

# Package ‘QUBICdata’

April 11, 2019

**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** 1.10.0

**License** Unlimited | file LICENSE

**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\_8

**git\_last\_commit** a2a8188

**git\_last\_commit\_date** 2018-10-30

**Date/Publication** 2019-04-11

**Author** Yu Zhang [aut, cre],  
Qin Ma [aut]

**Maintainer** Yu Zhang <zy26@jlu.edu.cn>

## R topics documented:

|                        |          |
|------------------------|----------|
| ecoli . . . . .        | 2        |
| ecoli.weight . . . . . | 2        |
| <b>Index</b>           | <b>4</b> |

ecoli

*E.coli*

---

**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) ...
```

---

ecoli.weight*E.coli Weight*

---

**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) ...
```

# Index

## \*Topic **datasets**

ecoli, [2](#)

ecoli.weight, [2](#)

ecoli, [2](#)

ecoli.weight, [2](#)