

## IDENTIFICATION

**Species:** *Helianthus annuus*

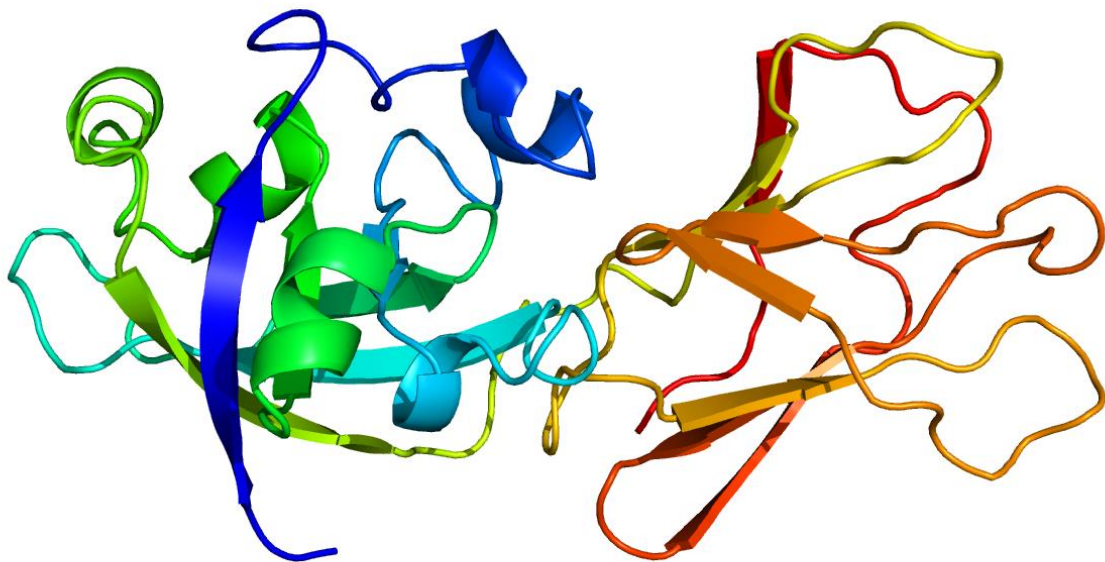
**Locus:** HanXRQChr16g0507331

**Gene Model:** HanXRQChr16g0507331

**Description:** HanEXPB-05

**Family:** Beta Expansin

**3D structure:**



## GENOME DATABASES

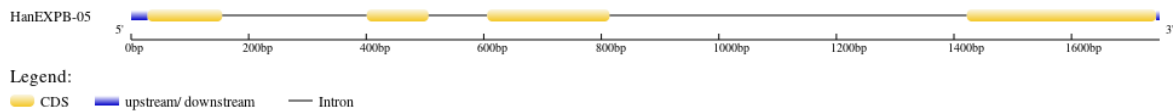
Phytozome: [https://phytozome-next.jgi.doe.gov/info/Hannuus\\_r1\\_2](https://phytozome-next.jgi.doe.gov/info/Hannuus_r1_2)

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

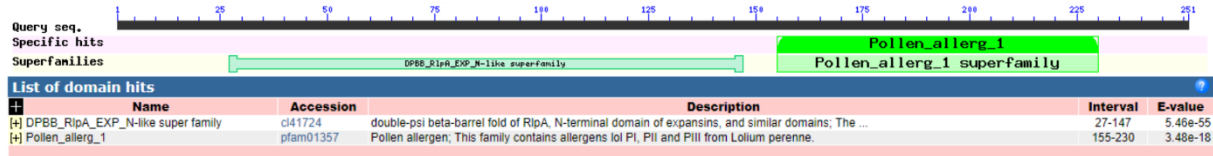
## EXTERNAL RESOURCES

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

## GENE STRUCTURE



## DOMAIN ARCHITECTURE



## SEQUENCES

### Peptide

>HanEXPB-05

MASISLIVFTILVVNISCSCMCFLRMASTGLATWYGPEDGAGKGAACGWEDDVHDPFF  
SAMIAAGNSNIFLNGKGCCHCFQIQCSRKPYCSGKPISTISDQCPGACNNIAYHFDLS  
GHAFGMMANRGQEHSRLRQLGQVDIEFKRVPCNYGATKIAFKVSQKTNRWYWFATAIE  
YTNGDGVLSRVEVAPGGTQTFSSMDNIWGA VWKKDINDSFKGPLSFKLTSADGKTL  
VASNAIPANYSPGRKYSSNVNF\*

### CDS (coding sequence)

>HanEXPB-05

ATGGCTTCCATTTCTTTAATTGTATTTACCATCCTTGTAGTAAACATCTCTTGTAGT  
ATGTGTTTTCTACGCATGGCCAGTACCGGTTTAGCCACTTGGTATGGTCCTGAAGA  
TGGTGCTGGTAAAGGAGCAGCTTGTGGATGGGAGGATGATGTGCATGATCCTCCC  
TTAGCGCGATGATTGCGGCAGGAAATTC AAATATCTTTTTGAATGGGAAAGGAT  
GCGGACATTGTTTT CAGATACAATGTT CACGAAAACCATACTGCTCAGGGAAACC  
AATTAGTGTGACGATCAGTGATCAGTGTCCAGGGGCATGTAACAATATAGCCTAT  
CATTTTGATTTAAGTGGGCATGCGTTTGGTATGATGGCCAATCGTGGACAAGAAC  
ACAGTCTAAGACA ACTTGGCCAAGTTGACATTGAGTTCAA AAGAGTACCATGCAA  
CTATGGTGCCACGAAGATAGCATTCAAAGTTAGCCAGAAAACCAACCGCTACTG  
GTTTCGCAACAGCCATAGAATATACAAATGGGGATGGTGT TTTGAGTCGTGTGGAG  
GTAGCACCCGGTGGCACCCAAACTTTTCGTCCATGGATAACATATGGGGTGCAG  
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CTCTGCTGATGGGAAAACCCTTGTAGCAAGTAATGCCATTCCAGCAA ACTATTCG  
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### Nucleotide

>HanEXPB-05

TTAGCAATAAAGAAAGCATTATATATAATGGCTTCCATTTCTTTAATTGTATTTA  
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TATACTCGTACCAAAAACAAAGGAGTATCACCGACGGACATCTGCGGACCA AAC  
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