

# Package ‘TCGAbiolinksGUI.data’

October 14, 2018

**Title** Data for the TCGAbiolinksGUI package

**Version** 1.0.0

**Author** Tiago Chedraoui Silva

**Maintainer** Tiago Chedraoui Silva <tiagochst@usp.br>

**Description** Supporting data for the TCGAbiolinksGUI package.

It includes the following objects: glioma.gcimp.model, glioma.idhwt.model, glioma.idhmut.model, glioma.idh.mode, probes2rm, maf.tumor, GDCdisease.

**License** GPL-3

**LazyData** false

**Depends** R (>= 3.5.0)

**Suggests** BiocStyle, knitr, readr, readxl, dplyr, caret, randomForest, doMC, e1071, DT

**biocViews** AssayDomainData, TechnologyData, OrganismData

**URL** <https://github.com/BioinformaticsFMRP/TCGAbiolinksGUI.data>

**BugReports** <https://github.com/BioinformaticsFMRP/TCGAbiolinksGUI.data/issues>

**VignetteBuilder** knitr

**RoxygenNote** 6.0.1

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

**git\_branch** RELEASE\_3\_7

**git\_last\_commit** 35e48f5

**git\_last\_commit\_date** 2018-04-30

**Date/Publication** 2018-10-14

## R topics documented:

GDCdisease . . . . .	2
glioma.gcimp.model . . . . .	2
glioma.idh.model . . . . .	3
glioma.idhmut.model . . . . .	3
glioma.idhwt.model . . . . .	4
maf.tumor . . . . .	4
probes2rm . . . . .	5
TCGAbiolinksGUI.data . . . . .	5

<b>Index</b>	<b>6</b>
--------------	----------

GDCdisease

*GDC projects*

---

**Description**

Contains all GDC projects with open data

**Usage**

```
data("GDCdisease")
```

**Format**

A named list with 39 projects

**Source**

Retrieved from GDC API

---

glioma.gcimp.model

*gcimp RF model*

---

**Description**

A RF model able to classify DNA methylation samples in to GCIMP groups

**Usage**

```
data("glioma.gcimp.model")
```

**Format**

A random forest model with 276 samples and 145 predictors classifying into 3 classes

**Source**

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

---

`glioma.idh.model`      *IDH RF model*

---

**Description**

A RF model able to classify DNA methylation samples in to IDH groups

**Usage**

```
data("glioma.idh.model")
```

**Format**

A random forest model with 880 samples and 1205 predictors classifying into 6 classes

**Source**

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

---

`glioma.idhmut.model`      *IDHmut RF model*

---

**Description**

A RF model able to classify DNA methylation samples in to IDHmut groups

**Usage**

```
data("glioma.idhmut.model")
```

**Format**

A random forest model with 450 samples and 1216 predictors classifying into 3 classes

**Source**

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

---

glioma.idhwt.model	<i>IDHwt RF model</i>
--------------------	-----------------------

---

**Description**

A RF model able to classify DNA methylation samples in to IDHwt groups

**Usage**

```
data("glioma.idhwt.model")
```

**Format**

A random forest model with 430 samples and 843 predictors classifying into 3 classes

**Source**

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

---

maf.tumor	<i>GDC open MAF files</i>
-----------	---------------------------

---

**Description**

Contains the list of GDC project with open MAF files available

**Usage**

```
data(maf.tumor)
```

**Format**

A named list with 33 tumors

**Source**

[https://gdc-docs.nci.nih.gov/Data/Release\\_Notes/Manifests/GDC\\_open\\_MAFs\\_manifest.txt](https://gdc-docs.nci.nih.gov/Data/Release_Notes/Manifests/GDC_open_MAFs_manifest.txt)

---

 probes2rm

*EPIC probes removed from newer versions*


---

**Description**

EPIC probes removed from newer versions that should not be used in the analysis

**Usage**

```
data("probes2rm")
```

**Format**

A list with 977 probes

**Source**

<https://support.illumina.com/downloads/infinium-methylationepic-v1-0-product-files.html>

---

 TCGAbiolinksGUI.data

*Auxiliary data for TCGAbiolinksGUI package.*


---

**Description**

**Package:** TCGAbiolinksGUI.data provide the necessary data for TCGAbiolinksGUI glioma classifier menu. It includes the following objects:

**glioma.gcimp.model** A train model for GCIMP DNA methylation signatures.

**glioma.idhwt.model** A train model for IDHwt DNA methylation signatures

**glioma.idhmut.model** A train model for IDHmut DNA methylation signatures

**glioma.idh.model** A train model for IDH DNA methylation signatures

**probes2rm** List of probes that should be removed from EPIC array due to different versions of the platform.

Source: <https://support.illumina.com/downloads/infinium-methylationepic-v1-0-product-files.html>

**maf.tumor** TCGA projects with open MAF files retrieved from the NCI's Genomic Data Commons (GDC).

Source: [https://gdc-docs.nci.nih.gov/Data/Release\\_Notes/Manifests/GDC\\_open\\_MAFs\\_manifest.txt](https://gdc-docs.nci.nih.gov/Data/Release_Notes/Manifests/GDC_open_MAFs_manifest.txt)

**GDCdisease** The NCI's Genomic Data Commons (GDC) projects list

# Index

## \*Topic **datasets**

- GDCdisease, [2](#)
- glioma.gcimp.model, [2](#)
- glioma.idh.model, [3](#)
- glioma.idhmut.model, [3](#)
- glioma.idhwt.model, [4](#)
- maf.tumor, [4](#)
- probes2rm, [5](#)

## \*Topic **utilities**

- TCGAbiolinksGUI.data, [5](#)

GDCdisease, [2](#), [5](#)

glioma.gcimp.model, [2](#), [5](#)

glioma.idh.model, [3](#), [5](#)

glioma.idhmut.model, [3](#), [5](#)

glioma.idhwt.model, [4](#), [5](#)

maf.tumor, [4](#), [5](#)

probes2rm, [5](#), [5](#)

TCGAbiolinksGUI.data, [5](#)

TCGAbiolinksGUI.data-package  
(TCGAbiolinksGUI.data), [5](#)