

Resource Summary Report

Generated by NIF on Sep 18, 2026

ESTIMA - Expressed Sequence Tag Information Management and Annotation

RRID:SCR_007216

Type: Tool

Proper Citation

ESTIMA - Expressed Sequence Tag Information Management and Annotation
(RRID:SCR_007216)

Resource Information

URL: <http://titan.biotec.uiuc.edu/ESTIMA/>

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Description: A web application called Expressed Sequence Tag Information Management and Annotation (ESTIMA) has been created to meet the EST annotation and data management requirements of multiple high-throughput EST sequencing projects. It is anchored on individual ESTs and organized around different properties of ESTs including chromatograms, base-calling quality scores, structure of assembled transcripts, and multiple sources of comparison to infer functional annotation, Gene Ontology associations, and cDNA library information. ESTIMA consists of a relational database schema and a set of interactive query interfaces. These are integrated with a suite of web-based tools that allow a user to query and retrieve information. Further, query results are interconnected among the various EST properties. ESTIMA has several unique features. Users may run their own EST processing pipeline, search against arbitrary reference genomes, and use any clustering and assembly algorithm. The ESTIMA database schema is very flexible and accepts output from any EST processing and assembly pipeline. ESTIMA has been used for management of EST projects of many species, including honeybee (*Apis mellifera*), cattle (*Bos taurus*), songbird (*Taeniopygia guttata*), corn rootworm (*Diabrotica vergifera*), catfish (*Ictalurus punctatus*, *Ictalurus furcatus*), and apple (*Malus x domestica*). The entire resource may be downloaded and used as is, or readily adapted to fit the unique needs of other cDNA sequencing projects. The scripts used to create the ESTIMA interface are freely available to academic users in an archived format from <http://titan.biotec.uiuc.edu/ESTIMA/download/>. The entity-relationship (E-R) diagrams and the programs used to generate the Oracle database tables are also available. Presently the chromatograms, EST databases and their annotations have been made available for cattle and honeybee.

Abbreviations: ESTIMA

Synonyms: ESTIMA: a Tool for EST Management in a Multi-Project Environment

Resource Type: data or information resource, database, service resource, software resource

Resource Name: ESTIMA - Expressed Sequence Tag Information Management and Annotation

Resource ID: SCR_007216

Alternate IDs: nlx_22117

Record Creation Time: 20220129T080240+0000

Record Last Update: 20260912T195651+0000

Ratings and Alerts

No rating or validation information has been found for ESTIMA - Expressed Sequence Tag Information Management and Annotation.

No alerts have been found for ESTIMA - Expressed Sequence Tag Information Management and Annotation.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Kumar CG, et al. (2004) ESTIMA, a tool for EST management in a multi-project environment. BMC bioinformatics, 5, 176.