

IDENTIFICATION

Species: *Phaseolus vulgaris*

Locus: Phvul.009G142800

Gene Model: Phvul.009G142800.2.p

Description: PvEXPA-22

Family: Alpha Expansin

3D structure:



GENOME DATABASES

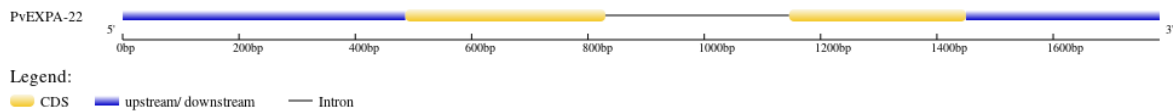
Phytozome: https://phytozome-next.jgi.doe.gov/info/Pvulgaris_v2_1

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

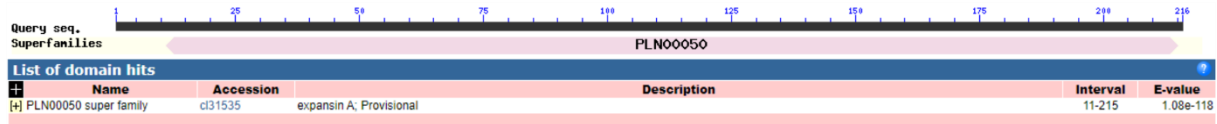
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PvEXPA-22

MIFIFIFITGGACGYGNLYSQGYGTNTAALSTALFNNGLSGSCYEMRCDS DPRWCL
PGSIIVTATNFCPPNFALSNDNGGWCNPPLQHFDLAEP AFLQIAQYKAGIVPVSFRRVS
CVKKGGIRFTINGHSYFNLV LVTNVGGAGDVHSVSIKGSRTNWQTMSRNW GQNWQ
SNSYLNQQLSFQVTTSDGRILTSNNIVPANWQFGQTFEGIQF*

CDS (coding sequence)

>PvEXPA-22

ATGATTTTTATTTTTATTTTTATTTTCACAGGAGGGGCTTGTGGCTATGGCAATTTG
TACAGCCAAGGGTATGGTACTAACACTGCAGCACTCAGCACTGCTCTATTCAACA
ATGGCTTGAGTTGCGGGTCTTGCTATGAGATGAGATGTGACAGTGACCC CAGATG
GTGCCTCCCCGGTAGCATAATCGTCACTGCCACAACTTCTGCCCCCTAACTTTG
CCTTGTCTAATGACAATGGTGGCTGGTGCAACCCTCCTTTGCAACACTTTGATCTT
GCTGAGCCTGCTTTCTTACAAATTGCTCAATACAAAGCTGGAATTGTTCTGTTTC
CTTCAGAAGAGTCTCGTGTGTGAAGAAAGGAGGGATCAGGTTCAACATCAATGGT
CACTCATACTTCAACTTGGTTCTGGTCACAAATGTTGGTGGAGCTGGTGATGTTCA
CTCTGTGTCCATCAAGGGGTCTAGGACTAATTGGCAAACCATGTCTAGAAACTGG
GGGCAGAATTGGCAAAGCAACTCTTACCTGAATGGTCAAAGCCTCTTTTTTCAGG
TGACTACAAGTGATGGCAGAATTCTGACCAGCAACAACATTGTGCCTGCTAACTG
GCAATTTGGTCAAACATTTGAAGGGATACAGTTCTAG

Nucleotide

>PvEXPA-22

CAAGTAACTTCTCCTATCTTAAATCCTTTGTACCCTCAACTTCCCTAATCACTTG
TACCACACAATGGCCATTGCAGCAACCTCTACCATTCTTCTTCTTTGTTCTTAA
TCTATGCCTCCAAGGCACTTTTGGTACTATGGAGGTGGATGGCAAAGGTGGTCAT
GCCACATTCTATGGTGGGGGAGATGCATCAGGCACAATGGGTAGGTTCAAAGTGT
TTATTTAGGTTTTAGTCTCGCATTACTAAATTTTGCTTATTCTAGTGTTTATATAAC
TGCACGAAA ACTAACTAAGTTCGAACAAATGTTTTGCCTTTTCCTTTTGGCACAT
ATGAGTGATTTAAAATGGAAAAAAGA ACTACTTAACTTTGTGGTATTGTGGTGCC
CGTACATAACCTTGTGTCACGGGCACTTACATGTACATTACATTCACACTCTCTCC
TATTATTGAGTCAAAGATGTTTTCACTTAGGATATGACTCATGATTTTTATTTTTAT

TTTTATTTTCACAGGAGGGGCTTGTGGCTATGGCAATTTGTACAGCCAAGGGTAT
GGTACTAACACTGCAGCACTCAGCACTGCTCTATTCAACAATGGCTTGAGTTGCG
GGTCTTGCTATGAGATGAGATGTGACAGTGACCCCAGATGGTGCCTCCCCGGTAG
CATAATCGTCACTGCCACAACTTCTGCCCCCTAACTTTGCCTTGTCTAATGACA
ATGGTGGCTGGTGCAACCCTCCTTTGCAACACTTTGATCTTGCTGAGCCTGCTTTC
TTACAAATTGCTCAATACAAAGCTGGAATTGTTCCCTGTTTCCTTCAGAAGGTAAAT
AAAAAATAAGAAACCCCTTTAAGTATTTTTATTTTTTTCTCCCCTTTTAGCTTTAA
ACTTTGACTCAGAGGGAGTTAGCTCCTCTGAATAACAAAGGTGAAATAAGTCATT
CCAGTCTTTATCCAAAACAATCAACCATTTATATAAACACATAGCAAATATATGC
ACATGTAACATCAGCAGTTGATCTTTCGTGATCAACGACTGGTATTGCACACTTG
CTCTTCAAAGTAAAAATTGCTGAGTTTGGAAAGAGTTGGATCCAACCTTGGAGCATA
CATTAAACATGTTTTTTGTTTTTTGGCTTAAAACAGAGTCTCGTGTGTGAAGAAAGGA
GGGATCAGGTTCCACCATCAATGGTCACTCATACTTCAACTTGGTTCTGGTCACAA
ATGTTGGTGGAGCTGGTGTGTTCACTCTGTGTCCATCAAGGGGTCTAGGACTAA
TTGGCAAACCATGTCTAGAAACTGGGGGCAGAATTGGCAAAGCAACTCTTACCTG
AATGGTCAAAGCCTCTCTTTTCAGGTGACTACAAGTGATGGCAGAATTCTGACCA
GCAACAACATTGTGCCTGCTAACTGGCAATTTGGTCAAACATTTGAAGGGATACA
GTTCTAGGAAAGGAACCTTAAAAGTTCACATTTTGTGTGTAATATATGATGCCAT
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GTAGATTAGGAGGAGTTCTGGCCAACATGGGCCCTAATGCTGTGGTGGCTATATG
GCACCCGCTAGGACTAATATAATATAAAGTCTTCTATTTTCAGACACATATCAAC
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CCACTATGGTACAAAACCAATTTGGGGTTGAATTAATATCAATTTGATCATGCTTT
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