

# Package ‘KOdata’

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**Type** Package

**Title** LINCS Knock-Out Data Package

**Version** 1.20.0

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**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** RELEASE\_3\_14

**git\_last\_commit** 0d91c81

**git\_last\_commit\_date** 2021-10-26

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## R topics documented:

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

<b>Index</b>	<b>4</b>
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gene_cell_info	<i>Baseline expression information for genes across cell lines</i>
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**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

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KOdata	<i>KOdata: an R data package designed to be used with KEGGlincs</i>
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**Description**

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

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`KO_data`*LINCS knock-out data*

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**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](#)