

IDENTIFICATION

Species: *Helianthus annuus*

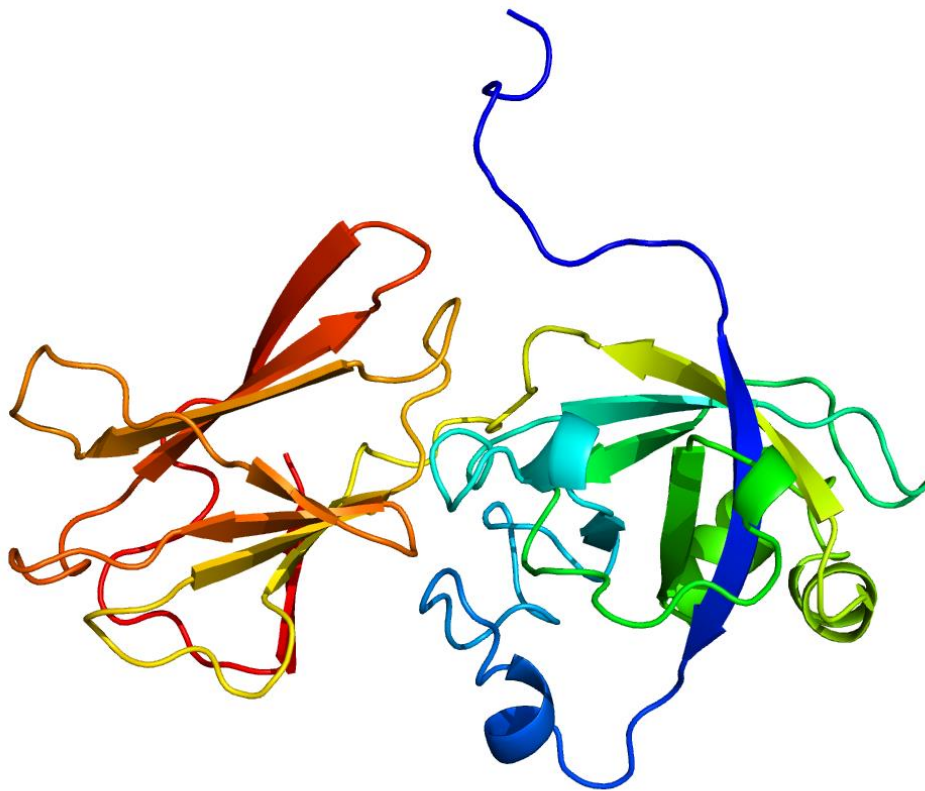
Locus: HanXRQChr08g0222741

Gene Model: HanXRQChr08g0222741

Description: HanEXPB-01

Family: Beta Expansin

3D structure:



GENOME DATABASES

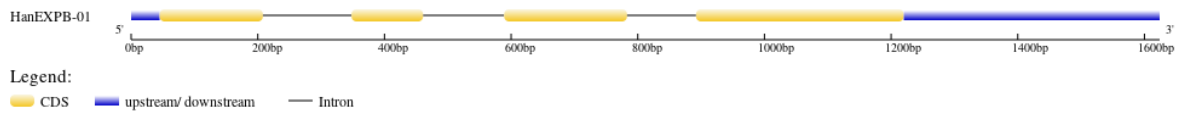
Phytozome: https://phytozome-next.jgi.doe.gov/info/Hannuus_r1_2

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

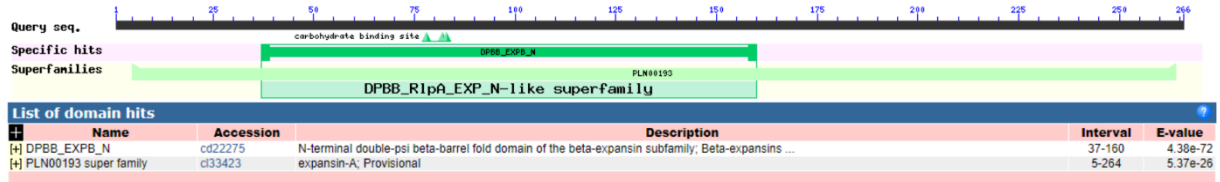
EXTERNAL RESOURCES

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

GENE STRUCTURE



DOMAIN ARCHITECTURE



SEQUENCES

Peptide

>HanEXPB-01

MATNSSLLLYFCLLTFFTLFAIRPTHFNLSTVATHWSSAIATWYGSPDGFSGDGGSC
GYGNAVSQPPFSSMVTGIGPSLYKSGKECGACYEIKCTKHPSCSRKPARVVITDFCPG
GPCASDRAHFDLSGTAFGAMAKPGQEKHLRDAGVLKIRFARVKCDYSRTNLVFHVD
QGSNPNYFAFVVEFEEGDGDLAGVSLKEESSDEWLKMQSWGAVWKVDPGRELHP
PFSIRLISQYSQQVLVAKNVIPTGWTGATYRSLVNYL*

CDS (coding sequence)

>HanEXPB-01

ATGGCCACCAATTCTTCACTTCTTCTCTACTTTTGCCTTCTAACCTTCTTCACATTG
TCATTTGCAATAAGACCAACACACTTCAACTTATCCACCGTAGCCACCCATTGGT
CCTCCGCAATCGCTACTTGGTATGGCAGTCCCGATGGTTTTGGAAGTGACGGAGG
TTCTTGTGGGTATGGAAATGCAGTGTCAACAACCACCATTTTCTTCCATGGTGACCG
GAATAGGCCCATCCCTTTACAAGTCAGGGAAAGAATGTGGGGGCTTGTTATGAGAT
AAAATGTACAAAACACCCATCATGTCTACGCAAGCCGGCTCGGGTTGTCATTACC
GATTTCTGCCCGGGAGGTCCATGTGCCTCGGACCGTGACATTTTGATCTTAGTGG
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GGGAGTTTTGAAAATTCGATTCGCGCGGGTCAAATGTGATTATTCGCGAACAAAC
TTAGTGTTCATGTAGACCAGGGATCGAACCCTAACTACTTTGCGTTTGTGTTGA
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GGGAGGGAGCTACACCCTCCATTTTCTATACGATTGATATCACAATACTCGCAAC
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Nucleotide

>HanEXPB-01

AGCAAGAAGAATCAAGTACACTTAGTGGCATAGCACAACTAGCAATGGCCACC
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