Package ‘geneExpressionFromGEO’

October 13, 2022

Encoding UTF-8

Title Easily Downloads a Gene Expression Dataset from a GEO Code and Retrieves the Gene Symbols of Its Probesets

Version 0.9


BugReports https://github.com/davidechicco/geneExpressionFromGEO/issues

Depends R (>= 3.1.0)

License GPL-3

URL https://github.com/davidechicco/geneExpressionFromGEO

Imports BiocManager, xml2, Biobase, annotate, GEOquery, markdown, R.utils

Suggests knitr, rmarkdown

VignetteBuilder knitr

RoxygenNote 7.1.1

NeedsCompilation no

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Repository CRAN

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**R topics documented:**

- **dec_two**
  
  Function that returns numeric values with 2 decimal numbers.

  **Usage**
  
  ```r
  dec_two(x)
  ```

  **Arguments**
  
  - `x`: input numeric value with N decimal numbers.

  **Value**
  
  a numeric value with 2 decimal numbers.

  **Examples**
  
  ```r
  aaa <- dec_two(8.31232)
  ```

- **getGeneExpressionFromGEO**
  
  Function that reads in the GEO code of a dataset, and returns the gene expression dataframe.

  **Usage**
  
  ```r
  getGeneExpressionFromGEO(datasetGeoCode, retrieveGeneSymbols, verbose = FALSE)
  ```
**readUrl**

**Arguments**
- **datasetGeoCode**  the GEO code of a dataset.
- **retrieveGeneSymbols**  a boolean flag stating if the function should retrieve the gene symbols or not.
- **verbose**  a boolean flag stating if helping messages should be printed or not

**Value**
a gene expression dataset.

**Examples**
```r
geneExpressionDF1 <- getGeneExpressionFromGEO("GSE3268", FALSE, FALSE)
```

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**readUrl**

*Function that reads in a URL to check and verifies if it exists (function written by Janko Thyson @rappster and taken from https://stackoverflow.com/a/12195574)*

**Description**

Function that reads in a URL to check and verifies if it exists (function written by Janko Thyson @rappster and taken from https://stackoverflow.com/a/12195574)

**Usage**

```r
readUrl(url)
```

**Arguments**
- **url**  the URL of a webpage

**Value**

the output of a webpage verification check

**Examples**
```r
```
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