

Package ‘myFun’

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Type Package

Title myFun is a Collection of My Favourite R Functions, Packaged for Simplicity

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Description My utility functions for R.

URL <https://github.com/tlesluyes/myFun>

BugReports <https://github.com/tlesluyes/myFun/issues>

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Encoding UTF-8

LazyData true

Depends R (>= 3.4.0)

Imports doParallel,
foreach,
GenomeInfoDb,
GenomicRanges,
IRanges,
networkD3,
rvest,
S4Vectors,
stats,
utils

Suggests XVector

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

R topics documented:

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adjustPositions	<i>adjustPositions</i>
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Description

Adjust genomic positions

Usage

```
adjustPositions(
  DF,
  CHRsize,
  chr_column = "chr",
  start_column = "start",
  end_column = "end",
  suffix = "_adj"
)
```

Arguments

DF	a data.frame
CHRsize	a data.frame from the load_CHRsize function
chr_column	a column name with chromosome information (default: "chr")
start_column	a column name with start position (default: "start")
end_column	a column name with end position (default: "end")
suffix	a suffix for the adjusted positions (default: "_adj")

Details

This function adjusts genomic positions according to the chromosome sizes. The first nucleotide of chromosome 2 corresponds to the size of the chromosome 1 + 1bp and so on.

Value

A data.frame with adjusted genomic positions

Author(s)

tlesluyes

Examples

```
DF=data.frame(chr=c(1:3), start=rep(1e6, 3), end=rep(125e6, 3))
load_CHRsize("hg19")
adjustPositions(DF, CHRsize)
```

BED_metrics

BED_metrics

Description

Give BED metrics

Usage

```
BED_metrics(BED, verbose = TRUE)
```

Arguments

BED	a data.frame, a GRanges object or a path to a BED file
verbose	a boolean, whether to print metrics (default: TRUE)

Details

This function provides several metrics of interest from a BED file/object.

Value

A named list of metrics (number of chromosomes, number of regions and total size of the regions) before and after removing overlaps (GenomicRanges::reduce()). Strand information is not considered

Author(s)

tlesluyes

Examples

```
# BED format is 0-based for starts!
BED=data.frame(chr=c(c(1,1:3)), start=c(0, 1e3, 0, 1e3), end=c(2e3, 5e3, 2e3, 4e3))
BED_metrics(BED)
```

checkGRlist

*checkGRlist***Description**

Check that the given object is a list of GRanges objects

Usage

```
checkGRlist(myGRList)
```

Arguments

myGRList	a list of GRanges objects
----------	---------------------------

Details

This function checks that the given object is a list of GRanges objects.

Value

TRUE if the input is a list of GRanges objects

Author(s)

tlesluyes

Examples

```
GR1=GenomicRanges::GRanges(seqnames="1", ranges=IRanges::IRanges(start=1, end=1000))
GR2=GenomicRanges::GRanges(seqnames="1", ranges=IRanges::IRanges(start=10, end=2000))
checkGRlist(list(GR1, GR2))
```

computeBAF

*computeBAF***Description**

Compute the theoretical BAF values for a given segment

Usage

```
computeBAF(nMajor, nMinor, purity, digits = 4)
```

Arguments

nMajor	the number of copies of the major allele
nMinor	the number of copies of the minor allele
purity	the purity estimate of the tumour
digits	a numeric, the number of digits to round to (default: 4)

Details

This function computes the theoretical BAF values for a given segment (from nMajor, nMinor and purity values).

Value

A vector of two numbers representing the BAF values

Author(s)

tlesluyes

See Also

<https://doi.org/10.1038/s41592-020-01013-2>

Examples

```
# A 2+1 state in a tumour with 90% purity
computeBAF(2, 1, 0.9)
# A 1+0 state in a tumour with 60% purity
computeBAF(1, 0, 0.6)
```

computeFit

computeFit

Description

Compute the purity/ploidy fit for a given segment

Usage

```
computeFit(logR, BAF, nMajor, nMinor, gamma, digits = 4)
```

Arguments

logR	the logR value of the segment
BAF	the BAF value of the segment (upper band only so the value should be in the 0.5-1 space)
nMajor	the number of copies of the major allele
nMinor	the number of copies of the minor allele
gamma	the gamma parameter is platform-dependent and represents the expected logR decrease in a diploid sample where one copy is lost (should be 1 for HTS data and 0.55 for SNP arrays)
digits	a numeric, the number of digits to round to (default: 4)

Details

This function computes the purity/ploidy fit (ρ , ψ and ψ_{fit}) for a given segment (from logR, BAF, proposed nMajor and proposed nMinor).

Value

A list with the rho (=purity), psi (=total ploidy) and psit (=tumour ploidy) values

Author(s)

tlesluyes

See Also

<https://doi.org/10.1038/s41592-020-01013-2>

Examples

```
# A segment has logR=0.5361 and BAF=0.3448/0.6552
# What is the purity/ploidy fit if I believe that the segment is 2+1?
computeFit(0.5361, 0.6552, 2, 1, 1) # purity=90%; ploidy=2
```

computeISA

computeISA

Description

Compute the inter-sample agreement (ISA)

Usage

```
computeISA(GR1, GR2, CNstatus = "CNstatus")
```

Arguments

GR1	a GRanges object corresponding to a single CNA profile
GR2	a GRanges object corresponding to a single CNA profile
CNstatus	a metadata column name for the copy-number status (default: "CNstatus"). Can be total (e.g. "3") or allele-specific (e.g. "2+1")

Details

This function computes the inter-sample agreement (ISA) between two profiles (as GRanges objects). This corresponds to the fraction of the genome (%) with the same CN status.

Value

A percentage representing the ISA

Author(s)

tlesluyes

Examples

```

GR1=GenomicRanges::GRanges(seqnames=rep("1", 3),
                           ranges=IRanges::IRanges(start=c(1, 1001, 10001),
                                                   end=c(1000, 10000, 20000)),
                           CNstatus=c("1+1", "2+1", "1+1"))
GR2=GenomicRanges::GRanges(seqnames=rep("1", 2),
                           ranges=IRanges::IRanges(start=c(500, 10001),
                                                   end=c(10000, 25000)),
                           CNstatus=c("2+1", "1+1"))
# in this example:
#   Region 500-1000 (size=501) is 1+1 for GR1 and 2+1 for GR2
#   Region 1001-20000 (size=19000) is identical between GR1 and GR2 (both 2+1 and 1+1)
#   ISA is: 19000/19501 = 97.43%
computeISA(GR1, GR2)

```

computeISA_batch

computeISA_batch

Description

Compute the inter-sample agreement (ISA) for a batch of samples

Usage

```
computeISA_batch(myGRLList, cores = 1, min_seg_size = 0, CNstatus = "CNstatus")
```

Arguments

myGRLList	a list of GRanges objects, each object should correspond to one CNA profile
cores	a numeric, the number of cores to use (default: 1)
min_seg_size	a numeric, the minimum segment size (in bp) to consider (default: 0)
CNstatus	a metadata column name for the copy-number status (default: "CNstatus"). Can be total (e.g. "3") or allele-specific (e.g. "2+1")

Details

This function computes the inter-sample agreement (ISA) between multiple profiles (as a list of GRanges objects).

Value

A matrix of ISA values

Author(s)

tlesluyes

Examples

```
GR1=GenomicRanges::GRanges(seqnames=rep("1", 3),
                           ranges=IRanges::IRanges(start=c(1, 1001, 10001),
                           end=c(1000, 10000, 20000)),
                           CNstatus=c("1+1", "2+1", "1+1"))
GR2=GenomicRanges::GRanges(seqnames=rep("1", 2),
                           ranges=IRanges::IRanges(start=c(500, 10001),
                           end=c(10000, 25000)),
                           CNstatus=c("2+1", "1+1"))
GR3=GenomicRanges::GRanges(seqnames="1",
                           ranges=IRanges::IRanges(start=500,
                           end=25000),
                           CNstatus="1+1")
myGRList=list(GR1, GR2, GR3)
names(myGRList)=c("GR1", "GR2", "GR3")
computeISA_batch(myGRList)
```

computeLogR

computeLogR

Description

Compute the theoretical logR value for a given segment

Usage

```
computeLogR(nMajor, nMinor, purity, ploidy, digits = 4)
```

Arguments

nMajor	the number of copies of the major allele
nMinor	the number of copies of the minor allele
purity	the purity estimate of the tumour
ploidy	the ploidy estimate of the tumour
digits	a numeric, the number of digits to round to (default: 4)

Details

This function computes the theoretical logR value for a given segment (from nMajor, nMinor, purity and ploidy values). Since logR isn't allele-specific, ntot can be used instead of nMajor (and nMinor should set to 0).

Value

A number representing the logR value

Author(s)

tlesluyes

See Also

<https://doi.org/10.1038/s41592-020-01013-2>

Examples

```
# A 2+1 state in a diploid tumour with 90% purity  
computeLogR(2, 1, 0.9, 2)  
# A loss of 1 copy (2+1) in a pseudo-tetraploid tumour with 60% purity  
computeLogR(2, 1, 0.6, 3.5)
```

computeMD

computeMD

Description

Compute the Manhattan distance (MD)

Usage

```
computeMD(GR1, GR2, nMajor = "nMajor", nMinor = "nMinor", convertMb = FALSE)
```

Arguments

GR1	a GRanges object corresponding to a single CNA profile
GR2	a GRanges object corresponding to a single CNA profile
nMajor	a metadata column name for the major allele (default: "nMajor")
nMinor	a metadata column name for the minor allele (default: "nMinor")
convertMb	a boolean, the MD will be converted to megabases if set to TRUE (default: FALSE)

Details

This function computes the Manhattan distance (MD) between two profiles (as GRanges objects).

Value

A numeric value representing the MD

Author(s)

tlesluyes

Examples

```
GR1=GenomicRanges::GRanges(seqnames=rep("1", 3),
                           ranges=IRanges::IRanges(start=c(1, 1001, 10001),
                           end=c(1000, 10000, 20000)),
                           nMajor=c(1, 2, 1),
                           nMinor=c(1, 1, 1))
GR2=GenomicRanges::GRanges(seqnames=rep("1", 2),
                           ranges=IRanges::IRanges(start=c(500, 10001),
                           end=c(10000, 25000)),
                           nMajor=c(2, 1),
                           nMinor=c(1, 1))

# in this example:
#   Region 500-1000 (size=501) is 1+1 for GR1 and 2+1 for GR2
#   Region 1001-20000 (size=19000) is identical between GR1 and GR2 (both 2+1 and 1+1)
#   MD is: (abs(2-1)+abs(1-1))*501 = 501
computeMD(GR1, GR2)
```

`computeMD_batch`

computeMD_batch

Description

Compute the Manhattan distance (MD) for a batch of samples

Usage

```
computeMD_batch(
  myGRLList,
  cores = 1,
  min_seg_size = 0,
  nMajor = "nMajor",
  nMinor = "nMinor",
  convertMb = FALSE
)
```

Arguments

<code>myGRLList</code>	a list of GRanges objects, each object should correspond to one CNA profile
<code>cores</code>	a numeric, the number of cores to use (default: 1)
<code>min_seg_size</code>	a numeric, the minimum segment size (in bp) to consider (default: 0)
<code>nMajor</code>	a metadata column name for the major allele (default: "nMajor")
<code>nMinor</code>	a metadata column name for the minor allele (default: "nMinor")
<code>convertMb</code>	a boolean, the MD will be converted to megabases if set to TRUE (default: FALSE)

Details

This function computes the Manhattan distance (MD) between multiple profiles (as a list of GRanges objects).

Value

A matrix of MD values

Author(s)

tlesluyes

Examples

```
GR1=GenomicRanges::GRanges(seqnames=rep("1", 3),
                           ranges=IRanges::IRanges(start=c(1, 1001, 10001),
                           end=c(1000, 10000, 20000)),
                           nMajor=c(1, 2, 1),
                           nMinor=c(1, 1, 1))
GR2=GenomicRanges::GRanges(seqnames=rep("1", 2),
                           ranges=IRanges::IRanges(start=c(500, 10001),
                           end=c(10000, 25000)),
                           nMajor=c(2, 1),
                           nMinor=c(1, 1))
GR3=GenomicRanges::GRanges(seqnames="1",
                           ranges=IRanges::IRanges(start=500,
                           end=25000),
                           nMajor=1,
                           nMinor=1)
myGRLList=list(GR1, GR2, GR3)
names(myGRLList)=c("GR1", "GR2", "GR3")
computeMD_batch(myGRLList)
```

`excludeGRanges`

excludeGRanges

Description

Exclude GRanges regions

Usage

```
excludeGRanges(GR.ref, GR.toremove)
```

Arguments

<code>GR.ref</code>	a GRanges object to be filtered
<code>GR.toremove</code>	a GRanges object containing regions to exclude

Details

This function excludes GRanges regions from a reference GRanges object.

Value

A filtered GRanges object

Author(s)

tlesluyes

Examples

```
GR1 <- GenomicRanges::GRanges(seqnames = rep(1, 2),
                               ranges=IRanges::IRanges(start=c(1, 5e5+1), end=c(5e5, 1e6)),
                               score=c(3, 2))
GR2 <- GenomicRanges::GRanges(seqnames = 1,
                               ranges=IRanges::IRanges(start=4e5+1, end=6e5))
excludeGRanges(GR1, GR2)
```

generate_cytoband_and_CHRsize
generate_cytoband_and_CHRsize

Description

Generate cytoband and CHRsize information

Usage

```
generate_cytoband_and_CHRsize(cytoband_file)
```

Arguments

cytoband_file a cytoband file

Details

This function generates cytoband and CHRsize information from a cytoband file. This can be obtained from the UCSC table browser -> select a genome/assembly -> "Mapping and Sequencing" -> "Chromosome Band" (not the ideogram version!) -> "get output" -> Remove the first "#" character (keep the header!).

Value

A list with both the cytoband and CHRsize information

Author(s)

tlesluyes

See Also

```
load_CHRsize("hg38"); load_cytoband("hg38")
```

<code>get_all_paths</code>	<code>get_all_paths</code>
----------------------------	----------------------------

Description

Get all possible paths between two copy-number states

Usage

```
get_all_paths(start, end, WGD, max_path_size = 5, simplify = TRUE)
```

Arguments

<code>start</code>	a vector of length 2 (representing a copy-number state; e.g. <code>c(1, 1)</code> represents a 1+1 state), defining where to start
<code>end</code>	a vector of length 2 (representing a copy-number state; e.g. <code>c(1, 1)</code> represents a 1+1 state), defining where to end
<code>WGD</code>	a boolean defining if WGD events are allowed
<code>max_path_size</code>	an integer defining the maximum path size
<code>simplify</code>	a boolean defining if consecutive and opposite alterations (e.g. +1/+0 and then -1/-0) are allowed

Details

This function returns all possible paths between two copy-number states. The expected input is allele-specific (with two values), but it can be used for total copy-number by setting `c(ntot, 0)`. Possible events include: +1/+0 (gain of the major allele), -1/-0 (loss of the major allele), +0/+1 (gain of the minor allele), -0/-1 (loss of the minor allele) and WGD.

Value

A vector of all possible paths given as characters (separator=";")

Author(s)

tlesluyes

Examples

```
# Diploid baseline (1+1) turns into 2+1
print(get_all_paths(start=c(1, 1), end=c(2, 1), WGD=TRUE))
# Chromosome X in males (1+0) is gained (5 copies)
print(get_all_paths(start=c(1, 0), end=c(5, 0), WGD=TRUE))
```

<code>get_shortest_path</code>	<i>get_shortest_path</i>
--------------------------------	--------------------------

Description

Get the shortest path among several

Usage

```
get_shortest_path(paths, wanted_WGD = NA, count_WGD = FALSE)
```

Arguments

<code>paths</code>	all possible paths to consider
<code>wanted_WGD</code>	a numeric value defining the number of WGD events wanted (can be NA to allow for any possibility, including no event at all; default: NA)
<code>count_WGD</code>	a boolean defining if the number of WGD events should be counted (default: FALSE)

Details

This function returns the shortest possible path. It should be used after running the `get_all_paths` function or can be used as long as the input format is correct.

Value

A numeric value representing the minimal number of events, its name represents the full path

Author(s)

tlesluyes

Examples

```
# Diploid baseline (1+1) turns into 2+1
print(get_shortest_path(get_all_paths(start=c(1, 1), end=c(2, 1), WGD=TRUE)))
# Chromosome X in males (1+0) is gained (5 copies)
print(get_shortest_path(get_all_paths(start=c(1, 0), end=c(5, 0), WGD=TRUE)))
```

<code>harmonizeGRanges</code>	<i>harmonizeGRanges</i>
-------------------------------	-------------------------

Description

Harmonize GRanges objects

Usage

```
harmonizeGRanges(myGRLList, cores = 1)
```

Arguments

myGRLList	a list of GRanges objects, each object should correspond to one CNA profile
cores	a numeric, the number of cores to use (default: 1)

Details

This function harmonizes GRanges objects by keeping only regions covered by all samples.

Value

A list of harmonized GRanges objects

Author(s)

tlesluyes

Examples

```
GR1=GenomicRanges::GRanges(seqnames="1",
                           ranges=IRanges::IRanges(start=1, end=1000),
                           nMajor=1, nMinor=1)
GR2=GenomicRanges::GRanges(seqnames="1",
                           ranges=IRanges::IRanges(start=10, end=2000),
                           nMajor=2, nMinor=1)
harmonizeGRanges(list(GR1, GR2))
```

load_CHRsize

load_CHRsize

Description

Load CHRsize information

Usage

```
load_CHRsize(assembly)
```

Arguments

assembly	an assembly (hg19 or hg38)
----------	----------------------------

Details

This function loads CHRsize information for a given assembly. It is then available as a data.frame called CHRsize in the environment.

Value

A data.frame with the CHRsize information

Author(s)

tlesluyes

Examples

```
load_CHRsize("hg38"); head(CHRsize)
```

load_cytoband

load_cytoband

Description

Load cytoband information

Usage

```
load_cytoband(assembly)
```

Arguments

assembly	an assembly (hg19 or hg38)
----------	----------------------------

Details

This function loads cytoband information for a given assembly. It is then available as a data.frame called cytoband in the environment.

Value

A data.frame with the cytoband information

Author(s)

tlesluyes

Examples

```
load_cytoband("hg38"); head(cytoband)
```

occurrenceGRanges

occurrenceGRanges

Description

Get the occurrence of events

Usage

```
occurrenceGRanges(myGRLList, myMetadata)
```

Arguments

myGRLList	a list of GRanges objects, each object should correspond to one CNA profile
myMetadata	a vector of metadata to consider

Details

This function gets the occurrence of events in a list of GRanges objects. All objects must have the same metadata columns and metadata must be TRUE/FALSE.

Value

A GRanges object with nSamples as the total number of samples and metadata columns with the occurrence of events

Author(s)

tlesluyes

Examples

```
GR1=GenomicRanges::GRanges(seqnames="1",
                           ranges=IRanges::IRanges(start=1, end=1000),
                           Gain=TRUE, Loss=FALSE)
GR2=GenomicRanges::GRanges(seqnames="1",
                           ranges=IRanges::IRanges(start=10, end=2000),
                           Gain=FALSE, Loss=TRUE)
occurrenceGRanges(list(GR1, GR2), c("Gain", "Loss"))
```

`reestimate_ploidy` *reestimate_ploidy*

Description

Compute the re-estimated ploidy for a given sample

Usage

```
reestimate_ploidy(rho.old, psit.old, rho.new, WGD, digits = 4)
```

Arguments

<code>rho.old</code>	old purity estimate
<code>psit.old</code>	old ploidy estimate
<code>rho.new</code>	new purity estimate
<code>WGD</code>	number of WGD events (0 if there is no WGD)
<code>digits</code>	a numeric, the number of digits to round to (default: 4)

Details

This function computes the re-estimated ploidy for a given sample (from its old purity/ploidy fit and the re-estimated purity).

Value

A number representing the re-estimated ploidy

Author(s)

tlesluyes

Examples

```
# A pseudo-diploid sample has purity=74% and ploidy=2.4
# What is the re-estimated ploidy if I believe that the sample has purity=61%?
reestimate_ploidy(0.74, 2.4, 0.61, 0)
```

`reestimate_purity` *reestimate_purity*

Description

Compute the re-estimated purity for a given sample

Usage

```
reestimate_purity(rho.old, psit.old, switch, digits = 4)
```

Arguments

<code>rho.old</code>	old purity estimate
<code>psit.old</code>	old ploidy estimate
<code>switch</code>	a character ("double" or "halve") indicating whether the ploidy should be doubled or halved
<code>digits</code>	a numeric, the number of digits to round to (default: 4)

Details

This function computes the re-estimated purity for a given sample in the context of a jump in ploidy (so the matched ploidy needs to be doubled or halved).

Value

A number representing the re-estimated purity

Author(s)

tlesluyes

Examples

```
# A sample has purity=74% and ploidy=2.4 but the CNA profile needs to be doubled
# What is the re-estimated purity?
reestimate_purity(0.74, 2.4, "double")
```

RpackageDependencies RpackageDependencies

Description

Show the package dependencies

Usage

```
RpackageDependencies(  
  customFolder = NULL,  
  customDependencyTypes = NULL,  
  customColours = NULL,  
  simplifyNetwork = TRUE,  
  saveFile = NULL  
)
```

Arguments

customFolder a vector of folder names (default: NULL; .libPaths() is used)
customDependencyTypes a vector of dependency types, possible values are: "Depends", "Imports", "LinkingTo", "Suggests" and "Enhances" (default: c("Depends", "Imports", "LinkingTo"))
customColours a named vector of colours. Names must correspond to the dependency types and values must be valid colours (default: NULL; an internal colour scheme is used)
simplifyNetwork a boolean defining if the network should be simplified, i.e. the R base packages are removed (default: TRUE)
saveFile a string defining the name of the HTML file where the network should be saved (default: NULL; no file is saved)

Details

Given a folder of R packages, this function reads the DESCRIPTION files of the installed packages and shows their dependencies.

Value

A list with nodes (a data.frame of R packages), links (a data.frame of package dependencies) and plot (a network plot using networkD3)

Author(s)

tlesluyes

Examples

```
myDep=RpackageDependencies()  
print(head(myDep$nodes))  
print(head(myDep$links))
```

Rpackages

*Rpackages***Description**

List installed packages and determine their source

Usage

```
Rpackages(
  CRAN_URL = "http://cran.us.r-project.org",
  Bioconductor_URL = "https://www.bioconductor.org/packages/release/bioc/"
)
```

Arguments

CRAN_URL	the CRAN URL (default: "http://cran.us.r-project.org")
Bioconductor_URL	the Bioconductor URL (default: "https://www.bioconductor.org/packages/release/bioc/")

Details

This function lists installed packages and determine whether they are base packages or come from CRAN/Bioconductor or if they are external (GitHub, SourceForge, etc.). This function requires an internet connection.

Value

A data.frame with the installed packages and an additional column: Source (possible values: Base, CRAN, Bioconductor, External)

Author(s)

tlesluyes

Examples

```
head(Rpackages())
```

splitDF

*splitDF***Description**

Split a data.frame

Usage

```
splitDF(DF, chunks, shuffle = FALSE, seed = 1234)
```

Arguments

DF	a data.frame to split
chunks	a number of chunks to obtain
shuffle	a boolean, whether to shuffle the data.frame before splitting (default: FALSE)
seed	a number, the seed for the random number generator (default: 1234)

Details

This function splits a data.frame into a list of data.frames.

Value

A list of data.frames

Author(s)

tlesluyes

Examples

```
DF=data.frame(a=1:26, b=letters)
splitDF(DF, 3)
```

summarise_segmentation *summarise_segmentation*

Description

Summarise segmentation data

Usage

```
summarise_segmentation(DF, col_chr, col_start, col_end, col_values)
```

Arguments

DF	a data.frame with segmentation data
col_chr	a string, the name of the column containing the chromosome
col_start	a string, the name of the column containing the start position
col_end	a string, the name of the column containing the end position (can be the same as col_start for SNP-based segmentation where start=end)
col_values	a vector of strings, the names of the columns containing the values of interest (logR, BAF, etc.)

Details

This function summarises segmentation data, typically logR and/or BAF values for individual SNPs or loci.

Value

A named list with segments being a data.frame with the summarised information and IDs being a list of SNPs/loci associated with the different segments

Author(s)

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Examples

```
DF=data.frame(chr=c(rep("chr1", 10),rep("chr2", 6)),
              pos=c(1:10*1e3, 1:6*1e3),
              logR=c(rep(0, 4), rep(0.54, 3), rep(0, 3), rep(-0.86, 3), rep(0, 3)),
              BAF=c(rep(0.5, 4), rep(0.34, 3), rep(0.5, 3), rep(0.09, 3), rep(0.5, 3)),
              row.names=paste0("SNP_", 1:16))
DF
summarise_segmegration(DF, "chr", "pos", "pos", c("logR", "BAF"))
```

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