

IDENTIFICATION

Species: *Chenopodium quinoa*

Locus: AUR62017326

Gene Model: AUR62017326

Description: CqEXPA-40

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

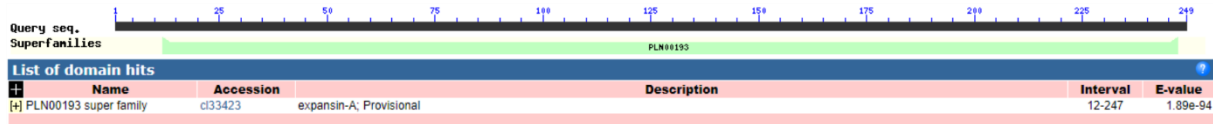
<https://www.cbrc.kaust.edu.sa/chenopodiumdb/>

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>CqEXPA-40

MARLSNGYATYFKPSKWKYAHATFYGDDSAETMGGACGYGNLFNNGYGTNTAA
LSTVLFNNGYGCGSCYQIMCVGSKWCNRNGYGHGSTSITVTATNLCPPNWAQDSNA
GGWCNPPRAHFDLSMPAFKIAFYRAGIVPVQYRRVPCGKKGGIRFSLQGNNYWLL
TTVMNVGGAGDIAKMWVKGSRTGWISMHNWGASHQAFGQLGGQCLSFKIQSYST
REIIAYNVVPAYWSVGMTYQAKVNFR*

CDS (coding sequence)

>CqEXPA-40

ATGGCGAGATTATCAAATGGATATGCTACTTATTTCAAGCCAAGTAAATGGAAAT
ACGCTCATGCAACTTTTTATGGTGATGATAGTGCCTCTGAAACAATGGGAGGAGC
ATGTGGATATGGAAATTTGTTCAACAACGGGTATGGTACCAATACAGCAGCATT
AGCACCGTATTGTTCAACAATGGATATGGTTGCGGTAGTTGCTATCAAATAATGT
GTGTGCGGTCAAATGGTGCAACCGTAATGGTTATGGCCATGGCTCGACTTCCAT
TACCGTCACTGCTACTAACCTATGCCCTCCAAATTGGGCTCAGGATAGCAATGCC
GGCGGGTGGTGCAACCCTCCTAGAGCCCCTTTGACCTCTCCATGCCTGCATTCA
AGAAAATTGCCTTTTATAGGGCCGGCATTGTTCCAGTTCAATATCGGAGAGTTCC
ATGTGGAAAGAAAGGAGGTATAAGATTTAGCCTACAAGGGAACAACACTACTGGCT
ACTAACGACGGTAATGAATGTTGGTGGTGCGGGTGACATAGCCAAAATGTGGGT
GAAAGGTTCAAGAACGGGGTGGATTAGCATGAGCCACAATTGGGGAGCATCTCA
CCAAGCATTGGTCAATTAGGAGGCCAATGTCTTTCTTTCAAATCCAATCTTACT
CCTACTCGTGAACTATTATTGCTTACAATGTTGTCCAGCTTATTGGAGTGTAGGC
ATGACTTATCAAGCCAAAGTCAACTTCCGATGA

Nucleotide

>CqEXPA-40

ATGGCGAGATTATCAAATGGATATGCTACTTATTTCAAGCCAAGTAAATGGAAAT
ACGCTCATGCAACTTTTTATGGTGATGATAGTGCCTCTGAAACAATGGGTAAAT
CTAAATCATTGAATTTTTATCATTTTTTTAAACAATTATAAAACACTTCAATTCA
CACGAGTACATAACCCTTGTTAACACTTAAACATTGTCCAGTACTGTGTTGCTGC
GTAATTTTAACTTTATAAGAAACATTCTAATCCTTCTTATTAGAGATGACTAGCTT
TTTTATACTCGTAATTTAAATAGACGTGCATGGCTCTTACCTTTATGGGTAAAT

AGAACAAATATACATGCATGTTTGAGCCTAATATATGCCTCCCTTTTTACTAACCC
TAGTGAAATAATAAATCATTACGTCGTACGAATTGAAGTACGATTTACAACAT
TATCTAAGAAGTATTGACGATTTTTTTTTATAGGAGGAGCATGTGGATATGGAAAT
TTGTTCAACAACGGGTATGGTACCAATACAGCAGCATTAAAGCACCGTATTGTTCA
ACAATGGATATGGTTGCGGTAGTTGCTATCAAATAATGTGTGTGCGGGTCAAATG
GTGCAACCGTAATGGTTATGGCCATGGCTCGACTTCCATTACCGTCACTGCTACTA
ACCTATGCCCTCCAAATTGGGCTCAGGATAGCAATGCCGGCGGGTGGTGCAACCC
TCCTAGAGCCCCTTTGACCTCTCCATGCCTGCATTCAAGAAAATTGCCTTTTATA
GGGCCGGCATTGTTCCAGTTCAATATCGGAGGTAATAAACTATACTTTGACTAGC
TCATTTTATTTGATATAGACCTGTTATTTGTAAGTAAATCCCGTGCAATG
CACGATTGATAGATTTTTTTAATAATAATATTACAAAATATAAAGTATATAAAAA
AAATTCTCGAATATTTCAATTTGAGTATAAATGGAATATGGTTGTCAAAGTGGAAA
TAAATACATAAGGTATAAGTAGTTTACTAAAAGATTTTGCAAAAAAAAAAAAAA
AAAAAAAAAAGCGAAAAAGGCGGGAAAATTTTTCACAACATAATGACAAGTGTT
ATGGAAGGATTCGCTTTTAGTATAGGTTAATAGATTAACAGCATATTTAAATTGA
ATTTACCATAAGTCAAGCTTAAATCACTAATTTGGTCAAATTTATTTTTAATCAT
TTTTATATTCATTGGTGGCCGAATAGAGTTCCATGTGGAAAGAAAGGAGGTATAA
GATTTAGCCTACAAGGGAACAACACTACTGGCTACTAACGACGGTAATGAATGTTGG
TGGTGCGGGTGACATAGCCAAAATGTGGGTGAAAGGTTCAAGAACGGGGTGGAT
TAGCATGAGCCACAATTGGGGAGCATCTCACCAAGCATTGGTCAATTAGGAGGC
CAATGTCTTTCTTTCAAATCCAATCTTACTCCACTCGTGAAACTATTATTGCTTA
CAATGTTGTCCAGCTTATTGGAGTGTAGGCATGACTTATCAAGCCAAAGTCAAC
TTCCGATGA