

## IDENTIFICATION

**Species:** *Chenopodium quinoa*

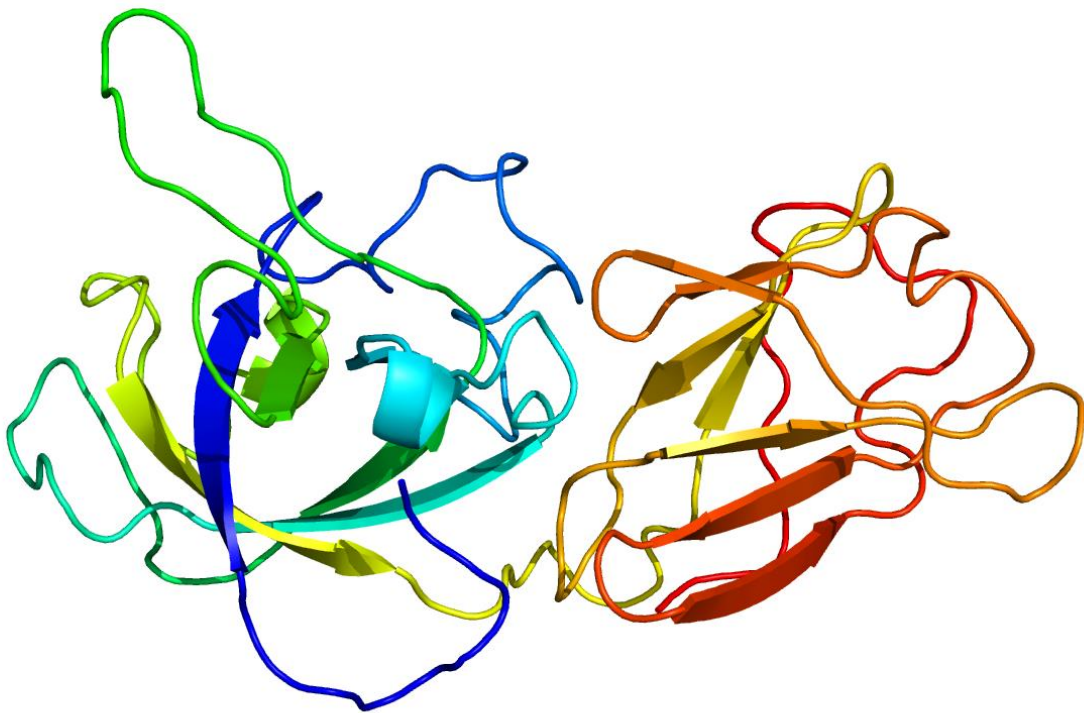
**Locus:** AUR62013908

**Gene Model:** AUR62013908

**Description:** CqEXPA-10

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Cquinoa\\_v1\\_0](https://phytozome-next.jgi.doe.gov/info/Cquinoa_v1_0)

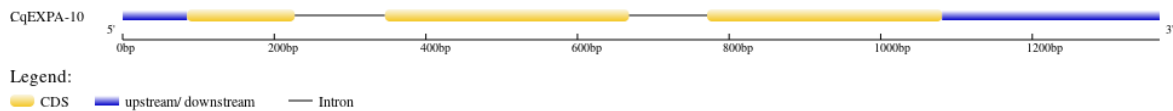
KEGG: <https://www.genome.jp/entry/T05764>

## EXTERNAL RESOURCES

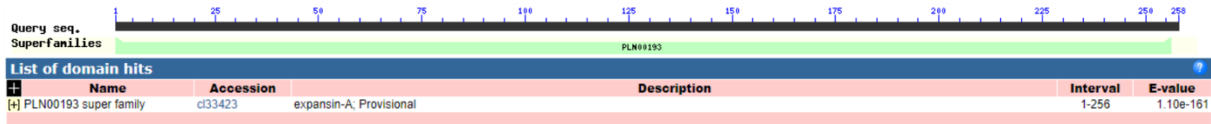
<https://www.cbrc.kaust.edu.sa/chenopodiumdb/>

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>CqEXPA-10

MSKSALAISTVFLVLCILNINVDAFVASGWQKAHATFYGGSDASGTMGGACGYGNL  
YSTGYGTSTAALSTALFNNGAACGQCIRIMCDYNTDPTWCRKGASVTITATNFCPPN  
YALPNNAGGWCNPPRQHFDMAQPIWEKIGIYRGGIIPVIFQRVPCIKQGGGLRFTVNGR  
DYFELVLISNVGGAGSIQSVSIKGSKTNWMAMSRNWGANWQSLAYLNGQSLSFRT  
TTGGQTQTFNNVIPANWRFQTFSSSIQFK\*

### CDS (coding sequence)

>CqEXPA-10

ATGAGCAAATCAGCCTTAGCCATATCTACTGTTTTTCTAGTATTGTGTATCCTAAA  
TATTAATGTAGATGCTTTTGTGGCTTCTGGGTGGCAAAGGCTCATGCCACTTTCT  
ATGGCGGTAGTGATGCTTCTGGAACATGAGGAGGAGCATGTGGGTATGGCAACTT  
GTACTCTACTGGGTATGGGACTAGCACCGCGGCTCTAAGTACTGCATTGTTCAAC  
AATGGTGCGGCATGTGGGCAATGCTACAGGATCATGTGTGACTATAACACGGATC  
CAACATGGTGTAGGAAGGGAGCTTCGGTAACTATTACTGCAACTAATTCTGCC  
TCCAAACTATGCATTGCCTAACAATGCTGGAGGATGGTGTAACTCCTCCTCGCAA  
CACTTTGACATGGCACAACCCATCTGGGAGAAGATTGGCATTACAGAGGTGGAA  
TCATTCCTGTCATCTTCCAAAGGGTTCCTTGTATAAAGCAAGGAGGCTTGAGATT  
ACTGTCAATGGAAGGGACTACTTTGAGCTTGTATTGATCAGCAATGTAGGTGGAG  
CAGGATCAATCCAATCTGTTTCGATCAAGGGATCAAAAACCAACTGGATGGCGAT  
GTCTAGAAATTGGGGGGCTAACTGGCAGTCTTTAGCTTACCTTAATGGACAATCT  
CTGTCCTTTAGAGTCACTACTACTGGTGGCCAAACTCAAACATTTAACAACGTTAT  
TCCTGCTAATTGGAGATTTGGACAGACATTTTCGAGTAGTATACAGTTCAAGTAA

### Nucleotide

>CqEXPA-10

CATCAAATACAACAACATTCTCTATCACAAACCCCTTCATTATTCTTAACTTCT  
TTTTCTCTGTTTTTGAACATAAAAAATAAAATGAGCAAATCAGCCTTAGCCATATCT  
ACTGTTTTTCTAGTATTGTGTATCCTAAATATTAATGTAGATGCTTTTGTGGCTTCT  
GGGTGGCAAAGGCTCATGCCACTTTCTATGGCGGTAGTGATGCTTCTGGAACATA  
TGGGTATGTTTTTGTCCCTTCATTTAATCGATTTACATATCATTAACTTTGGCAAAT  
ATAGATTGTGACAAAACAATCGAAGCAATATAAGACTAATTTTAAATTTGTTAT

TGTTATGTAGGAGGAGCATGTGGGTATGGCAACTTGTACTCTACTGGGTATGGGA  
CTAGCACCGCGGCTCTAAGTACTGCATTGTTCAACAATGGTGCGGCATGTGGGCA  
ATGCTACAGGATCATGTGTGACTATAACACGGATCCAACATGGTGTAGGAAGGG  
AGCTTCGGTAACTATTACTGCAACTAACTTCTGCCCTCCAACTATGCATTGCCTA  
ACAATGCTGGAGGATGGTGTAAATCCTCCTCGCCAACACTTTGACATGGCACAACC  
CATCTGGGAGAAGATTGGCATTACAGAGGTGGAATCATTCCCTGTCATCTTCCAA  
AGGTAATTAAGAACAATTATTAGCCTATTTGATCTTAGTCTAAACACGTAGTTGC  
ATATATTTTATGATGCGTCCAAATACTGAATTGTTTTTCATTATGTACAGGGTTCC  
TTGTATAAAGCAAGGAGGCTTGAGATTTACTGTCAATGGAAGGGACTACTTTGAG  
CTTGTATTGATCAGCAATGTAGGTGGAGCAGGATCAATCCAATCTGTTTCGATCA  
AGGGATCAAAAACCAACTGGATGGCGATGTCTAGAAATTGGGGGGCTAACTGGC  
AGTCTTTAGCTTACCTTAATGGACAATCTCTGTCCTTTAGAGTCACTACTACTGGT  
GGCCAAACTCAAACATTTAACAACGTTATTCCTGCTAATTGGAGATTTGGACAGA  
CATTTTCGAGTAGTATACAGTTCAAGTAACAATATGGAGCGCGTTTGCATTATAG  
TGTATCGTTTGGGTTTAAGCCAGGACTAAGGTTGGCAGAGGTGTGCTCAATGCTT  
GTTTTTCCCATTGTAGCAACCCGCCAACTCTTATCATTTGGCTAAATCAAGAGAG  
CAACTAGGAATTATTTAGTTGCTTTCACATATACATATGTTTTACAGTATAGTTG  
GTTTTGTTTTGTGTAATAATTGTTTGGCAATGAATTCATTTGTTTTAGAATTCAAG  
ATCTTGTCTACAGTACCTTACAATATTGAATGAAATAT