

## IDENTIFICATION

**Species:** *Arabidopsis thaliana*

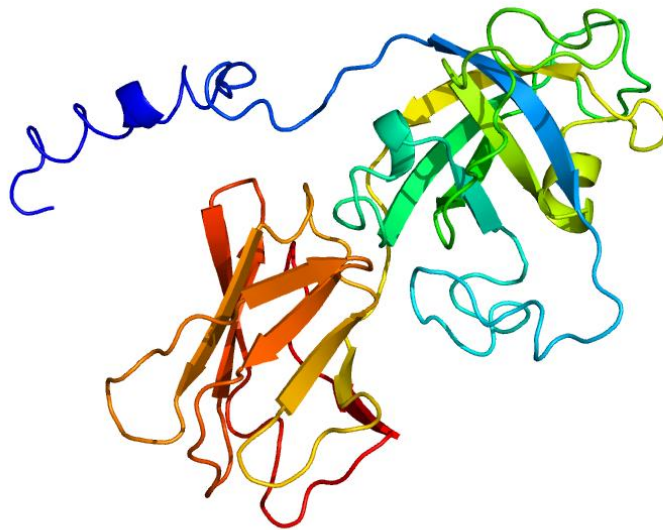
**Locus:** AT2G37640

**Gene Model:** AT2G37640.1

**Description:** AtEXPA-13

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

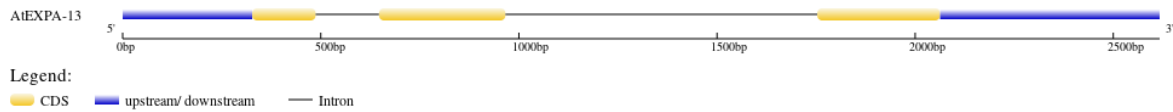
TAIR: <https://www.arabidopsis.org/>

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

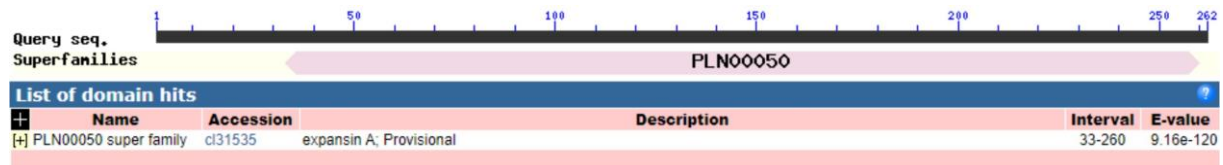
## EXTERNAL RESOURCES

<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-13

MTATAFRVGLWLAVTASFLLTATNAKIPGVYSGGPWQNAHATFYGGSDASGTMGG  
ACGYGNLYSQGYGVNTAALSTALFNNGFSCGACFEIKCTDDPRWCVPGNPSILVTAT  
NFCPPNFAQPSDDGGWCNPPREHFDLAMPMFLKIGLYRAGIVPVSYRRVPCRKIGGIR  
FTVNGFRYFNLVLTNVAGAGDINGVSVKGSKTDWVRMSRNWGQNWQSNVLIQ  
SLSFRVTASDRRSSTSWNVAPATWQFGQTFSGKNFRV

### CDS (coding hits sequence)

>AtEXPA-13

ATGACGGCGACTGCGTTTAGGGTCGGCTTGTGGTTGGCCGTTACGGCTTCCTTTCT  
CTTAACCGCAACAAACGCCAAAATCCCCGGCGTTACAGTGGCGGACCGTGGCA  
GAATGCACACGCCACTTTCTACGGTGGCAGTGACGCCTCCGGCACAATGGGCGGC  
GCGTGTGGGTACGGGAACCTTGTACAGCCAAGGATACGGTGTGAACACGGCGGCG  
TTGAGCACTGCTTTGTTCAACAACGGATTCAGCTGTGGTGCTTGTTTTGAGATTAA  
GTGTACTGATGATCCGAGATGGTGTGTTCCGGGAAATCCATCTATTCTTGTGACG  
GCGACGAACTTTGTCCGCCGAATTTTGCTCAGCCGAGTGACGACGGAGGGTGGT  
GCAATCCGCCGCGGAGCATTGATCTCGCCATGCCTATGTTCTCAAGATCGGT  
CTATACCGTGCAGGCATTGTCCCCGTCTCCTATCGCAGGGTACCTTGTCCGAAGA  
TAGGAGGGATAAGATTCACAGTAAACGGATTCAGATACTCAATCTTGTCTGGT  
AACTAACGTTGCCGGCGCCGGAGATATTAACGGAGTTAGCGTAAAGGGATCAA  
GACAGATTGGGTGAGGATGAGTCGGAACCTGGGACAGAACTGGCAATCCAACGC  
CGTTCTCATCGGCCAATCACTCTCTTCCGAGTCACCGCCTCTGACCGACGTTCTT  
CTACCTCATGGAACGTTGCTCCTGCCACGTGGCAGTTTGGTCAGACTTTCTCCGGC  
AAAACTTTCGAGTCTGA

## Nucleotide

>AtEXPA-13

AGAGCTGTTTGGTTTCGGATATAACATAACTAAAACAACATCTATTTTTTCAGTTTT  
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AATGTTTTACGTGTAAAACAAATTAGAGGCTTTAGTGTAAAACAAATTAGAGGCT  
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