

## IDENTIFICATION

**Species:** *Cicer arietinum*

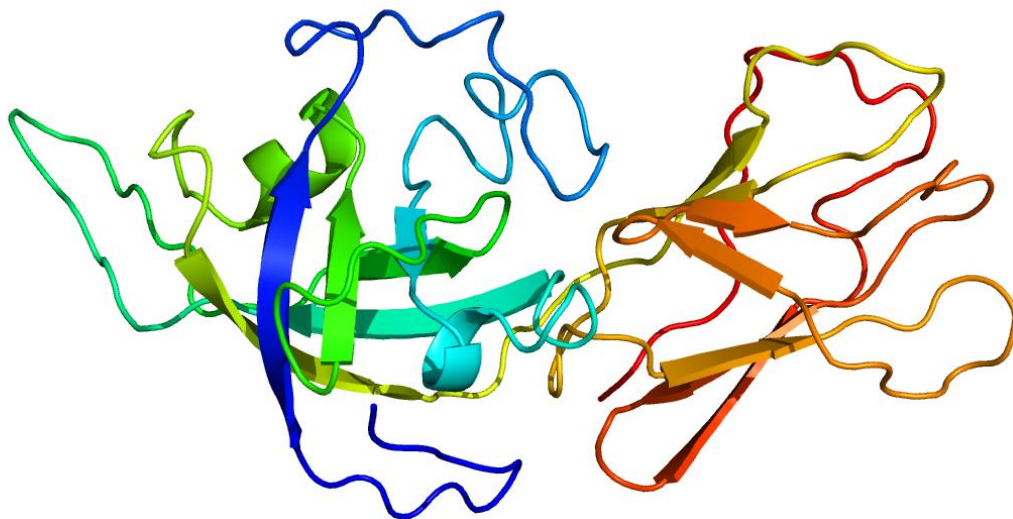
**Locus:** Ca\_13256

**Gene Model:** Ca\_13256

**Description:** CarEXPA-14

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

Phytozome: [https://phytozome-next.jgi.doe.gov/info/Carietinum\\_v1\\_0](https://phytozome-next.jgi.doe.gov/info/Carietinum_v1_0)

KEGG: <https://www.genome.jp/entry/T02819>

## EXTERNAL RESOURCES

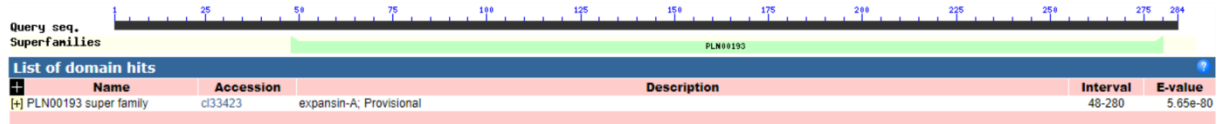
[https://www.pulsedb.org/bio\\_data/80](https://www.pulsedb.org/bio_data/80)

<http://www.cicer.info/databases.php>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>CarEXPA-14

MLISYIITIQLITILLFTSPAATSHYSSPSPAAPFYESSPEPPSLAAEWLSAHATYYSDA  
NDPMDALDGACGYGATIKDGYGLAATAVSETLFVRGQICGACFELRCFEEVVPFDRR  
RCGSGSSIVVTATNFCAPNYGFDAESGGGECNPPKQHFVVPVEAFEKIGIRKGGKLPV  
QYRRIKCRREGGMRFTITGSGIFNSVLISNVAGIGDIVGVKVKGSRTGWIPMGRNWGQ  
NWHVNALLQNQPLSFEVTSSDGVTTITSYNVAPKNWTFGQTFAGKQFES\*

### CDS (coding sequence)

>CarEXPA-14

ATGTTAATCTCTATTTACATTATTACCATTCAACTAATAACTATTCTCTTATTCACT  
TCACCGGCGGCTACCTCTCATTACTCATCTCCCTCACCACCAGCCGCACCATTCTA  
CGAATCTTCCCCTGAACCTCCTTCCCCTCGCCGCCGAATGGCTCTCCGCTCACGCCA  
CTTACTACTCCGACGCCAATGACCCCATGGATGCACTGGACGGCGCGTGTGGCTA  
CGGAGCCACTATCAAAGATGGTTACGGCCTCGCCGCAACCGCAGTCAGCGAAAC  
TCTCTTCGTGCGTGGTCAGATCTGTGGCGCGTGTTTTGAGCTACGCTGTTTCGAAG  
AGGAAGTTCCATTTGACAGGCGGCGGTGTGGCTCCGGCAGTTCGATTGTTGTCAC  
CGCTACTAATTTCTGTGCACCGAACTATGGTTTTGACGCGGAGAGCGGTGGCGGA  
GAGTGTAACCCTCCTAAGCAGCACTTCGTTGTTCCGGTGAAGCCTTCGAGAAGA  
TCGGCATTTCGAAAGGCGGTAAGTTGCCCGTTCAGTATCGCAGGATAAAGTGCAG  
GAGGGAAGGGGGGATGCGGTTTACAATTACTGGTTCTGGTATCTTCAATTCAGTG  
CTGATTAGTAATGTAGCTGGCATAGGAGACATTGTTGGTGTGAAGGTTAAAGGTT  
CAAGAACAGGTTGGATTCTATGGGTCGAAATTGGGGCCAAAACCTGGCATGTAA  
ATGCGTTGCTACAAAACCAACCTCTCTCATTTGAGGTCAGTAGTAGTGATGGAGT  
CACCATTACATCTTACAATGTAGCTCCCAAGAATTGGACCTTTGGACAAACCTTT  
GCAGGCAAGCAATTCGAGTCTTAG

### Nucleotide

>CarEXPA-14

ATGTTAATCTCTATTTACATTATTACCATTCAACTAATAACTATTCTCTTATTCACT  
TCACCGGCGGCTACCTCTCATTACTCATCTCCCTCACCACCAGCCGCACCATTCTA  
CGAATCTTCCCCTGAACCTCCTTCCCCTCGCCGCCGAATGGCTCTCCGCTCACGCCA  
CTTACTACTCCGACGCCAATGACCCCATGGATGCACTGGACGGCGCGTGTGGCTA

CGGAGCCACTATCAAAGATGGTTACGGCCTCGCCGCAACCGCAGTCAGCGAAAC  
TCTCTTCGTGCGTGGTCAGATCTGTGGCGCGTGTGTTTGTAGCTACGCTGTTTCGAAG  
AGGAAGTTCCATTTGACAGGCGGCGGTGTGGCTCCGGCAGTTCGATTGTTGTCAC  
CGCTACTAATTTCTGTGCACCGAACTATGGTTTTGACGCGGAGAGCGGTGGCGGA  
GAGTGTAACCCTCCTAAGCAGCACTTCGTTGTTCCGGTGGAAGCCTTCGAGAAGA  
TCGGCATTTCGGAAAGGCGGTAAGTTGCCCGTTCAGTATCGCAGGTGATCAACTCT  
TTCTCTTCCTCCTCAGTTTTTCTTAACAATAATTCGTTTTGCAATGTTTATTATTTA  
ACATCTTAGTAGTTCTTTTCTATTATCTCGCTAAAATAAGTCAATGATTTCTAATTT  
CACTTTTGTTTGAAAAAGTAATTATTAATTCTTAGTTTTTTTTTAAAAGATTAATTA  
ATTAATTAATAGTTAACTACTGTTGGTAGAATGATTTTAAGATTAGCTATTTTTAT  
CATAATGATTTTGATAAATGGACGGTCTGCGTTAAGCTCGGGATCGTCCTCGTCT  
TAATGACTAAGATGGTGACAAAAATATGATAAATTACTATGAGATGGTGGCATT  
TCAATATTAGTTCAAAATGAATTAGTTGATTTTGTAGATCTACATATTTATTTTTCT  
TGTTTCTGATTAACCTTAGTGGTTGAGACATGACAATAAAGAGATTATAAACTTCT  
ACCGTTGAAAAATCTGTGTTTCTTTATAAACTCTCGTCAATCATTATCTTTTTGTG  
GAAGATCTTTTTTATGAATCTTTATCTTTTTTATGTGGGGTTACAAATGAAAATA  
GTGAATAGACTCTTAATACTATATTATATTATTTATAATATTAAACTTAATTCATC  
TTTACAAATCAGACTTAATATAATTTTCAACCTTTATGAAACAGGATAAAGTGCA  
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GCTGATTAGTAATGTAGCTGGCATAGGAGACATTGTTGGTGTGAAGGTTAAAGGT  
TCAAGAACAGGTTGGATTCCCTATGGGTTCGAAATTGGGGCCAAAACCTGGCATGTAA  
ATGCGTTGCTACAAAACCAACCTCTCTCATTTGAGGTCCTAGTAGTATGGAGT  
CACCATTACATCTTACAATGTAGCTCCCAAGAATTGGACCTTTGGACAAACCTTT  
GCAGGCAAGCAATTCGAGTCTTAG