

IDENTIFICATION

Species: *Phaseolus vulgaris*

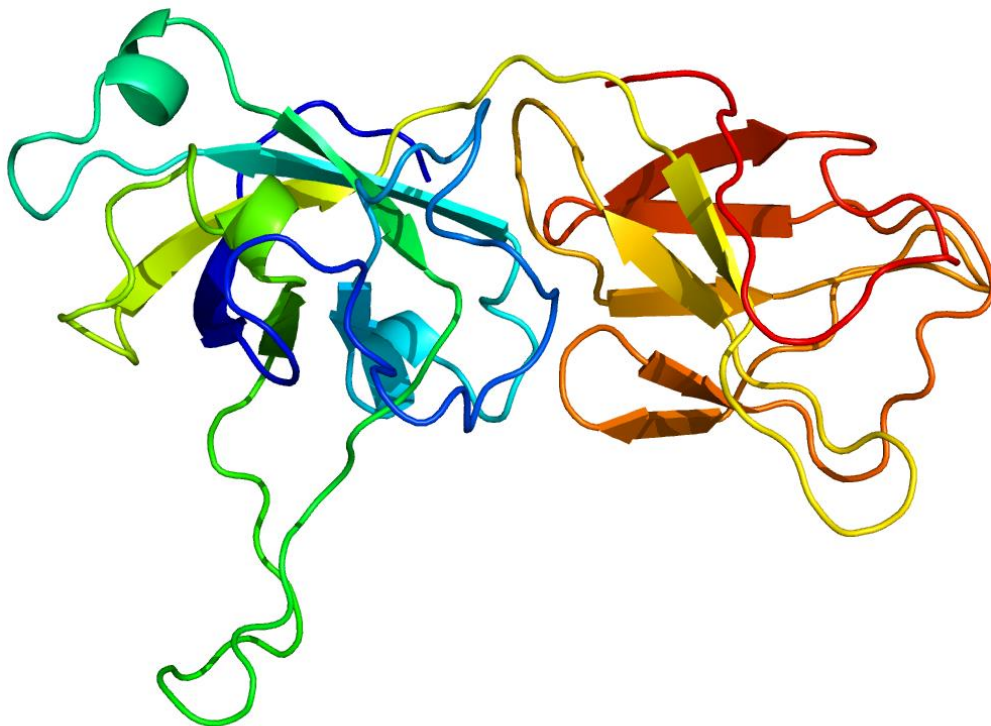
Locus: Phvul.011G063800

Gene Model: Phvul.011G063800.1.p

Description: PvEXPA-25

Family: Alpha Expansin

3D structure:



GENOME DATABASES

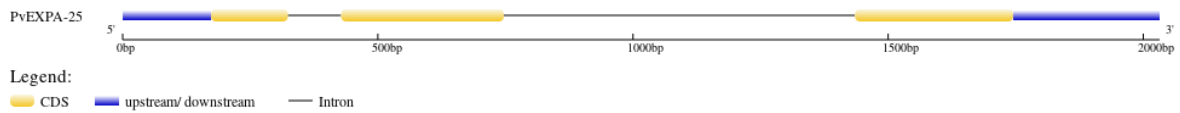
Phytozome: https://phytozome-next.jgi.doe.gov/info/Pvulgaris_v2_1

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

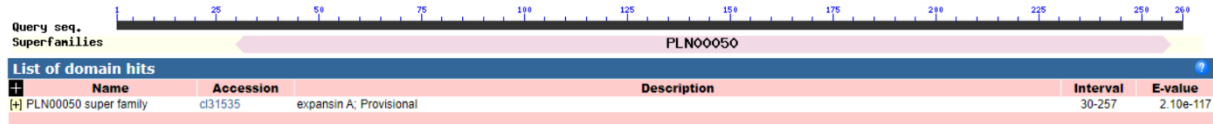
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>PvEXPA-25

MAVPNIFLCIAFVISLTWMVEARIPGIYSGGAWESAHATFYGGSDASGTMGGACGYG
NLYSQGYGVNTAALSTALFNGLSCGACFEIKCANDRQWCHSGSPSIFITATNFCPPN
YALPNDNGGWCNPPRPHFDLAMPMFLKIAEYRAGIVPVAFRRVPCRKHGGIRFTVNG
FRYFNLVLVSNVAGAGDIVRIYVKGSRGTGWMPMSRNWQNWQSNVAVLVGQALSFR
VTSSDSRTSTSWNIAPPHWQFGQTFGTGKNFRV*

CDS (coding sequence)

>PvEXPA-25

ATGGCAGTGCCAAACATTTTTCTCTGCATTGCCTTCGTTATCTCCTTAACATGGAT
GGTTGAAGCACGAATTCCAGGGATTTACTCTGGCGGTGCATGGGAAAGTGCTCAC
GCTACCTTCTACGGAGGATCCGATGCTTCCGGCACCATGGGGGGAGCGTGTGGGT
ATGGGAACCTCTACAGCCAAGGCTACGGTGTGAACACGGCGGCATTGAGCACAG
CGCTTTTCAACAATGGCCTTAGCTGCGGCGCGTGCTTTGAGATCAAGTGCGCAA
CGACAGACAGTGGTGTCACTCCGGAAGCCCTTCCATCTTCATCACCGCAACAAAC
TTTTGCCCTCCCAACTACGCTCTTCAAACGACAATGGCGGCTGGTGCAACCCTCC
TCGTCCCTCACTTCGACCTCGCCATGCCATGTTCCCTTAAAATTGCCGAATACCGCG
CCGGAATTGTCCCTGTTGCCTTTCGCCGGGTGCCATGCAGAAAGCACGGAGGGAT
AAGGTTACCGTCAACGGATTCCGTTACTTCAACCTGGTGCTCGTTAGCAACGTG
GCGGGTGCGGGGGATATCGTGCGCATCTACGTGAAGGGGTCTCGAACCGGGTGG
ATGCCAATGAGCCGAACTGGGGTCAGAACTGGCAGTCAAACGCGGTTTTGGTG
GGTCAGGCGCTGTCGTTTCGCGTGACGAGCAGCGACAGCCGCACCTCCACCTCGT
GGAACATCGCTCCACCGCATTGGCAGTTCGGTCAAACCTTTCACCGGCAAAAATTT
CCGAGTCTGA

Nucleotide

>PvEXPA-25

AATTAATTTAATAATGATAGAAAAAGTTAACAAAATTCCAAAACTGCCCTGCA
CTGGAACATGTTCCATGTCACCTACCCAGTGCCGCTCTGCTCCTTAAGTACTCCCCT
CTCTCCCGGACCAATCGCCTCTCATAACTATTTTCAACTTACAGGGAAAAAAAAG
AAGAAAAATGGCAGTGCCAAACATTTTTCTCTGCATTGCCTTCGTTATCTCCTTAA
CATGGATGGTTGAAGCACGAATTCCAGGGATTTACTCTGGCGGTGCATGGGAAAG

TGCTCACGCTACCTTCTACGGAGGATCCGATGCTTCCGGCACCATGGGTTAGTAA
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TAACCAACAGCATTTTCTTTTCCACGTTGTACTTTGTTTAGGGGGAGCGTGTGGGT
ATGGGAACCTCTACAGCCAAGGCTACGGTGTGAACACGGCGGCATTGAGCACAG
CGCTTTTCAACAATGGCCTTAGCTGCGGGCGCGTGCTTTGAGATCAAGTGCGCAA
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CCGGAATTGTCCTGTTGCCCTTTCGCCGGTTCGTCACCTACCCTTCACTTTTCCTTT
TCATATATCCATCCTTAAAGTAAAAAGATTATATTTTTAGCTTTGTTTCTTTTGT
TTTATAATTTTTTCTCATTGTGATTTATGGGTTTTTGTTTTTGTTTCCCTTTGGAGG
TTTAAAGTACGGTATTGACTTATTGTTTAAAGCAGCAGTCACAAAACTGGTAAT
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CGCGGTTTTGGTGGGTCAGGCGCTGTCGTTTCGCGTGACGAGCAGCGACAGCCGC
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CGCAGCTAATTTGTTATATATTCTTATTTCAATC