

# Package ‘EpiMix.data’

January 1, 2026

**Title** Data for the EpiMix package

**Version** 1.13.0

**Description** Supporting data for the EpiMix R package.

It include:

- HM450\_lncRNA\_probes.rda
- HM450\_miRNA\_probes.rda
- EPIC\_lncRNA\_probes.rda
- EPIC\_miRNA\_probes.rda
- EpigenomeMap.rda
- LUAD.sample.annotation
- TCGA\_BatchData
- MET.data
- mRNA.data
- microRNA.data
- lncRNA.data
- Sample\_EpiMixResults\_lncRNA
- Sample\_EpiMixResults\_miRNA
- Sample\_EpiMixResults\_Regular
- Sample\_EpiMixResults\_Enhancer
- lncRNA expression data of tumors from TCGA that are stored in the ExperimentHub.

**License** GPL-3

**Encoding** UTF-8

**Depends** R (>= 4.2.0), ExperimentHub (>= 0.99.6)

**Suggests** rmarkdown, knitr

**biocViews** ExperimentData, ExperimentHub, Genome, RNASeqData,  
ExpressionData

**NeedsCompilation** no

**RoxygenNote** 7.2.3

**VignetteBuilder** knitr

**BugReports** <https://github.com/gevaertlab/EpiMix/issues>

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

**git\_branch** devel

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|                    |                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| EPIC_lncRNA_probes | <i>A character vector that maps CpG probes to lncRNA genes. The vectors names are genes and the values are CpG probes</i> |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|

---

Description

A character vector that maps CpG probes to lncRNA genes. The vectors names are genes and the values are CpG probes

Usage

EPIC\_lncRNA\_probes

Format

A character vector with 205645 elements

**Examples**

```
## Not run:
data("EPIC_lncRNA_probes")

## End(Not run)
```

---

|                   |                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| EPIC_miRNA_probes | <i>A dataframe that maps CpG probes genes to microRNA genes. The vectors names are genes and the values are CpG probes</i> |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|

---

**Description**

A dataframe that maps CpG probes genes to microRNA genes. The vectors names are genes and the values are CpG probes

**Usage**

```
EPIC_miRNA_probes
```

**Format**

A dataframe with 23,907 rows and 4 columns

**Examples**

```
## Not run:
data("EPIC_miRNA_probes")

## End(Not run)
```

---

|              |                                                          |
|--------------|----------------------------------------------------------|
| EpigenomeMap | <i>A list that map epigenome groups to epigenome IDs</i> |
|--------------|----------------------------------------------------------|

---

**Description**

The data were generated from the RoadmapEpigenomic project (Nature, PMID: 25693563, figure 2).

**Usage**

```
EpigenomeMap
```

**Format**

A list with 17 elements. The names are epigenome/tissue groups and the values are epigenome IDs for specific cells.

**Examples**

```
## Not run:  
data("EpigenomeMap")  
  
## End(Not run)
```

---

|                     |                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| HM450_lncRNA_probes | <i>A character vector that maps CpG probes to lncRNA genes. The vectors names are genes and the values are CpG probes</i> |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|

---

**Description**

A character vector that maps CpG probes to lncRNA genes. The vectors names are genes and the values are CpG probes

**Usage**

```
HM450_lncRNA_probes
```

**Format**

A character vector with 108202 elements

**Examples**

```
## Not run:  
data("HM450_lncRNA_probes")  
  
## End(Not run)
```

---

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| HM450_miRNA_probes | <i>A dataframe that maps CpG probes genes to microRNA genes.</i> |
|--------------------|------------------------------------------------------------------|

---

**Description**

A dataframe that maps CpG probes genes to microRNA genes.

**Usage**

```
HM450_miRNA_probes
```

**Format**

A dataframe with 17,495 rows and 4 columns

**Examples**

```
## Not run:  
data("HM450_miRNA_probes")  
  
## End(Not run)
```

---

`lncRNA.data`*Toy lncRNA expression dataset for demonstration purpose.*

---

**Description**

This is a subset of lncRNA expression data from TCGA-LUAD, used for testing the program.

**Usage**

```
lncRNA.data
```

**Format**

a matrix

**Examples**

```
## Not run:  
data("lncRNA.data")  
  
## End(Not run)
```

---

`LUAD.sample.annotation`*toy dataset for sample annotation*

---

**Description**

a dataframe with two columns: the first column is the patient identifier, and the second column is the sample annotation

**Usage**

```
LUAD.sample.annotation
```

**Format**

a dataframe

**Examples**

```
## Not run:  
data("LUAD.sample.annotation")  
  
## End(Not run)
```

---

**MET.data***Toy DNA methylation dataset for demonstration purpose.*

---

**Description**

This is a subset of DNA methylation data from TCGA-LUAD, used for testing the program.

**Usage**

MET.data

**Format**

a matrix

**Examples**

```
## Not run:  
data("MET.data")  
  
## End(Not run)
```

---

**microRNA.data***Toy microRNA expression dataset for demonstration purpose.*

---

**Description**

This is a subset of microRNA expression data from TCGA-LUAD, used for testing the program.

**Usage**

microRNA.data

**Format**

a matrix

**Examples**

```
## Not run:  
data("microRNA.data")  
  
## End(Not run)
```

---

`mRNA.data`*Toy gene expression dataset for demonstration purpose.*

---

**Description**

This is a subset of gene expression data from TCGA-LUAD, used for testing the program.

**Usage**`mRNA.data`**Format**

a matrix

**Examples**

```
## Not run:
data("mRNA.data")

## End(Not run)
```

---

`Sample_EpiMixResults_Enhancer`*toy dataset for EpiMix output with Enhancer mode*

---

**Description**

a list object returned from EpiMix

**Usage**`Sample_EpiMixResults_Enhancer`**Format**

a list

**Examples**

```
## Not run:
data("Sample_EpiMixResults_Enhancer")

## End(Not run)
```

---

Sample\_EpiMixResults\_lncRNA  
*toy dataset for EpiMix output with lncRNA mode*

---

**Description**

a list object returned from EpiMix

**Usage**

```
Sample_EpiMixResults_lncRNA
```

**Format**

a list

**Examples**

```
## Not run:  
data("Sample_EpiMixResults_lncRNA")  
  
## End(Not run)
```

---

Sample\_EpiMixResults\_miRNA  
*toy dataset for EpiMix output with miRNA mode*

---

**Description**

a list object returned from EpiMix

**Usage**

```
Sample_EpiMixResults_miRNA
```

**Format**

a list

**Examples**

```
## Not run:  
data("Sample_EpiMixResults_miRNA")  
  
## End(Not run)
```

---

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Sample_EpiMixResults_Regular | <i>toy dataset for EpiMix output with Regular mode</i> |
|------------------------------|--------------------------------------------------------|

---

**Description**

a list object returned from EpiMix

**Usage**

```
Sample_EpiMixResults_Regular
```

**Format**

a list

**Examples**

```
## Not run:  
data("Sample_EpiMixResults_Regular")  
  
## End(Not run)
```

---

|                |                                                                |
|----------------|----------------------------------------------------------------|
| TCGA_BatchData | <i>A dataframe with the batch information of TCGA patient.</i> |
|----------------|----------------------------------------------------------------|

---

**Description**

a dataframe with two columns: the first column is the patient identifier, and the second column is the technical batch

**Usage**

```
TCGA_BatchData
```

**Format**

a dataframe

**Examples**

```
## Not run:  
data("TCGA_BatchData")  
  
## End(Not run)
```

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