

IDENTIFICATION

Species: *Oryza sativa*

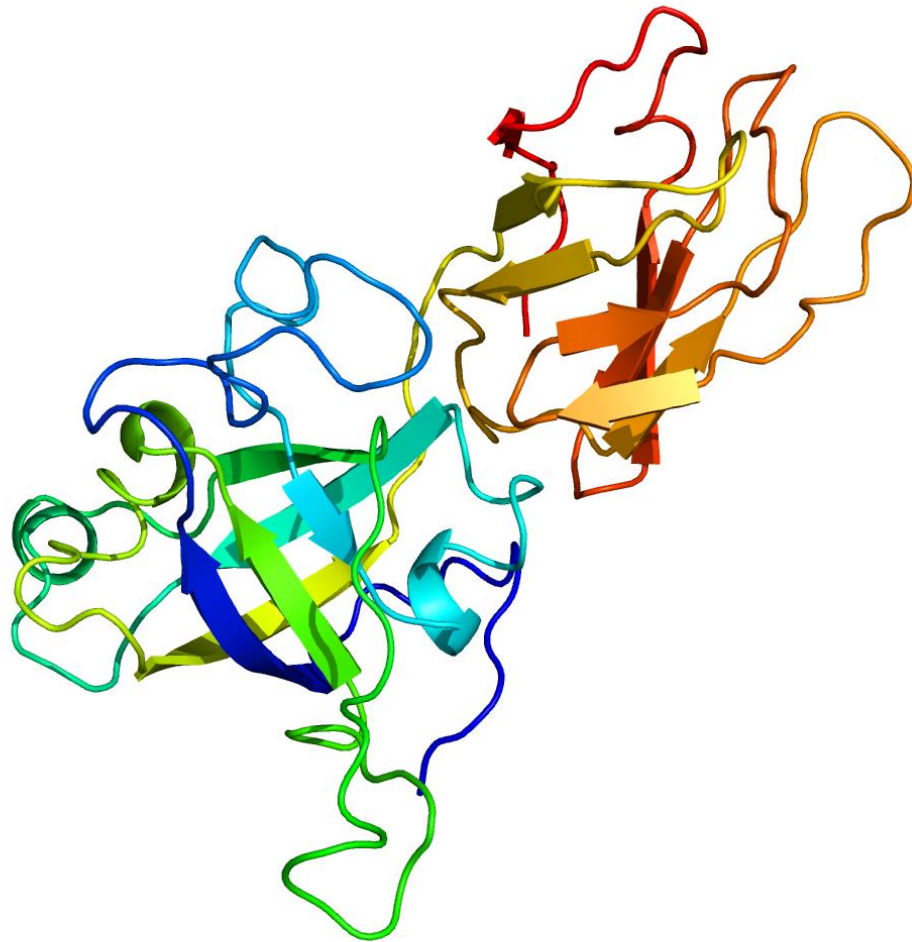
Locus: LOC_Os02g16809

Gene Model: LOC_Os02g16809.1

Description: OstEXPA-09

Family: Alpha Expansin

3D structure:



GENOME DATABASES

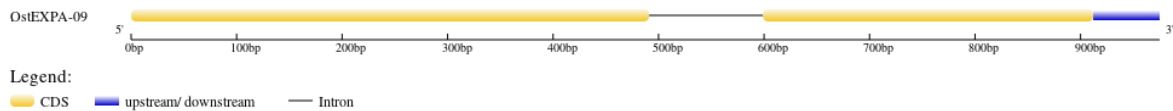
Phytozome: https://phytozome-next.jgi.doe.gov/info/Osativa_v7_0

KEGG: <https://www.genome.jp/entry/T01015>

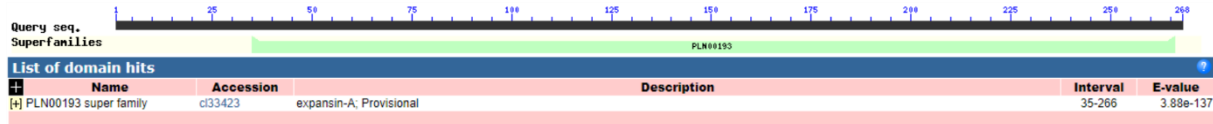
EXTERNAL RESOURCES

<http://rice.uga.edu/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>OstEXPA-09

MAPARAFVLVLLAVASASTAAANTATTTPTNPVAAPTQWQKAHATFYGGADASGT
MGGACGYGNLYSQGYGTRNAALSTALFNDGASCGQCYKIACDRKRAPQWCKPGVT
VTITATNFCPPNWNLPDNGGWCNPPRPHFDMAQPAWEKIGVYSAGIIPVIYQRPVCV
KKGGLRFTINGHDYFQLVLVTNVAAAGSIKSMEVMGSNTADWMPMARNWGAQWH
SLAYLTGQGLSFRVTNTDDQTLVFTNVVPPGWKFGQTFASKLQFK*

CDS (coding sequence)

>OstEXPA-09

ATGGCCCCAGCTCGAGCGTTCGTGTTGGTGCTGCTCGCAGTCGCCAGTGCATCGA
CGGCCGCGGCCAACACAGCGACGACGACGCCACAAACCCGGTGGCTGCGCCGA
CCCAGTGGCAGAAGGCGCACGCGACGTTCTACGGCGGCGCGGACGCGTTCGGGCA
CCATGGGCGGGGCGTGCGGATACGGCAACCTGTACTCGCAGGGGTACGGCACGC
GGAACGCGGCGCTGAGCACGGCGCTGTTCAACGACGGCGCGTCTGCGGGCAGT
GCTACAAGATCGCCTGCGACCGCAAGAGGGCGCCGCAAGTGGTGCAAGCCCGGCG
TCACCGTTACCATCACCGCCACCAATTTCTGCCCGCCAACTGGAACCTTCCCAGT
GATAATGGTGGCTGGTGAACCCACCACGGCCGCACTTTGACATGGCACAGCCGG
CCTGGGAGAAGATCGGCGTCTACAGCGCAGGCATCATAACGGTCATCTATCAAAG
GGTTCCTTGCGTGAAGAAGGGTGGCCTGCGGTTACCATTAAACGGTCACGACTAC
TTCCAGCTAGTACTGGTGACCAACGTCGCGGCGGCAGGGTCAATCAAGTCCATGG
AGGTTATGGGTTCCAACACAGCGGATTGGATGCCGATGGCACGTAACCTGGGGCG
CCCAATGGCACTCACTGGCCTACCTCACCGGTCAAGGTCTATCCTTTAGGGTCAC
CAACACAGATGACCAAACGCTCGTCTTACCAACGTCGTGCCACCAGGATGGAA
GTTTGGCCAGACATTTGCAAGCAAGCTGCAGTTCAAGTGA

Nucleotide

>OstEXPA-09

ATGGCCCCAGCTCGAGCGTTCGTGTTGGTGCTGCTCGCAGTCGCCAGTGCATCGA
CGGCCGCGGCCAACACAGCGACGACGACGCCACAAACCCGGTGGCTGCGCCGA
CCCAGTGGCAGAAGGCGCACGCGACGTTCTACGGCGGCGCGGACGCGTTCGGGCA
CCATGGGCGGGGCGTGCGGATACGGCAACCTGTACTCGCAGGGGTACGGCACGC

GGAACGCGGCGCTGAGCACGGCGCTGTTCAACGACGGCGCGTCGTGCGGGCAGT
GCTACAAGATCGCCTGCGACCGCAAGAGGGCGCCGCAAGTGGTGCAAGCCCGGCG
TCACCGTTACCATCACCGCCACCAATTTCTGCCCGCCAACTGGAACCTTCCCAGT
GATAATGGTGGCTGGTGCAACCCACCACGGCCGCACTTTGACATGGCACAGCCGG
CCTGGGAGAAGATCGGGCGTCTACAGCGCAGGCATCATAACGGTCATCTATCAAAG
GTACCAATACAAATACTCCAATTATTTTGGACATTATGGAGAGAACAGTGTCATAT
CCTGACCGCTGCTTCCATATGAAAATATCCTACTCTTGCGATGATTTCTACAGGGT
TCCTTGCGTGAAGAAGGGTGGCCTGCGGTTCCACCATTAACGGTCACGACTACTTC
CAGCTAGTACTGGTGACCAACGTCGCGGGCGGCAGGGTCAATCAAGTCCATGGAG
GTTATGGGTTCCAACACAGCGGATTGGATGCCGATGGCACGTAAGTGGGGCGCCC
AATGGCACTCACTGGCCTACCTCACCGGTCAAGGTCTATCCTTTAGGGTCACCAA
CACAGATGACCAAACGCTCGTCTTCACCAACGTCGTGCCACCAGGATGGAAGTTT
GGCCAGACATTTGCAAGCAAGCTGCAGTTCAAGTGAGAGGAGAAGCCTGAATTG
ATACCGGAGCGTTTCTTTGGGAGTAACATCTCTGGTTGCCTAGC