

IDENTIFICATION

Species: *Chenopodium quinoa*

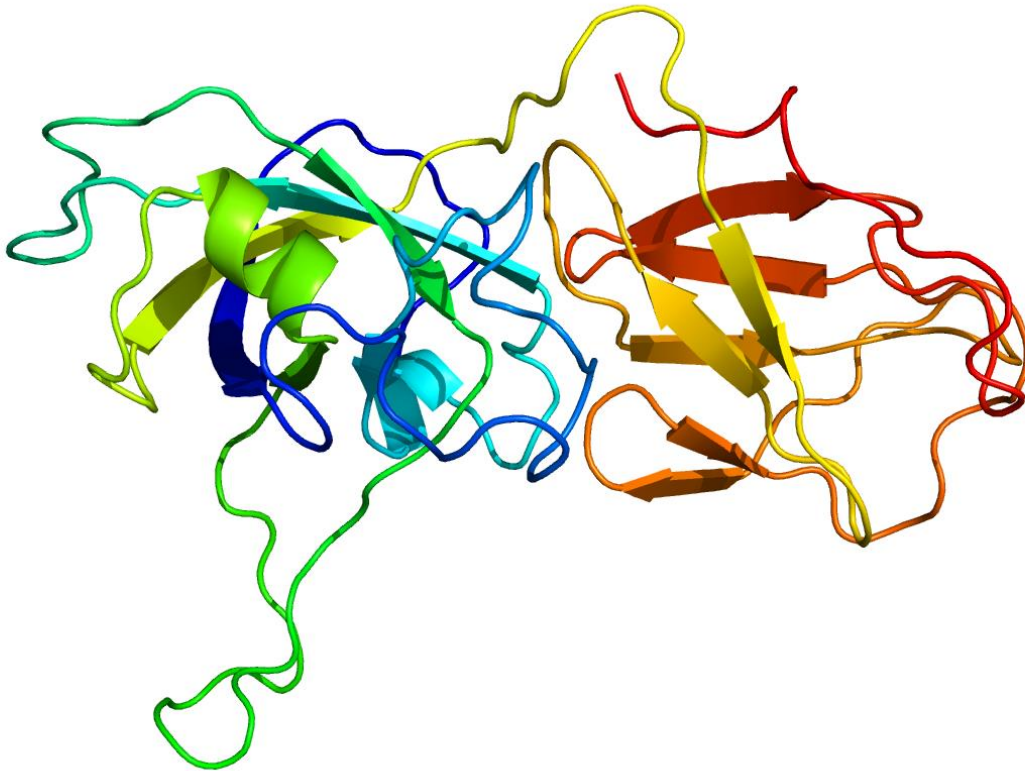
Locus: AUR62013910

Gene Model: AUR62013910

Description: CqEXPA-12

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/Cquinoa_v1_0

KEGG: <https://www.genome.jp/entry/T05764>

EXTERNAL RESOURCES

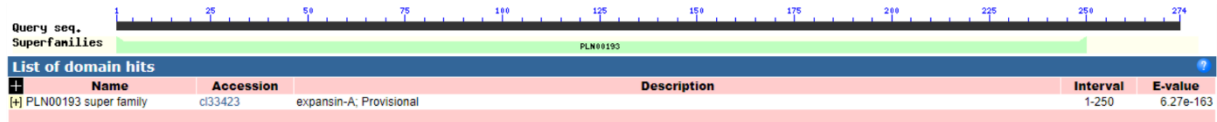
<https://www.cbrc.kaust.edu.sa/chenopodiumdb/>

<http://quinoa.kazusa.or.jp/index.html>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>CqEXPA-12

MNKATLVIAITFLGVCFLNINVDAFVASGWQKAHATFYGGSDASGTMGGACGYGNL
YTSGYGTRTAALSTALFNNGASCGQCYKIMCDYKTDPQWCRKGVSVTITATNFCPPN
PAQPNDDGGWCNPPLQHFDMAQPAWEKIGIYRGGIIPVMFQRVPCKKHGGVRF
TINGRDYFELVTISNVAAAGSIQSASIKGSKTNWMAMSRNWGANWQSLAYLDGQSL
SFRITTTDGGQTRVFNNVVPVQFVSFNQILLDRQRRRAHSFFVIEAARQIYHL*

CDS (coding sequence)

>CqEXPA-12

ATGAACAAAGCAACCTTAGTTATAGCAACTATTTTTCTTGGAGTATGTTTCCTAAA
TATCAATGTTGATGCTTTTGTGGCTTCTGGATGGCAAAGGCTCATGCCACTTTCT
ATGGCGGTAGTGATGCATCCGGGACTATGGGAGGGGCTTGTGGGTACGGTAACTT
ATACACTAGTGGCTATGGGACTAGAACTGCGGCTCTAAGTACTGCTTTGTTCAAC
AACGGGGCATCATGTGGACAATGCTACAAGATCATGTGCGACTACAAGACGGAT
CCCCAGTGGTGCAGGAAGGGAGTTTCGGTCACTATTACCGCGACTAATTTCTGCC
CTCCTAACCTGCTCAGCCTAACGATGATGGAGGTTGGTGTAACCCTCCTCTTCAG
CACTTTGACATGGCCCAACCTGCTTGGGAGAAGATTGGCATTACAGGGGTGGAA
TCATTCCTGTCATGTTCCAAAGGGTTCCTTGCAAGAAACATGGAGGAGTAAGATT
CACTATCAATGGAAGGGACTACTTTGAGCTTGTTACGATCAGCAATGTAGCCGCA
GCAGGATCAATACAATCTGCTTCGATCAAGGGATCGAAAACCAACTGGATGGCG
ATGTCTAGAACTGGGGTGCTAACTGGCAGTCATTGGCATACTCGACGGACAAT
CTCTATCCTTTAGAATTACTACCACTGATGGCCAAACCCGAGTTTTTAAACAATGTT
GTTCTGTACAGTTTGTGAGTTTCAACCAGATACTTCTTGATAGGCAGAGGCGTG
CTCATAGCTTTTTCGTCATTGAAGCAGCCCGCCAAATCTATCATTGTAA

Nucleotide

>CqEXPA-12

AAACAAAATGAACAAAGCAACCTTAGTTATAGCAACTATTTTTCTTGGAGTATG
TTCCTAAATATCAATGTTGATGCTTTTGTGGCTTCTGGATGGCAAAGGCTCATG
CCACTTTCTATGGCGGTAGTGATGCATCCGGGACTATGGGTACGTGTTTTTGT
TGTTTTAAGTACATAGACTACTATCATTTAATTTATTAATCGAATCGAAGTAACA
TAGAACTGAATCTTTTTGTTGTTATGCAGGAGGGGCTTGTGGGTACGGTAACTTAT

ACACTAGTGGCTATGGGACTAGAACTGCGGCTCTAAGTACTGCTTTGTTCAACAA
CGGGGCATCATGTGGACAATGCTACAAGATCATGTGCGACTACAAGACGGATCC
CCAGTGGTGCAGGAAGGGAGTTTCGGTCACTATTACCGCGACTAATTTCTGCCCT
CCTAACCTGCTCAGCCTAACGATGATGGAGGTTGGTGTAACCCTCCTCTCAGC
ACTTTGACATGGCCCAACCTGCTTGGGAGAAGATTGGCATTACAGGGGTGGAAT
CATTCTGTCATGTTCCAAAGGTAAGAACAACCTTAAACCTTCATTATTCGATCATT
CATATTGTTTTAGTGTTAATTCATTAGAATTACCTTTAATATGCAACAAATTTTCTT
CATTGTCATAAAAATATTAATTTTGTGTTTGTGACAGGGTTCCTTGCAAGAAACATG
GAGGAGTAAGATTCATCAATGGAAGGGACTACTTTGAGCTTGTTACGATCAG
CAATGTAGCCGCAGCAGGATCAATACAATCTGCTTCGATCAAGGGATCGAAAAC
CAACTGGATGGCGATGTCTAGAACTGGGGTGCTAACTGGCAGTCATTGGCATAAC
CTCGACGGACAATCTCTATCCTTTAGAATTACTACCACTGATGGCCAAACCCGAG
TTTTTAACAATGTTGTTCCCTGGTAATTGGCAATTTGGCCAAACATATTCGAGTCGT
GTACAATTCCATTAACATTATGGAGTGCACACTTGCAGTACAGTTTGTGAGTTTCA
ACCAGATACTTCTTGATAGGCAGAGGCGTGCTCATAGCTTTTTTCGTCATTGAAGC
AGCCCGCCAAATCTATCATTTGTAA