Package 'CGHbase'

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Type Package

Title CGHbase: Base functions and classes for arrayCGH data analysis.

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Author Sjoerd Vosse, Mark van de Wiel

Maintainer Mark van de Wiel <mark.vdwiel@vumc.nl>

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Description Contains functions and classes that are needed by arrayCGH packages.

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Collate allGeneric.R classes.R private.R tools.R methods-cghRaw.R methods-cghSeg.R methods-cghCall.R methods-cghRegions.R

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Contents

CGHbase-package   *CGHbase: Base functions and classes for arrayCGH data analysis.*

Description

CGHbase: Base functions and classes for arrayCGH data analysis.

Details

Main infrastructural classes: cghRaw, cghSeg, cghCall. Full help on methods and associated functions is available from withing class help pages.

Attached data sets: Wilting, WiltingRaw, WiltingNorm, WiltingSeg, WiltingCalled.

Author(s)

Sjoerd Vosse <sjoerdvos@yahoo.com>

---

avedist	*Retrieve regions information from cghRegions object.*

Description

This function accesses the regions information stored in the featureData of an object derived from the `cghRegions-class`.

Usage

```
avedist(object)
nclone(object)
```

Arguments

object   Object derived from class `cghRegions`

Value

`avedist` returns a vector containing the Average L1-distance of clone signatures to the medoid signature; `nclone` returns a vector containing the number of clones that is included in each region;

Author(s)

Sjoerd Vosse

See Also

`cghRegions-class`

---

cghCall	*Class to contain and describe called array comparative genomic hybridization data.*

Description

Container for aCGH data and experimental metadata. cghCall class is derived from `eSet`, and requires the following matrices of equal dimension as assayData members:

- `copynumber`
- `segmented`
- `calls`
- `probloss`
- `probnorm`
- `probgain`

Furthermore, columns named `Chromosome`, `Start`, and `End` are required as featureData members, containing feature position information.

Extends

Directly extends class eSet.

Creating Objects

new('cghCall', phenoData = [AnnotatedDataFrame], experimentData = [MIAME], annotation
= [character], copynumber = [matrix], segmented = [matrix], calls = [matrix], probloss
= [matrix], probnorm = [matrix], probgain = [matrix], featureData = [AnnotatedDataFrame],
...)

An object of class cghCall is generally obtained as output from CGHcall.

Slots

Inherited from eSet:

assayData: Contains matrices with equal dimensions, and with column number equal to nrow(phenoData).
    assayData must contain the following matrices

  - copynumber
  - segmented
  - calls
  - probloss
  - probnorm
  - probgain

with rows represening array probes and columns representing samples. Additional matrices
of identical size (e.g., representing measurement errors) may also be included in assayData.
Class:AssayData-class

phenoData: See eSet

featureData: An AnnotatedDataFrame with columns Chromosome, Start, and End containing
    array element position data.

experimentData: See eSet

annotation: See eSet

Methods

Class-specific methods.

copynumber(cghCall), copynumber(cghCall,matrix)<- Access and set elements named copynumber
    in the AssayData-class slot.

segmented(cghCall), segmented(cghCall,matrix)<- Access and set elements named segmented
    in the AssayData-class slot.

calls(cghCall), calls(cghCall,matrix)<- Access and set elements named calls in the AssayData-class
    slot.

probloss(cghCall), probloss(cghCall,matrix)<- Access and set elements named probloss
    in the AssayData-class slot.

probnorm(cghCall), probnorm(cghCall,matrix)<- Access and set elements named probnorm
    in the AssayData-class slot.

probgain(cghCall), probgain(cghCall,matrix)<- Access and set elements named probgain in the AssayData-class slot.

chromosomes, bpstart, bpend Access the chromosomal positions stored in featureData

plot Create a plot containing log2ratios, segments and call probabilities ordered by chromosomal position. EXTRA OPTIONS PLUS DEFAULTS: dotres=10. Every dotres-th log2-ratio is plotted. dotres=1 plots all data. However, higher values save a lot of space and allow quicker browsing of the plots. ylimit=c(-5,5): limits of the y-axis. gaincol='green'; losscol='red';ampcol="darkgreen";dlcol="darkred": Colors used for gain, loss (bars) and amplifications, double loss (tick marks). build='GRCh37': build of humun genome used for determining positions of centromeres

plot.summary Create a plot summarizing the call probabilities of all samples

frequencyPlotCalls Create a frequency plot summarizing the calls of all samples

See eSet for derived methods.

Author(s)

Sjoerd Vosse

See Also

eSet-class, cghRaw-class, cghSeg-class

Examples

```
# create an instance of cghCall
new("cghCall")

# create an instance of cghCall through \code{\link{ExpandCGHcall}}
## Not run:
   data(Wilting)
   rawcgh <- make_cghSeg(Wilting)
   normalized <- normalize(rawcgh)
   segmented <- segmentData(normalized)
   perc.tumor <- rep(0.75, 3)
   listcalled <- CGHcall(segmented,cellularity=perc.tumor)
   called <- ExpandCGHcall(listcalled,segmented)

  # plot the first sample. Default only every 10th log2-ratio is plotted (dotres=10). Adjust using dotres= option be
   plot(called[,1])
   # plot the first chromosome of the first sample
   plot(called[chromosomes(called)==1,1])

   # get the copynumber values of the third and fourth sample
   log2ratios <- copynumber(called[,3:4])

   # get the names of the samples
   sampleNames(called)

   # get the names of the array elements
```

```
    featureNames(called)

## End(Not run)
```

---

cghRaw   *Class to contain and describe raw or normalized array comparative*
                                genomic hybridization data.

Description

Container for aCGH data and experimental metadata. cghRaw class is derived from [eSet](), and requires a matrix named copynumber as assayData member. Furthermore, columns named Chromosome, Start, and End are required as featureData members, containing feature position information.

Extends

Directly extends class [eSet]().

Creating Objects

new('cghRaw', phenoData = [AnnotatedDataFrame], experimentData = [MIAME], annotation = [character], copynumber = [matrix], featureData = [AnnotatedDataFrame], ...)

make_cghRaw is a function to convert a dataframe or textfile to an object of class cghRaw. The input should be either a dataframe or a tabseparated textfile (textfiles must contain a header). The first three columns should contain the name, chromosome and position in bp for each array target respectively. The chromosome and position column must contain numbers only. Following these is a column with log2 ratios for each of your samples. If the input type is a textfile, missing values should be represented as 'NA' or an empty field.

Slots

Inherited from eSet:

assayData: Contains matrices with equal dimensions, and with column number equal to nrow(phenoData). assayData must contain a matrix copynumber with rows represening array probes and columns representing samples. Additional matrices of identical size (e.g., representing measurement errors) may also be included in assayData. Class:[AssayData-class]()

phenoData: See [eSet]()

featureData: An [AnnotatedDataFrame]() with columns Chromosome, Start, and End containing array element position data.

experimentData: See [eSet]()

annotation: See [eSet]()

Methods

Class-specific methods.

copynumber(cghRaw), copynumber(cghRaw,matrix)<- Access and set elements named copynumber in the AssayData-class slot.

chromosomes, bpstart, bpend Access the chromosomal positions stored in featureData

plot Create a plot containing log2ratios ordered by chromosomal position

See [eSet](#) for derived methods. Annotation functionality is not yet supported.

Author(s)

Sjoerd Vosse

See Also

[eSet-class](#), [cghSeg-class](#), [cghCall-class](#)

Examples

```
# create an instance of cghRaw
new("cghRaw")

# create an instance of cghRaw from a dataframe
data(Wilting)
rawcgh <- make_cghRaw(Wilting)

# plot the first sample
plot(rawcgh[,1])
# first three chromosomes
plot(rawcgh[chromosomes(rawcgh)==1,1])

# get the copynumber values of the third and fourth sample
log2ratios <- copynumber(rawcgh[,3:4])

# get the names of the samples
sampleNames(rawcgh)

# get the names of the array elements
featureNames(rawcgh)
```

---

cghRegions   *Class to contain and describe array comparative genomic hybridization regions data.*

Description

Container for aCGH regions data and experimental metadata. cghRegions class is derived from
eSet, and requires a matrix named regions as assayData member. Furthermore, columns named
Chromosome, Start, End, Nclone, and Avedist are required as featureData members, containing
region and position information.

Extends

Directly extends class eSet.

Creating Objects

new('cghRegions', phenoData = [AnnotatedDataFrame], experimentData = [MIAME], annotation
= [character], regions = [matrix], featureData = [AnnotatedDataFrame], ...)

An object of this class is generally obtained by running the function CGHregions.

Slots

Inherited from eSet:

assayData: Contains matrices with equal dimensions, and with column number equal to nrow(phenoData).
    assayData must contain a matrix regions with rows represening regions and columns repre-
    senting samples. Additional matrices of identical size (e.g., representing measurement errors)
    may also be included in assayData. Class:AssayData

phenoData: See eSet

featureData: An AnnotatedDataFrame with columns Chromosome, Start, End, Nclone, and
    Avedist containing region and position information.

experimentData: See eSet

annotation: See eSet

Methods

Class-specific methods.

regions(cghRegions), regions(cghRegions,matrix)<- Access and set elements named regions
    in the AssayData-class slot.

chromosomes, bpstart, bpend, nclone, avedist Access the region and position information stored
    in featureData

plot.cghRegions Create a plot displaying chromosomes on the Y-axis and base pair position on the
    X-axis. A new region is displayed by a slight jump with respect to the previous region. Each
    region is displayed as a bi-colored segment, the lower and upper part of which correspond to
    the proportions pl and pg of samples with a loss (red) or gain (green), respectively. The color
    coding is displayed as well: 1: pl (pg) < 10%; 2: 10% = pl (pg) < 30%; 3:30% = pl (pg) <
    50%; 4: pl (pg) = 50%.

frequencyPlot Create a frequency plot

See eSet for derived methods. Annotation functionality is not yet supported.

Author(s)

Sjoerd Vosse

See Also

[eSet](), [cghRaw-class](), [cghSeg-class](), [cghCall-class]()

Examples

```
# create an instance of cghRegions
new("cghRegions")

# load an instance of cghRegions
data(WiltingRegions)

# plot all region data
plot(WiltingRegions)
# make a frequency plot
frequencyPlot(WiltingRegions)

# extract the region values
values <- regions(WiltingRegions)

# get the names of the samples
sampleNames(WiltingRegions)
```

---

cghSeg   *Class to contain and describe segmented array comparative genomic hybridization data.*

Description

Container for aCGH data and experimental metadata. cghSeg class is derived from [eSet](), and requires a matrix named copynumber as well as a matrix named segmented as assayData members of equal dimensions. Furthermore, columns named Chromosome, Start, and End are required as featureData members, containing feature position information.

Extends

Directly extends class [eSet]().

Creating Objects

new('cghSeg', phenoData = [AnnotatedDataFrame], experimentData = [MIAME], annotation = [character], copynumber = [matrix], segmented = [matrix], featureData = [AnnotatedDataFrame], ...)

An object of class cghSeg is generally obtained as output from [segmentData]().

Slots

Inherited from eSet:

assayData: Contains matrices with equal dimensions, and with column number equal to nrow(phenoData).
    assayData must contain matrices copynumber and segmented with rows represening array
    probes and columns representing samples. Additional matrices of identical size (e.g., repre-
    senting measurement errors) may also be included in assayData. Class:AssayData-class

phenoData: See eSet

featureData: An AnnotatedDataFrame with columns Chromosome, Start, and End containing
    array element position data.

experimentData: See eSet

annotation: See eSet

Methods

Class-specific methods.

copynumber(cghSeg), copynumber(cghSeg,matrix)<- Access and set elements named copynumber
    in the AssayData-class slot.

segmented(cghSeg), segmented(cghSeg,matrix)<- Access and set elements named segmented
    in the AssayData-class slot.

chromosomes, bpstart, bpend Access the chromosomal positions stored in featureData

plot Create a plot containing log2ratios and segments ordered by chromosomal position. TWO EX-
    TRA OPTIONS PLUS DEFAULTS: dotres=10. Every dotres-th log2-ratio is plotted. dotres=1
    plots all data. However, higher values save a lot of space and allow quicker browsing of the
    plots. ylimit=c(-2,5): limits of the y-axis

See eSet for derived methods.

Author(s)

Sjoerd Vosse

See Also

eSet-class, cghRaw-class, cghCall-class

Examples

```
# create an instance of cghSeg
new("cghSeg")

# create an instance of cghSeg through \code{segmentData}
## Not run:
   data(Wilting)
   rawcgh <- make_cghSeg(Wilting)
   normalized <- normalize(rawcgh)
   segmented <- segmentData(normalized)
```

```
    # plot the first sample. Default only every 10th log2-ratio is plotted (dotres=10). Adjust using dotres= option be
    plot(segmented[,1])
    # first three chromosomes
    plot(segmented[chromosomes(segmented)<=3,1])

    # get the copynumber values of the third and fourth sample
    log2ratios <- copynumber(segmented[,3:4])

    # get the names of the samples
    sampleNames(segmented)

    # get the names of the array elements
    featureNames(segmented)

## End(Not run)
```

---

chromosomes   *Retrieve feature position data from cgh objects.*

Description

These generic functions access the position data stored in the featureData of an object derived from the cghRaw-class, cghSeg-class or cghCall-class.

Usage

```
chromosomes(object)
bpstart(object)
bpend(object)
```

Arguments

object   Object derived from class cghRaw, cghSeg, or cghCall

Value

chromosomes returns a vector of chromosome numbers; bpstart returns a vector of basepair start positions; bpend returns a vector of basepair end positions;

Author(s)

Sjoerd Vosse

See Also

cghRaw-class, cghSeg-class, cghCall-class

---

copynumber   *Retrieve copynumber data from cgh objects.*

Description

These generic functions access the copynumber values of assay data stored in an object derived
from the cghRaw-class, cghSeg-class or cghCall-class.

Usage

```
copynumber(object)
copynumber(object) <- value
segmented(object)
segmented(object) <- value
calls(object)
calls(object) <- value
```

Arguments

object	Object derived from class cghRaw, cghSeg, or cghCall
value	Matrix with rows representing features and columns samples.

Value

copynumber returns a matrix of copynumber values;

Author(s)

Sjoerd Vosse

See Also

cghRaw-class, cghSeg-class, cghCall-class

Examples

```
data(WiltingCalled)
log2ratios <- copynumber(WiltingCalled)
segments <- segmented(WiltingCalled)
calls <- calls(WiltingCalled)
```

---

frequencyPlot   *Visualization of aCGH regions.*

Description

This function creates a frequency plot for aCGH regions.

Usage

```
frequencyPlot(x, y, ...)
```

Arguments

x   An object of class [cghRegions](#).

y   This argument is not used and should be missing.

...   Arguments plot.

Details

We find plotted on the x-axis the array probes sorted by chromosomal position. The vertical bars represent the frequency of gains and losses across your samples. The black bars represent gains, the gray bars represent losses.

Value

This function creates a plot.

Author(s)

Mark van de Wiel and Sjoerd Vosse

References

Mark A. van de Wiel and Wessel N. van Wieringen (2007). CGHregions: Dimension Reduction for Array CGH Data with Minimal Information Loss. *Cancer Informatics, 2*, 55-63.

Examples

```
 ## Not run:
  data(WiltingRegions)
  frequencyPlot(WiltingRegions)

## End(Not run)
```

---

frequencyPlotCalls   *Visualization of aCGH profiles.*

Description

This function creates a frequency plot for aCGH profiles.

Usage

```
frequencyPlotCalls(x,main='Frequency Plot', gaincol='blue', losscol='red', misscol=NA, build='GRCh37
```

Arguments

x   An object of class [cghCall](#).

main   Title of plot

gaincol   Color to use for gains

losscol   Color to use for losses

misscol   Missings

build   Build of Humane Genome.Either GRCh37, GRCh36, GRCh35 or GRCh34

...   Arguments plot.

Details

We find plotted on the x-axis the array probes sorted by chromosomal position. The vertical bars represent the frequency of gains or losses.

Value

This function creates a plot.

Author(s)

Sjoerd Vosse & Mark van de Wiel

References

Mark A. van de Wiel, Kyung In Kim, Sjoerd J. Vosse, Wessel N. van Wieringen, Saskia M. Wilting and Bauke Ylstra. CGHcall: calling aberrations for array CGH tumor profiles. *Bioinformatics, 23*, 892-894.

Examples

```
## Not run:
 data(Wilting)
 rawcgh <- make_cghSeg(Wilting)
 normalized <- normalize(rawcgh)
 segmented <- segmentData(normalized)
 called <- CGHcall(segmented,cellularity= rep(0.75, 3))
 frequencyPlotCalls(called)

## End(Not run)
```

---

make_cghRaw   *Convert a dataframe or textfile to an object of class cghRaw.*

Description

This function converts a dataframe of appropriote format to an object of class cghRaw.

Usage

```
make_cghRaw(input)
```

Arguments

input   Either a dataframe or character string containing a filename. See details for the
                 format.

Details

The input should be either a dataframe or a tabseparated textfile (textfiles must contain a header).
The first four columns should contain the name, chromosome and the start and end position in bp
for each array target respectively. The chromosome and position column must contain numbers
only. Following these is a column with log2 ratios for each of your samples. If the input type is a
textfile, missing values should be represented as 'NA' or an empty field.

Value

This function returns an object of class cghRaw-class.

Author(s)

Sjoerd Vosse & Mark van de Wiel

Examples

```
data(Wilting)
## Convert to \code{\link{cghRaw}} object
cgh <- make_cghRaw(Wilting)
```

---

plot.cghRaw   *Plot aCGH data.*

Description

Please see the class descriptions for more details on the plot functions.

Usage

```
   ## S3 method for class 'cghRaw'
plot(x, y, ...)
   ## S3 method for class 'cghSeg'
plot(x, y, ...)
   ## S3 method for class 'cghCall'
plot(x, y, ...)
   ## S3 method for class 'cghRegions'
plot(x, y, ...)
```

Arguments

x   An object of class [cghRaw](), [cghSeg](), [cghCall](), or [cghSeg]().

y   This argument is not used and should be missing.

...   Arguments plot.

Author(s)

Sjoerd Vosse

See Also

[cghRaw-class](), [cghSeg-class](), [cghCall-class](), [cghRegions-class]()

---

probloss   *Retrieve call probabilities from a cghCall object.*

Description

These generic functions access the call probabilities from assay data stored in a object derived from
the [cghCall-class]().

Usage

```
probdloss(object)
probdloss(object) <- value
probloss(object)
probloss(object) <- value
probnorm(object)
probnorm(object) <- value
probgain(object)
probgain(object) <- value
probamp(object)
probamp(object) <- value
```

Arguments

object	Object derived from class cghCall
value	Matrix with rows representing features and columns samples.

Value

probloss returns matrix of call probabilities;

Author(s)

Sjoerd Vosse

See Also

[cghCall-class](#)

---

regions   *Retrieve regions data from cghRegions object.*

Description

This function accesses the regions values of assay data stored in an object derived from the [cghRegions-class](#).

Usage

```
regions(object)
regions(object) <- value
```

Arguments

object	Object derived from class cghRegions
value	Matrix with rows representing features and columns samples.

Value

regions returns a matrix of regions values;

Author(s)

Sjoerd Vosse

See Also

[cghRegions-class](#)

---

summaryPlot   *Visualization of aCGH profiles.*

Description

This function creates a summary plot for aCGH profiles.

Usage

```
summaryPlot(x,main='Summary Plot', gaincol='blue', losscol='red', misscol=NA, build='GRCh37', ...)
```

Arguments

x	An object of class [cghCall](#).
main	Title of plot
gaincol	Color to use for gains
losscol	Color to use for losses
misscol	Missings
build	Build of Humane Genome.Either GRCh37, GRCh36, GRCh35 or GRCh34
...	Arguments plot.

Details

We find plotted on the x-axis the array probes sorted by chromosomal position. The vertical bars represent the average probability that the positions they cover are gained (green bars) or lost (red bars). The green bars represent gains, the red bars represent losses.

Value

This function creates a plot.

Author(s)

Sjoerd Vosse & Mark van de Wiel

References

Mark A. van de Wiel, Kyung In Kim, Sjoerd J. Vosse, Wessel N. van Wieringen, Saskia M. Wilting and Bauke Ylstra. CGHcall: calling aberrations for array CGH tumor profiles. *Bioinformatics, 23*, 892-894.

Examples

```
  ## Not run:
  data(Wilting)
   rawcgh <- make_cghSeg(Wilting)
   normalized <- normalize(rawcgh)
   segmented <- segmentData(normalized)
   called <- CGHcall(segmented,cellularity= rep(0.75, 3))
   summaryPlot(called)

## End(Not run)
```

Wilting   *Cervical cancer arrayCGH data*

Description

A dataframe containing 4709 rows and 8 columns with arrayCGH data.

Usage

```
Wilting
```

Format

A dataframe containing the following 8 columns:

Name The unique identifiers of array elements.

Chromosome Chromosome number of each array element.

Position Chromosomal position in bp of each array element.

AdCA10 Raw log2 ratios for cervical cancer sample AdCA10.

SCC27 Raw log2 ratios for cervical cancer sample SCC27.

SCC32 Raw log2 ratios for cervical cancer sample SCC32.

SCC36 Raw log2 ratios for cervical cancer sample SCC36.

SCC39 Raw log2 ratios for cervical cancer sample SCC39.

Source

Wilting, S.M., Snijders, P.J., Meijer, G.A., Ylstra, B., van den IJssel, P.R., Snijders, A.M., Albertson, D.G., Coffa, J., Schouten, J.P., van de Wiel, M.A., Meijer, C.J., & Steenbergen, R.D. (2006). Increased gene copy numbers at chromosome 20q are frequent in both squamous cell carcinomas and adenocarcinomas of the cervix. *Journal of Pathology, 210*, 258-259.

WiltingCalled   *Cervical cancer arrayCGH data called with CGHcall*

Description

Cervical cancer arrayCGH data called with `CGHcall` with default settings, containing 3552 features for 5 samples.

Usage

```
WiltingCalled
```

Format

An object of class `cghCall`

Source

Wilting, S.M., Snijders, P.J., Meijer, G.A., Ylstra, B., van den IJssel, P.R., Snijders, A.M., Albertson, D.G., Coffa, J., Schouten, J.P., van de Wiel, M.A., Meijer, C.J., & Steenbergen, R.D. (2006). Increased gene copy numbers at chromosome 20q are frequent in both squamous cell carcinomas and adenocarcinomas of the cervix. *Journal of Pathology, 210*, 258-259.

Mark A. van de Wiel, Kyung In Kim, Sjoerd J. Vosse, Wessel N. van Wieringen, Saskia M. Wilting and Bauke Ylstra. CGHcall: calling aberrations for array CGH tumor profiles. *Bioinformatics, 23*, 892-894.

WiltingNorm   *Normalized log2 ratios from cervical cancer arrayCGH data.*

Description

Normalized log2 ratios frm cervical cancer arrayCGH data, containing 3552 features for 5 samples. These data have been normalized using the `normalize` function with default settings.

Usage

```
WiltingCalled
```

Format

An object of class `cghRaw`.

Source

Wilting, S.M., Snijders, P.J., Meijer, G.A., Ylstra, B., van den IJssel, P.R., Snijders, A.M., Albertson, D.G., Coffa, J., Schouten, J.P., van de Wiel, M.A., Meijer, C.J., & Steenbergen, R.D. (2006). Increased gene copy numbers at chromosome 20q are frequent in both squamous cell carcinomas and adenocarcinomas of the cervix. *Journal of Pathology, 210*, 258-259.

WiltingRaw   *Raw log2 ratios from cervical cancer arrayCGH data.*

Description

Raw log2 ratios from cervical cancer arrayCGH data, containing 3552 features for 5 samples. These data have been preprocessed using `preprocess`.

Usage

```
WiltingCalled
```

Format

An object of class `cghRaw`.

Source

Wilting, S.M., Snijders, P.J., Meijer, G.A., Ylstra, B., van den IJssel, P.R., Snijders, A.M., Albertson, D.G., Coffa, J., Schouten, J.P., van de Wiel, M.A., Meijer, C.J., & Steenbergen, R.D. (2006). Increased gene copy numbers at chromosome 20q are frequent in both squamous cell carcinomas and adenocarcinomas of the cervix. *Journal of Pathology, 210*, 258-259.

WiltingRegions   *Regions of cervical cancer arrayCGH data as defined by CGHregions*

Description

Regions of cervical cancer arrayCGH data as defined by `CGHregions` with default settings, containing 90 regions over 5 samples.

Usage

```
WiltingRegions
```

Format

An object of class `cghRegions`

Source

Wilting, S.M., Snijders, P.J., Meijer, G.A., Ylstra, B., van den IJssel, P.R., Snijders, A.M., Albertson, D.G., Coffa, J., Schouten, J.P., van de Wiel, M.A., Meijer, C.J., & Steenbergen, R.D. (2006). Increased gene copy numbers at chromosome 20q are frequent in both squamous cell carcinomas and adenocarcinomas of the cervix. *Journal of Pathology, 210*, 258-259.

Mark A. van de Wiel and Wessel N. van Wieringen (2007). CGHregions: Dimension Reduction for Array CGH Data with Minimal Information Loss. *Cancer Informatics, 2*, 55-63.

WiltingSeg   *Segmented log2 ratios from cervical cancer arrayCGH data.*

Description

Segmented log2 ratios from cervical cancer arrayCGH data, containing 3552 features for 5 samples. These data have been segmented using segmentData with default settings.

Usage

```
WiltingCalled
```

Format

An object of class cghSeg.

Source

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