

Package ‘diggitdata’

October 2, 2025

Type Package

Title Example data for the diggit package

Version 1.41.0

Date 2014-08-29

Author Mariano Javier Alvarez

Maintainer Mariano Javier Alvarez <reef103@gmail.com>

Description This package provides expression profile and CNV data for glioblastoma from TCGA, and transcriptional and post-translational regulatory networks assembled with the ARACNe and MINDy algorithms, respectively.

License GPL (>=2)

Depends R(>= 2.14.0), Biobase, methods

Imports viper

LazyLoad yes

biocViews ExperimentData, Cancer

git_url <https://git.bioconductor.org/packages/diggitdata>

git_branch devel

git_last_commit f8f5c89

git_last_commit_date 2025-04-15

Repository Bioconductor 3.22

Date/Publication 2025-10-02

Contents

diggitdata-package	2
gbm.aracne	2
gbm.cnv	3
gbm.cnv.normal	3
gbm.expression	3
gbm.mindy	4
Index	5

diggitdata-package	<i>Datasets and network models required for the examples in the diggit package</i>
--------------------	--

Description

This package contains a human glioblastoma mRNA expression dataset, a human glioblastoma copy number variation (CNV) dataset, a glioblastoma context-specific transcriptional network, and a glioblastoma context-specific post-translational network.

Details

Package:	diggitdata
Type:	Package
Version:	0.99.0
Date:	2014-08-29
License:	GPL (>=2)
LazyLoad:	yes

Author(s)

Mariano Javier Alvarez

Maintainer: Mariano Javier Alvarez <reef103@gmail.com>

gbm.aracne	<i>Transcriptional regulatory network for human glioblastoma</i>
------------	--

Description

Human glioblastoma transcriptional regulatory network assembled by the ARACNe algorithm from TCGA expression data. The data is stored in a S3 class 'regulon' object.

Usage

```
data(gbm.aracne)
```

References

Margolin,A.A. et al. (2006) ARACNE: an algorithm for the reconstruction of gene regulatory networks in a mammalian cellular context. BMC Bioinformatics, 7 Suppl 1, S7.

Examples

```
data(gbm.aracne)
print(gbmTFregulon)
```

`gbm.cnv`*Human glioblastoma TCGA copy number variation (CNV) dataset*

Description

Normalized CNV data, summarized at the gene level, for 230 samples from TCGA profiled by Agilent HG-CGH-244A arrays. The CNV data is in a matrix format, with samples in columns and genes in rows.

Usage

```
data(gbm.cnv)
```

Examples

```
data(gbm.cnv)
print(gbmCNV[1:5, 1:5])
```

`gbm.cnv.normal`*Human normal blood TCGA copy number variation (CNV) dataset*

Description

Normalized CNV data, summarized at the gene level, for 33 blood samples from TCGA profiled by Agilent HG-CGH-244A arrays. The CNV data is in a matrix format, with samples in columns and genes in rows.

Usage

```
data(gbm.cnv.normal)
```

Examples

```
data(gbm.cnv.normal)
print(gbmCNVnormal[1:5, 1:5])
```

`gbm.expression`*Human glioblastoma mRNA expression dataset from TCGA*

Description

ExpressionSet object containing cleaner summarized and mas5 normalized mRNA expression data from 250 human glioblastoma samples profiled by TCGA on HT-HGU133A arrays.

Usage

```
data(gbm.expression)
```

References

Alvarez,M.J. et al. (2009) Correlating measurements across samples improves accuracy of large-scale expression profile experiments. *Genome Biol.*, 10, R143.

Examples

```
data(gbm.expression)
print(gbmExprs)
```

gbm.mindy

Post-translational regulatory network for human glioblastoma

Description

Human glioblastoma post-translational regulatory network assembled by the MINDy algorithm from TCGA expression data. The data is stored in a S3 class 'regulon' object.

Usage

```
data(gbm.mindy)
```

References

Wang,K. et al. (2009) Genome-wide identification of post-translational modulators of transcription factor activity in human B cells. *Nat. Biotechnol.*, 27, 829-39.

Examples

```
data(gbm.mindy)
print(gbmMindy)
```

Index

* datasets

- gbm.aracne, [2](#)
- gbm.cnv, [3](#)
- gbm.cnv.normal, [3](#)
- gbm.expression, [3](#)
- gbm.mindy, [4](#)

`diggitdata` (`diggitdata-package`), [2](#)
`diggitdata-package`, [2](#)

`gbm.aracne`, [2](#)
`gbm.cnv`, [3](#)
`gbm.cnv.normal`, [3](#)
`gbm.expression`, [3](#)
`gbm.mindy`, [4](#)
`gbmCNV` (`gbm.cnv`), [3](#)
`gbmCNVnormal` (`gbm.cnv.normal`), [3](#)
`gbmExprs` (`gbm.expression`), [3](#)
`gbmMindy` (`gbm.mindy`), [4](#)
`gbmTFregulon` (`gbm.aracne`), [2](#)