MafDb.ALL.wgs.phase1.release.v3.20101123

April 10, 2016

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Annotation package for minor allele frequency data from the 1000 Genomes project

Description

This annotation package stores minor allele frequency (MAF) data derived from the Phase 1 variant set of the 1000 Genomes project. The data is stored in the form of a SQLite database and is loaded automatically in the form of a MafDb object. The name of the exposed object matches the name of the package and part of the filename that contained the data imported into the package. The class definition and methods to access MafDb objects are found in the VariantFiltering software package.

Format

MafDb. ALL.wgs.phase1.release.v3.20101123 MafDb object containing MAF values from the 1000 Genomes project do

Author(s)

R. Castelo

Source

The 1000 Genomes Project Consortium. An integrated map of genetic variation from 1,092 human genomes. Nature, 491:56-65, 2012. (URL: ftp://ftp.1000genomes.ebi.ac.uk) [October, 2015, accessed]

See Also

makeMafDbPackageKG MafDb.ALL.wgs.phase3.release.v5b.20130502 MafDb.ESP6500SI.V2.SSA137 MafDb.ExAC.r0.3.sites MafDb-class snpid2maf VariantFiltering

Examples

Description

This function creates an annotation data package for a MafDb object. Its primary purpose is to ease the task of fetching and packaging newer minor allele frequency (MAF) data. Note that MAF values are processed and stored in a way to reduce their space in disk. Please consult the manual page for the MafDb-class to know the details of these processing steps.

Usage

makeMafDbPackageKG(destDir=path.expand("~"), MafDbURL=MafDbKGdefaultURL, MafDbPkgName=MafDbKGdefaultgenome="hg19", version=NULL, author=NULL, maintainer=NULL, license=NULL, yieldSize=10

Arguments

destDir Destination directory for the newly created package.

MafDbURL URL to the source VCF file(s). By default, it points to the URL holding the data

currently stored in the package that defines this function.

MafDbPkgName Name of the newly created package. This will define as well the name of the

exported MafDb object.

Project

genome Version of the human genome, following UCSC nomenclature. Necessary for

the internal call to the readVcf() function from the VariantAnnotation pack-

age.

version	Version to put on the new package. By default, the version corresponds to the version of the package that defines this function, bumping the second version number.
author	Author to put on the new package. By default, the author corresponds to the author of the package that defines this function.
maintainer	Maintainer to put on the new package. By default, the maintainer corresponds to the maintainer of the package that defines this function.
license	License to put on the new package. By default, the license corresponds to the license of the package that defines this function.
yieldSize	In the case source tabix VCF files, they are not read at once, but scanned in batches whose size is determined by this argument. By default is set to one

million variants but it may be reduced to lower main memory requirements.

Value

Path to the folder containing the created data package.

Author(s)

R. Castelo

See Also

```
MafDb-class snpid2maf MafDb.ALL.wgs.phase1.release.v3.20101123
```

Examples

```
MafDbKGdefaultURL ## default URL from where makeMafDbPackageKG() fetches the MAF data

MafDbKGdefaultPkgName ## default name for the package that makeMafDbPackageKG() creates

## Not run:

## the previous two default values can be overridden when calling makeMafDbPackageKG()

makeMafDbPackageKG()

## End(Not run)
```

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