

# Package ‘seqCNA.annot’

April 20, 2016

**Type** Package

**Title** Annotation for the copy number analysis of deep sequencing cancer data with seqCNA

**Version** 1.6.0

**Date** 2013-03-27

**Author** David Mosen-Ansorena

**Maintainer** David Mosen-Ansorena <dmosen.gn@cicbiogune.es>

**Import**

**Depends** R (>= 2.10)

**Description**

Provides annotation on GC content, mappability and genomic features for various genomes

**License** GPL-3

**biocViews** Genome, CopyNumberVariationData

**NeedsCompilation** no

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## Description

Provides annotation on GC content, mappability and genomic features for various genomes

## Details

|          |                           |
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| Package: | <code>seqCNA.annot</code> |
| Type:    | Package                   |
| Version: | 0.99.0                    |
| Date:    | 2013-03-27                |
| License: | GPL-3                     |

## Author(s)

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`hg18`

*A table with GC content, mappability and presence of common CNVs for the hg18 human genome build.*

## Description

GC content can be used for read count correction, while mappability and CNV information can be used for window filtering.

## Usage

```
data(hg18)
```

## Format

A data frame with 2881044 observations on the following 3 variables.

`GC` A numeric vector with the proportion of G and C bases per 1000bp window over the total of non-N bases.

`Mapp` A numeric vector with the mean mappability of 35-mers within each 1000bp window.

`CNV` A numeric vector with the proportion of each window affected by the presence of a common CNV (frequency > 0.01).

## References

Integrating common and rare genetic variation in diverse human populations. Altshuler DM, Gibbs RA, Brooks LD, McEwen JE. *Nature*. 2010 Sep 2; 467:52-8

## Examples

```
data(hg18)
```

---

*hg18\_len*

*A table with information on chromosome lengths for the hg18 human genome build.*

---

## Description

The table is used to create genomic windows for the whole chromosome lengths.

## Usage

```
data(hg18_len)
```

## Format

A data frame with 24 observations on the following 2 variables.

*chr* A factor with levels 1 10 11 12 13 14 15 16 17 18 19 2 20 21 22 3 4 5 6 7 8 9 X Y.

*length* A numeric vector.

## Examples

```
data(hg18_len)
```

---

*hg19*

*A table with GC content, mappability and presence of common CNVs for the hg19 human genome build.*

---

## Description

GC content can be used for read count correction, while mappability and CNV information can be used for window filtering.

## Usage

```
data(hg19)
```

## Format

A data frame with 2881044 observations on the following 3 variables.

**GC** A numeric vector with the proportion of G and C bases per 1000bp window over the total of non-N bases.

**Mapp** A numeric vector with the mean mappability of 35-mers within each 1000bp window.

**CNV** A numeric vector with the proportion of each window affected by the presence of a common CNV (frequency > 0.01).

## References

Integrating common and rare genetic variation in diverse human populations. Altshuler DM, Gibbs RA, Brooks LD, McEwen JE. *Nature*. 2010 Sep 2; 467:52-8

## Examples

```
data(hg19)
```

**hg19\_len**

*A table with information on chromosome lengths for the hg19 human genome build.*

## Description

The table is used to create genomic windows for the whole chromosome lengths.

## Usage

```
data(hg19_len)
```

## Format

A data frame with 24 observations on the following 2 variables.

**chr** A factor with levels 1 10 11 12 13 14 15 16 17 18 19 2 20 21 22 3 4 5 6 7 8 9 X Y.

**length** A numeric vector.

## Examples

```
data(hg19_len)
```

---

|                               |  |
|-------------------------------|--|
| <code>supported.builds</code> | <i>Names of the genome builds for which the package contains annotation.</i> |
|-------------------------------|--|

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**Description**

A vector with the names of the genome builds with annotation in the package.

**Usage**

```
supported.builds()
```

**Value**

A vector with the names of the genome builds with annotation in the package.

**Author(s)**

David Mosen-Ansorena

**Examples**

```
supported.builds()
```

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