

## IDENTIFICATION

**Species:** *Sorghum bicolor* Rio

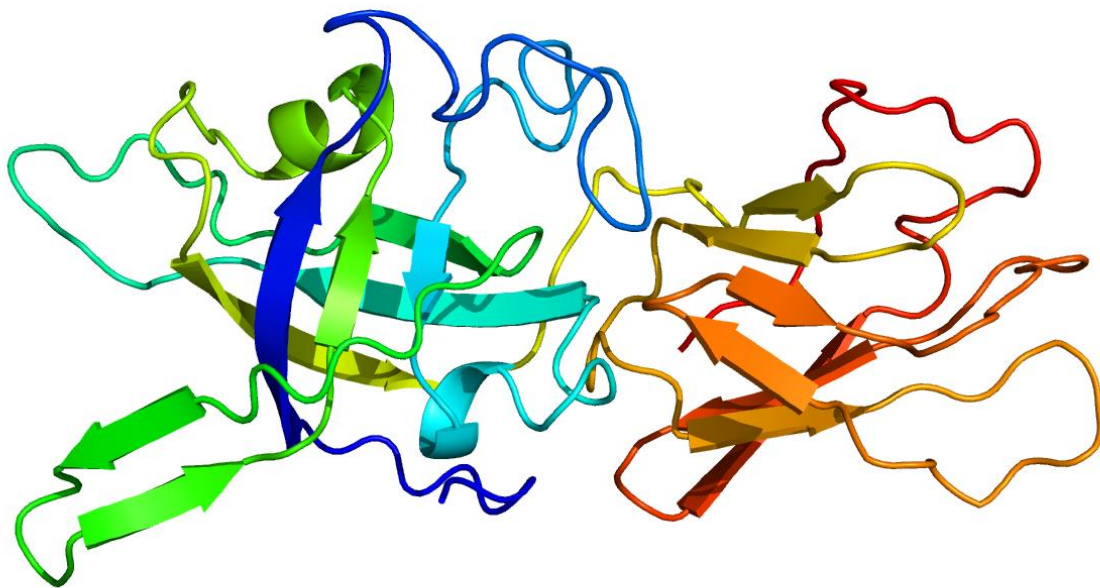
**Locus:** SbRio.04G129500

**Gene Model:** SbRio.04G129500.1.p

**Description:** SbrEXPA-19

**Family:** Alpha Expansin

**3D structure:**



## GENOME DATABASES

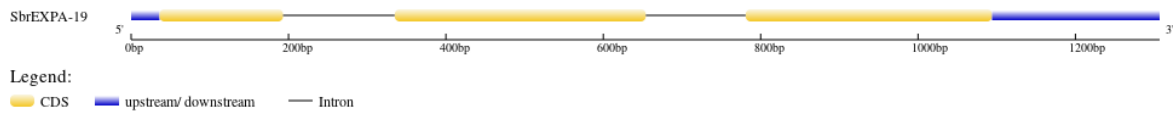
Phytozome: [https://phytozome-next.jgi.doe.gov/info/SbicolorRio\\_v2\\_1](https://phytozome-next.jgi.doe.gov/info/SbicolorRio_v2_1)

KEGG:-

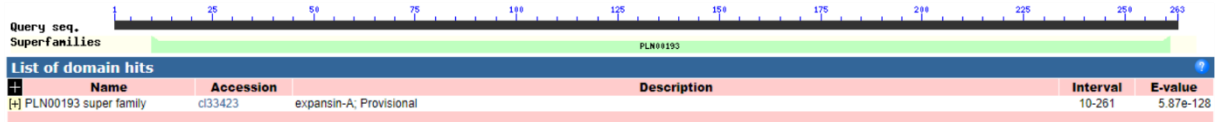
## EXTERNAL RESOURCES

<https://www.sorghumbase.org/post/sorghum-bicolor-rio>

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>SbrEXPA-19

MAVPARVFTLLVLASAAGWVSAMAANAPAPPPTGWLKAHATFYGGADASDTMGG  
ACGYGNLYSQGYGTRTAALSTVLFQDGASCGQCYKIACDRKRADPRFCCKPGVTVTV  
TATNFCPPNLALPEGGWCNQQRPHFDMAQPAFEKIGVYSGGIIPVMYKRVPCVKRGG  
VRFTINGHDYFNLVLVTNVAAGSIKSMEVKTSNSSNWSPLARNWGANWHSLAYLT  
GQMLSFRLTNTDGQTIEFTDVPQEWKFGQTFASKLQFK\*

### CDS (coding sequence)

>SbrEXPA-19

ATGGCGGTTCCAGCTCGAGTCTTCACGCTCTTGGTGCTCGCATCAGCTGCCGGTTG  
GGTGTCCGGCCATGGCAGCTAATGCTCCGGCACCACCACCAACAGGGTGGCTGAA  
GGCGCATGCCACCTTCTACGGAGGCGCAGATGCCTCCGACACCATGGGCGGCGC  
GTGCGGGTACGGCAACCTCTACTCCCAGGGCTATGGCACGCGGACGGCGGCCTTG  
AGCACGGTGCTCTTTCAGGATGGGGCCTCATGCGGTCAGTGCTACAAGATCGCGT  
GCGACCGCAAGAGAGCCGACCCAGGTTCTGCAAGCCCGGCGTCACGGTGACCG  
TCACGGCCACCAACTTCTGCCCGCCAACTTGGCGCTGCCCGAGGGCGGCTGGTG  
TAATCAGCAGCGCCCGCACTTTGACATGGCGCAGCCGGCATTGAGAAGATCGGC  
GTCTACAGCGGTGGTATCATCCCTGTCATGTACAAGAGAGTTCCTTGCCTGAAGC  
GAGGTGGGGTACGCTTACCATCAATGGGCATGACTACTTCAATCTTGTGCTTGT  
GACCAATGTTGCGGCTGCCGGCTCCATCAAATCCATGGAAGTCAAGACCTCGAAT  
TCGAGTAACTGGTCTCCATTGGCACGCAACTGGGGTGCAAACCTGGCACTCACTTG  
CATATCTTACAGGGCAGATGCTCTCGTTTAGGCTCACCAACACGGATGGACAAAC  
TATTGAATTCACAGATGTGGTGCCACAAGAATGGAAGTTTGGCCAAACATTTGCA  
TCCAAGTTGCAGTTCAAGTGA

### Nucleotide

>SbrEXPA-19

ATATCTCCAGCTTCTTCTCGTACGGTCTTAGAGGTATGGCGGTTCCAGCTCGAGT  
CTTACGCTCTTGGTGCTCGCATCAGCTGCCGGTTGGGTGTCGGCCATGGCAGCT  
AATGCTCCGGCACCACCACCAACAGGGTGGCTGAAGGCGCATGCCACCTTCTACG  
GAGGCGCAGATGCCTCCGACACCATGGGTAAGCTAGCTAGCTAGCCACTCAAGA  
ACCATGCATGGGATAGCTTTCAGCTTCTATCTCTATATATGCCATGAACATGATG

CACATCTGTCATCTTGGTCTGATCTATCAAATAATATACGTCTACGGTGGTGGTGG  
CAGGCGGCGCGTGC GGGTACGGCAACCTCTACTCCCAGGGCTATGGCACGCGGA  
CGGCGGCCTTGAGCACGGTGCTCTTTCAGGATGGGGCCTCATGCGGTCAAGTGT  
CAAGATCGCGTGCGACCGCAAGAGAGCCGACCCAGGTTCTGCAAGCCCCGGCGT  
CACGGTGACCGTCACGGCCACCAACTTCTGCCCCGCCAACTTGGCGCTGCCCGAG  
GGCGGCTGGTGTAAATCAGCAGCGCCCGCACTTTGACATGGCGCAGCCGGCATTG  
AGAAGATCGGCGTCTACAGCGGTGGTATCATCCCTGTATGTACAAGAGGTATTC  
TTTTATGTCATTTCCCTACCTCTTCCCTAGCTAGCCTGGATCTATTAGAAAAAATCAA  
AACCTTACTAGGATGCAATGCAATATCCTAATACTACAATAATTAATTTCTTGCT  
TGCATATAGAGTTCCTTGCGTGAAGCGAGGTGGGGTACGCTTCACCATCAATGGG  
CATGACTACTTCAATCTTGTGCTTGTGACCAATGTTGCGGCTGCCGGCTCCATCAA  
ATCCATGGAAGTCAAGACCTCGAATTCGAGTAACTGGTCTCCATTGGCACGCAAC  
TGGGGTGCAAACACTGGCACTCACTTGCATATCTTACAGGGCAGATGCTCTCGTTTA  
GGCTCACCAACACGGATGGACAAACTATTGAATTCACAGATGTGGTGCCACAAG  
AATGGAAGTTTGGCCAAACATTTGCATCCAAGTTGCAGTTCAAGTGATGATGAGA  
GCTCCATCATGCATCTAGGATTATTATTTCCGGTGACTCATTTAGTTACAGAAGTT  
TGATTTAAAGATGTATAGCTGGTCAAATGCATGAATAATGGACTTGCTTGTGTT  
GTACACTTGTACTCATCAGCCACCGCTATGTATGGCTTTGTATCTCTCATTCTTTCT  
ATTGTACAGTCCTATGTTTAAATTTATTTTTATGGT