

# Package ‘healthyControlsPresenceChecker’

April 23, 2024

**Encoding** UTF-8

**Title** Downloads A Gene Expression Dataset From GEO And Checks If It  
Contains Data Of Healthy Controls Or Not

**Version** 1.7.0

**Description** A function that reads in the GEO accession code of a gene expression dataset, retrieves its data from GEO, and checks if data of healthy controls are present in the dataset. It returns true if healthy controls data are found, and false otherwise. GEO: Gene Expression Omnibus. ID: identifier code. The GEO datasets are downloaded from the URL <<https://ftp.ncbi.nlm.nih.gov/geo/series/>>.

**BugReports** <https://github.com/davidechicco/healthyControlsPresenceChecker/issues>

**Depends** R (>= 4.0.0)

**License** GPL-3

**URL** <https://github.com/davidechicco/healthyControlsPresenceChecker>

**biocViews** GEO, RepositoryData, ExpressionData

**Imports** xml2, GEOquery, geneExpressionFromGEO, magrittr

**Suggests** RUnit, BiocGenerics, markdown, BiocStyle, knitr, rmarkdown

**VignetteBuilder** knitr

**RoxygenNote** 7.1.1

**git\_url** <https://git.bioconductor.org/packages/healthyControlsPresenceChecker>

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healthyControlsCheck *Function that reads in the GEO code of a dataset, and returns true if there's at least a feature containing the healthy controls.*

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### Description

Function that reads in the GEO code of a dataset, and returns true if there's at least a feature containing the healthy controls.

### Usage

```
healthyControlsCheck(datasetGeoCode, verbose = FALSE)
```

### Arguments

datasetGeoCode the GEO code of a dataset.  
 verbose a boolean flag stating if helping messages should be printed or not

### Value

a boolean value

### Examples

```
healthyControlsCheckOutcome <- healthyControlsCheck("GSE3268", FALSE)
```

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healthyControlsChecker  
*healthyControlsChecker: A package for verifying the presence of healthy controls in a GEO dataset*

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### Description

The healthyControlsChecker package provides one relevant function: healthyControlsCheck()

### healthyControlsCheck() function

The healthyControlsCheck() function reads in the GEO code of a dataset, and returns true if there's at least a feature containing the healthy controls.

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