

IDENTIFICATION

Species: *Citrus clementina*

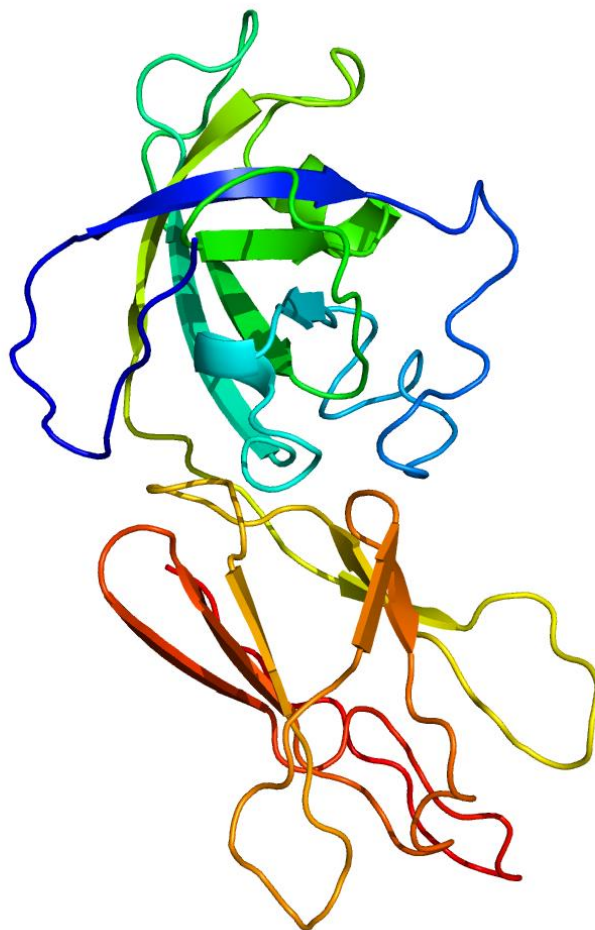
Locus: Ciclev10011981

Gene Model: Ciclev10011981m

Description: CclEXPA-12

Family: Alpha Expansin

3D structure:



GENOME DATABASES

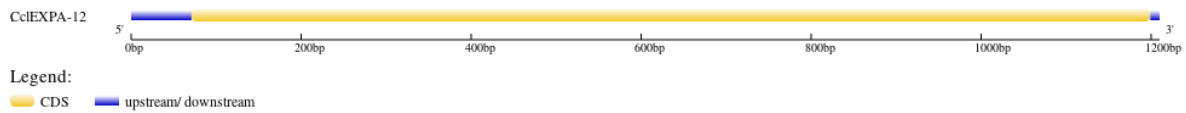
Phytozome: https://phytozome-next.jgi.doe.gov/info/Cclementina_v1_0

KEGG: <https://www.genome.jp/entry/T02982>

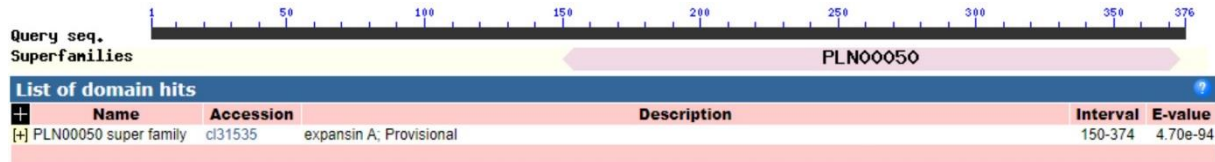
EXTERNAL RESOURCES

<https://www.citrusgenomedb.org/organism/Citrus/clementina>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>CclEXPA-12

MASPLKALSSAAVLMLLAAATLPNFGESHQQQNGGKHRGRRHHHRHNKPWVPHH
KGHQHKRKPVEHPQPVPQPHPAQPVEPVQQQPQPVPQPVSQPQLQPQPVPQPM
PVEHLPPVLPGVPIAKPTHPELSSADREAHEHDFKPGPWKHAHATFYTGDTGSFGGA
CGYSDVTREGYGEGTTALSTTLFHNGAACGACFEIKCIDDPKSCIPGQPSLFVTATNFC
PPNFHQDANDGGWCNPPREHFDAYP AFKHIAEYKAGIVPVA YRRV SCKKQGGIKFTI
TGTQHWTLVTIWNVGGAGDISHVEVKGDNKLNW TPLHKNW GSKWQTSCSLEESL
TFKVTSDGRFVISP N VTPNKYWKYGQTFEGLNFR*

CDS (coding sequence)

>CclEXPA-12

ATGGCGTCGCCTTTGAAAGCATTGTCATCAGCAGCTGTGTTGATGCTGCTTTTAGC
TGCTGCTACATTGCCCAATTTTGGTGAAAGTCACCAACAACAAAATGGGGGAAAA
CATCGCGGACGTCGTCATCATCACAGACACAACAAGCCTTGGGTTCCCTCATCACA
AGGGACATCAACATAAAAAGGAAGCCAGTGCATGAACAGCCACAGCCAGTACAGC
CACAACCACACCCAGCACAGCCGGTAGAGCCGGTACAGCAACAGCCGCAGCCAG
TACAGCCACAGCCAGTGCAGTCGCAGCCACAGCTACAGCCGCAGCCAGTCCAGC
CGATGCCTGTGGAGCACCTTCCCCCGGTACTACCTGGAGTGCCTATTGCAAACC
AACACATCCAGA ACTTTCTTCCGCTGATAGAGAAGCACATGAACATGATTTCAAG
CCTGGCCCGTGGAACACGCTCATGCCACCTTTTACACCGGAGACACCGGATCAT
TTGGTGAGCTTGTGGTTACTCGGATGTTACAAGAGAAGGATAACGGTGAGGGAA
CAACAGCTTTGAGCACA ACTTTGTTT CACAATGGGGCAGCTTGTGGTGCTTGT
GAGATCAAATGTATTGACGACCCTAAATCTTGCATTCCCGGGCAACCATCTCTCT
TGTCACAGCCACAACTTTTGCCCACTTTCCATCAAGACGCTAACGATGGC
GGTTGGTGCAATCCACCGCGTGAACATTTTGATATTGCTTATCCGGCATTCAAAC
ACATTGCTGAGTACAAGGCTGGCATTGTTCTGTTGCATATCGTAGGGTTTCATGC
AAGAAGCAAGGAGGTATCAAGTTTACCATTACTGGCACTCAACACTGGACTCTAG
TCACAATATGGAACGTAGGTGGTGGAGATATATCACACGTCGAAGTGAAGG
GTGATAACAAGTTGAATTGGACACCATTGCATAAAAATTGGGGTTCAAATGGCA
AACAAAGTTGCAGCCTTGAAGAAGAGAGCCTCACTTTTAAAGTTACCACAAGTGAT

GGCAGATTCGTTATCTCACCGAATGTTACCCCAAACAAGTATTGGAAATATGGCC
AGACTTTTGAGGGCCTCAACTTCCGCTAA

Nucleotide

>CclEXPA-12

ACAAAATACACAATAATTTAAGCTAGACATTCAAAGGCATAGCCAACCCCTTTTT
GTGTAAGGATAACCATGGCGTCGCCTTTGAAAGCATTGTCATCAGCAGCTGTG
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ACAAAATGGGGGAAAACATCGCGGACGTCGTCATCATCACAGACACAACAAGCC
TTGGGTTCCCTCATCACAAGGGACATCAACATAAAAGGAAGCCAGTGCATGAACA
GCCACAGCCAGTACAGCCACAACCACACCAGCACAGCCGGTAGAGCCGGTACA
GCAACAGCCGCAGCCAGTACAGCCACAGCCAGTGCAGTCGCAGCCACAGCTACA
GCCGCAGCCAGTCCAGCCGATGCCTGTGGAGCACCTTCCCCCGGTAACCTGGA
GTGCCTATTGCAAACCAACACATCCAGAACTTTCTTCCGCTGATAGAGAAGCAC
ATGAACATGATTTCAAGCCTGGCCCGTGGAAACACGCTCATGCCACCTTTTACAC
CGGAGACACCGGATCATTGTTGGTGGAGCTTGTGGTTACTCGGATGTTACAAGAGAA
GGATACGGTGAGGGAACAACAGCTTTGAGCACAACCTTTGTTTACAATGGGGCA
GCTTGTGGTGCTTGTGTTTGGAGATCAAATGTATTGACGACCCTAAATCTTGCATTCC
CGGGCAACCATCTCTCTTTGTCACAGCCACAACTTTTGCCACCAAATTTCCATC
AAGACGCTAACGATGGCGGTTGGTGCAATCCACCGCGTGAACATTTTGATATTGC
TTATCCGGCATTCAAACACATTGCTGAGTACAAGGCTGGCATTGTTCTGTTGCAT
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TCAACACTGGACTCTAGTCACAATATGGAACGTAGGTGGTGGTGGAGATATATCA
CACGTGGAAGTGAAGGGTGATAACAAGTTGAATTGGACACCATTGCATAAAAAT
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AAGTTACCACAAGTGATGGCAGATTCGTTATCTCACCGAATGTTACCCCAAACA
GTATTGGAAATATGGCCAGACTTTTGAGGGCCTCAACTTCCGCTAATTGAATTCA
AT