

# Package ‘QUBICdata’

March 18, 2025

**Type** Package

**Title** Data employed in the vignette of the QUBIC package

**Description** The data employed in the vignette of the QUBIC package. These data belong to Many Microbe Microarrays Database and STRING v10.

**VignetteBuilder** knitr

**biocViews** Escherichia\_coli\_Data, OrganismData, ExperimentData

**Version** 1.34.0

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**Depends** R (>= 3.1)

**Suggests** knitr, rmarkdown

**URL** <http://github.com/zy26/QUBICdata>

**BugReports** <http://github.com/zy26/QUBICdata/issues>

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

**git\_branch** RELEASE\_3\_20

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ecoli

*E.coli*

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**Description**

Gene expression data matrix for experiments with E.coli from Many Microbe Microarrays Database (M3D).

**Usage**

```
data("ecoli")
```

**Format**

Large matrix with information about the expression levels of 4297 genes over 466 conditions.

**Source**

<http://m3d.mssm.edu/>

**References**

Faith, JJ et al. (2008) Many Microbe Microarrays Database: uniformly normalized Affymetrix compendia with structured experimental metadata. *Nucleic Acids Res.* 36 D866-70

**Examples**

```
data(ecoli)
## maybe str(ecoli) ; plot(ecoli) ...
```

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ecoli.weight*E.coli Weight*

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**Description**

Protein network information (scored links between proteins) for *Escherichia coli* K12 MG1655. It originates from STRING v10 and serves as example weight input for the query-based biclustering function in QUBIC.

**Usage**

```
data("ecoli.weight")
```

**Format**

Large dgMatrix with information about the weight between proteins.

**Source**

<http://string-db.org/download/protein.links.v10/511145.protein.links.v10.txt.gz>

## **References**

Szklarczyk, D et al. (2014) STRING v10: protein–protein interaction networks, integrated over the tree of life. *Nucleic Acids Res.* 43 D447–52

## **Examples**

```
data(ecoli.weight)
## maybe str(ecoli.weight) ; plot(ecoli.weight) ...
```

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