

IDENTIFICATION

Species: *Theobroma cacao*

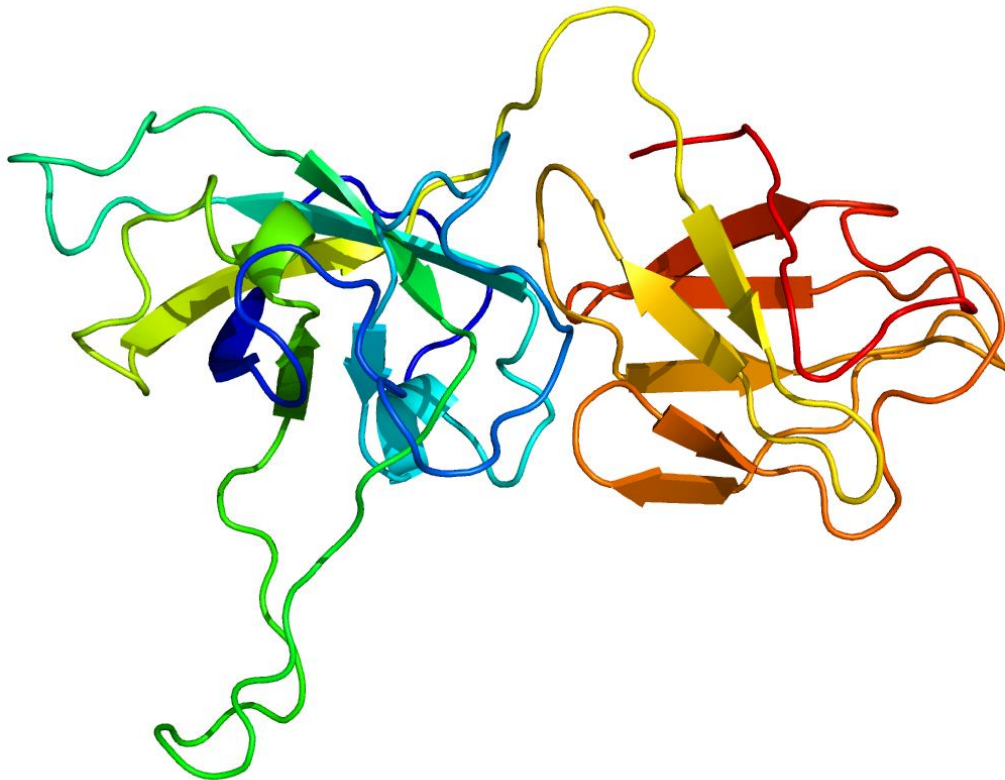
Locus: Thecc.05G258400

Gene Model: Thecc.05G258400.1.p

Description: TcEXPA-13

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Tcacao_v2_1

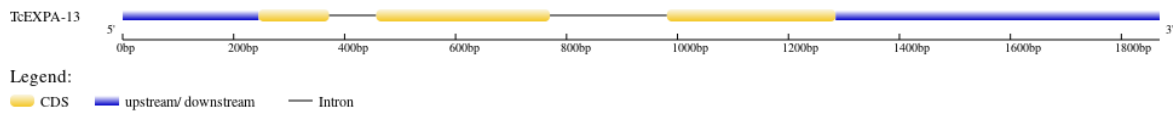
KEGG: <https://www.genome.jp/entry/gn:T02994>

EXTERNAL RESOURCES

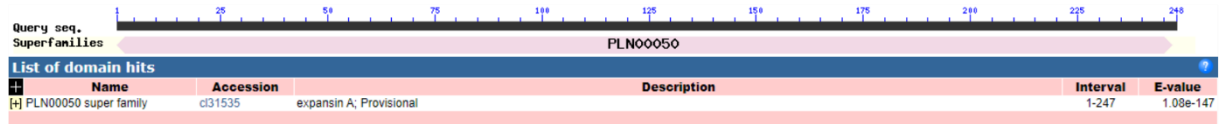
<https://www.cacaogenomedb.org/>

<https://cocoa-genome-hub.southgreen.fr/node/4>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>TcEXPA-13

MDFLGIFLVSSLATLKTIHGYGGGWSNAHATFYGGGDASGTMGGACGYGNLYSQG
YGTSTAALSTALFNKGLTCGACFEIKCINDNRWCLPGSIIVTATNFCPPNNALPNNAG
GWCNPLRHFDSLQPVFQHIAQYKAGIVPVQYRRVACRKSGALRFTINGHSYFNLVLI
TNVGGAGDVVSVSIGSRTGWQVMSRNWQNWQSNLYLNGQALSFKVTTSDGSSV
ISNNAAPPNWSFGQTFGTGGQF*

CDS (coding sequence)

>TcEXPA-13

ATGGATTTTCTTGGAAATTTTCTTGTGTCTTCTCTTGCCACGTTGAAGACAATTCAT
GGATACGGAGGTGGATGGTCTAATGCTCATGCTACCTTCTATGGAGGAGGTGATG
CTTCTGGTACAATGGGAGGCGCATGTGGCTATGGAAATCTTTATAGCCAAGGTTA
TGGCACAAGCACTGCTGCATTGAGTACTGCTCTATTCAACAAAGGGCTGACTTGT
GGGGCATGCTTTGAGATCAAATGTATTAATGACAATAGGTGGTGTCTCCCAGGAT
CCATCATAGTCACAGCAACAACTTCTGCCCTCCAAACAATGCTCTCCCAAATAA
TGCAGGAGGATGGTGTAAACCCTCCTTTAAGACACTTTGATCTCTCCAACCTGTTT
TCCAACATATAGCTCAATATAAAGCAGGAATAGTGCCTGTTGAGTACAGAAGGGT
TGCTTGTAGGAAATCTGGTGTCTGAGGTTACCATAAATGGCCATTCATACTTCA
ACCTTGTCTGATAACCAATGTTGGAGGGGCTGGAGATGTGGTGTCTGTCTCTATC
AAAGGGTCTAGAACCGGTTGGCAAGTGATGTCTCGCAATTGGGGCCAAAACCTGG
CAAAGCAACTCTTATTTGAACGGTCAAGCCCTCTCTTTTAAGGTCACAACAAGTG
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Nucleotide

>TcEXPA-13

CTGTCCTCTGTCACACACATTATAAATAGAACTTCACCCCCAGCTCTTCTTACCT
TATTTCTCAATTCTCATTGACTCTGTTCCCAAGTCAAAGTTTTCAAAGTAACTC
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CAAACCTACATAAGCCTTTCTTTATCAGTTCACCTCAAAAAATGCTGATCTTTGAA
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CAAGCACTGCTGCATTGAGTACTGCTCTATTCAACAAAGGGGCTGACTTGTGGGGC
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GAGGATGGTGTAAACCCTCCTTTAAGACACTTTGATCTCTCCCAACCTGTTTTCCAA
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AAGCATAGCTTGAGTCGAAATGGTCATATATTAATTCATTCTAAAACAAGTTA
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CTGGTGCTCTGAGGTTTACCATAAATGGCCATTCACTTCAACCTTGTCTGATA
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