

IDENTIFICATION

Species: *Theobroma cacao*

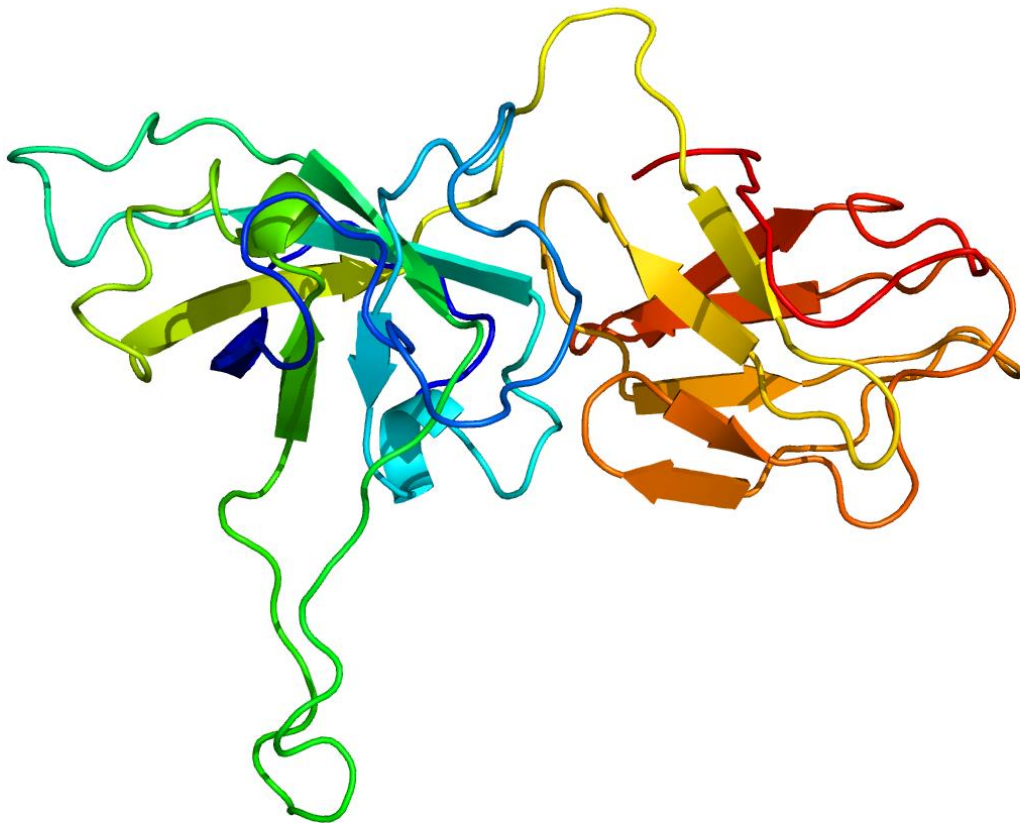
Locus: Thecc.04G152900

Gene Model: Thecc.04G152900.1.p

Description: TcEXPA-10

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

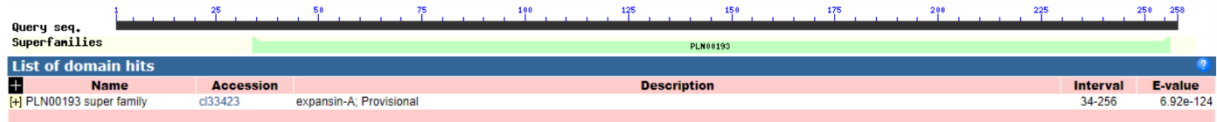
<https://www.cacaogenomedb.org/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>TcEXPA-10

MATTSMQITLSFLFLFLLGLICSCFHGSNRDDGGWQTAHATFYGGADATGTMGGAC
GYGNLYSQGYGTTAALSTALFNGLTCGACYELRCNDDPKWCISRTITVTATNFCP
PNYALSSDNGGWCNPPREHFDLAEPAFLQIAEYRAGIVPVLFRVSCVKKGGIRFTLN
GHSYFNLVLITNVGGAGDITSASIKGSKTGWLPMSRNWQNWQNNAYLNGQSLSK
LTASDGRITTKYNVVPAGWQFGQTYEGDQF*

CDS (coding sequence)

>TcEXPA-10

ATGGCCACCACATCAATGCAAATTACATTGTCATTTCTCTTCTTATTCTGTCTGCT
CGGTATCTGCAGCTGCTTCCATGGCTCTAACAGAGATGATGGAGGTTGGCAAAC
GCCATGCCACATTCTATGGTGGTGCTGACGCTACCGGCACAATGGGGGGAGCAT
GTGGTTATGGAACTTGTATAGCCAGGGGTATGGAACGACCACCGCAGCTTTGAG
CACTGCACTTTTCAACAATGGCTTGACCTGTGGTGCCTGCTACGAGCTGCGGTGC
AATGACGACCCGAAATGGTGCATTTCTCGAACAATAACCGTGACTGCCACCAACT
TTTGTCCACCTAATTATGCTTTATCTAGTGACAATGGTGGGTGGTGCAATCCCCCT
CGAGAACACTTCGATTTGGCAGAACCTGCTTTCTTGCAAGATTGCAGAATATCGAG
CTGGTATTGTTCTGTTCTCTTTCAGAAGGGTTTCTTGCGTGAAGAAAGGAGGCATC
AGATTCACCTCAATGGCCATTCTTACTTCAACCTGGTCTTGATAACAATGTGGG
AGGTGCAGGGGACATAACTTCCGCCTCCATCAAGGGGTCCAAAACAGGGTGGCT
ACCCATGTCAAGAAATTGGGGTCAAACCTGGCAGAACAATGCCTACCTTAATGGC
CAAAGCCTCTTTCAAACCTGACTGCCAGCGATGGCAGGACTATCACCAAGTACA
ACGTAGTGCCCGCTGGCTGGCAGTTTGGACAACTTATGAAGGAGATCAATTCTA
G

Nucleotide

>TcEXPA-10

CTCAAAGCCTTGCTCCAAGCAATAAAGTCACCCCTATTGTTTGAGCTTGCTCTCAC
TCAAATGGCCACCACATCAATGCAAATTACATTGTCATTTCTCTTCTTATTCTGTC
TGCTCGGTATCTGCAGCTGCTTCCATGGCTCTAACAGAGATGATGGAGGTTGGCA
AACTGCCCATGCCACATTCTATGGTGGTGCTGACGCTACCGGCACAATGGGTGAG
TTTCAGACTTGAGAAACACATAAATGTCGTTACTTGAATTTTCTGATCTTTGATG

GTCTGTATTTCTGGGATATTTGTGATGGTTTTTTTTAGGGGGAGCATGTGGTTATGG
AAACTTGTATAGCCAGGGGTATGGAACGACCACCGCAGCTTTGAGCACTGCACTT
TTCAACAATGGCTTGACCTGTGGTGCCTGCTACGAGCTGCGGTGCAATGACGACC
CGAAATGGTGCATTTCTCGAACAATAACCGTGACTGCCACCAACTTTTGTCCACC
TAATTATGCTTTATCTAGTGACAATGGTGGGTGGTGAATCCCCCTCGAGAACAC
TTCGATTTGGCAGAACCTGCTTTCTTGCAGATTGCAGAATATCGAGCTGGTATTGT
TCCTGTTCTCTTCAGAAGGTAGTGCTAATCCTCTCCCAAATTTTACTTCTATTAAT
AGCACCAACTGTCACAAAGTAATTAATATGGCATGTTACTCTCACCGAACTATA
CCTAAAACCAAGCAACTACCCTTCCTTTTCCGTAAGTTTTAAACCACAACCTCGATT
GAAATCACACTCTATCTTCACCTGTTTTTCATTATGAAAGATCGTTCCTAATAGACC
AAACTCCTTGTTTTAACTTGCAGGGTTTTCTTGCGTGAAGAAAGGAGGCATCAGAT
TCACCCTCAATGGCCATTCTTACTTCAACCTGGTCTTGATAACAAATGTGGGAGGT
GCAGGGGACATAACTTCCGCCTCCATCAAGGGGTCCAAAACAGGGTGGCTACCC
ATGTCAAGAAATTGGGGTCAAAACTGGCAGAACAAATGCCTACCTTAATGGCCAA
AGCCTCTCTTTCAAACCTGACTGCCAGCGATGGCAGGACTATCACCAAGTACAACG
TAGTGCCCGCTGGCTGGCAGTTTGGACAACTTATGAAGGAGATCAATTCTAGAG
AAATTGTTTCTATATATATATATATA