

Package ‘KOdata’

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Type Package

Title LINCS Knock-Out Data Package

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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.

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LazyData TRUE

RoxygenNote 5.0.1

Depends R (>= 3.3.0)

biocViews ExpressionData, CancerData, Homo_sapiens_Data

NeedsCompilation no

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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

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

KO_data	<i>LINCS knock-out data</i>
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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>

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