

## IDENTIFICATION

**Species:** *Arabidopsis thaliana*

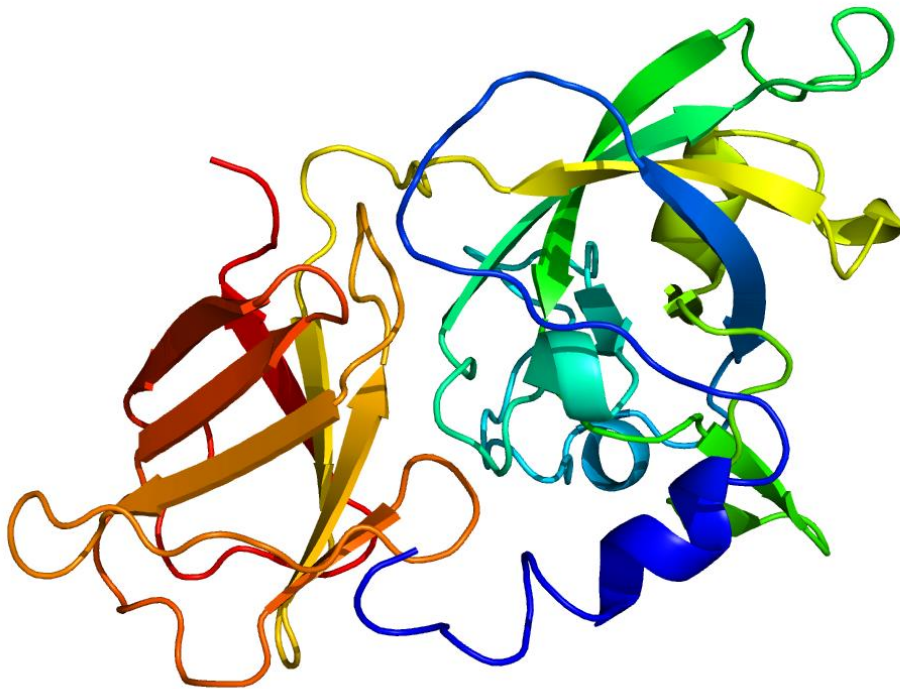
**Locus:** AT2G39700

**Gene Model:** AT2G39700.1

**Description:** AtEXPA-15

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

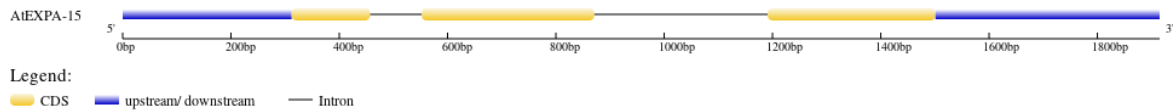
TAIR: <https://www.arabidopsis.org/>

KEGG: <https://www.genome.jp/entry/T00041>

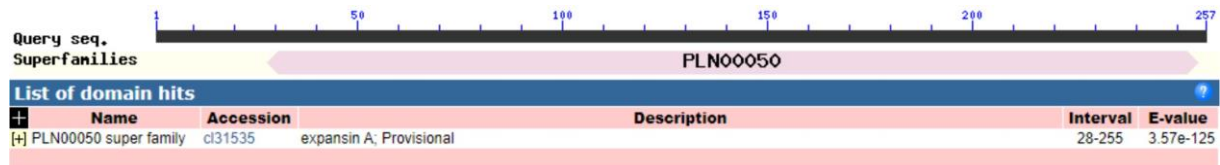
## EXTERNAL RESOURCES

<https://www.gabipd.org/database/cgi-bin/GreenCards.pl.cgi?Mode=Show&QueryKey=197c0ef939ecd1d29302d8a4a92c1bc3&x.Overview=1&Start=1>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>AtEXPA-15

MAIKLAILFTTFVLFLSLADARIPGIYSGGAWQNAHATFYGGSDASGTMGGACGYGNL  
YSQGYGTNTAALSTALFNNGMSCGACFELKCANDPQWCHSGSPSILITATNFCPPNL  
AQPSDNGGWCNPPREHFDLAMPVFLKIAQYRAGIVPVS YRRVPCRKRGGIRFTINGH  
RYFNLVLITNVAGAGDIVRASVKGSRTGWMSLSRNWQNWQSNVAVLVGQALSFRV  
TGSRRRTSTSWNMVPSNWQFGQTFVGNFRV

### CDS (coding sequence)

>AtEXPA-15

ATGGCTATTAAGCTAGCAATTCTATTTACCACATTTGTTCTTTTTAGCCTCGCCGA  
CGCTAGAATCCCCGGTATTTACTCCGGCGGCGCATGGCAAACGCACACGCCACT  
TTTTACGGTGGCAGCGACGCCTCCGGCACAATGGGAGGAGCTTGTGGTTACGGTA  
ACCTATACAGCCAAGGGTACGGGACCAACACGGCTGCTTTGAGTACGGCGCTGTT  
TAACAATGGTATGAGTTGTGGAGCCTGCTTTGAGCTAAAATGCGCCAACGACCCT  
CAATGGTGTCACTCAGGTAGTCCTTCGATCCTCATCACCGCAACCAATTTCTGCCC  
ACCAAAGTTGGCTCAGCCTAGCGACAACGGAGGATGGTGC AACCCACCACGTGA  
ACACTTTGACCTAGCCATGCCTGTCTTCCTTAAGATCGCTCAATATCGCGCCGGCA  
TTGTCCCCGTCTCATACCGCAGGGTGCCATGTAGAAAGAGAGGAGGCATAAGGTT  
CACAATCAACGGTCACCGTTACTTCAACTTGGTTCTGATCACTAACGTGGCTGGA  
GCAGGAGACATCGTGAGGGCTAGTGTGAAAGGATCACGGACTGGTTGGATGAGT  
TTGAGCAGAACTGGGGACAAAAGTGGCAATCTAATGCTGTTTTGGTTGGTCAAG  
CACTCTCTTTCCGTGTCACAGGCAGTGACCGTAGAACATCTACTTCCCTGGAACAT  
GGTTCCTTCTAACTGGCAGTTTGGTCAAACCTTTGTCGGGAAGAATTTAGGGTTT  
AA

## Nucleotide

>AtEXPA-15

CCTACCTCCACCTTACGTAGAAATAGTAATCTTATTTTAAAAGTTTTAACTTTGAC  
AAAAGGAAATTTAAAATTTAGCCAATTATCTCTCGATCTCTCTCTCTACTCTAACT  
TTGGAGTTTCCTTCCCTCCATAAATACCGAACCTCACTCCTTCTTCCCTCCACCATC  
CTCATCTCTCAATCAACAAACCTAACTCTTTCTCTATAACAAGAGCGCAAGCTCGA  
AGGCGCTCTTGTTCTTTCTTCATTTTCTCCTTAACAATCACCCTCATAGTAACHTTA  
AACTCTCTGTTTCTAGTAATTCACACACAAAATGGCTATTTAACTAGCAATTCTA  
TTTACCACATTTGTTCTTTTTAGCCTCGCCGACGCTAGAATCCCCGGTATTTACTC  
CGGCGGCGCATGGCAAACGCACACGCCACTTTTTACGGTGGCAGCGACGCCTCC  
GGCACAATGGGTAGTCCATAAAAACAGAGCATAAATATAATTTTTTAGTATAA  
AGTTTTCTATTTAAAAGTCATTTTTAACAAAATGAGTTTAATTCATTACAGGAGGA  
GCTTGTGGTTACGGTAACCTATACAGCCAAGGGTACGGGACCAACACGGCTGCTT  
TGAGTACGGCGCTGTTTAAACAATGGTATGAGTTGTGGAGCCTGCTTTGAGCTAAA  
ATGCGCCAACGACCCTCAATGGTGTCACTCAGGTAGTCCTTCGATCCTCATCACC  
GCAACCAATTTCTGCCACCAAACCTGGCTCAGCCTAGCGACAACGGAGGATGGT  
GCAACCCACCACGTGAACACTTTGACCTAGCCATGCCTGTCTTCCTTAAGATCGCT  
CAATATCGCGCCGGCATTGTCCCCGTCTCATACCGCAGGTACAAATCTTGTTTATA  
TGTCTAGGGTCTTGGCAATATTTAGAAGATAATAAGACCATACTGTAATTAACHTT  
TAAAAAAATTAGTGGAGGACATTTTGTCTCTATTTACCTTTTAACTTTACTAAAT  
GATACTTTTTAGTTTTTCAATTAATATTTAAAATAATAGTTAAAAAATTCGTAGTTTA  
AGTCCTTGAAAATCAAATTTTGATGATATTTTACTAAATTTTAGTTTATTAGCTGT  
TTCTAGTATACAAATTAGTCACTAAATGGACATATAAGTGAGTGACTAAACGAGT  
GTGAAATGTTGGTTTTGTTTGTAGGGTGCCATGTAGAAAGAGAGGAGGCATAAGG  
TTCACAATCAACGGTCACCGTTACTTCAACTTGGTTCTGATCACTAACGTGGCTGG  
AGCAGGAGACATCGTGAGGGCTAGTGTGAAAGGATCACGGACTGGTTGGATGAG  
TTTGAGCAGAACTGGGGACAAAACCTGGCAATCTAATGCTGTTTTGGTTGGTCAA  
GCACTCTTTCCGTGTCACAGGCAGTGACCGTAGAACATCTACTTCCTGGAACA  
TGGTTCCTTCTAACTGGCAGTTTGGTCAAACCTTTGTCGGGAAGAATTCAGGGTT  
TAAGGCGAGTTTCGAGAACTAAAATTTGGAGGAAATTCGAGAAATTAAGTGG  
TTCGAGACAAAAGAAAACCTCTCCGCTAATTTGCTATTCTCCTCCTTTTTTTTTTA  
CTAAATTTTATATATGGAAAGGAGAGAAAATCAGGGGAAAGTATCTTTGACTTT  
TGTGTGTGTTTTCACTTTTTTAATGTTTTTTTTTTTTGGGTTTGGTGTTTTAATTGTGA  
GTGATAAAGGGGGAAATGAGGGAGAAAGAGAAAGTGAGTAGCTGAAGTGGCTG  
TGAGAACATTTTGTAACAGCCCGCAGCTATTAAGTATTTTACATGGTTTGGTTGT  
AAGTTACAACHTTGTAACGTTTAATCTCGTGTAATCTTAAAACATGGTTGTATTATT  
GATACTTAATACTACTAATCTTCTTGTTT