

## IDENTIFICATION

**Species:** *Trifolium pratense*

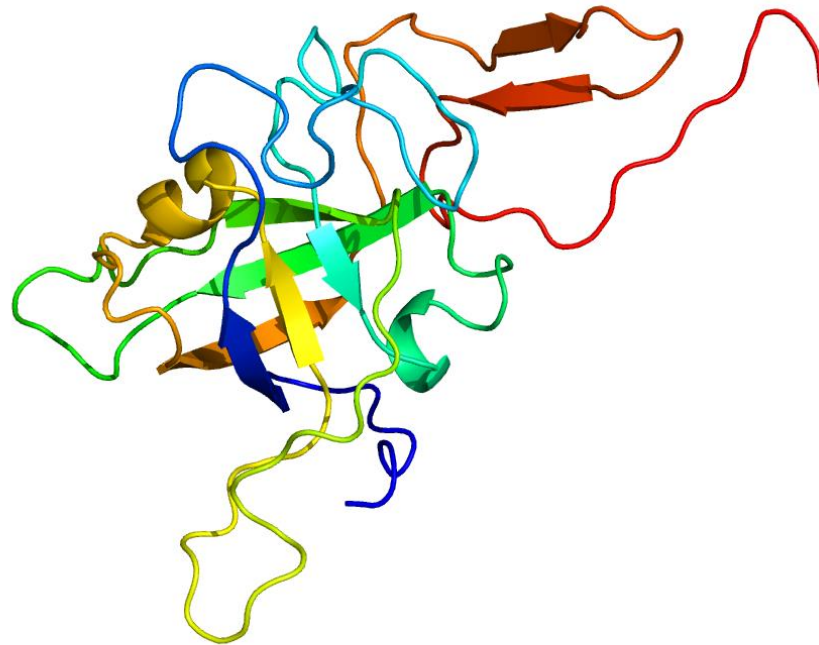
**Locus:** Tp57577\_TGAC\_v2\_mRNA34595

**Gene Model:** Tp57577\_TGAC\_v2\_mRNA34595

**Description:** TprEXPA-20

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

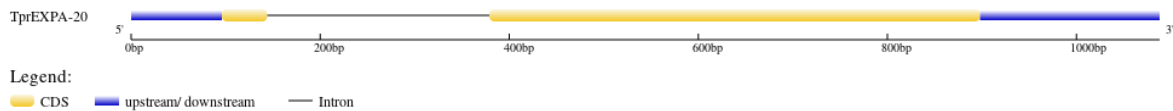
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Tpratense\\_v2](https://phytozome-next.jgi.doe.gov/info/Tpratense_v2)

KEGG:-

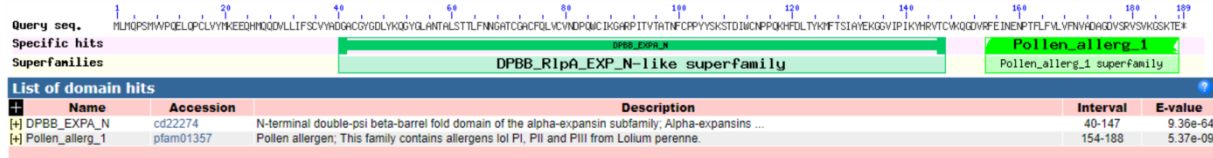
## EXTERNAL RESOURCES

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## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>TprEXPA-20

MLMQPSMVVPQELQPCLVYMKEEQHMQQDVLLIFSCVYADGACGYGDLYKQGYG  
LANTALSTTLFNNGATCGACFQLVCVNDPQWCICKGARPITVTATNFCPPYYSKSTDI  
WCNPPQKHFDLTYKMFTSIAYEKGGVIPIKYHRVTCVKQGDVRFENENPTFLFVLVF  
NVADAGDVSRSVSKGSKTE\*

### CDS (coding sequence)

>TprEXPA-20

ATGCTCATGCAACCTTCTATGGTGGTCCCTCAGGAGCTGCAACCATGCTTAGTAT  
ACATGAAGGAAGAACAACACATGCAACAAGATGTGTTGCTAATCTTTTCTTGTGT  
TTATGCAGATGGGGCTTGTGGTTATGGTGATCTCTATAAACAAGGATACGGACTT  
GCAAACACCGCACTAAGCACAACTCTATTCAATAACGGAGCTACTTGTGGTGCTT  
GTTTTAGTTAGTTTGTGTCAATGATCCTCAATGGTGCATAAAGGGCGCGAGACC  
AATCACGGTAACTGCAACAAATTTTTGTCTCCATATTACTCCAAATCCACTGACA  
TTTGGTGTAATCCACCACAAAACACTTTGACTTGACTTACAAAATGTTCACTTCA  
ATTGCCTATGAAAAGGCGGTGTCATACCCATTAAATATCATCGTGTTACATGTG  
TCAAACAAGGGGATGTTAGGTTTGAAGATCAATGAAAACCCTACTTTCTTGTGGT  
TTGGTGTTCATGTTGCTGATGCTGGTGACGTTTCTCGTGTTAGTGTCAAAGGGTC  
TAAGACCGAATGA

### Nucleotide

>TprEXPA-20

CTTTAGTCATGACTATGTCTCACTCTTTCATTCCTTTGGCCTTTTTTCATATTGCTCC  
TCATATATGTCATAGCTGGCATTGACCCAAATTAGTACGATGCTCATGCAACCTTC  
TATGGTGGTCCCTCAGGAGCTGCAACCATGCGTAAGTTCTAAAGTTAACTTCTT  
CTTTTTCTTTATGAATTTTTAGATGATATAAATTGTTTATATGTAATTTAGACTCTC  
AACAATAAACAACACTATGAATCTGCATTATTTGTTTGTCTAATATTTCTCACCCAC  
ATACGATTATAAAATAAATAAATAAATAAACCATATTTCAATTTTTTTACATCATA  
TGTTATGTGTTAGATGAAGTTCAAATGACTATTTCTTATTAGTTAGTATACATGAA  
GGAAGAACAACACATGCAACAAGATGTGTTGCTAATCTTTTCTTGTGTTTATGCA  
GATGGGGCTTGTGGTTATGGTGATCTCTATAAACAAGGATACGGACTTGCAAACA

CCGCACTAAGCACAACTCTATTCAATAACGGAGCTACTTGTGGTGCTTGTTTTTCAG  
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GAATGAATTCCCATGAAACGCAACTGGGGACAAAAGTGAAATACTTGAGTGAAT  
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AGTTTTATTCAGTTTTTCCTTACAACCTGGTAATTTGAACAGACTTATGAGGGTCGC  
GGTAATTTTTAGATAAAAATTTAATTCAGAAT