

IDENTIFICATION

Species: *Helianthus annuus*

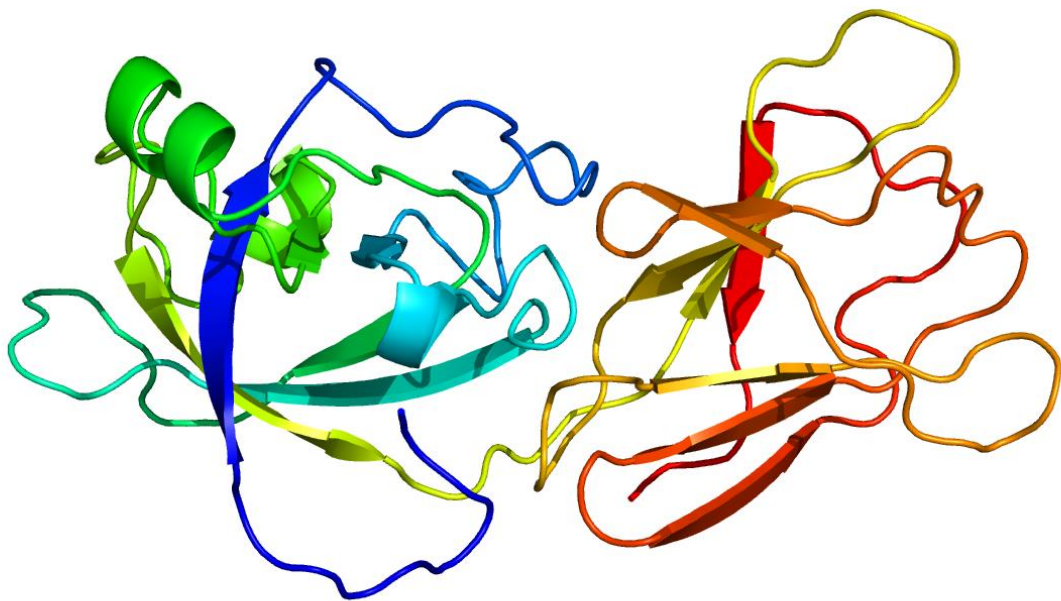
Locus: HanXRQChr12g0378661

Gene Model: HanXRQChr12g0378661

Description: HanEXPA-24

Family: Alpha Expansin

3D structure:



GENOME DATABASES

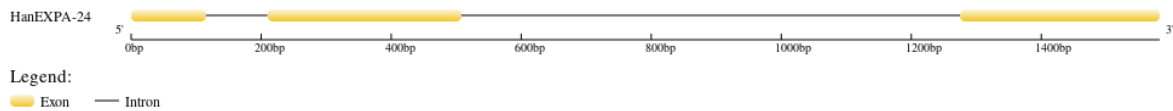
Phytozome: https://phytozome-next.jgi.doe.gov/info/Hannuus_r1_2

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

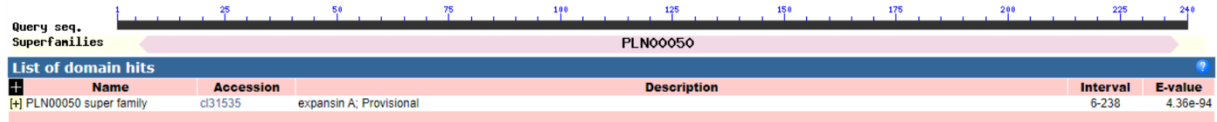
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>HanEXPA-24

MKSIVIFIFSSLLLVSFPLIVNGGWLNAHATFYDDGTMGGACGYGNVYRQGYGTNNV
ALSSALFNDGLSCGACFQIVCVNDRQWCLPGSIVVTATNFCPPNPAYLARKAAGATL
LYVILIYLNLPYALLSTKLELFLVPCVRRGGIRFQMNGHPYFNLVLITNVGGAGDVH
AVAIKGSRTGWQQMKQNWGQNWQSDTYFIGQSLSFKVTTSDGRTVVSNNVVPANW
SFGQTFSGSQFR*

CDS (coding sequence)

>HanEXPA-24

ATGAAATCCATTGTTATTTTCATTTTCTCTAGTTTATTGCTTGTTAGTTTTCCGTTA
ATCGTTAACGGCGGTTGGCTCAATGCACATGCCACCTTCTACGACGACGGCACAA
TGGGTGGTGCTTGTGGGTATGGGAATGTGTATCGTCAAGGGTATGGTACAAACAA
TGTAGCATTAAAGTAGTGCTTTGTTCAACGATGGTTTGAGTTGTGGGGCATGTTTTT
AAATCGTGTGTGTTAATGATCGTCAATGGTGTTTACCGGGTCCATTGTTGTCACC
GCCACCAACTTCTGCCCACCGAACCCCGCCTACCTAGCGAGAAAGGCGGCTGGTG
CAACCCTCCTCTACGTCATTTTGATCTATCTCAACCTGCCTTCCTACGCATTGCTC
AGTACAAAGCTGGAATTGTTCCCTGGTACCCTGCGTGAGAAGGGGTGGAATTAGGT
TCCAAATGAACGGACACCCTACTTCAATTTGGTGTTAATTACAAATGTGGGTGG
TGCTGGTGACGTGCACGCAGTGGCAATCAAAGGGTCAAGAACAGGATGGCAACA
AATGAAACAAAACACTGGGGGCAAAACTGGCAATCCGACACTTATTTTATTGGGCA
GTCTCTATCTTTAAGGTCACCACAAGTGATGGTCGGACTGTGGTTTCCAACAATG
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Nucleotide

>HanEXPA-24

ATGAAATCCATTGTTATTTTCATTTTCTCTAGTTTATTGCTTGTTAGTTTTCCGTTA
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