

IDENTIFICATION

Species: *Chenopodium quinoa*

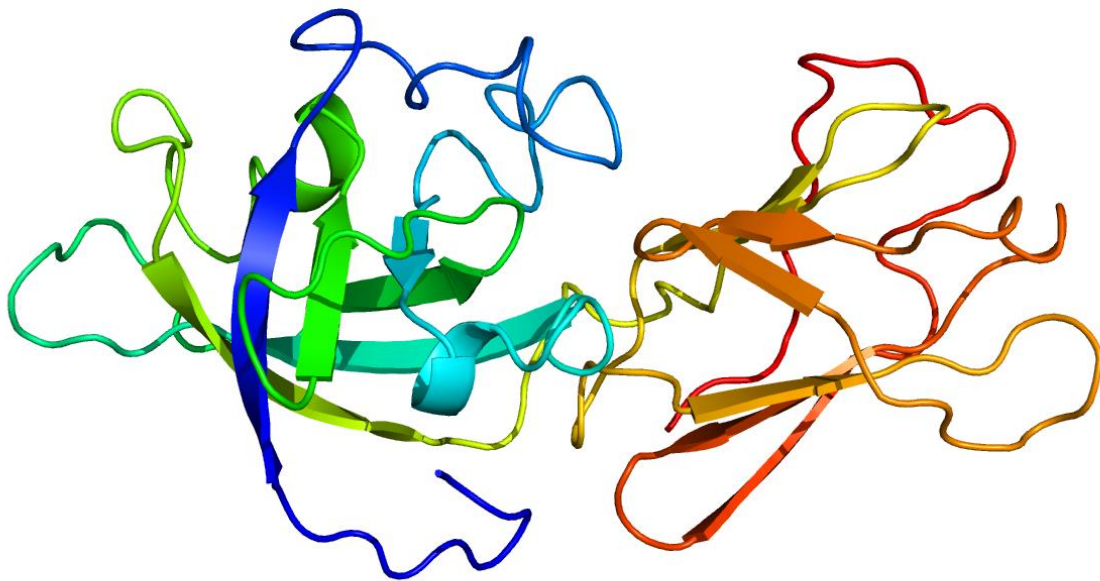
Locus: AUR62013907

Gene Model: AUR62013907

Description: CqEXPA-09

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

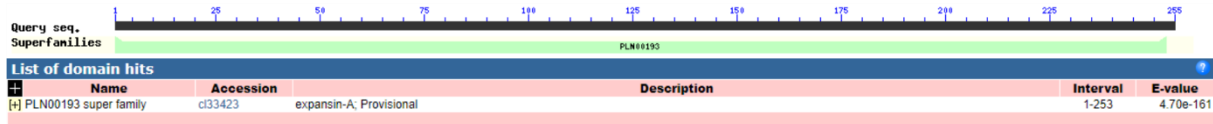
<https://www.cbrc.kaust.edu.sa/chenopodiumdb/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>CqEXPA-09

MNKAALGTVFLGLCFLNVNVNAFVTSGWQKASATFYGGSDATGTMGACGYGNLYS
TGYGTSTAALSTALFNDGAACGQCIRIMCDYKTDPRWCRKGVSVTITATNFCPPNY
ALPSDAGGWCNPPRQHFDMSSQPIWEKIGIYRGGIIPVIFQRVPCIKQGGVRFINGRDY
FELVLLTNVGGAGSIKSVSIKGSKTNWMAMSRNWGANWQSLAYLNGQSLSFRTVST
DGQTQTFNNIVPANWRFGQTFMSSIQFK*

CDS (coding sequence)

>CqEXPA-09

ATGAACAAAGCCGCCTTAGGTACTGTTTTTCTAGGATTATGTTTCCTAAACGTTAA
TGTTAATGCTTTTGTGACTTCTGGATGGCAAAGGCTTCTGCCACTTTCTACGGCG
GTAGTGATGCTACTGGAACATATGGGAGCTTGTGGGTACGGAACTTGTATTCCAC
TGGCTATGGGACTAGCACCCGACCCCTAAGTACTGCATTGTTCAATGATGGTGCT
GCATGTGGGCAATGCTACAGGATCATGTGTGACTATAAGACGGATCCCAGGTGGT
GCCGGAAGGGAGTTTCAGTCACTATTACCGCGACTAACTTCTGCCCTCCGAACTA
TGCATTACCAAGTGATGCTGGAGGTTGGTGTAAACCCTCCTCGCCAACATTTTGAC
ATGTCGCAACCTATCTGGGAGAAGATAGGCATTTACAGAGGCGGAATCATTCCCTG
TCATTTTCCAAAGGGTTCCCTGCATAAAGCAAGGAGGAGTGAGGTTTACTATTAA
CGGAAGGGACTACTTTGAGCTTGTATTGCTCACCAATGTAGGTGGAGCGGGATCA
ATCAAATCAGTTTCGATAAAGGGATCGAAAACCAACTGGATGGCGATGTCTCGA
AACTGGGGGGCTAACTGGCAGTCATTGGCTTATCTTAATGGACAATCACTGTCTC
TCAGAGTCACTAGTACTGATGGCCAAACCCAAACATTTAACAACATTGTTCCCTGC
TAATTGGAGATTTGGACAGACATTTATGAGTAGTATACAATTCAAGTAA

Nucleotide

>CqEXPA-09

ATGAACAAAGCCGCCTTAGGTACTGTTTTTCTAGGATTATGTTTCCTAAACGTTAA
TGTTAATGCTTTTGTGACTTCTGGATGGCAAAGGCTTCTGCCACTTTCTACGGCG
GTAGTGATGCTACTGGAACATATGGGATGTTTTTAAATCTATGTTTCTAGTCACTC
GATGTAGATATCATTCACTTTGGTTTTTATGGATTTTGTATTATTATGACATAATAA
ATCGAAACAACATAGGGCTGAATTATTATTATTATTATTTTATGCAGGAGG
AGCTTGTGGGTACGGAACTTGTATTCCACTGGCTATGGGACTAGCACCCGACCC

CTAAGTACTGCATTGTTCAATGATGGTGCTGCATGTGGGCAATGCTACAGGATCA
TGTGTGACTATAAGACGGATCCCAGGTGGTGCCGGAAGGGAGTTTCAGTCACTAT
TACCGCGACTAACTTCTGCCCTCCGAACTATGCATTACCAAGTGATGCTGGAGGT
TGGTGTAACCCTCCTCGCCAACATTTTGACATGTCGCAACCTATCTGGGAGAAGA
TAGGCATTTACAGAGGCGGAATCATTCTGTCATTTTCCAAAGGTAATTAATTTA
AGAACATTTGCTCATAGATTTAACACATAATTGCATGTATTTTATGGTATGTTGGG
GGTTATAAATAAAGTTCTAATATTGAATACTTTCTCATTTTATTCAGGGTTCCCTG
CATAAAGCAAGGAGGAGTGAGGTTTACTATTAACGGAAGGGACTACTTTGAGCTT
GTATTGCTCACCAATGTAGGTGGAGCGGGATCAATCAAATCAGTTTCGATAAAGG
GATCGAAAACCAACTGGATGGCGATGTCTCGAAACTGGGGGGCTAACTGGCAGT
CATTGGCTTATCTTAATGGACAATCACTGTCCTTCAGAGTCACTAGTACTGATGGC
CAAACCCAAACATTTAACAAACATTGTTCTGCTAATTGGAGATTTGGACAGACAT
TTATGAGTAGTATACAATTCAAGTAA