

Package: GA4GHshiny (via r-universe)

September 17, 2026

Type Package

Title Shiny application for interacting with GA4GH-based data servers

Version 1.35.0

Description GA4GHshiny package provides an easy way to interact with data servers based on Global Alliance for Genomics and Health (GA4GH) genomics API through a Shiny application. It also integrates with Beacon Network.

License GPL-3

Depends GA4GHclient

Imports AnnotationDbi, BiocGenerics, dplyr, DT, Seqinfo, GenomeInfoDb, openxlsx, GenomicFeatures, methods, purrr, S4Vectors, shiny, shinyjs, tidy, shinythemes

Suggests BiocStyle, org.Hs.eg.db, knitr, rmarkdown, testthat, TxDb.Hsapiens.UCSC.hg19.knownGene

LazyData TRUE

RoxygenNote 7.3.2

VignetteBuilder knitr

URL <https://github.com/labbc/GA4GHshiny>

BugReports <https://github.com/labbc/GA4GHshiny/issues>

biocViews GUI

Config/pak/sysreqs cmake make libbz2-dev libicu-dev liblzma-dev libpng-dev libuv1-dev libxml2-dev libssl-dev xz-utils zlib1g-dev

Repository <https://bioc.r-universe.dev>

Date/Publication 2026-04-28 12:45:43 UTC

RemoteUrl <https://github.com/bioc/GA4GHshiny>

RemoteRef HEAD

RemoteSha 31c4828997bac0b8ace050a2cd3d2ab0408aba1d

Contents

GA4GHshiny-package	2
app	2
countGenotype	3
Index	4

GA4GHshiny-package	<i>Shiny application for interacting with GA4GH-based data servers</i>
--------------------	--

Description

GA4GHshiny package provides an easy way to interact with data servers based on Global Alliance for Genomics and Health (GA4GH) Genomics API through a Shiny application. It also integrates with Beacon Network.

Author(s)

Welliton Souza, Benilton Carvalho, Cristiane Rocha, Elizabeth Borgognoni
Maintainer: Welliton Souza <well309@gmail.com>

app	<i>Open web application</i>
-----	-----------------------------

Description

Web application for interacting with GA4GH API data servers.

Usage

```
app(host, orgDb = NA_character_, txDb = NA_character_,  
    serverName = "GA4GHshiny")
```

Arguments

- | | |
|------------|---|
| host | Character vector of an URL of GA4GH API data server endpoint. |
| orgDb | character vector of an org.Db package. |
| txDb | character vector of a TxDb package. |
| serverName | character vector of the server name. Default: GA4GHshiny. |

Details

This application is dependent of which data the server provides trough GA4GH API. If some of tables or graphic charts not appear, the server connected may not provide the necessary data. For example, INFO data.

Value

Shiny application object.

Examples

```
if (interactive()) {  
  library(org.Hs.eg.db)  
  library(TxDb.Hsapiens.UCSC.hg19.knownGene)  
  app("http://1kgenomes.ga4gh.org/", orgDb = "org.Hs.eg.db",  
      txDb = "TxDb.Hsapiens.UCSC.hg19.knownGene")  
}
```

countGenotype

Count genotype

Description

Summarize a list of genotype data. Variant calls with no coverage (./.) do not enter in this count.

Usage

```
countGenotype(genotype)
```

Arguments

genotype list of integer vectors of length 2.

Value

[data.frame](#) of 1 row containing the columns below.

- ref.homozygous reference homosygous (e.g. 0/0);
- alt.heterozygous alternate heterozygous (e.g. 0/1, 1/2);
- ref.homozygous reference homozygous (e.g. 1/1, 2/2);
- total the sum of the three previous columns.

Examples

```
countGenotype(genotype = list(c(0,0), c(0,1), c(1,2), c(1,1), c(2,2)))
```

Index

* **package**

GA4GHshiny-package, [2](#)

app, [2](#)

countGenotype, [3](#)

data.frame, [3](#)

GA4GHshiny (GA4GHshiny-package), [2](#)

GA4GHshiny-package, [2](#)