

IDENTIFICATION

Species: *Helianthus annuus*

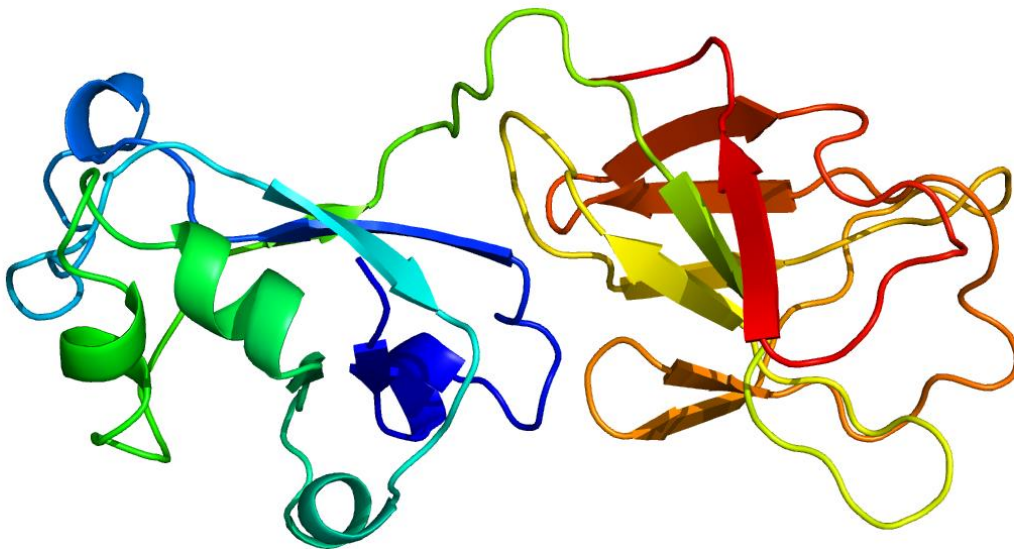
Locus: HanXRQChr16g0507341

Gene Model: HanXRQChr16g0507341

Description: HanEXPB-06

Family: Beta Expansin

3D structure:



GENOME DATABASES

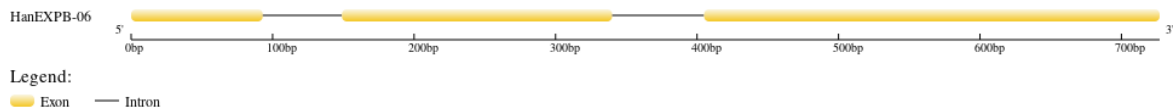
Phytozome: https://phytozome-next.jgi.doe.gov/info/Hannuus_r1_2

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

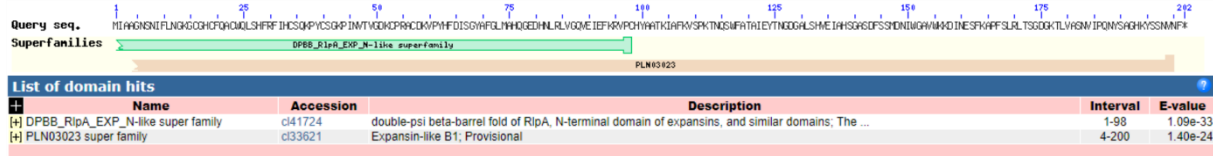
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>HanEXPB-06

MIAAGNSNIFLNGKGC~~G~~HCFQACWQLSHFRFIHCSQKPYCSGKPINVTVDKCPAC
 DKVPYHFDISGYAFGLMAHQGEDHNLRLVGQVEIEFKRVPCHYAATKIAFKVSPKTN
 QSWFATAIEYTNGDGALSHVEIAHSGASDFSSMDNIWGAVWKKDINESFKAPFSLRL
 TSGDGKTLVASNVIPQNY~~S~~AGHKYSSNVNF*

CDS (coding sequence)

>HanEXPB-06

ATGATAGCAGCAGGAAATTCAAATATCTTTTTGAATGGGAAGGGATGCGGACATT
 GTTTTCAGGCATGTTGGCAGCTATCTCATTTTCGTTTTATAACATTGTTCAAAAAG
 CCATATTGCTCAGGGAACCAATTAATGTTACGGTCGGTGATAAGTGTCCAAGGG
 CGTGTGATAAAGTACCTTATCATTTTGATATAAGTGGGTATGCTTTTGGTTTGATG
 GCACATCAGGGAGAAGATCACAATTTAAGACTAGTTGGCCAAGTTGAAATTGAG
 TTCAAAGGGTGCCATGCCACTATGCTGCCACGAAGATAGCATTCAAAGTTAGCC
 CGAAAACCAACCAATCCTGGTTCGCGACAGCAATAGAATATACGAATGGAGATG
 GTGCCTTGAGTCATGTGGAGATAGCACACAGTGGTGCAAGTGATTTTTCGTCCAT
 GGATAACATATGGGGTGCAGTTTGGAAAAAAGACATCAACGAATCATTTAAAGC
 TCCATTTTCTTTAAGGCTGACTTCTGGTGATGGGAAAACTTTGGTAGCGAGTAATG
 TGATTCCTCAAACACTATTCAGCGGGTCATAAATACTCATCAAATGTAAATTTTGA

Nucleotide

>HanEXPB-06

ATGATAGCAGCAGGAAATTCAAATATCTTTTTGAATGGGAAGGGATGCGGACATT
 GTTTTCAGGCATGTTGGCAGCTATCTCATTTTCGTTTTGTAAATCGAAAATATTAA
 AACGATGATTATGAGTTTCAAATAAATAAACATGTAGATACATTGTTCAAAAA
 GCCATATTGCTCAGGGAACCAATTAATGTTACGGTCGGTGATAAGTGTCCAAGG
 GCGTGTGATAAAGTACCTTATCATTTTGATATAAGTGGGTATGCTTTTGGTTTGAT
 GGCACATCAGGGAGAAGATCACAATTTAAGACTAGTTGGCCAAGTTGAAATTGA
 GTTCAAAGGTACATCACAAAACCTGTAACACTCTTAGTTGCTACTTTTATGGTCTA
 GATAACCACTTGTTGTAGGGTGCCATGCCACTATGCTGCCACGAAGATAGCATT
 AAAGTTAGCCCGAAAACCAACCAATCCTGGTTCGCGACAGCAATAGAATATACG

AATGGAGATGGTGCCTTGAGTCATGTGGAGATAGCACACAGTGGTGCAAGTGATT
TTTCGTCCATGGATAACATATGGGGTGCAGTTTGGAAAAAAGACATCAACGAATC
ATTTAAAGCTCCATTTTCTTTAAGGCTGACTTCTGGTGATGGGAAAACTTTGGTAG
CGAGTAATGTGATTCCTCAAACTATTCAGCGGGTCATAAATACTCATCAAATGT
AAATTTTGA