

Package ‘ReactomeGSA.data’

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Type Package

Title Companion data package for the ReactomeGSA package

Version 1.21.0

Description Companion data sets to showcase the functionality of the ReactomeGSA package.
This package contains proteomics and RNA-seq data of the melanoma B-cell induction study by Griss et al. and scRNA-seq data from Jerby-Arnon et al.

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Encoding UTF-8

Depends R (>= 3.6), limma, edgeR, ReactomeGSA, Seurat

RoxygenNote 6.1.1

biocViews ExpressionData, RNASeqData, Proteome, Homo_sapiens_Data

BugReports <https://github.com/reactome/ReactomeGSA.data>

URL <https://github.com/reactome/ReactomeGSA.data/issues>

git_url <https://git.bioconductor.org/packages/ReactomeGSA.data>

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`griss_melanoma_proteomics`*Proteomics intensity-based quantitation data from the B-Cell melanoma induction study by Griss et al.*

Description

The data is available as a [EList](#) object containing the aggregated protein intensity values. Normalisation was already performed on the PSM level prior to protein-level aggregation.

Usage`griss_melanoma_proteomics`**Format**

An object of class `EList` with 6456 rows and 20 columns.

Author(s)

Johannes Griss <johannes.griss@meduniwien.ac.at>

References

Griss et al., Nat Commun. 2019 10(1):4186. doi: 10.1038/s41467-019-12160-2

`griss_melanoma_result` *Example Camera result created based on the melanoma induction study by Griss et al.*

Description

The result is stored as a [ReactomeAnalysisResult-class](#) object.

Usage`griss_melanoma_result`**Format**

An object of class `ReactomeAnalysisResult` of length 1.

Author(s)

Johannes Griss <johannes.griss@meduniwien.ac.at>

References

Griss et al., Nat Commun. 2019 10(1):4186. doi: 10.1038/s41467-019-12160-2

griss_melanoma_rnaseq *Raw RNA-seq read counts from the B-Cell melanoma induction study by Griss et al.*

Description

The data is available as a [DGEList](#) object containing read counts per gene.

Usage

```
griss_melanoma_rnaseq
```

Format

An object of class `DGEList` with 58237 rows and 16 columns.

Author(s)

Johannes Griss <johannes.griss@meduniwien.ac.at>

References

Griss et al., Nat Commun. 2019 10(1):4186. doi: 10.1038/s41467-019-12160-2

jerby_b_cells *Example Seurat object containing B cells extracted from the single-cell RNA-seq dataset published by Jerby-Arnon et al.*

Description

This result is stored as a `Seurat` object.

Usage

```
jerby_b_cells
```

Format

An object of class `Seurat` with 23686 rows and 920 columns.

References

Jerby-Arnon et al., Cell 2018 1;175(4):984-997.e24. doi:10.1016/j.cell.2018.09.006

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