

## IDENTIFICATION

**Species:** *Eucalyptus grandis*

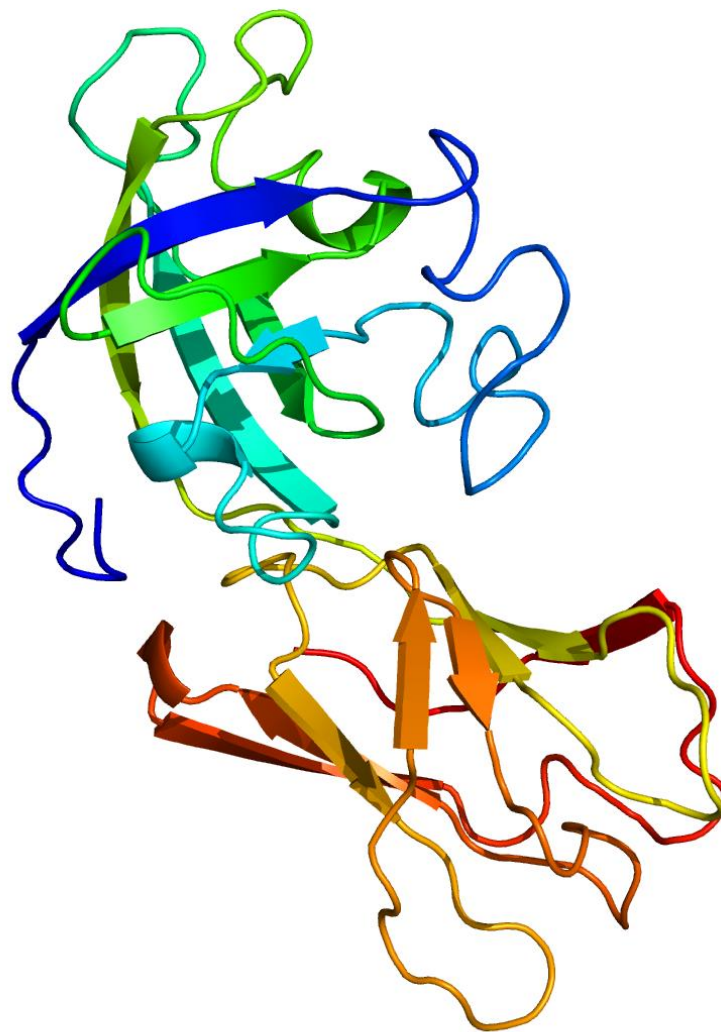
**Locus:** Eucgr.E00513

**Gene Model:** Eucgr.E00513.1.p

**Description:** EgrEXPA-09

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

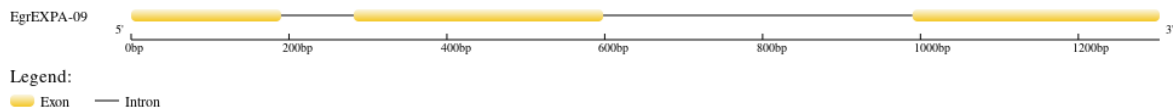
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Egrandis\\_v2\\_0](https://phytozome-next.jgi.doe.gov/info/Egrandis_v2_0)

KEGG: <https://www.genome.jp/entry/T03547>

## EXTERNAL RESOURCES

<https://eucgenie.org/>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>EgrEXPA-09

MAVATASDSLRSWRFGLLCLLVVVWRPAAAAGSYGGSPAGFKPTAWSLAHATFYG  
DETASETMGGACGYGNLFQNGYGTDTAALSSTLFDDGYACGQCYQIKCVQSPWCFK  
GVVFTT VTATNLCPPNWSQDSNAGGWCNPPRAHFDMSKPAFMKIAQWKAGIVPVM  
HRRVPCVRTGGIRFQFQGNQYWLLVYVMNVGGAGDVASMWVKGSRTGWISMESHN  
WGASYQAFATLGGQALSFKLTSYTTKETIVALNVAPSNWRVGMTYKANVNFR\*

### CDS (coding sequence)

>EgrEXPA-09

ATGGCGGTGGCGACGGCTTCTGATTCGCTTCGTTTCGTGGAGGTTTCGGCCTCCTCTG  
CCTGCTGGTGGTTGTCTGGAGACCCGCCGCCCGCAGGCTCTTACGGCGGCTCG  
CCGGCCGGCTTTAAGCCGACGGCTTGGTCCCTTGCCCATGCCACCTTTTATGGGG  
ATGAGACTGCCTCCGAGACAATGGGAGGCGCTTGCGGATATGGAAACCTCTTCCA  
AAATGGATACGGGACGGACACGGCCGCCTTGAGCTCGACCCTCTTCGACGACGG  
CTACGCGTGCGGGCAGTGCTACCAGATCAAGTGCCTCCAGTCACCCTGGTGCTTC  
AAAGGGGTCGTGTTACGACGGTGACCGCGACCAACCTCTGCCCGCCAAACTGGT  
CCCAGGACTCCAACGCCGGCGGGTGGTGCAACCCGCCGCGAGCCACTTTGACAT  
GTCCAAGCCCGCGTTCATGAAGATAGCTCAGTGAAGGCGGGC ATCGTCCCCGTC  
ATGCATCGGAGGGTCCCTTGCGTGAGGACCGGCGGGATCCGATTCCAGTTCCAAG  
GCAATGGCTACTGGCTCCTGGTGTACGTGATGAACGTGGGAGGGGCGGGCGACG  
TCGCCAGCATGTGGGTCAAGGGGAGCCGGACCGGGTGGATCAGCATGAGCCACA  
ACTGGGGCGCCTCGTACCAGGCCTTCGCCACCCTCGGCGGGCCAAGCCCTCTCCTT  
CAAGCTCACCTCGTACACCACCAAGAGACCATCGTCGCCTTGAACGTCGCCCTT  
TCCA ACTGGAGAGTGGGGATGACCTACAAGGCCAACGTCAACTTCCGTTGA

### Nucleotide

>EgrEXPA-09

ATGGCGGTGGCGACGGCTTCTGATTCGCTTCGTTTCGTGGAGGTTTCGGCCTCCTCTG  
CCTGCTGGTGGTTGTCTGGAGACCCGCCGCCCGCAGGCTCTTACGGCGGCTCG  
CCGGCCGGCTTTAAGCCGACGGCTTGGTCCCTTGCCCATGCCACCTTTTATGGGG  
ATGAGACTGCCTCCGAGACAATGGGTAATATATGCCTATAGTGTCCGTTCTTTCTG  
TAACGATATATTTACATCCGCATCTGGCTAAGCTTCTCGATTCTGAATTCTGATGT  
GCAGGAGGCGCTTGC GGATATGGAAACCTCTTCCAAAATGGATACGGGACGGAC  
ACGGCCGCCTTGAGCTCGACCCTCTTCGACGACGGCTACGCGTGCGGGCAGTGCT

ACCAGATCAAGTGCGTCCAGTCACCCTGGTGCTTCAAAGGGGTCGTGTTCACGAC  
GGTGACCGCGACCAACCTCTGCCC GCCAAACTGGTCCCAGGACTCCAACGCCGGC  
GGGTGGTGCAACCCGCCGCGAGCCC ACTTTGACATGTCCAAGCCCCGCGTTCATGA  
AGATAGCTCAGTGGAAGGCGGGCATCGTCCCCGTCATGCATCGGAGGTATGCACC  
TATGCGTACCTTGTTAATGGCATGCACATTGATTTTTACATTAAGCTCAATTTATA  
TACTAGCGATGAAATTTATTACTCAAAAATCAATTCAGTATTCGATTACTCGGCT  
GCAACCGAGTTGAGCTTGACCATATGGTTTTTCTATTGAGCCAAGCTCAGGCAA  
GAAATTCAACACTCGATCGAACTCGAGTCAAATTTTGTATATCGAGTACAACATG  
AGTTGAGTCGAGCCGAGCTCGAGCCATGCACTCTATGGACATTCCTCGACTCCAC  
TATCCCCTAACTTCCCCAATCTACTTTAGATTTATTCTTCAACTAACTTTAGTCTCA  
ACTCAACGTCTTCTCTAAAATCATATCATGATTCAATTCGAATCGACAGGGTCCCT  
TGCGTGAGGACCGGCGGGATCCGATTCCAGTTCCAAGGCAATGGCTACTGGCTCC  
TGGTGTACGTGATGAACGTGGGAGGGGCGGGCGACGTCGCCAGCATGTGGGTCA  
AGGGGAGCCGGACCGGTGGATCAGCATGAGCCACA ACTGGGGCGCCTCGTACC  
AGGCCTTCGCCACCCTCGGCGGCCAAGCCCTCTCCTTCAAGCTCACCTCGTACAC  
CACCAAAGAGACCATCGTCGCCTTGAACGTGCCCCCTTCCA ACTGGAGAGTGGGG  
ATGACCTACAAGGCCAACGTCAACTTCCGTTGA