

# Package ‘KOdata’

April 3, 2025

**Type** Package

**Title** LINCS Knock-Out Data Package

**Version** 1.33.0

**Date** 2016-06-23

**Author** Shana White

**Maintainer** Shana White <vandersm@mail.uc.edu>

**Description** Contains consensus genomic signatures (CGS) for experimental cell-line specific gene knock-outs as well as baseline gene expression data for a subset of experimental cell-lines. Intended for use with package KEGGlinCs.

**License** MIT + file LICENSE

**LazyData** TRUE

**RoxygenNote** 5.0.1

**Depends** R (>= 3.3.0)

**biocViews** ExpressionData, CancerData, Homo\_sapiens\_Data

**NeedsCompilation** no

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

**git\_branch** devel

**git\_last\_commit** f20344e

**git\_last\_commit\_date** 2024-10-29

**Repository** Bioconductor 3.21

**Date/Publication** 2025-04-03

## Contents

gene_cell_info . . . . .	2
KOdata . . . . .	2
KO_data . . . . .	3

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

---

gene_cell_info	<i>Baseline expression information for genes across cell lines</i>
----------------	--

---

**Description**

This data set contains baseline expression measurements for genes in cell lines [without any experimental perturbations] as profiled by the LINCS data consortium

**Usage**

```
data(gene_cell_info)
```

**Format**

A data frame with 1703457 observations on the following 6 variables.

- pr\_gene\_symbola character vector
- cella character vector
- basex\_affxa numeric vector
- basex\_rnaseqa numeric vector
- copy\_numbera numeric vector
- is\_expresseda logical vector

**Value**

A data.frame object

---

KOdata	<i>KOdata: an R data package designed to be used with KEGGlinCs</i>
--------	---

---

**Description**

KOdata: an R data package designed to be used with KEGGlinCs

---

`KO_data`*LINCS knock-out data*

---

**Description**

This data set contains consensus genome signatures (CGS) that are the result of experimental knock-out studies conducted by the BROAD Institute.

**Usage**

```
data(KO_data)
```

**Format**

A data frame with 36720 observations on the following 9 variables.

- `cell_id` a character vector
- `pert_desc` a character vector
- `pert_time` a numeric vector
- `dn100_bing` a character vector
- `dn100_full` a character vector
- `dn50_lm` a character vector
- `up100_bing` a character vector
- `up100_full` a character vector
- `up50_lm` a character vector

**Value**

A `data.frame` object

**References**

<http://lincsportal.ccs.miami.edu>

# Index

## \* datasets

gene\_cell\_info, [2](#)

KO\_data, [3](#)

gene\_cell\_info, [2](#)

KO\_data, [3](#)

KOdata, [2](#)

KOdata-package (KOdata), [2](#)