

Resource Summary Report

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Tractor db

RRID:SCR_005610

Type: Tool

Proper Citation

Tractor db (RRID:SCR_005610)

Resource Information

URL: <http://www.tractor.lncc.br>

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Description: Database of computationally predicted Transcription Factors and binding sites in gamma-proteobacterial genomes. The user may browse a map containing all known E. coli transcription factors and regulatory interactions that connect them, and retrieve information on the conservation of each regulatory interaction across the 30 organisms included in the database. Downloading the information is straightforward, and navigation tabs added to dynamic pages ease navigation between the five interfaces of the database. The original prediction approach, based on the representation of binding sites through statistical models was complemented by a new approach that uses known E. coli regulatory sites as the basis for a pattern matching search of regulatory sites. The use of both approaches together resulted in a more intensive exploration of the sequence space of each regulator's binding site. These data should aid researchers in the design of microarray experiments and the interpretation of their results. They should also facilitate studies of Comparative Genomics of the regulatory networks of this group of organisms.

Abbreviations: Tractor db

Synonyms: Tractor_DB

Resource Type: data or information resource, database

Defining Citation: [PMID:17088283](#)

Keywords: gamma-proteobacterial genome, transcription factor binding site, transcription factor, regulatory network, microarray, comparative genomics, genome

Resource Name: Tractor db

Resource ID: SCR_005610

Alternate IDs: OMICS_01863, nif-0000-03574

Alternate URLs: http://www.bioinfo.cu/Tractor_DB, <http://www.tractor.lncc.br>,
<http://www.ccg.unam.mx/tractorDB>

Record Creation Time: 20220129T080231+0000

Record Last Update: 20260919T195652+0000

Ratings and Alerts

No rating or validation information has been found for Tractor db.

No alerts have been found for Tractor db.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Kinnersley MA, et al. (2009) E Unibus Plurum: genomic analysis of an experimentally evolved polymorphism in Escherichia coli. PLoS genetics, 5(11), e1000713.

Cameron AD, et al. (2006) Non-canonical CRP sites control competence regulons in Escherichia coli and many other gamma-proteobacteria. Nucleic acids research, 34(20), 6001.

Galperin MY, et al. (2005) The Molecular Biology Database Collection: 2005 update. Nucleic acids research, 33(Database issue), D5.