

Package ‘curatedAdipoRNA’

January 22, 2026

Type Package

Title A Curated RNA-Seq Dataset of MDI-induced Differentiated Adipocytes (3T3-L1)

Version 1.26.0

Year 2019

Description A curated dataset of RNA-Seq samples. The samples are MDI-induced pre-phagocytes (3T3-L1) at different time points/stage of differentiation. The package document the data collection, pre-processing and processing. In addition to the documentation, the package contains the scripts that was used to generated the data.

License GPL-3

URL <https://github.com/MahShaaban/curatedAdipoRNA>

BugReports <https://github.com/MahShaaban/curatedAdipoRNA/issues>

Encoding UTF-8

RoxygenNote 6.1.1

LazyData TRUE

Depends R (>= 3.6), SummarizedExperiment

Suggests knitr, rmarkdown, DESeq2, fastqcr, devtools, testthat, readr, dplyr, tidyr, ggplot2, S4Vectors

VignetteBuilder knitr

biocViews ExperimentData, GEO, RNASeqData, SequencingData

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

git_branch RELEASE_3_22

git_last_commit 4ad70e4

git_last_commit_date 2025-10-29

Repository Bioconductor 3.22

Date/Publication 2026-01-22

Author Mahmoud Ahmed [aut, cre] (ORCID: <<https://orcid.org/0000-0002-4377-6541>>)

Maintainer Mahmoud Ahmed <mahmoud.s.fahmy@students.kasralainy.edu.eg>

Contents

adipo_counts	2
curatedAdipoRNA	2
Index	3

adipo_counts	<i>Gene counts in differentiating adipocytes</i>
--------------	--

Description

Gene counts in differentiating adipocytes

Usage

adipo_counts

Format

A RangedSummarizedExperiment object contains:

assay The gene counts matrix.

colData The phenotype data and quality control data of the samples.

rowRanges The feature data at gene level.

metadata The study level metadata which contains one object called **studies**. This is a **data.frame** of bibliography information of the studies from which the samples were collected.

Examples

```
# load the data object
data('adipo_counts')

# print the object
adipo_counts
```

curatedAdipoRNA	<i>curatedAdipoRNA package</i>
-----------------	--------------------------------

Description

A Curated RNA-Seq Dataset of MDI-induced Differentiated Adipocytes (3T3-L1)

Details

A curated dataset of RNA-Seq samples. The samples are MDI-induced pre-phagocytes (3T3-L1) at different time points/stage of differentiation. The package document the data collection, pre-processing and processing. In addition to the documentation, the package contains the scripts that was used to generated the data. The datasets and the pipeline used to process it are documented in **adipo_counts** and the package vignette.

Index

* datasets

adipo_counts, [2](#)

adipo_counts, [2, 2](#)

curatedAdipoRNA, [2](#)

curatedAdipoRNA-package

(curatedAdipoRNA), [2](#)