IDENTIFICATION

Species: *Oryza brachyantha*

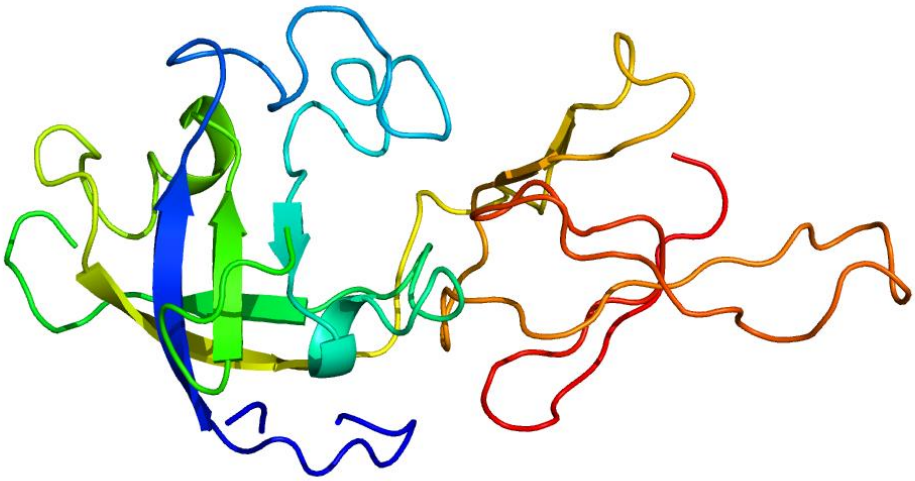
Locus: XP_006651432

Gene Model: XP_006651432.1

Description: ObEXPA-15

Family: Alpha Expansin

3D structure:



GENOME DATABASES

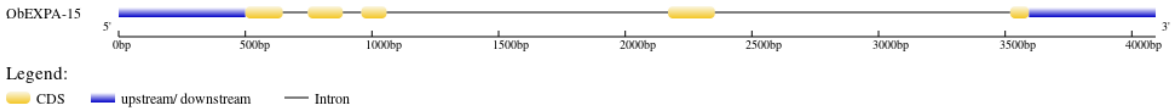
NCBI: https://www.ncbi.nlm.nih.gov/genome/10862?genome_assembly_id=1593936

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

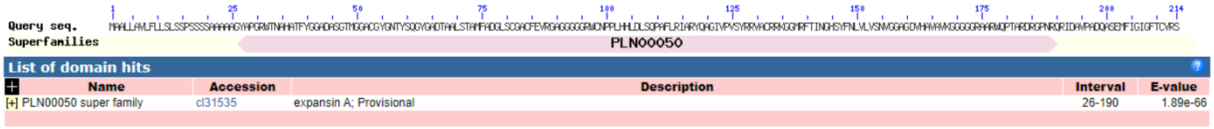
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>ObEXPA-15

MAALLAVLFLLSLSSPSSSSAAAAAAGYAPGRWTNAHATFYGGADASGTMGGACGY
GNTYSQGYGADTAALSTAMFADGLSCGACFEVRGAGGGGGRWCNPPLHHLDLSQP
AFLRIARYQAGIVPVSYRRVACRRKGGMRFTINGHSYFNLVLVSNVGGAGDVHAVA
VKGGGGGRAARWQPTARDRGPNRQRIDAVPADQASEMFIGIGFTCVRS

CDS (coding sequence)

>ObEXPA-15

ATGGCGGCCTTGCTAGCGGTGCTCTTCTTGCTCTCGCTGTCGTCGCCGTCGTCGTC
CTCCGCGGCGGCGGCGGCCGGGTACGCCCCCGGCCGCTGGACCAACGCCCACGC
CACCTTCTACGGCGGCGCCGACGCCTCCGGCACCATGGGTGGCGCGTGCGGGTAC
GGCAACACGTACAGCCAGGGGTACGGCGCGGACACGGCGGCGCTGAGCACGGCG
ATGTTCGCGGACGGGCTGAGCTGCGGCGCCTGCTTCGAGGTGCGGGGCGCCGGC
GGCGGGGGGGGGCGGTGGTGCAACCCGCCGCTCCACCACCTGGACCTCTCCCAG
CCGGCCTTCCTCCGCATCGCCCGCTACCAGGCCGGCATCGTCCCCGTCTCATACCG
CCGCGTGGCGTGCCGGAGGAAGGGCGGGATGAGGTTCACCATCAACGGGCACTC
CTACTTCAACCTGGTGCTGGTGAGCAACGTGGGCGGCGCCGGCGACGTGCACGCG
GTGGCGGTGAAGGGCGGCGGCGGCGGCAGGGCGGCGCGGTGGCAGCCCACGGCC
CGGGACCGGGGCCCGAACCGGCAGAGGATAGACGCCGTCCCCGCTGATCAGGCT
TCGGAGATGTTTATAGGGATAGGGTTTACGTGCGTGCGTTCTTAG

Nucleotide

>ObEXPA-15

TAGGTGGATGAGCGTAACATTGAGTATGTAATGGTGTGCACGCGTGTGTACGTCT
TCCGTGCAATAAAAAAATCCCACATCTTTTCGCTTATGCTTATAAGAAAAAATAT
TTGATTTTAATGTTTTTTACTATAATTTATTTTTCAGCTCTAACTTTTAAATCACTA
AAAAATATGTTTACTTTTAGTTTACAAATATATTGTTTAACCATTTCCATAAAAAA
GACCAACCATTCACCGTTGAGTTGGTAGGCAGAGAAAGACACGCACATTACACA
TATCATAGAAAGACAAGCATGCATGCAAGCGTACGTGCAGTTAAAAAGTGTTAA
ACCAGTGACATATTCTTCGAAAAATAAATCTACAAACTTTTCCTGTGCTAGCCAG
CTATATGTGCGCGTGCCTATTTATACCCCCACACGAACGAACGAACGATCGATGC
CAATGTAGTAGACACGAGCCTACTTTAAGCTCTCTACTTCCTCGATCGCGCGTAC

GGCAATGGCGGCCTTGCTAGCGGTGCTCTTCTTGCTCTCGCTGTCGTCGCCGTCGT
CGTCCTCCGCGGCGGCGGCGGCCGGGTACGCCCCCGGCCGCTGGACCAACGCCC
ACGCCACCTTCTACGGCGGCGCCGACGCCTCCGGCACCATGGGTACGTACGTACG
TCTCTCAGCTAGCTATATCTATATATATGCGTGTCAGCTCTCAGCTCTGGATTGAA
GTGTGGCGATCGACGCCGGCGCCGGTGCAGGTGGCGCGTGCGGGTACGGCAACA
CGTACAGCCAGGGGTACGGCGCGGACACGGCGGCGCTGAGCACGGCGATGTTCG
CGGACGGGCTGAGCTGCGGCGCCTGCTTCGAGGTGCGGGGCGCCGGCGGCGGGG
GGGGGCGGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNGGGCGGGTGGTGCAACCCGCCGCTCCACCAC
CTGGACCTCTCCCAGCCGGCCTTCCTCCGCATCGCCCGCTACCAGGCCGGCATCG
TCCCCGTCTCATACCGCCGGTGAGCGACCATGTCTACGTACACCCTTCGTCGTCGT
CGTGCACTAGCTAGCTAGCTTTAGAGGAATACTAGCTAGTGCTCTAATGCTTGAG
CGAGATCCGGTCAAACTTTTCAAATTGTGATAAATTGTTGATAATTTCTCAAATAC
TTAGTTTAAAATAAAAGAAGTGTGTTAAAAGAAAAATAACGACGTACTCCGTCCG
GTCAAAAGTTAATGTCGTTTTGGATAGTTGTATGGTTAAACTTTTAAAACCTTAAC
TATTAATAACTATTAAAATATATTTAGTTTAAGACACTAGGGAAACATGTTTGAA
CGAGTCTTATAAAATACTTCAACAAAGATAAACATTTGTTTTTTATATTATAATAG
TAAATTATAATCAAAGATAAATTTTGAAGACCGTGTTGGTGTCCAAAACGATATA
AATTAAGATTTTGCTTGAAATTAATGTAATCTAGTAATACCATAATGTGTTATATT
TTCTAAATTTATTTTGATATAAAATTGTTGGTTGGAATTTTGAACTTTTGACTTAAT
CTTATAATGAGTTATTCTTAATTTTTTAAAACCCATATTTTATAGTTAAATTATAG
AAAAACTATGCGTATTGTGATTTATCACCAGGATTCACGAAATCATGCGGTAACC
ATGCTACAGCTAGAGGGCAGTGATGGTAACCGTGTGGTTTGGTTTCATGAATTTT
TATCAAAATTCATTTTTGTAGAAAAAAGATAAAATATCGAAATAAATTTCTGCAA
GTAGTAGTTGATTTCTATTGCAATCTTATAGGTTTATTTCATATTTTGGGCTCCAC
AAAAATAGGAAAAAAGCTTAAAACAAAACATATATGGGATAAGATATTATTTCT
TCTTTAAAAATATATTAGAAGTTGCGCTAACAAATTTATGCAACGTTGTATTACTT
TTCTAGAGCTACCTACAATTTTTTTTTTGAATTTTCGTAGTATGGTATTTTGTGAAA
TCTTAAGATCATAATACCTGATGTTATATGTGACATGTTATAATGCATGTTTGTTT
TTTTTTAAAAAAATTGATCATAAAACACGGTGTCTTTCTTTTCTGAACTTTAATTC
TTAACAAATATGTGTAGCGTGGCGTGCCGGAGGAAGGGCGGGATGAGGTTCACC
ATCAACGGGCACTCCTACTTCAACCTGGTGCTGGTGAGCAACGTGGGCGGCGCCG
GCGACGTGCACGCGGTGGCGGTGAAGGGCGGCGGCGGCGGCAGGGCGGCGCGGT
GGCAGCCCACGGCCCGGGACCGGGGCCCGAACCGGCAGAGCNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNCCGCCCCGGTGGGCCTTCGGCCAGACCTTCATCGG
CCGTCAGTTCACCTGAGATCGGCCGGCCGGCCGGCCAATGCACACTATTGTATCT
TGATCGATTTGAAAATTTCGCAGCTATGTAAAACTGACACGATCCGGATAATTAA
GGGGATGTTTGTTTCTAGGGGCTAAGTCATATCAGATGTTAAACGTAAACTATTA
ATAAAACTCATTCATAATTTTGGGCAAATTCGCGAGACGAATCTAATGAGCCTAA
TTAATTCATGATTAGCCTATGTGATGCTACAGTAAACATTTGCTAATTATGGATTA
ATTAGGCTTAAAATATTCGTCTCGCGCGGATTAGCTCTCATTTATGAAATTAGTTT
TTTATTAGTCTATGTTTAATACTTCAAATTAGTATCCAAACATCTGATGTGACATG
AGACTAAAAAGTTTAGCCTCATCTAAACAACCTCTGAACAGTATGTCGTAATCAA
ACGCGTTTCAGAAGGAAAAGAACGTCCAGTAATGGTTGGGGATATCTATTTGTCC
ATGACTTAGGTTATTGTTTTTGCTTTCAGTAAAAACAGAGCTTTTTTTTAAAACTT
TTTTCTCTAAAAGAAAATATATTTGTCGATCGATGGAATTTTTGATCTCGTCATTT
CTCTAACATTATTTGTATCGATATATTAACAACTCACACTTAAGTATAATTTTGTG

AATTGCACAAGTTTATGTGACCTATGTATAGAGAAATACGAAGCAATTGATAAAT
ATAGGAAAACCGTTAATTACCATCTCCAAGAGAATAATAATATTTTACTTTCCAA
AAACTTATATTAGATTCATCTAAAAAATTTTGGACATAAAAATTACACACTCCTC
CTATAGAAATAAAAAAATTTATATTAGGAACACATATTTTTGCTCCTAATTTTAGG
ATACAAATGAGCTAATTTAGGCATGCGTAAATATTTAGAATATATTTGTTAAACT
GTTGGAGATATATTTTCCAGTCAAATTCTTAAAATTCAGTTTTATCATCAAATCTA
GATATCTCTTTGAGATGCTCAATACTTCCCATTTTCTCGAAGGAAGCGGATCATCT
GGGCAGTTAAGCTCTTAGATTTTCTAACGGCTTTGTGCTTTCAGGGATAGACGCC
GTCCCCGCTGATCAGGCTTCGGAGATGTTTATAGGGATAGGGTTTACGTGCGTGC
GTTCTTAGAGGAGAGTGCGTGCGTTGTGAGCGTCTATATTGTACTATGTTCTCTTA
AAAAAGCTCCATATCCACTGTCCATTTCATTAACGGAGTAGGATTGCCCTCACGT
GGCTACTTAGCGAACCAATGAAACCTATGTGCTACAGTAATCAGGATTATGGATC
ATCTTTTCGTTTTTGGAAAAAAAAGGCATACAACATATTTGTAGATAAAAAATAA
TTTTTAAATAAAACTTTTATATACATGTTCTCGATGATAAAGTCACAACTAAAAA
ATAAACTACGATAAAAAATATCAAAATTTTCGGTCTTTAGTTCATTTAGTTCGGTT
TCTCAGTTTTGGTTATTTTTGTCCACTCCTATGCGTGTGTATATATAAGTGCATAA
ACAATTTTTAAGGCTCTATGTACTTCTTATTGACTATGGGTTATCGAAAGTTTATA
GCAGGGTAGGAGACAGTGTTTAGGCGATGGTACTTCATTAATTTTTTTTCAACGG
TTAGGATTC