

Resource Summary Report

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Alignable Tight Genomic Cluster

RRID:SCR_001894

Type: Tool

Proper Citation

Alignable Tight Genomic Cluster (RRID:SCR_001894)

Resource Information

URL: <http://atgc.lbl.gov/atgc/>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 23, 2022. ATGC stands for Alignable Tight Genomic Cluster, which is cluster of closely related prokaryotic genomes. ATGC is the principal notion of this web resource. The purpose of this web resource is to prepare ATGC-derived data sets for a variety of research projects in functional and evolutionary genomics. Unique features of ATGC include: * Reliable identification of orthologs (high degree of similarity between the genomes in the set allow an extensive use of synteny in ortholog identification); * Fine granularity of protein classification (in comparisons of more distant genomes, proteins belonging to families of paralogs are often lumped into a single group; under the ATGC approach, comparison of genomic sequences from highly similar genomes allows one to track each set of orthologs separately); * Relative rarity of changes of any kind (in sequence, genome organization and gene content) allows the use of parsimony-related methods of analysis.

Abbreviations: ATGC

Resource Type: data or information resource, database

Defining Citation: [PMID:28053163](#), [PMID:18845571](#)

Keywords: gene, genomic cluster, genomic sequence, ortholog, paralog, prokaryotic genomic, protein, protein classification

Funding: Department of Energy Joint Genome Institute ;
NLM ;
DOE DE-AC02-05CH11231

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Alignable Tight Genomic Cluster

Resource ID: SCR_001894

Alternate IDs: nif-0000-02581

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260829T182914+0000

Ratings and Alerts

No rating or validation information has been found for Alignable Tight Genomic Cluster.

No alerts have been found for Alignable Tight Genomic Cluster.

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](#) .

Ogata S, et al. (2023) Investigation of vertical and horizontal transmission of Spiroplasma in ticks under laboratory conditions. Scientific reports, 13(1), 13265.