

Resource Summary Report

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CharProtDB: Characterized Protein Database

RRID:SCR_005872

Type: Tool

Proper Citation

CharProtDB: Characterized Protein Database (RRID:SCR_005872)

Resource Information

URL: <http://www.jcvi.org/charprotodb/index.cgi/home>

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Description: The Characterized Protein Database, CharProtDB, is designed and being developed as a resource of expertly curated, experimentally characterized proteins described in published literature. For each protein record in CharProtDB, storage of several data types is supported. It includes functional annotation (several instances of protein names and gene symbols) taxonomic classification, literature links, specific Gene Ontology (GO) terms and GO evidence codes, EC (Enzyme Commission) and TC (Transport Classification) numbers and protein sequence. Additionally, each protein record is associated with cross links to all public accessions in major protein databases as ?? synonymous accessions??. Each of the above data types can be linked to as many literature references as possible. Every CharProtDB entry requires minimum data types to be furnished. They are protein name, GO terms and supporting reference(s) associated to GO evidence codes. Annotating using the GO system is of importance for several reasons; the GO system captures defined concepts (the GO terms) with unique ids, which can be attached to specific genes and the three controlled vocabularies of the GO allow for the capture of much more annotation information than is traditionally captured in protein common names, including, for example, not just the function of the protein, but its location as well. GO evidence codes implemented in CharProtDB directly correlate with the GO consortium definitions of experimental codes. CharProtDB tools link characterization data from multiple input streams through synonymous accessions or direct sequence identity. CharProtDB can represent multiple characterizations of the same protein, with proper attribution and links to database sources. Users can use a variety of search terms including protein name, gene symbol, EC number, organism name, accessions or any text to search the database. Following the search, a display page lists all the proteins that match the search term. Click on the protein name to view more detailed annotated information for each protein. Additionally, each protein record can be annotated.

Abbreviations: CharProtDB

Synonyms: Characterized Protein Database

Resource Type: data or information resource, database

Defining Citation: [PMID:22140108](#)

Keywords: protein, annotation, functional annotation, taxonomic classification, literature, gene ontology, evidence code, enzyme commission, transport classification, protein sequence, bio.tools

Funding: NHGRI R01 HG004881;
NIAID contract HHSN266200100038C

Resource Name: CharProtDB: Characterized Protein Database

Resource ID: SCR_005872

Alternate IDs: biotools:charprotodb, nlx_149421

Alternate URLs: <https://bio.tools/charprotodb>

Record Creation Time: 20220129T080233+0000

Record Last Update: 20260801T190929+0000

Ratings and Alerts

No rating or validation information has been found for CharProtDB: Characterized Protein Database.

No alerts have been found for CharProtDB: Characterized Protein Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.