGAACAAGATGGCAAGCCATGTCAAGAACTGGGGGCAAACTGGCAAAGC  
AACTCCTACTTGAATGGCCAAAGTCTTTCTTTGTAGTGACCACCAGCAATGGAC  
ACAGTGTGGTGCATACAATGTTGCTCCAGCTGGTTGGTCTTTGGGCAGACCTA  
CACTGGAAGACAGTTCAACTACTAA

### Nucleotide

>PvEXPA-15

TATTTATACTCCAATGATTCATTTATGTAGGGAAATGGCGCTTCTTGGATTTCTT  
TGGGACTTTTCTTCATGGTGTACATGTGAAGGGTTACGGGGGTTGGACCAATGC  
ACACGCTACTTTCTATGGAGGAGGTGATGCTTCTGGGACAATGGGTATGTATGCC  
TGCACAAATATAACTCACATTGTTGTTTTTTCACAAGCATATACTTCAGCTTCTT  
AACTCTCTCAAATTGCAGGTGGGGCTTGTGGTTATGGGAATCTCTATAGCCAAGG  
TTATGGAAGTACATAACAGCACTGAGCACTGCACTGTTCAACAATGGTTTGAGC

TGTGGTGCATGCTTTGAAATTAATGTGTGAATGACCCACAATGGTGCCTTCCTG  
GCTCCATCGTAGTCACTGCCACAACTTCTGTCCACCTGGTGGTTGGTGTGACCC  
CCCCAACACCACTTTGATCTGTCACAACCTGTTTTCCAGCACATTGCTCAATATAA  
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GAAACTGTGTTGATGTATTTTGAAGCTGACATTTGTTTGTGGGTGGATGTTGAAG  
GGTGAGATGCAGGAGAAAGGGTGGAAATCAGGTTCCGTCATCAATGGCCACTCTTA  
CTTCAATTTAGTCCCTTGTGACAAATGTTGGAGGTGCTGGTGTGATGTGCATTCTGTGT  
CCATCAAAGGGTCAAGAACAAGATGGCAAGCCATGTCAAGAACTGGGGGCAAA  
ACTGGCAAAGCAACTCCTACTTGAATGGCCAAAGTCTTTCCTTTGTAGTGACCAC  
CAGCAATGGACACAGTGTGGTGTGCATACAATGTTGCTCCAGCTGGTTGGTCCTTT  
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GATTTAGTCCCTTCTTTATATATATAATTATATATATTTTTATTTGATTTACATGTAC  
AGCAAGCATTTCAGATGATGTGCTGGCTTAATTTATGCTATGCCTCAGCAAATG  
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