

# Package ‘geuvStore2’

April 13, 2017

**Title** demonstrate storage discipline for eQTL enumerations, revised

**Version** 1.4.0

**Author** VJ Carey <stvjc@channing.harvard.edu>

**Description** demonstrate storage discipline for eQTL enumerations and analyses based on a selection of GEUVADIS results

**Suggests** Homo.sapiens, knitr (>= 1.7), rmarkdown

**Imports** methods, gQTLBase

**Depends** BatchJobs, GenomicRanges

**Maintainer** VJ Carey <stvjc@channing.harvard.edu>

**License** Artistic-2.0

**LazyLoad** yes

**biocViews** ExperimentData, SequencingData, MicroarrayData

**VignetteBuilder** knitr

**NeedsCompilation** no

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geuvStore2-package	<i>demonstrate storage discipline for eQTL enumerations, revised</i>
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## Description

demonstrate storage discipline for eQTL enumerations and analyses based on a selection of GEUVADIS results

**Details**

The DESCRIPTION file:

```
Package:      geuvStore2
Title:       demonstrate storage discipline for eQTL enumerations, revised
Version:     1.4.0
Author:      VJ Carey <stvjc@channing.harvard.edu>
Description: demonstrate storage discipline for eQTL enumerations and analyses based on a selection of GEUVAD
Suggests:   Homo.sapiens, knitr (>= 1.7), rmarkdown
Imports:    methods, gQTLBase
Depends:    BatchJobs, GenomicRanges
Maintainer: VJ Carey <stvjc@channing.harvard.edu>
License:    Artistic-2.0
LazyLoad:   yes
biocViews:  ExperimentData, SequencingData, MicroarrayData
VignetteBuilder: knitr
```

Index of help topics:

```
geuvStore2-package  demonstrate storage discipline for eQTL
                    enumerations, revised
gv2pm               components for constructing the distributed
                    store for the subset of eQTL association
                    statistics based on GEUVADIS
```

This package illustrates an approach to managing large numbers of tests, in this case, eQTL association statistics and annotation. The idea is that the report is broken into small chunks, indexed by feature names and ranges, and can be filtered using parallel computing if desired.

The `makeGeuvStore2` function constructs the basic object for working with a subset of tests related to the GEUVADIS study [PMID 24037378].

**Author(s)**

VJ Carey <stvjc@channing.harvard.edu>

Maintainer: VJ Carey <stvjc@channing.harvard.edu>

**Examples**

```
mm = makeGeuvStore2()
mm
data(geuvStore2Desc)
geuvStore2Desc # describes distributed computing resources used
```

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gv2pm

*components for constructing the distributed store for the subset of eQTL association statistics based on GEUVADIS*

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**Description**

*gv2pm* and *gv2rm* are used to index distributed *GRanges* objects; *geuvStore2Desc* is a serialized description of store contents. *kpp* is the vector of gene identifiers retained in this subset (about 5

**Usage**

```
data("gv2pm")
```

**Format**

A data frame with 920 observations on the following 2 variables.

*probeid* a character vector

*jobnum* a numeric vector

**Examples**

```
data(gv2rm)  
gv2rm
```

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