

IDENTIFICATION

Species: *Nicotiana sylvestris*

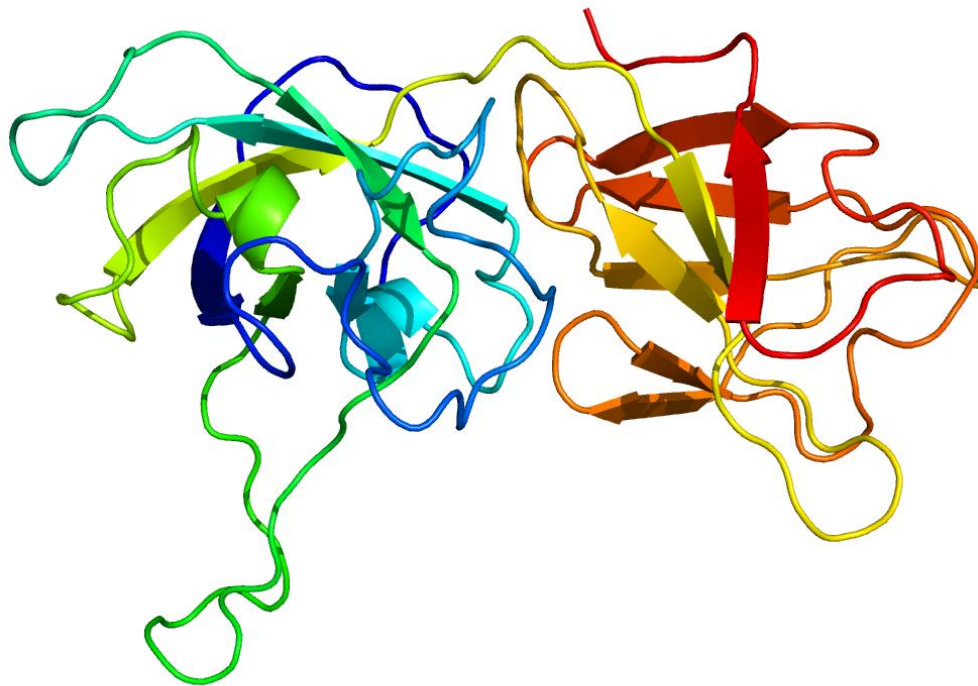
Locus: XP_009776167

Gene Model: XP_009776167.1

Description: NsEXPA-22

Family: Alpha Expansin

3D structure:



GENOME DATABASES

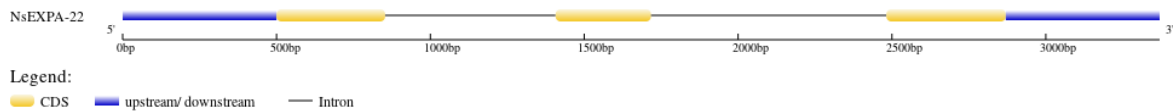
NCBI: <https://www.ncbi.nlm.nih.gov/genome/?term=Nicotiana%20sylvestris>

KEGG: <https://www.genome.jp/entry/gn:T05026>

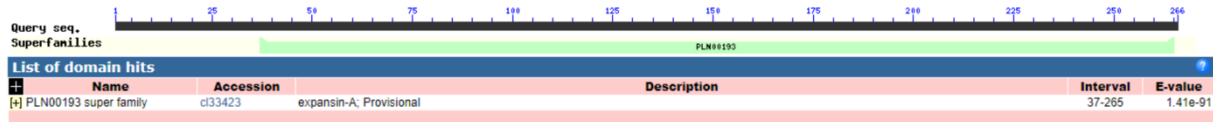
EXTERNAL RESOURCES

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GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>NsEXPA-22

MASFHHRWSLTFFFIVATLALIAQAHAAGYSTPSVTFKATPWQLAHATFYGDETA
SE TMGGACGYGNLFSNGYGTDTAALSSVLYSNGYSCGQCYQIKCTQSKDCYPTIVT
VT ATNLCPPNWSQDSDHGGWCNPPRTHFDMAKPAFMKIAQWKAGIVPVSYRRVPCV
R KGGIKFSFQNGYWLLVYVMNVGGGDVASMWVKGTKTNWLSMSHNWGASYQA
FATLSGQALSFKLTSYTSHETIIAINVAPSNWQVGMTYQANVNFH

CDS (coding sequence)

>NsEXPA-22

ATGCAAAAGTTGACTTGTAAGTTTTACATATGTTCTGTGATAGCACGAAGCCTATA
CATTGAAACATTATTTAGATACAAAACCTATATATTAAGACCTATATTTACAAA
ATCAAATAAGGCAATTGCAATTTTCTAAAGAACATCATTCCCTCCTCTCAAAGGA
GCTAAATTCCATGGCCTCTTTCCACCATAGATGGAGCTTGACATTCTTCTTCATTG
TTGCAACACTAGCACTCATCGCTCAAGCACACGCCGCGGGCTATTCCACCCCTAG
CGTCACCTTTAAAGCGACCCCTTGGCAACTCGCTCATGCCACGTTTTATGGCGATG
AGACTGCAAGTGAGACAATGGGTGGAGCTTGTGGATATGGAAATTTATTCAATTC
AGGTTATGGAACAGATACAGCAGCATTGAGTTCAGTGTTATATAGCAATGGATAT
TCATGTGGACAATGTTACCAAATAAAAATGTACACAATCAAAGATTGCTACCCAA
CCATTGTACAGTCACTGCAACCAATCTCTGCCACCAAATTGGTCACAAGACTC
AGATCATGGTGGTTGGTGCAACCCACCTCGTACACATTTTGACATGGCTAAACCT
GCTTTCATGAAAATTGCTCAATGGAAAGCTGGCATTGTTCCCTGTTTCGTATCGCAG
GGTACCTTGTGTTAGAAAAGGTGGAATCAAGTTTAGTTTCCAAGGAAATGGCTAT
TGGTTATTGGTATATGTGATGAATGTTGGTGGAGGTGGAGATGTGGCTAGTATGT
GGGTAAAAGGAACTAAAACAAATTGGTTAAGTATGAGCCATAATTGGGGAGCTT
CATATCAAGCATTTCGCAACTCTAAGTGGTCAAGCACTTTCATTTAAACTCACTTCC
TACACATCATATGAAACAATTATAGCTATTAATGTTGCACCTTCTAATTGGCAAG
TAGGAATGACTTATCAAGCCAATGTCAATTTTCATTGATTAAGTCATGCAACATTT
ATTCTTAACTTTTAAATCATTCTCGAGTTTTATTTGCGATTGTTCTTGTATGGAC

Nucleotide

>NsEXPA-22

ATGTGGCTAGTATGTGGGTAAAAGGAACTAAAACAAATTGGTTAAGTATGAGCC
ATAATTGGGGAGCTTCATATCAAGCATTCGCAACTCTAAGTGGTCAAGCACTTTC
ATTTAACTCACTTCCTACACATCACATGAAACAATTATAGCTATTAATGTTGCAC
CTTCTAATTGGCAAGTAGGAATGACTTATCAAGCCAATGTCAATTTTCATTGATTA
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ATCGCGTTAAA ACTGATATAACAATGTA ACTCTTGACACGCTCATAATTGGTAG
TGCTATACGTCTCTAGAGATGTGCTAGGTTAACGGTCATAGCTGTCCCGCTCTAG
ATAAAAGAGAGAAGTTGTGATAGGTTAACGGTCATAGTAAGAATAGTCTAACAT
CATGAAACCTTTAAATGATGAATTCATCGCAACATTCCTACCCTAGAGATGTGCT
ACTAAATCTTAATAGATAATAGGGCGAAATGGATATAATGAATTCATACAGTCGA
TCCCAAATTGTAGTTGATTGATATATTGTGACACACAGACTACTTTTAGCATTTT
AAGAGTTCCCAAAGGCGTAGCGTTTAAACAATTAAGGCACA ACTCAGATAATTTG
CTCAATGGATTCATTC