

# Package ‘ReactomeGSA.data’

July 2, 2024

**Type** Package

**Title** Companion data package for the ReactomeGSA package

**Version** 1.18.0

**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.

**License** Artistic-2.0

**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>

**git\_branch** RELEASE\_3\_19

**git\_last\_commit** c254d39

**git\_last\_commit\_date** 2024-04-30

**Repository** Bioconductor 3.19

**Date/Publication** 2024-07-02

**Author** Johannes Griss [aut, cre] (<<https://orcid.org/0000-0003-2206-9511>>)

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

## Contents

griss_melanoma_proteomics . . . . .	2
griss_melanoma_result . . . . .	2
griss_melanoma_rnaseq . . . . .	3
jerby_b_cells . . . . .	3

<b>Index</b>	<b>4</b>
--------------	----------

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

# Index

## \* datasets

griss\_melanoma\_proteomics, [2](#)

griss\_melanoma\_result, [2](#)

griss\_melanoma\_rnaseq, [3](#)

jerby\_b\_cells, [3](#)

DGEList, [3](#)

EList, [2](#)

griss\_melanoma\_proteomics, [2](#)

griss\_melanoma\_result, [2](#)

griss\_melanoma\_rnaseq, [3](#)

jerby\_b\_cells, [3](#)