

Resource Summary Report

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Honey Bee Brain EST Project

RRID:SCR_002389

Type: Tool

Proper Citation

Honey Bee Brain EST Project (RRID:SCR_002389)

Resource Information

URL: http://titan.biotec.uiuc.edu/bee/honeybee_project.htm

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Description: A database integrating data from the bee brain EST sequencing project with data from sequencing and gene research projects from other organisms, primarily the fruit fly *Drosophila melanogaster*. The goal of Bee-ESTdb is to provide updated information on the genes of the honey bee, currently using annotation primarily from flies to suggest cellular roles, biological functions, and evolutionary relationships. The site allows searches by sequence ID, EST annotations, Gene Ontology terms, Contig ID and using BLAST. Very nice resource for those interested in comparative genomics of brain. A normalized unidirectional cDNA library was made in the laboratory of Prof. Bento Soares, University of Iowa. The library was subsequently subtracted. Over 20,000 cDNA clones were partially sequenced from the normalized and subtracted libraries at the Keck Center, resulting in 15,311 vector-trimmed, high-quality, sequences with an average read length of 494 bp. and average base-quality of 41. These sequences were assembled into 8966 putatively unique sequences, which were tested for similarity to sequences in the public databases with a variety of BLAST searches. The Clemson University Genomics Institute is the distributor of these public domain cDNA clones. For information on how to purchase an individual clone or the entire collection, please contact www.genome.clemson.edu/orders/ or generobi (at) life.uiuc.edu.

Abbreviations: Bee-ESTdb

Synonyms: Honeybee EST Project

Resource Type: biomaterial supply resource, material resource

Defining Citation: [PMID:11932240](#)

Keywords: expressed sequence tag, brain, behavior, cdna, blast, gene, annotation, microarray, gene expression, comparative genomics, cdna clone, resource:genbank

Funding: NSF ;
University of Illinois Critical Research Initiatives Program ;
Burroughs Wellcome Fund

Availability: Free

Resource Name: Honey Bee Brain EST Project

Resource ID: SCR_002389

Alternate IDs: nif-0000-00118

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260821T042543+0000

Ratings and Alerts

No rating or validation information has been found for Honey Bee Brain EST Project.

No alerts have been found for Honey Bee Brain EST Project.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Iida K, et al. (2007) Expansion and evolution of insect GMC oxidoreductases. BMC evolutionary biology, 7, 75.

Albert S, et al. (2004) The MRJP/YELLOW protein family of Apis mellifera: identification of new members in the EST library. Journal of insect physiology, 50(1), 51.

Dor?? AS, et al. (2004) Identification of DNA-PK in the arthropods. Evidence for the ancient ancestry of vertebrate non-homologous end-joining. DNA repair, 3(1), 33.

Kucharski R, et al. (2003) Transcriptional profiling reveals multifunctional roles for transferrin in the honeybee, Apis mellifera. Journal of insect science (Online), 3, 27.

Kucharski R, et al. (2002) Evaluation of differential gene expression during behavioral development in the honeybee using microarrays and northern blots. Genome biology, 3(2), RESEARCH0007.