

IDENTIFICATION

Species: *Oryza brachyantha*

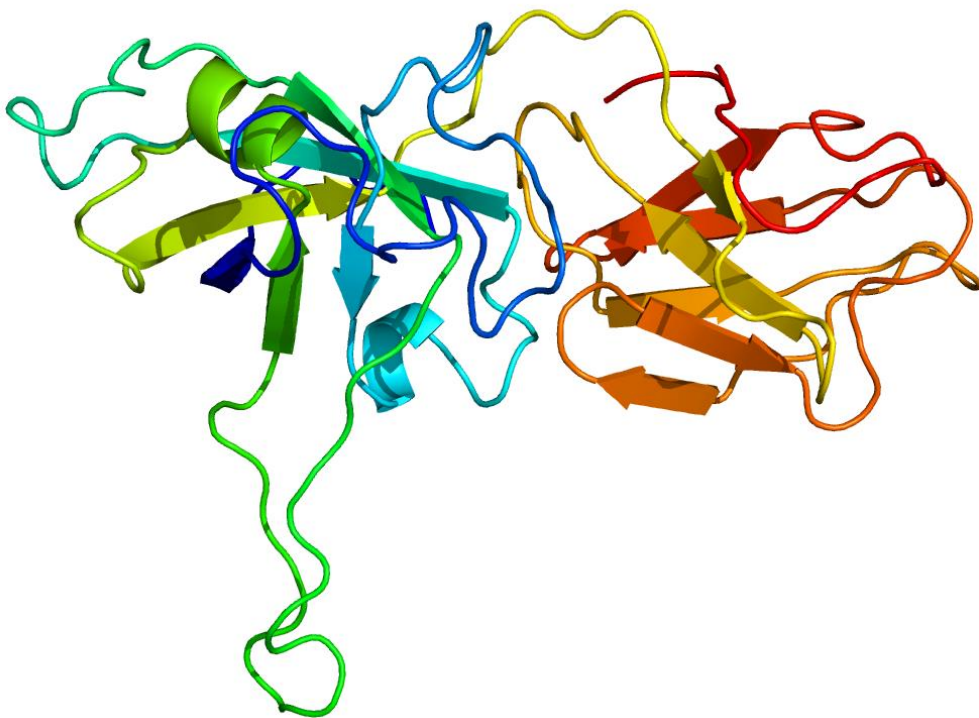
Locus: XP_006656263

Gene Model: XP_006656263.1

Description: ObEXPA-23

Family: Alpha Expansin

3D structure:



GENOME DATABASES

NCBI: https://www.ncbi.nlm.nih.gov/genome/10862?genome_assembly_id=1593936

KEGG: <https://www.genome.jp/entry/T02995>

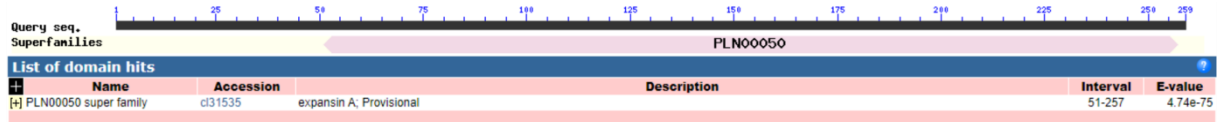
EXTERNAL RESOURCES

<https://rice-genome-hub.southgreen.fr/organism/1941498>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>ObEXPA-23

MSSVLLLFLLLLSWVNLGGCIRLGNNGGYEEWRMGSATYVKESLGHPLNDGGGACGY
GDLDIFRYGRYTAGVSGALFGRGSACGGCYEVRVNHVLWCLRGSPTVVVATDFC
APNLGLSDDYGGWCNFPKEHFEMSEAAFLRVAKAKADIVPVQFRRVSCDRAGGMRF
TITGGTSFLQVLITNVAADGEVA AVKVKGSRTGWIPMGRNWGQNWQCDADLRGQP
LSFEVAGGRGTTVTAYSVAPPDWMVAQTFEGKQLVE

CDS (coding sequence)

>ObEXPA-23

AGGAAGGAGGAAAAGCAGACACCCCTTCTACTCTCCTGTGCTCCTTTCATCTTTG
ACTCGCCCCCATTCCCAGTCTCCCACCACAGGCCAAAACACTGCGCGTTTCAGAG
TTCAGAGTTTCAGACAAAGAACACCACACAAGCAGGAGGCAAGAGAGTACTGCA
GCAGCTCAAATCAAGCCTCCTCCTCCCCAATCCATTGGTGCCACTCTCTTCCCCT
TCCAGAGGGAAGGAGGCATTGATCACCAAAAAGTTATCCAGGTGTGATGAGCTC
TGCTCTGCTACTCTTCTTGCTGCTGCTCTCTTGGGTGA ACTTGGGTGGCTGCATAA
GGCTTGGCAATGGCGGATACGAGGAGTGGAGGATGGGCTCGGCGACTTACGTCA
AGGAGTCCCTGGGGCACCCACTTAACGATGGTGGTGGAGCATGTGGGTACGGGG
ACCTGGACATCTTCAGGTACGGGAGGTACACGGCGGGCGTGAGCGGGGGCGCTGT
TCGGGCGCGGCAGCGCGTGCGGCGGGTGCTACGAGGTCCGGTGC GTGAACCACG
TGCTGTGGTGCCTGCGCGGCAGCCCGACGGTGGTGGTACGGCGACCGACTTCTG
CGCCCCAACCTGGGCCTCTCCGACGACTACGGCGGCTGGTGC AACTTCCCCAAG
GAGCACTTCGAGATGTCGGAGGCCGCCTTCTCCGCGTCGCCAAGGCCAAGGCCG
ACATTGTTCCGGTGCAGTTCGGGAGGGTGAGCTGTGACAGGGCCGGGGGGATGC
GGTTCACGATCACCGGCGGCACCAGCTTCCTGCAGGTGCTGATCACGAACGTGGC
GGCGGACGGCGAGGTGGCGGGCGGTGAAGGTGAAGGGATCGAGGACCGGGTGA
TACCGATGGGGAGGAACTGGGGCCAGAACTGGCAGTGC GACGCCGACCTCCGCG
GCCAGCCGCTGTCGTTTCGAGGTCGCCGGCGGGAGGGGGACCACGGTCACCGCCT
ACAGCGTAGCGCCGCCGACTGGATGGTTCGCGCAGACGTTTCGAGGGCAAGCAGC
TTGTTCGAGTAGGGACGATCGCAATGATTGTAATTATAATCATAATTATTACACAG
GTGATGAAAATCGCTGTTTGGTTTGGATGATGCGAAGACGATTGCTGTGCTTGA
TCTGCTCATATATATATATAGAGAGAGTTAATTA

Nucleotide

>ObEXPA-23

AAGTTTTAGGTAGCGTTCAGTTCCCAAACATTTTGGGAGGAAGGTCAGCTCGAC
GCGTGCGATCACGTATTTAAAGTATTAAGCGCAGTCTAATTATAAAAATAGATTTT
AGATTTTGTCTAGAAACCACGAGACGAATCTTTTGAGTCTAATTAATCCATCATT
GCACATGTTAATTACTGTAGCACTTATGACTAATTATGACTAATTAAGCTCAAA
AGATTCGTCTCATGATTTCTCTCGTAACAGTATAATTAGTTTTAATATTTATGTAT
ATTTAATAAAAATATCTAAAAATTTCGATATGATGTTTTTTAAAAAAAATTTAGGA
ACTTAACGCAGCCTTAACGTGGCCGAAGAAACAAGTGAAGGTGATACTGCTTTGA
GAAATTGCAAAGTTGCCGAGGGTGCAATAGCAAAAGGCACCTCAAGTCCTTCT
ACTCGTCTTAAAAGGGAAGCCGCCCGTCTGCAAATCCCAATAAAGCGAGAGC
AGAAAGGAAGGAGGAAAAGCAGACACCCCTTCTACTCTCCTGTGCTCCTTTTCATC
TTTACTCGCCCCATTCCCAGTCTCCCACCACAGGCCAAAACACTGCGCGTTTCA
GAGTTCAGAGTTTCAGACAAAGAACCACACAAGCAGGAGGCAAGAGAGTACT
GCAGCAGCTCAAATCAAGCCTCCTCCTCCCCAATCCATTGGTGCCACTCTCTTCC
CCTTCCAGAGGGAAGGAGGCATTGATCACCAAAAAGTTATCCAGGTGTGATGAG
CTCTGTCTGCTACTCTTCTTGCTGCTGCTCTCTTGGGTGAACTTGGGTGGCTGCA
TAAGGCTTGGCAATGGCGGATACGAGGAGTGGAGGATGGGCTCGGCGACTTACG
TCAAGGAGTCCCTGGGGCACCCACTTAACGATGGTATGTGCATTGTGTATGTGTT
TGGCAGTTC AAGCTACTGAATCTTTTATCAGTTGGTAGAATCAAGAACATGTCTTT
TTTTTCTTCATTTTCTTTGGATGGATTTGTGAATATAGTTTGCAACGATGAACGG
TGAGCAGATGATGTTGTACAGATCCGGCATGATGGGAGCGAAGTTATAGTTACAG
TCGAAGTAGAAAATAGGATTGAAGATTC ACTGCTGAAACTTGTCCCTCCCCTTCT
CTTTCTTCAGATAGATTGTGACCCTTCGAACTGAACTTTCAATGTGTGTCCTGTTG
ATGGTAGGTCCATTTTGTCTTAATTTGTAAAAGGGTAGGAAAAAGGTTTTCTTTCA
TGGTTATAATAGAATGTTTGGTATCAATGTTAATAAAGCTACCATTCCAATCAA
TATTATCTCTATAATCTTCAGATAAAACCTTTTATGTTTATTAGTGC ACTAATGCT
GTCCTGATCAAACGCAAGAAACATGATATAGTACATTATTGGGCTAAGTGGACCT
TAAATTATGCAAGTCTCTTTTTCTTTTAGGTAGGTTGTCGAAAAGCTGAAGCACA
TTAAATGCATTGACAATTGTTTACAATAACAATTATGAGAGCAATCTGGTACTCC
TACAAGTGATCTTCCCTTGCAGTTACTGTCCATGTGGTACCACATTGATGTCTCTC
TAGTACATTTACAGTAATTGCTCCATGGCTTAAGTGCCATTAACCAACATACTGTC
AGAACAAGATTCATGGCAAACCAACCACACTTGAATTTCTCTACTTGCCACTGAT
ATCCTGAATTC AAGTACATCTAGACATGATCAA ACTATCAACCAGTCTTGTGAC
ATCCTGTTGGAGTAACTCTGAAGCTGATCCTCTCCATCTTACTACTTGAGAATGGA
GCAAAGATTATCCTTTTGTCTGATGCAATGCAATGGTTGTCTGAAATCTGAACCTG
CGATTATCCTTTTGTCAA ACTATCAACCTGGTAATGCAGCAAAGAAATTAATCTTT
TTGTCTGATGCAATGGTTGTCTGAACTGTGAACCTGCGATTATCTTTTTGTCAAAC
TACCAACCTGGTAATGCAGCAAACAATAATCGTTTTGTCTGAACTCTGAAAC
TGCAAGGTGGTGGAGCATGTGGGTACGGGGACCTGGACATCTTCAGGTACGGGA
GGTACACGGCGGGCGTGAGCGGGCGCTGTTTCGGGCGCGGCAGCGCGTGC GGCG
GGTGCTACGAGGTCCGGTGC GTGAACCACGTGCTGTGGTGCCTGCGCGGCAGCCC
GACGGTGGTGGTGACGGCGACCGACTTCTGCGCCCCAACCTGGGCCTCTCCGAC
GACTACGGCGGTGGT GCAACTTCCCCAAGGAGCACTTCGAGATGTCCGAGGCC
GCCTTCTCCGCGTCGCCAAGGCCAAGGCCGACATTGTTCCGGTGCAGTTCCGGA
GGTAATCTTCATCTTATTCTTCTCCCAAAGTACTCTTTACATAGACACGATCTCTA
ATGCACATGTCGTGGA ACTGTTGCTTAGAGCAAGTTTAATAGTATAGCCAACTAC

TACAGACTCCAAATCGTCTATAGTCAACTTATAACCAATTTGTTTAATAGTTAACT
ATAAATATACTACACCATTAATATCTGATCCCGTATATCATAACACACGTGTATT
TTAGAGTCCGTACCGTAGCTGGCTATAAATCTATAGATTGCTGCTCTTCTCTCTCC
TTAAAATATGATTGTAAGTCTAAGCTTATAGTCTGCTATTATACATGCTCTTAGTCTTA
GTTACAGTACACTCCCTCCGTCCATAATAAACCGACCAAGCACGGGACGGGACA
TATTCTAGTTCTATGAATCTAAACATACATCTGCCTAGATTTCGTTGCACTAGGATG
TGTCACATCCAGCATGAGGTTCATTTTTTTAAATGGCATAAATTCATTTATCACA
AATCCGCTAGAACCATTTATGAGATAAATTCTCAGTAAGTTTGATTGCGTGTGTTT
CAGAACGTCATCTATTTAAGAATTGGATTGAGTATTCAGTACTGCGGACATGTT
GCTCCCTGCTCATTGATCACTCCTAGCGTATCATCTTGTGAGCTAGCTGATGTGTG
AATCTGAGTATGCAAAGCGTATGGCTATCATTCTTGAGCTCTGCATTTTGGAGT
GTATAATTCTAGACTGAAGCAGTGCTGCTTTCGCGAAAGTTCGTAATGATGTTTG
ATCATTGGAGATGGAACACAGAATATATGGACAGTAGTGCATGTTTCCAGGCACT
TTGCATGGATCAAAGAGCAGCTTTAGATCTTTAATCACTGCTGCTCCACCCCTTTT
TTAAATCTGACTTGTGCTTTCTTAATTATGAGCACCTCCATAGTTTCAGACAATTG
CCATGAGTGTGTCCCAAGCTCCAGCCGGTAGTGCAAGAGTACACAATAAGTATC
CATCTTTCTAAACTAAAGTGGTACAGTTCTGTATCAAACCTAAACTAAAAGTAT
TAAGTTATTTTGAGATGGAGCGAGTAAACTACAATTTACCGAATTC AACATCGGT
GAAGGTGTGCCTAAGAGCAAGGTTAATAATATAGTAAGCTGACTATAAACTTCT
TATAGGCTTCTCTTAACCTACTCATACCCATATAGTAGTTAGCTTTTTATAATTA
TATATGATCCACTTATCTTTCTCATAGAGTTTTTTTTTTCTTGTGTCCGAGCCA
ACTATAAGCTTACGATCGCCTCCTCTCTTTCCATATCTTCTCCACCTCAGTATTTAGCTA
GCTTACCGTCTGCTATTATACTTGCTTTAAATGAATGTAAACCATTTCCGTTATCT
GAATAATAATCTTGGACTCTGCATGAATGAAGCAGCGACATACTGCAAATGTTGG
ATTTTCGTGTGCTGACCATCGGTGAATGAATGAACGGCGGTGGTGCAGGGTGAGC
TGTGACAGGGCCGGGGGGATGCGGTTACGATCACCGGCGGCACCAGCTTCTGCG
AGGTGCTGATCACGAACGTGGCGGCGGACGGCGAGGTGGCGGCGGTGAAGGTGA
AGGGATCGAGGACCGGGTGGATACCGATGGGGAGGAACTGGGGCCAGAACTGGC
AGTGCAGCGCCGACCTCCGCGGCCAGCCGCTGTCGTTTCGAGGTGCGCCGGCGGGA
GGGGGACCACGGTCACCGCCTACAGCGTAGCGCCGCGGACTGGATGGTTCGCGC
AGACGTTTCGAGGGCAAGCAGCTTGTGCGAGTAGGGACGATCGCAATGATTGTAATT
ATAATCATAATTATTACACAGGTGATGAAAAATCGCTGTTTGGTTTGGATGATGC
GAAGACGATTGCTGTGCTTGATCTGCTCATATATATATATAGAGAGAGTTAATTA
ATGCAGGATTGACAAAAAATATAAAGATGGGCTAATCAGTGGTCCAGTACTAGA
GTAACCTCGTCTGAAGAAAATGTGACGGAGTACCATCTTGTGTTGCTTGGTGACAT
AATGGTGGTGCATATGCTGCACAAAAGTACATGTAGAGTACACCATAAATAAGA
GGAAAAACATAGCTTTGCGGTAGTAGGACATGTCATGTGGCATAACAAGTCGAGC
AGGCTTGCATCAATTGGCGAGGCTTGTGAATGAATCATTGGGTGAACATGCAAAT
GGCACTGGGTTTCACGCCGACACAGTGACGCAAGTAGCAGTAAAGCACACGCTA
GTGCAGCGAGGAGAGTTTTTCTAGTCATACTGCGATCAGCACACAGCAATATCTT
CGTGTCTTCTCTATCAGCCATACGAACTGTCGTACCTATAGACAATAGTTTGCTG
ACAGGCTACTGTACACATTTACAGCACCAAAGCCGCAATCCTAGGACTTTCATGA
GCGAGGAT