

## IDENTIFICATION

**Species:** *Trifolium pratense*

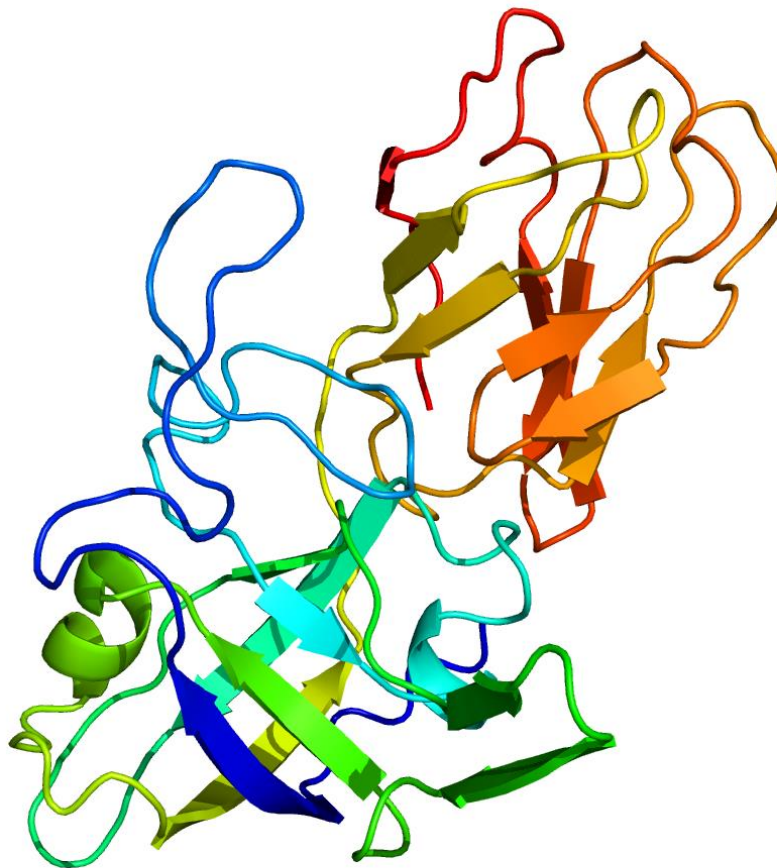
**Locus:** Tp57577\_TGAC\_v2\_mRNA36862

**Gene Model:** Tp57577\_TGAC\_v2\_mRNA36862

**Description:** TprEXPA-25

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

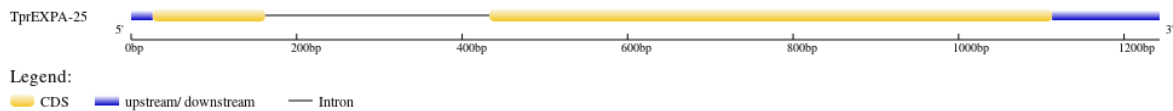
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Tpratense\\_v2](https://phytozome-next.jgi.doe.gov/info/Tpratense_v2)

KEGG:-

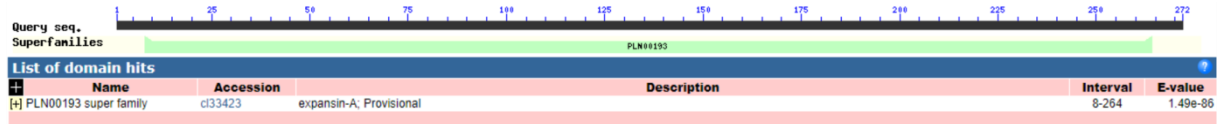
## EXTERNAL RESOURCES

-

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>TprEXPA-25

MAISHSFIPLTFFILLKQVIAGIDTNWYDAHATFYGGPSGAGTMLVYLILSCICAKGA  
CGYGDLYKQGYGLANTALSTTLFNNGATCGACFXXXXXXXXXXXXXXXXXDPQWC  
GARPITVTATNFCPPDYSKTTDIWCNPPQNHFDLSYKMFTSIAYEKGGIIPVKYRRVSC  
FKRGGVRFEINGNPNFLLVLFNVANAGEVSRVSVKGSKTGWIPMKRNWGQKWDS  
GVNLVGQALSFQVTTSDGKTLEFYSPYNWQFGQTCEGRGNF\*

### CDS (coding sequence)

>TprEXPA-25

ATGGCTATTTCTCACTCTTTCATTCCTTTGACCTTTTTTCATATTGCTCCTCAAACAG  
GTCATAGCAGGTATTGATACAAATTGGTATGATGCTCACGCAACCTTCTATGGTG  
GTCCATCAGGAGCTGGAACCATGCTTGTGTACCTAATCCTCTCTTGTATTTGTGCA  
AAGGGGGCTTGTGGTTATGGTGATCTCTACAAACAAGGATATGGACTTGCAAACA  
CAGCACTAAGCACAACTCTATTCAATAACGGAGCTACTTGTGGTGCTTGTTTTCA  
NNNGATCCTCAAT  
GGTGCATAAAGGGTGCAAGGCCAATCACGGTAACCGCAACAAATTTTTGTCTCC  
AGATTACTCCAAAACCACTGATATTTGGTGTAATCCACCACAAAACCACTTTGAC  
TTGAGTTATAAAATGTTCACTTCTATTGCCTACGAAAAGGCGGTATCATACCAG  
TTAAATATCGACGTGTTTCATGTTTCAAAGAGGGGGTGTAAGGTTTGAGATCAA  
CGGAAACCCTAATTTCTTGTAGTTTTGGTGTTCAATGTTGCCAATGCTGGCGAAG  
TTTCTCGTGTTAGTGTTAAAGGGTCTAAGACTGGCTGGATTCCCATGAAACGCAA  
TTGGGGACAAAAGTGGGATTCTGGAGTTAATTTGGTAGGACAAGCTTTGTCATTT  
CAAGTTACTACAAGTGATGGAAAACTTTGGAGTTTTATTTCAGTTTCTCCTTACAA  
CTGGCAATTTGGACAGACTTGTGAGGGTCGGGGTAATTTTTAG

### Nucleotide

>TprEXPA-25

TTCCGTGTCTTTTACGTACCTTAGTGATGGCTATTTCTCACTCTTTCATTCCTTTGA  
CCTTTTTTCATATTGCTCCTCAAACAGGTCATAGCAGGTATTGATACAAATTGGTAT  
GATGCTCACGCAACCTTCTATGGTGGTCCATCAGGAGCTGGAACCATGCGTAAGT  
TCTAAAATAAACTTTCATTTTTATTCTATATAAGTTTTTAAATGATATAAATTGT  
TTATACGTTATTTAGAATCTCAACAATAAAGAAGTATGAATCTCCATTATTTTGT

TGCCTAATATTGTCCACCCACATACAATTATAAAAAATAATAGATAAATCATAT  
TTCAAGATTTTAATATCATACGTTATGTGTTACATGAAGTTCAAATGACTATTCGT  
TGTTAGTTATTTTATATGAATGAAGAACATACGGGAAACAAGTTGTGTACCTAAT  
CCTCTCTTGTATTTGTGCAAAGGGGGCTTGTGGTTATGGTGATCTCTACAAACAAG  
GATATGGACTTGCAAACACAGCACTAAGCACAACCTCTATTCAATAACGGAGCTAC  
TTGTGGTGCTTGTTTTCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNGATCCTCAATGGTGCATAAAGGGTGCAAGGCCAATCACGGTAACCGC  
AACAAATTTTGTCTCCAGATTACTCCAAAACCACTGATATTTGGTGTAATCCAC  
CACAAAACCACTTTGACTTGAGTTATAAAATGTTCACTTCTATTGCCTACGAAAA  
AGGCGGTATCATACCAGTTAAATATCGACGTGTTTCATGTTTCAAAGAGGGGGT  
GTAAGGTTTGAGATCAACGGAAACCCTAATTTCTTGTAGTTTTGGTGTTCAATGT  
TGCCAATGCTGGCGAAGTTTCTCGTGTTAGTGTTAAAGGGTCTAAGACTGGCTGG  
ATTCCCATGAAACGCAATTGGGGACAAAAGTGGGATTCTGGAGTTAATTTGGTAG  
GACAAGCTTTGTCATTTCAAGTTACTACAAGTGATGGAAAACTTTGGAGTTTTA  
TTCAGTTTCTCCTTACAACCTGGCAATTTGGACAGACTTGTGAGGGTCGGGGTAATT  
TTTAGATAAAATTTAATACTTTAATATATCTAGTCACGAAATTATTAGGAGAATTG  
AGTTAAAAATAACAATTATTCGGAATATCATGTAATTTCAAATCTAGTATTTG  
ATGAAATAAAAGTATGCGGTTTAT