

# Package ‘healthyControlsPresenceChecker’

September 11, 2025

**Encoding** UTF-8

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

**Version** 1.13.0

**Description** A function that reads in the GEO accession code of a gene expression dataset, re-trieves its data from GEO, and checks if data of healthy controls are present in the dataset. It re-returns true if healthy controls data are found, and false otherwise. GEO: Gene Expression Om-nibus. ID: identifier code. The GEO datasets are down-loaded 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>

**git\_branch** devel

**git\_last\_commit** 18ed549

**git\_last\_commit\_date** 2025-04-15

**Repository** Bioconductor 3.22

**Date/Publication** 2025-09-11

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| healthyControlsCheck | <i>Function that reads in the GEO code of a dataset, and returns true if there's at least a feature containing the healthy controls.</i> |
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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 | <i>healthyControlsChecker: A package for verifying the presence of healthy controls in a GEO dataset</i> |
|------------------------|----------------------------------------------------------------------------------------------------------|

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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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