

IDENTIFICATION

Species: *Chenopodium quinoa*

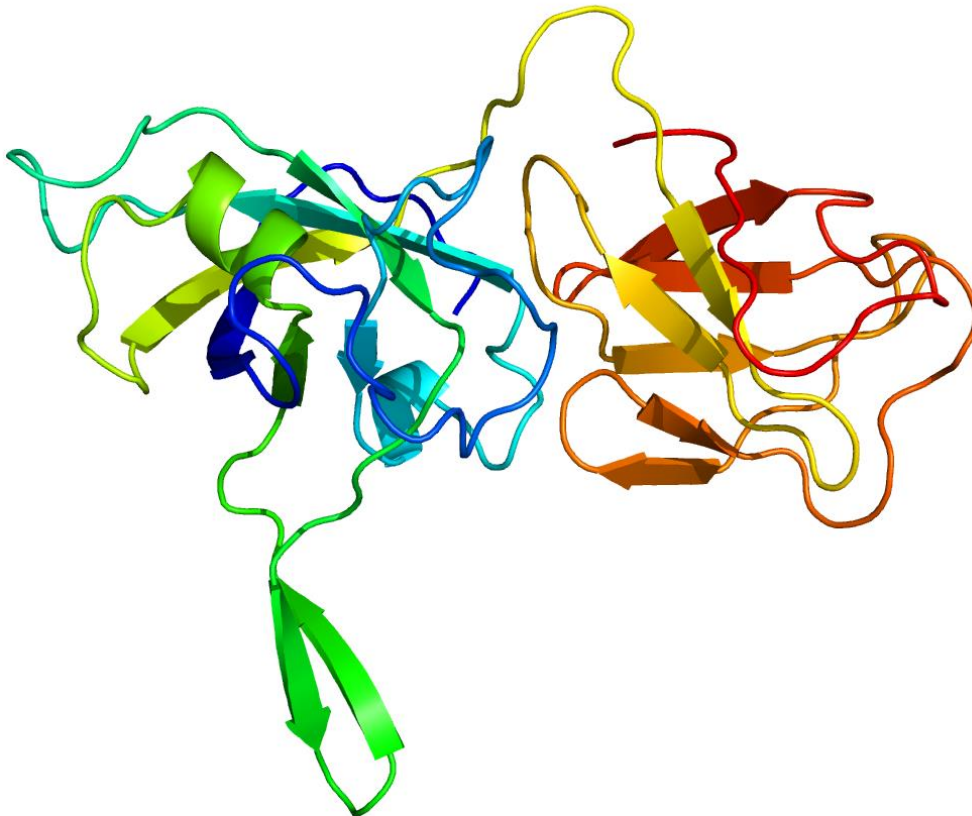
Locus: AUR62030621

Gene Model: AUR62030621

Description: CqEXPA-43

Family: Alpha Expansin

3D structure:



GENOME DATABASES

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

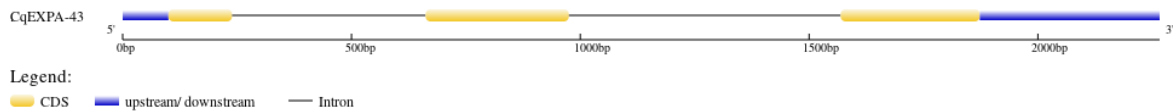
KEGG: <https://www.genome.jp/entry/T05764>

EXTERNAL RESOURCES

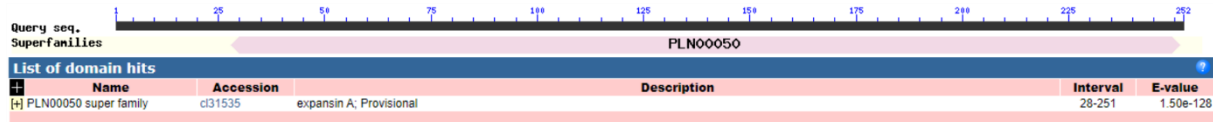
<https://www.cbrc.kaust.edu.sa/chenopodiumdb/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>CqEXPA-43

MASPTMLASTLFFVINLCLCGVYGDGGWTNAHATFYGGGDASGTMGGACGYGNL
YSQGYGTSTAALSTALFNSGMSGACYELKCNDDPKWCIAGSIIVTATNFCPPNYALS
NDNGGWCNPPQLQHFDLAEPYKIAQYRAGIVPVSFRRVPCVRKGGIRFTINGHSYFN
LVLITNVAGAGDVHSVSIKGSKTGWQAMSRNWGQNWQSNANLNGQSLSFQVTSSD
GRTITSNNIVPGNWQFGQTFEGGQF*

CDS (coding sequence)

>CqEXPA-43

ATGGCTTCTCCTACCATGTTGGCCTCAACCCTTTTCGTCTTTGTCATTAATCTATGC
CTTTGCGGTGTCTACGGTGATGGCGGTTGGACAAATGCCCATGCTACATTTTACG
GTGGAGGTGACGCCTCTGGTACAATGGGGGGAGCATGTGGGTATGGAACTTGT
ACAGCCAAGGGTACGGGACCAGCACGGCGGCACTAAGTACCGCGTTGTTTAAACA
GTGGAATGAGTTGTGGAGCTTGCTACGAACTAAAATGCAATGACGACCCAAAAT
GGTGCATAGCAGGAAGCATTATAGTGACTGCTACCAATTTTTGCCACCAAATA
TGCATTGTCTAATGATAATGGTGGATGGTGCAACCCTCCTCTACAACATTTTGATT
TGGCTGAGCCTTCTACTTGAAAATTGCTCAATATCGTGCAGGAATTGTCCCCGTT
TCATTTAGAAGGGTACCCTGTGTAAGAAAGGGAGGAATAAGGTTCAACAATCAAT
GGACTCCTACTTCAACTTGGTCCTAATCACTAATGTTGCCGGTGCCGGTGACGT
CCACTCGGTGTCGATCAAGGGTTCGAAAACCGGGTGGCAAGCAATGTCAAGGAA
CTGGGGACAAAATTGGCAAAGCAATGCTAACCTCAATGGGCAAAGCCTCTCATTC
CAAGTTACTTCTAGTGATGGAAGGACTATTACTAGTAACAACATTGTTCCCTGGCA
ATTGGCAATTTGGTCAAACCTTTTGAAGGAGGACAATTCTAA

Nucleotide

>CqEXPA-43

ACCACAAAGCAAATAGCTTTCTAGTCATTTTTCTTTCAAACCTCTCCCTTCTCTTTTT
CCCTCTCCCTCCCAAATTAACCTCTTGTCTCTAAGAATATATGGCTTCTCCTA
CCATGTTGGCCTCAACCCTTTTCGTCTTTGTCATTAATCTATGCCTTTGCGGTGTCT
ACGGTGATGGCGGTTGGACAAATGCCCATGCTACATTTTACGGTGGAGGTGACGC
CTCTGGTACAATGGGTAGGTTACATATATACTGTCTAAACATTATACCTTTAGCA
TTTTGTTACATAGTCATGTACACAAATTCCTTACCAACACTCATAACCAATGTTGT

TG TTCAGA ATTA ATTG TCAC ATTG TC GCAA ATTG ACTTTT ATGG TTATGT ACACAT
ATTA AGAAGTTATTAG TCACTCCACTAGTCCACTGGTTACCAA AACTGACAAATA
AATTAGTGTTACTATAAAAACAAGTAATATTGTAAAACCAGTACAATATGACATG
CGATAGTTAAGTACTCCGTA ACTAAGTAGTGAAATAATAAATAAATGTAGACTGT
ACTCACTATATATAGTTTTACTACAACAATAATTAATTTGGGACAGAAGGAGTAC
GTAGTTTATGTTTATAATTATCTAATTAGTTAGCGTAACGAAAATGCAGGGGGAG
CATGTGGGTATGGAACTTGTACAGCCAAGGGTACGGGACCAGCACGGCGGCAC
TAAGTACCGCGTTGTTTAAACAGTGGAATGAGTTGTGGAGCTTGCTACGAACTAAA
ATGCAATGACGACCCAAAATGGTGCATAGCAGGAAGCATTATAGTGACTGCTAC
CAATTTTTGCCACCAA ACTATGCATTGTCTAATGATAATGGTGGATGGTGC AAC
CCTCCTCTACAACATTTTGATTTGGCTGAGCCTTCTTACTTGAAAATTGCTCAATA
TCGTGCAGGAATTGTCCCCGTTTCATTTAGAAGGTACAATTTTTTTTTCCCTTAT
GTACTCGCTATTCTCTCTAATGTTATTGTTTCGTCTTAATTAGAATCTTTTCGTGAGA
TAAATTAATCTAAGTGGGTAAAACAAAAAGAATTAGAGAAAATGTTAATAATG
CGAAAGTATTTTTCTTTAATATTTTCAATTGATAGGTGTTAAATTGTTAAATGTTTT
TTGAAAAGGAAGCTACAGTCATATGGTTAAGTTGAATTTTGGATGCAAGTAGGGA
CTAGGGACATTCTGTAAAAGAAAACAAAAAATTGGAAAAGAAAAGTCATGAC
ACTTAGGCCCTTTTTCTTCATTAGATTTTAAATGAACTTTTATATATATTAATCGG
TCGTTGTTATCAAATGACTTAAAACAAATTCATTAATTACTTGTA AATATTTTTTA
CGGGCAAATAATTTTTTACTGATTA AAACTAATTTTTATTGTTGTTTTTTTTAAAT
GACAAGTCTCTTAGATAGGGTCATATTTGGTATTTAAATAATTTTCATAAAGGGTT
ATTTAAGCCAATTGTTTCTTGGGGTATATAATTCTAGTAGTCTAATATGGTATGCT
ATGAATTTTCAGGGTACCCTGTGTAAGAAAGGGAGGAATAAGGTTCCACAATCAAT
GGACTCCTACTTCAACTTGGTCCTAATCACTAATGTTGCCGGTGCCGGTGACGT
CCACTCGGTGTCGATCAAGGGTTCGAAAACCGGGTGGCAAGCAATGTCAAGGAA
CTGGGGACAAAATTGGCAAAGCAATGCTAACCTCAATGGGCAAAGCCTCTCATTC
CAAGTTACTTCTAGTGATGGAAGGACTATTACTAGTAACAACATTGTTCCCTGGCA
ATTGGCAATTTGGTCAA ACTTTTGAAGGAGGACAATTCTAATTACAAAAAAGAAA
AAACCAACAAA AATTTTAAGGAAATGAAATTATTTCCCTAAGAAAATTTTCTTCAA
GAAATTAGGAAGAGAATTTTAGAATTAAGAGGAGTTTTTTTTCCCTTAAATAGAT
TATGGTCAATATTTTTGCTGTGGTGCCTATATTAGCACCCGCTAAAGGCCATTTTA
TTTATAAATAGATACATAGGCTCTTGTGTTTTTTTTTTTTTAATTTTGGGAGTCTTTA
TAAGGAATGATGTTTTTGTGCTGATTTTAAATGGGCAAAAACATCGGTTCTTTTT
TACTCGCAACATCTTGATTTTAGCAAGCGTTGTA ACTCTGTTTTACATCCTGTAGT
ATGAATTTTTTATCAAGGTAATACGAAAATCTTTCAGTTCAGCT