

IDENTIFICATION

Species: *Helianthus annuus*

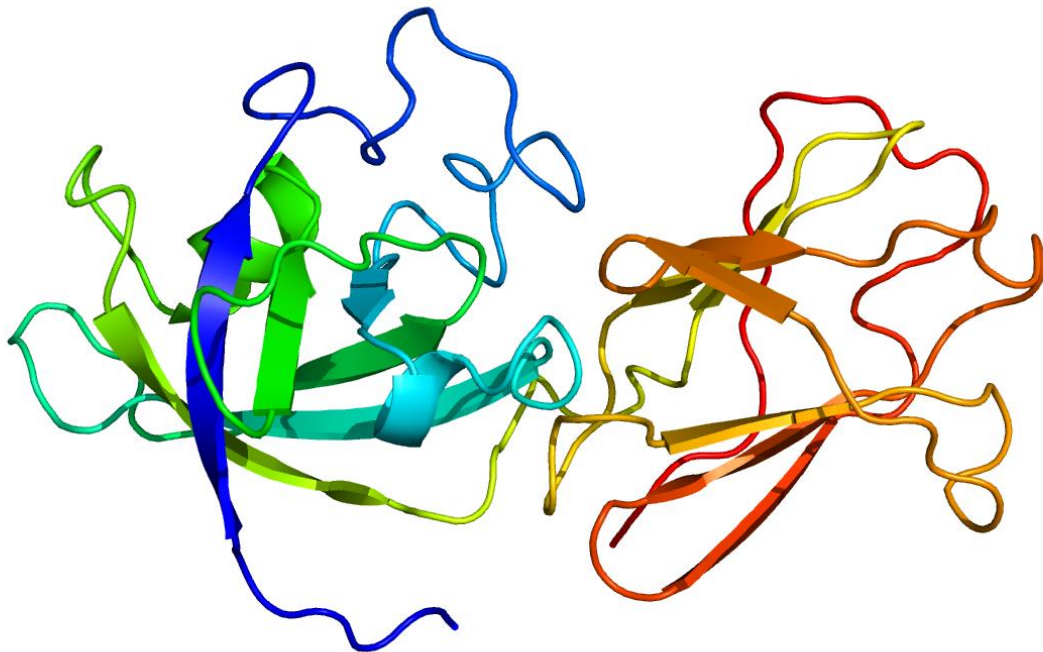
Locus: HanXRQChr14g0443481

Gene Model: HanXRQChr14g0443481

Description: HanEXPA-33

Family: Alpha Expansin

3D structure:



GENOME DATABASES

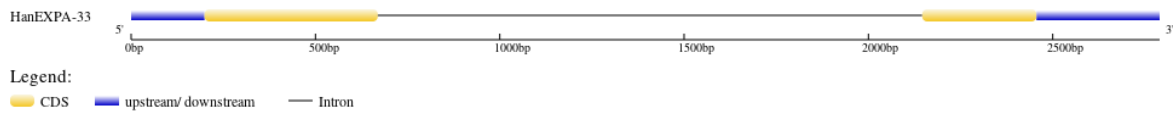
Phytozome: https://phytozome-next.jgi.doe.gov/info/Hannuus_r1_2

KEGG: <https://www.genome.jp/entry/T05101>

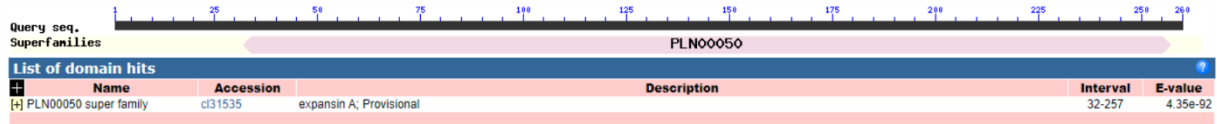
EXTERNAL RESOURCES

<https://www.heliagene.org/>

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>HanEXPA-33

MSSTLLLLVAFSNTILVALSHSPYSQSSTPSEWRSARATYYAAADPRDAVGGACGY
GDLEKAGYGKATAGMSTVLFEKGQICGACFEVKCVDLLRWCIPGTSIIVTATNFCAP
NYGFPADGGGKCNPPNAHFVLPPIEFEKIAIWKASNMPYRRINCRKEGGIRFSIDGA
GVFLSVLIHNVAGAGDISAVKIKGSRGTWLPNMRNWGQNWGINADLKNQPISFEVTS
SDGLTVTSYNVAPKDWNFGQTFEGKQFQS*

CDS (coding sequence)

>HanEXPA-33

ATGTCATCCACCACACTACTCCTACTAGTAGCATTCTCCAACACCATACTTGTAGC
ACTATCCCCTACTCCCCTACTCACAATCATCCACCCCATCAGAATGGAGATCTGCA
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CACGGTGTGTTTCGAGAAAGGACAGATCTGTGGCGCGTGTTCGAGGTGAAGTGT
GTGGATGATCTCCGGTGGTGTATTCCGGGGACATCGATTATTGTGACGGCGACGA
ATTTCTGTGCGCCGAATTATGGGTTTCCGGCGGACGGTGGCGGGAAGTGTAACCC
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Nucleotide

>HanEXPA-33

AAAAATAGAAAAAGACAATTTACATGTATGTGTAGTAACTTCTCATTTTGTCTTTA
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