

IDENTIFICATION

Species: *Sorghum bicolor* Rio

Locus: SbRio.02G321400

Gene Model: SbRio.02G321400.1.p

Description: SbrEXPA-11

Family: Alpha Expansin

3D structure:



GENOME DATABASES

Phytozome: https://phytozome-next.jgi.doe.gov/info/SbicolorRio_v2_1

KEGG:-

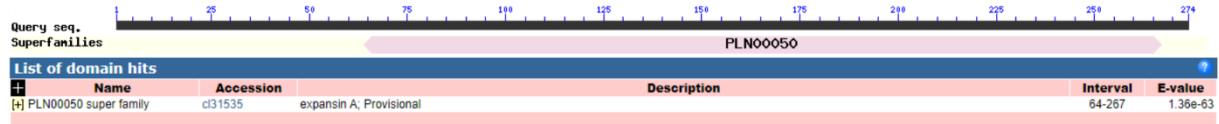
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>SbrEXPA-11

MSGRRRRSWTIWAPLLASLLLAGLALS AKVVDEEEAEADGDDGGGASKKKKPHVN
HGKFKADPWTGDHATFYGGRDGS GTTDGGACGYKGELGKDYGALTA AVGPSLYTN
GAGCGACYELKGSKGTVVVTATNQAPPVSGQKGEHFDLTMPAFLKIDEEKAGIVPI
TYRKVACARQGGIRYTITGNPNY NMVMVTNVGGAGDVVALSVKGNKRVKWTMPK
RSWGQLWITEVNLTGESLTFR VMTGDHRKATSWHV APRDWTYDKTYQATKNF*

CDS (coding sequence)

>SbrEXPA-11

ATGTCTGGTCGTCGTCGTCGTTTCGTGGACAATATGGGCGCCTCTCCTGGCGTCGCT
GCTGCTCGCCGGGCTGGCGCTGTCGGCCAAGGTGGTGGACGAGGAGGAGGCGGA
GGCGGACGGCGACGACGGTGGTGGCGCCAGCAAGAAGAAGAAGCCCCACGTAA
CCACGGCAAGTTCAAGGCGGACCCGTGGACGGACGGGCACGCGACGTTCTACGG
CGGGCGCGACGGGTCCGGCACCCACGGACGGCGGGCGCATGCGGCTACAAGGGCGA
GCTGGGAAAGGACTACGGCGCGCTCACGGCGGCCGTGGGCCCCTCGCTCTACAC
CAACGGCGCCGGGTGCGGCGCGTGCTACGAGCTCAAGGGCTCCAAGGGCACCGT
GGTCGTGACGGCCACCAACCAGGCCCGCCGCGGTCAGCGGGCAGAAGGGCGA
GCACTTCGACCTCACCATGCCGGCGTTCCTCAAGATCGACGAGGAGAAGGCCGGC
ATCGTGCCCATCACCTATCGCAAGGTGGCGTGCGCGAGGCAAGGCGGCATCCGGT
ACACCATCACGGGGAACCCGA ACTACAACATGGTGATGGTGACCAACGTGGGCG
GCGCCGGGGACGTGGTGGCGCTGTCGGTGAAGGGCAACAAGCGCGTCAAGTGA
CGCCGATGAAGCGCAGCTGGGGACAGCTCTGGATCACGGAGGTCAACCTCACCG
GCGAGTCGCTGACGTTCCGCGTCATGACCGGCGACCACCGCAAGGCTACCTCCTG
GCACGTCGCGCCCCGCGACTGGACGTACGACAAAACATAACCAGGCCACCAAGAA
CTTCTAG

Nucleotide

>SbrEXPA-11

CGCACCTCCACAAGCAAAGCATGCATCTAAAAATGGCGGGTGCATCATCTAAAA
AGCTGGCCAGCTACGTATATATTATCATCACGTATTAGCTTGCTAGATTCACACGC
TGACTACCAAGCAAATTAACCATAATTAATTAACCAATCATGTCTGGTTCGTCGT
CGTCGTTTCGTGGACAATATGGGCGCCTCTCCTGGCGTCGCTGCTCGCCGGGC

TGGCGCTGTCGGCCAAGGTGGTGGACGAGGAGGAGGCGGAGGCGGACGGCGAC
GACGGTGGTGGCGCCAGCAAGAAGAAGAAGCCCCACGTTAACCACGGCAAGTTC
AAGGCGGACCCGTGGACGGACGGGCACGCGACGTTCTACGGCGGGCGCGACGGG
TCCGGCACCACGGACGGCGGGCGCATGCGGCTACAAGGGCGAGCTGGGAAAGGAC
TACGGCGCGCTCACGGCGGGCCGTGGGCCCGTTCGCTCTACACCAACGGCGCCGGT
GCGGCGCGTGCTACGAGCTCAAGGGCTCCAAGGGCACCGTGGTCGTGACGGCCA
CCAACCAGGCCCCGCCGCCGGTCAGCGGGCAGAAGGGCGAGCACTTCGACCTCA
CCATGCCGGCGTTCCTCAAGATCGACGAGGAGAAGGCCGGCATCGTGCCCATCAC
CTATCGCAAGTAGGTAGCTAGGCTTCGTTTCGCTTGTTTTATAAACCGTAATTTTC
TACTAACTAGTAGTATTTTTCTCTTATAATAAATCAACGAACAATTTTTTAGTTA
TAGTTTTTCAGATAAAACAAACATACTCATAGTGGTAGCACTAGCTTTCATATACAT
GCATGCATCTACGTACAAACAATTGACACGTACATGTACGTGCAGGGTGGCGTGC
GCGAGGCAAGGCGGCATCCGGTACACCATCACGGGGAACCCGAACACTACAACATG
GTGATGGTGACCAACGTGGGCGGGCGCCGGGGACGTGGTGGCGCTGTCGGTGAAG
GGCAACAAGCGCGTCAAGTGGACGCCGATGAAGCGCAGCTGGGGACAGCTCTGG
ATCACGGAGGTCAACCTCACCGGCGAGTCGCTGACGTTCCGCGTCATGACCGGCG
ACCACCGCAAGGCTACCTCCTGGCACGTCGCGCCCCGCGACTGGACGTACGACAA
AACATACCAGGCCACCAAGAACTTCTAGGATCGGATCATCTTCCGGCCGGCCTCT
TCTTTATGCATGCATATTTTGTATTTTGTATACTCTCATTCAAGCTTAACATATTG
ACTGCATGGTTTGTACTGAAAAACCGAACTGAACCTCCGTCGCTGGAGTCAATAA
ACTGTTGACATGTTTCAATTTCAACACCATTGGTTTCAGCCAGAGGTTGAGATTGA
CAAAGTCCTCGTAAGCGTCTTGCATGCGGTCAATAGAAATTTTCGTCTATCATTGA
ATGCAAAATATGCTGTAAATATTTAAATATTCGCTTTTATAGAGAGTTGAGATGT
TACAAAACTCTTGTAACCACTGGCTACAGACCA