

Package ‘methylclockData’

December 16, 2025

Title Data for methylclock package

Description Collection of 9 datasets, andrews and bakulski cord blood, blood gse35069, blood gse35069 chen, blood gse35069 complete, combined cord blood, cord blood gse68456, gervin and lyle cord blood, quintivano dlpfc and saliva gse48472". Data downloaded from [meffil](https://github.com/perishky/meffil/). Data used to estimate cell counts using Extrinsic epigenetic age acceleration (EEAA) method. Collection of 12 datasets to use with MethylClock package to estimate chronological and gestational DNA methylation with estimators to use with different methylation clocks

Version 1.18.0

BugReports <https://github.com/isglobal-brge/methylclockData/issues>

URL <https://github.com/isglobal-brge/methylclockData>

biocViews SpecimenSource, ExperimentHub, Tissue, OrganismData, Homo_sapiens_Data

Imports ExperimentHubData, ExperimentHub, utils

Suggests knitr, BiocStyle, rmarkdown

License MIT + file LICENSE

NeedsCompilation no

Encoding UTF-8

RoxygenNote 7.1.2

VignetteBuilder knitr

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get_coefBLUP	<i>coefBLUP</i>
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Description

get_coefBLUP returns the Best Linear Unbiased Prediction (BLUP) clock coefficients

Usage

get_coefBLUP()

Value

coefBLUP dataset

Examples

get_coefBLUP()

get_coefBohlin	<i>coefBohlin</i>
----------------	-------------------

Description

get_coefBohlin returns the Bohlin's clock coefficients

Usage

```
get_coefBohlin()
```

Value

coefBohlin dataset

Examples

```
get_coefBohlin()
```

get_coefEN	<i>coefEN</i>
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Description

get_coefEN returns the Elastic Net (EN) clock coefficients

Usage

```
get_coefEN()
```

Value

coefEN dataset

Examples

```
get_coefEN()
```

get_coefEPIC	<i>coefEPIC</i>
--------------	-----------------

Description

get_coefEPIC returns the EPIC clock coefficients

Usage

```
get_coefEPIC()
```

Value

coefEPIC dataset

Examples

```
get_coefEPIC()
```

get_coefHannum	<i>coefHannum</i>
----------------	-------------------

Description

get_coefHannum returns the Hannum's clock coefficients

Usage

```
get_coefHannum()
```

Value

coefHannum dataset

Examples

```
get_coefHannum()
```

get_coefHorvath	<i>coefHorvath</i>
-----------------	--------------------

Description

get_coefHorvath returns the Hobarth's clock coefficients

Usage

```
get_coefHorvath()
```

Value

coefHorvath dataset

Examples

```
get_coefHorvath()
```

get_coefKnightGA	<i>coefKnightGA</i>
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Description

get_coefKnightGA returns the Knight's clock coefficients

Usage

```
get_coefKnightGA()
```

Value

coefKnightGA dataset

Examples

```
get_coefKnightGA()
```

get_coefLeeGA	<i>coefLeeGA</i>
---------------	------------------

Description

get_coefLeeGA returns the Lee's Gestational Age clock coefficients

Usage

```
get_coefLeeGA()
```

Value

coefLeeGA dataset

Examples

```
get_coefLeeGA()
```

get_coefLevine	<i>coefLevine</i>
----------------	-------------------

Description

get_coefLevine returns the Levine's clock coefficients

Usage

```
get_coefLevine()
```

Value

coefLevine dataset

Examples

```
get_coefLevine()
```

get_coefMayneGA	<i>coefMayneGA</i>
-----------------	--------------------

Description

get_coefMayneGA returns the Mayne's clock coefficients

Usage

```
get_coefMayneGA()
```

Value

coefMayneGA dataset

Examples

```
get_coefMayneGA()
```

get_coefPedBE	<i>coefPedBE</i>
---------------	------------------

Description

get_coefPedBE returns the PedBE's clock coefficients

Usage

```
get_coefPedBE()
```

Value

coefPedBE dataset

Examples

```
get_coefPedBE()
```

get_coefSkin	<i>coefSkin</i>
--------------	-----------------

Description

get_coefSkin returns the Horvath's skin+blood clock coefficients

Usage

```
get_coefSkin()
```

Value

coefSkin dataset

Examples

```
get_coefSkin()
```

get_coefTL	<i>coefTL</i>
------------	---------------

Description

get_coefTL returns the Telomere Length clock coefficients

Usage

```
get_coefTL()
```

Value

coefTL dataset

Examples

```
get_coefTL()
```

get_coefWu	<i>Wu</i>
------------	-----------

Description

get_coefWu returns the Wu's clock coefficients

Usage

```
get_coefWu()
```

Value

Wu dataset

Examples

```
get_coefWu()
```

get_cpgs_bn	<i>cpgs_bn</i>
-------------	----------------

Description

get_cpgs_bn returns data to use Horvath's CpGs to train a Bayesian Neural Network (BNN)

Usage

```
get_cpgs_bn()
```

Value

cpgs_bn dataset

Examples

```
get_cpgs_bn()
```

```
get_MethylationDataExample  
MethylationDataExample55
```

Description

get_MethylationDataExample MethylationDataExample55 for vignette

Usage

```
get_MethylationDataExample()
```

Value

MethylationDataExample55 dataset

Examples

```
get_MethylationDataExample()
```

```
get_probeAnnotation21kdatMethUsed  
probeAnnotation21kdatMethUsed
```

Description

get_probeAnnotation21kdatMethUsed returns probeAnnotation21kdatMethUsed

Usage

```
get_probeAnnotation21kdatMethUsed()
```

Value

probeAnnotation21kdatMethUsed dataset

Examples

```
get_probeAnnotation21kdatMethUsed()
```

get_references	references
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Description

The methylclockData package is a repository of a few public datasets that needs the *methylclock* package to estimate chronological and gestational DNA methylation (DNAm) age as well as biological age using different methylation clocks.

Usage

```
get_references()
```

Format

A list with different data frame.

blood gse35069 complete methylation profiles from Reinus 2012 for purified blood cell types. It includes CD4T, CD8T, Mono,

blood gse35069 methylation profiles from Reinus 2012 for purified blood cell types. It includes CD4T, CD8T, Mono, Bcell, NK and Gran.

blood gse35069 chen methylation profiles from Chen 2017 blood cell types. It includes CD4T, CD8T, Mono, Bcell, NK, Neu and Eos.

andrews and bakulski cord blood Cord blood reference from Bakulski 2016. It includes Bcell, CD4T, CD8T, Gran, Mono, NK and nRBC.

cord blood gse68456 Cord blood methylation profiles from De 2015. It includes CD4T, CD8T, Mono, Bcell, NK, Neu, Eos and RBC.

gervin and lyle cord blood Cord blood reference generated by Kristina Gervin and Robert Lyle, available at 'miffil' package. It includes CD14, Bcell, CD4T, CD8T, NK, Gran.

saliva gse48472 Reference generated from the multi-tissue pannel from Slieker 2013. It includes Buccal, CD4T, CD8T, Mono, Bcell, NK, Gran.

Details

get_references returns the file with references data

Value

references dataset

Examples

```
get_references()
```

<code>get_TestDataset</code>	<i>TestDataset</i>
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Description

`get_TestDataset` returns `TestDataset`

Usage

```
get_TestDataset()
```

Value

`TestDataset` dataset

Examples

```
get_TestDataset()
```

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