

# Package ‘Site2Target’

July 26, 2025

**Type** Package

**Title** An R package to associate peaks and target genes

**Version** 1.1.0

**Description** Statistics implemented for both peak-wise and gene-wise associations. In peak-wise associations, the p-value of the target genes of a given set of peaks are calculated. Negative binomial or Poisson distributions can be used for modeling the unweighted peaks targets and log-normal can be used to model the weighted peaks. In gene-wise associations a table consisting of a set of genes, mapped to specific peaks, is generated using the given rules.

**BugReports** <https://github.com/fls-bioinformatics-core/Site2Target/issues>

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**License** GPL-2

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|                               |                                            |
|-------------------------------|--------------------------------------------|
| addColumn2geneWiseAssociation | <i>Add column to gene-wise association</i> |
|-------------------------------|--------------------------------------------|

---

## Description

Add a column of values based on the type either genes or peaks.

The Input is either coordinates or names of genes or peaks plus a column of relevant values. This function add these values as a column to gene or peak table as well as the interaction table.

## Usage

```
addColumn2geneWiseAssociation(
  type = "",
  name = NULL,
  coordinates = NULL,
  columnName = NA,
  column,
  inFile = "geneWiseAssociation",
  outFile = "geneWiseAssociation"
)
```

**Arguments**

|             |                                                               |
|-------------|---------------------------------------------------------------|
| type        | type of columns to be added. Either "gene" or "peak"          |
| name        | Names of genes or peaks                                       |
| coordinates | Coordinates of genes or peaks in granges format               |
| columnName  | Column name that should be added to the tables                |
| column      | Column values that should be added to the tables              |
| inFile      | The name of the input folder (default "genewiseAssociation")  |
| outFile     | The name of the output folder (default "genewiseAssociation") |

**Value**

No value returns just column would be added to the tables

**See Also**

[genewiseAssociation](#)

**Examples**

```
geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)
geneTable <- read.table(geneFile, header=TRUE)

geneDEIndices <- which((abs(geneTable$logFC)>1)==TRUE)
indicesLen <- length(geneDEIndices)
if(indicesLen >0)
{
  geneTable <- geneTable[geneDEIndices,]
  geneCoords <- geneCoords[geneDEIndices]
}
geneDENames <- geneTable$name
geneDElogFC <- geneTable$logFC
geneCoordsDE <- geneCoords

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)
tfTable <- read.table(tfFile, header=TRUE)
tfIntensities <- tfTable$intensities

stats <-
genewiseAssociation(associationBy="distance",
                    geneCoordinates=geneCoordsDE,
                    geneNames=geneDENames,
                    peakCoordinates=TFCoords,
                    distance=50000,
                    outFile="Gene_TF_50K")

stats

# add expression log fold changes to the table
addColumn2geneWiseAssociation(type="gene", name=geneDENames,
                             columnName="Expr_logFC", column=geneDElogFC, inFile="Gene_TF_50K",
                             outFile="Gene_TF_50K")

# add peak intensities to the table
```

```
addColumn2geneWiseAssociation(type="peak", coordinates=TFCoords,
    columnName="Binding_Intensities", column=tfIntensities,
    inFile="Gene_TF_50K", outFile="Gene_TF_50K")
```

---

```
addRelation2geneWiseAssociation
```

*Add a relation column to gene-peak interaction table*

---

## Description

Get coordinates of interactions (ex. HiC interactions) and a column of interaction values (ex. HiC intensities ) and add them as a column to gene-peak interaction table.

## Usage

```
addRelation2geneWiseAssociation(
    strand1 = NULL,
    strand2 = NULL,
    columnName,
    column,
    inFile = "geneWiseAssociation",
    outFile = "geneWiseAssociation"
)
```

## Arguments

|            |                                                               |
|------------|---------------------------------------------------------------|
| strand1    | granges of DNA strand1 linked to DNA strand2                  |
| strand2    | granges of DNA strand2 linked to DNA strand1                  |
| columnName | Column name that should be added to the interaction table     |
| column     | Column values that should be added to the interaction table   |
| inFile     | The name of the input folder (default "genewiseAssociation")  |
| outFile    | The name of the output folder (default "genewiseAssociation") |

## Value

No value would be returned just a column be added to link table

## See Also

[genewiseAssociation](#)

## Examples

```

geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)
geneTable <- read.table(geneFile, header=TRUE)

geneDEIndices <- which((abs(geneTable$logFC)>1)==TRUE)
indicesLen <- length(geneDEIndices)
if(indicesLen >0)
{
  geneTable <- geneTable[geneDEIndices,]
  geneCoords <- geneCoords[geneDEIndices]
}
geneDENames <- geneTable$name
geneDElogFC <- geneTable$logFC
geneCoordsDE <- geneCoords

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)
tfTable <- read.table(tfFile, header=TRUE)

stats <-
genewiseAssociation(associationBy="distance",
                    geneCoordinates=geneCoordsDE,
                    geneNames=geneDENames,
                    peakCoordinates=TFCoords,
                    distance=50000,
                    outFile="Gene_TF_50K")

stats

HiCFile =system.file("extdata", "HiC_intensities.tsv", package="Site2Target")
HiCstr1 <- Table2Granges(HiCFile, chrColName="Strand1_chr",
                        startColName="Strand1_start", endColName="Strand1_end")
HiCstr2 <- Table2Granges(HiCFile, chrColName="Strand2_chr",
                        startColName="Strand2_start", endColName="Strand2_end")
HiCTable <- read.table(HiCFile, header=TRUE)
HiCintensities <- HiCTable$intensities

addRelation2geneWiseAssociation(strand1=HiCstr1, strand2=HiCstr2,
                                columnName="HiC_Intensities", column=HiCintensities,
                                inFile="Gene_TF_50K", outFile="Gene_TF_50K")

```

data

*MEIS cardiomyocytes datasets used in the package*

## Description

Human cardiomyocytes datasets are reduced in size by only using chr21. log fold changes of Gene expression WT vs MEIS KO from RNA-seq experiments, and binding sites of MEIS derived from a ChIP-seq experiment are the main experimental datasets representing relevant gene and peak information. HiC interactions and topologically associating domains (TADs) are derived from a HiC experiments are auxiliary datasets related to DNA-DNA interactions.

## Format

Gene expression WT vs MEIS KO in chr21. MEIS binding sites in chr21. TADs, and HiC interactions in chr21.

**gene\_expression.tsv** Gene expression

**MEIS\_binding.tsv** MEIS binding sites

**TADs.tsv** TADs

**HiC\_intensities.tsv** HiC interactions

## Value

Just description of data

## Examples

```
## Gene expression table

# Read gene coordinates
geneFile=system.file("extdata", "gene_expression.tsv",
                      package="Site2Target")
geneCoords <- Table2Granges(geneFile)

# Read gene table
geneTable <- read.table(geneFile, header=TRUE)


## TF binding table

# Read peak coordinates
tfFile =system.file("extdata", "MEIS_binding.tsv",
                    package="Site2Target")
TFCoords <- Table2Granges(tfFile)

# Read MEIS binding intensities
tfTable <- read.table(tfFile, header=TRUE)


## DNA-DNA interactions

# Read TAD regions
TADsFile =system.file("extdata", "TADs.tsv",
                      package="Site2Target")
TADs <- Table2Granges(TADsFile)

# Read HiC interactions
HiCFile =system.file("extdata", "HiC_intensities.tsv",
                     package="Site2Target")
HiCstr1 <- Table2Granges(HiCFile, chrColName="Strand1_chr",
                        startColName="Strand1_start", endColName="Strand1_end")
HiCstr2 <- Table2Granges(HiCFile, chrColName="Strand2_chr",
                        startColName="Strand2_start", endColName="Strand2_end")

HiCTable <- read.table(HiCFile, header=TRUE)
```

---

extendSitesInGivenRegions

*Extend sites given regions boundaries*


---

### Description

Get sites and given regions (ex. TADs or loops) coordinates.

It extends sites in a give region using a distance function

### Usage

```
extendSitesInGivenRegions(givenRegions, sites, distance = 1e+05)
```

### Arguments

|              |                                                         |
|--------------|---------------------------------------------------------|
| givenRegions | granges coordinates of given regions (ex. TAD or loops) |
| sites        | granges coordinates of sites                            |
| distance     | the maximum distance to associate sites to regions      |

### Value

A granges of the extended sites in given regions

### Examples

```
tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)

TADsFile =system.file("extdata", "TADs.tsv",package="Site2Target")
TADs <- Table2Granges(TADsFile)

extendSitesInGivenRegions(TADs, TFCoords)
```

---

genewiseAssociation      *Generate genewise association between genes and peaks*


---

### Description

Get genomic coordinates of a set of genes and a set of peaks  
associate them by a fixed distance (default 50K nt). It also  
associate genes and peaks for provided DNA-DNA interaction from  
a dataset like HiC. This function can also associate genes and  
user provided regions (ex. TADs, subTADs, etc). It generates  
three tables: Gene table, peak table, and Gene-Peak association  
table.

**Usage**

```
genewiseAssociation(
  associationBy = "distance",
  geneCoordinates = NULL,
  geneNames = NULL,
  peakCoordinates = NULL,
  peakNames = NULL,
  distance = 50000,
  givenRegions = NULL,
  strand1 = NULL,
  strand2 = NULL,
  outFile = "genewiseAssociation"
)
```

**Arguments**

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| associationBy   | Can be "distance", "regions", or "DNAinteractions"            |
| geneCoordinates | Gene coordinates in granges format                            |
| geneNames       | Gene names can be provided by the user                        |
| peakCoordinates | Peak coordinates in granges format                            |
| peakNames       | Peak names can be provided by the user                        |
| distance        | The maximum distance to associate peaks to genes. default 50K |
| givenRegions    | granges coordinates of given regions (ex. TAD or loops)       |
| strand1         | granges of DNA strand1 linked to DNA strand2                  |
| strand2         | granges of DNA strand2 linked to DNA strand1                  |
| outFile         | The name of the output folder (default "genewiseAssociation") |

**Value**

A vector of portions of linked genes and linked peaks

**Examples**

```
geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)
geneTable <- read.table(geneFile, header=TRUE)

geneDEIndices <- which((abs(geneTable$logFC)>1)==TRUE)
indicesLen <- length(geneDEIndices)
if(indicesLen >0)
{
  geneTable <- geneTable[geneDEIndices,]
  geneCoords <- geneCoords[geneDEIndices]
}
geneDENames <- geneTable$name
geneDElogFC <- geneTable$logFC
geneCoordsDE <- geneCoords

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
```

```
TFCoords <- Table2Granges(tfFile)
tfTable <- read.table(tfFile, header=TRUE)

stats <-
  genewiseAssociation(associationBy="distance",
                      geneCoordinates=geneCoordsDE,
                      geneNames=geneDENames,
                      peakCoordinates=TFCoords,
                      distance=50000,
                      outFile="Gene_TF_50K")

stats
```

---

|                  |                                                 |
|------------------|-------------------------------------------------|
| getCenterOfPeaks | <i>Return center of the given granges files</i> |
|------------------|-------------------------------------------------|

---

### Description

Get a granges and find the center of it

### Usage

```
getCenterOfPeaks(gr)
```

### Arguments

|    |                    |
|----|--------------------|
| gr | granges coordinate |
|----|--------------------|

### Value

granges format of the center

### Examples

```
tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)
TFCoordsCenters <- getCenterOfPeaks(TFCoords)
TFCoordsCenters
```

---

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| getNameFromCoordinates | <i>Get names of genes or peaks related to a query coordinates</i> |
|------------------------|-------------------------------------------------------------------|

---

### Description

Get names and coordinates of genes or peaks. It also get the coordinates of query regions and returns the related genes or peak names.

**Usage**

```
getNameFromCoordinates(names, coordinates, queryCoordinates)
```

**Arguments**

|                  |                                                    |
|------------------|----------------------------------------------------|
| names            | Names of genes or peaks                            |
| coordinates      | Coordinates of genes or peaks in granges format    |
| queryCoordinates | Coordinates of the query regions in granges format |

**Value**

Names of genes or peaks in queried regions

---

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| getTargetGenesNumber | <i>generate number of sites per gene given distances</i> |
|----------------------|----------------------------------------------------------|

---

**Description**

Get genes and sites coordinates, and associate them by given distance.

**Usage**

```
getTargetGenesNumber(geneCoordinates = NA, sites = NA, distance = 50000)
```

**Arguments**

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| geneCoordinates | granges coordinates of genes                                  |
| sites           | granges coordinates of sites                                  |
| distance        | the maximum distance to associate sites to genes. default 50K |

**Value**

A vector sites number matched to each gene

**Examples**

```
geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)

targetNum <- getTargetGenesNumber( geneCoords, TFCoords)
```

---

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| getTargetGenesPvals | <i>Fit Negative binomial distribution to target genes</i> |
|---------------------|-----------------------------------------------------------|

---

### Description

Get genes and sites coordinates, and associate them by given distance or given regions (ex. TADs or loops). It tests the distribution of sites around genes either by poisson or negative binomial test.

### Usage

```
getTargetGenesPvals(
  associationBy = "distance",
  dist = "negative binomial",
  geneCoordinates = NA,
  sites = NA,
  distance = 50000,
  givenRegions = NA
)
```

### Arguments

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| associationBy   | either "distance" or "regions"                                |
| dist            | either "negative binomial" or "poisson"                       |
| geneCoordinates | granges coordinates of genes                                  |
| sites           | granges coordinates of sites                                  |
| distance        | the maximum distance to associate sites to genes. default 50K |
| givenRegions    | user provided granges regions like TADs or loops              |

### Value

A vector of pvalue distribution for target genes

### Examples

```
geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)

pvals <- getTargetGenesPvals( geneCoordinates=geneCoords, sites=TFCoords)
```

---

getTargetGenesPvalsWithDNAInteractions

*Fit Negative binomial distribution to target genes*


---

### Description

Get genes and sites coordinates, and associate them by given distance and user provided DNA interaction (ex. HiC). It tests the distribution of sites around genes either by poisson or negative binomial test.

### Usage

```
getTargetGenesPvalsWithDNAInteractions(
  dist = "negative binomial",
  geneCoordinates = NA,
  sites = NA,
  strand1 = NA,
  strand2 = NA,
  distance = 50000
)
```

### Arguments

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| dist            | either "negative binomial" or "poisson"                       |
| geneCoordinates | granges coordinates of genes                                  |
| sites           | granges coordinates of sites                                  |
| strand1         | granges of DNA strand1 linked to DNA strand2                  |
| strand2         | granges of DNA strand2 linked to DNA strand1                  |
| distance        | the maximum distance to associate sites to genes. default 50K |

### Value

A vector of pvalue distribution for target genes

### Examples

```
geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)

HiCFile =system.file("extdata", "HiC_intensities.tsv", package="Site2Target")
HiCstr1 <- Table2Granges(HiCFile, chrColName="Strand1_chr",
                        startColName="Strand1_start", endColName="Strand1_end")
HiCstr2 <- Table2Granges(HiCFile, chrColName="Strand2_chr",
                        startColName="Strand2_start", endColName="Strand2_end")
```

```
pvals <- getTargetGenesPvalsWithDNAInteractions(  
  geneCoordinates=geneCoords, sites=TFCoords, strand1=HiCstr1,  
  strand2=HiCstr2)
```

---

`getTargetGenesPvalsWithIntensities`*Fit log-normal distribution to target genes*

---

### Description

Get genes and sites coordinates, and associate them by given distance or given regions (ex. TADs or loops). It tests the distribution of log-intensities of sites around genes by log-normal test. This function consider both binding sites and intensities.

### Usage

```
getTargetGenesPvalsWithIntensities(  
  associationBy = "distance",  
  intensities,  
  geneCoordinates = NA,  
  sites = NA,  
  distance = 50000,  
  givenRegions = NA  
)
```

### Arguments

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| associationBy   | either "distance" or "regions"                                |
| intensities     | intensity values associated to sites                          |
| geneCoordinates | granges coordinates of genes                                  |
| sites           | granges coordinates of sites                                  |
| distance        | the maximum distance to associate sites to genes. default 50K |
| givenRegions    | user provided granges regions like TADs or loops              |

### Value

A vector of pvalue distribution for target genes

**Examples**

```

geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)
tfTable <- read.table(tfFile, header=TRUE)
tfIntensities <- tfTable$intensities

pvals <- getTargetGenesPvalsWithIntensities(geneCoordinates=geneCoords,
                                             sites=TFCoords, intensities=tfIntensities)

```

---

```

getTargetGenesPvalsWithIntensitiesAndDNAInteractions
Fit log-normal distribution to target genes

```

---

**Description**

Get genes and sites coordinates, and associate them by given distance and user provided DNA interaction (ex. HiC). It tests the distribution of log-intensities of sites around genes by log-normal test. This function consider both binding sites and intensities.

**Usage**

```

getTargetGenesPvalsWithIntensitiesAndDNAInteractions(
  geneCoordinates,
  sites,
  intensities,
  strand1,
  strand2,
  distance = 50000
)

```

**Arguments**

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| geneCoordinates | granges coordinates of genes                                  |
| sites           | granges coordinates of sites                                  |
| intensities     | intensity values associated to sites                          |
| strand1         | granges of DNA strand1 linked to DNA strand2                  |
| strand2         | granges of DNA strand2 linked to DNA strand1                  |
| distance        | the maximum distance to associate sites to genes. default 50K |

**Value**

A vector of pvalue distribution for target genes

**Examples**

```

geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)
tfTable <- read.table(tfFile, header=TRUE)
tfIntensities <- tfTable$intensities

HiCFile =system.file("extdata", "HiC_intensities.tsv", package="Site2Target")
HiCstr1 <- Table2Granges(HiCFile, chrColName="Strand1_chr",
                        startColName="Strand1_start", endColName="Strand1_end")
HiCstr2 <- Table2Granges(HiCFile, chrColName="Strand2_chr",
                        startColName="Strand2_start", endColName="Strand2_end")

pvals <- getTargetGenesPvalsWithIntensitiesAndDNAInteractions(
  geneCoordinates=geneCoords, sites=TFCoords,
  intensities=tfIntensities, strand1=HiCstr1,
  strand2=HiCstr2)

```

granges2String

*Convert granges to strings of coordinates***Description**

Get genomic coordinates granges and convert them to strings

**Usage**

```
granges2String(gr)
```

**Arguments**

gr                      granges coordinates

**Value**

string of coordinates

**Examples**

```

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)
strCoords <- granges2String(TFCoords)
head(strCoords)

```

---

`removeReserveCharacter`*Remove reserved characters from a string*

---

**Description**

Remove reserved characters (such as \*, +, -, etc) from a string

**Usage**

```
removeReserveCharacter(name)
```

**Arguments**

|      |                        |
|------|------------------------|
| name | A string of characters |
|------|------------------------|

**Value**

A string without reserved characters

**Examples**

```
removeReserveCharacter("A&%B^f6")
```

---

`site2GeneDistance`*Return the distance between paired peaks and genes*

---

**Description**

Get a granges of genes and peaks and return their distances

**Usage**

```
site2GeneDistance(geneCoordinates, peakCoordinates)
```

**Arguments**

|                 |                              |
|-----------------|------------------------------|
| geneCoordinates | granges coordinates of genes |
| peakCoordinates | granges coordinates of peaks |

**Value**

the respective distances of paired genes and peaks

## Description

Statistical implementation for both peak-wise and gene-wise associations. Here is an example of a peak-wise and a gene-wise association of differential genes WT vs KO of a transcription factor and binding sites of this transcription factor.

## Value

Just an example

## Examples

```
geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
geneCoords <- Table2Granges(geneFile)
geneTable <- read.table(geneFile, header=TRUE)

tfFile =system.file("extdata", "MEIS_binding.tsv", package="Site2Target")
TFCoords <- Table2Granges(tfFile)
tfTable <- read.table(tfFile, header=TRUE)

## Peakwise association example

pvals <- getTargetGenesPvals(geneCoordinates=geneCoords, sites=TFCoords)
topTargetNum <- 5
topTargetIndex <- order(pvals)[1:topTargetNum]

# Make a data frame of peak targets pvalues and expression logFCs

dfTopTarget <-
  data.frame(name=geneTable$name[topTargetIndex],
             pvalue=pvals[topTargetIndex],
             exprLogC=geneTable$logFC[topTargetIndex]
             )
dfTopTarget

## Genewise association example
geneDEIndices <- which((abs(geneTable$logFC)>1)==TRUE)
indicesLen <- length(geneDEIndices)
if(indicesLen >0)
{
  geneTable <- geneTable[geneDEIndices,]
  geneCoords <- geneCoords[geneDEIndices]
}
geneDENames <- geneTable$name
geneDElogFC <- geneTable$logFC
geneCoordsDE <- geneCoords

stats <-
genewiseAssociation(associationBy="distance",
                    geneCoordinates=geneCoordsDE,
                    geneNames=geneDENames,
```

```
peakCoordinates=TFCoords,
distance=50000,
outFile="Gene_TF_50K")

stats
```

---

|                |                                                  |
|----------------|--------------------------------------------------|
| string2Granges | <i>Convert strings to granges of coordinates</i> |
|----------------|--------------------------------------------------|

---

**Description**

Get genomic coordinates as strings and convert them to granges

**Usage**

```
string2Granges(strCoordinates)
```

**Arguments**

strCoordinates    string of coordinates

**Value**

Genomic coordinates in granges format

**Examples**

```
string2Granges(c("chr1:1112-1231", "ch2:3131-3221"))
```

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|               |                                              |
|---------------|----------------------------------------------|
| Table2Granges | <i>Take Genomic Ranges from a table file</i> |
|---------------|----------------------------------------------|

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**Description**

Read a table file and derive genomic ranges from user provided column names.

**Usage**

```
Table2Granges(
  fileName,
  chrColName = "chr",
  startColName = "start",
  endColName = "end"
)
```

**Arguments**

|              |                                          |
|--------------|------------------------------------------|
| fileName     | A table delimited file                   |
| chrColName   | Chromosomes column name (default: "Chr") |
| startColName | Start column name (default: "start")     |
| endColName   | End column name (default: "end")         |

**Value**

granges format of given coordinates

**Examples**

```
geneFile=system.file("extdata", "gene_expression.tsv", package="Site2Target")
grs <- Table2Granges(fileName=geneFile,
                     chrColName="chr",
                     startColName="start",
                     endColName="end")

grs
```

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