

Package ‘qcQpcr’

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Type Package

Title Histone ChIP-Seq qPCR Analyzer

Version 1.5

Date 2018-02-02

Author Alireza Lorzadeh

Maintainer Alireza Lorzadeh <alorzadeh@bcgsc.ca>

Description Quality control of chromatin immunoprecipitation libraries (ChIP-seq) by quantitative polymerase chain reaction (qPCR). This function calculates Enrichment value with respect to reference for each histone modification (specific to 'Vii7' software <<http://www.thermofisher.com/ca/en/home/life-science/pcr/real-time-pcr/real-time-pcr-instruments/via-7-real-time-pcr-system/via-7-software.html>>). This function is applicable to full panel of histone modifications described by International Human Epigenomic Consortium (IHEC).

Imports ggplot2

License MIT + file LICENSE

Depends R (>= 2.10)

NeedsCompilation no

Repository CRAN

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qcQpcr-package

*Histone ChIP-Seq qPCR Analyzer Histone ChIP-Seq qPCR Analyzer***Description**

Quality control of chromatin immunoprecipitation libraries (ChIP-seq) by quantitative polymerase chain reaction (qPCR). This function calculates Enrichment value with respect to reference for each histone modification (specific to 'Vii7' software <<http://www.thermofisher.com/ca/en/home/life-science/pcr/real-time-pcr/real-time-pcr-instruments/viia-7-real-time-pcr-system/viia-7-software.html>>). This function is applicable to full panel of histone modifications described by International Human Epigenomic Consortium (IHEC). Quality control of chromatin immunoprecipitation libraries (ChIP-seq) by quantitative polymerase chain reaction (qPCR). This function calculates Enrichment value with respect to reference for each histone modification (specific to 'Vii7' software <<http://www.thermofisher.com/ca/en/home/life-science/pcr/real-time-pcr/real-time-pcr-instruments/viia-7-real-time-pcr-system/viia-7-software.html>>). This function is applicable to full panel of histone modifications described by International Human Epigenomic Consortium (IHEC).

Details

The DESCRIPTION file:

```
Package:          qcQpcr
Type:            Package
Title:           Histone ChIP-Seq qPCR Analyzer
Version:         1.5
Date:            2018-02-02
Author:          Alireza Lorzadeh
Maintainer:      Alireza Lorzadeh <alorzadeh@bcgsc.ca>
Description:     Quality control of chromatin immunoprecipitation libraries (ChIP-seq) by quantitative polymerase chain
Imports:         ggplot2
License:         MIT + file LICENSE
Depends:         R (>= 2.10)
NeedsCompilation: no
Packaged:        2018-02-02 23:24:48 UTC; epigenomics_lab_01
```

Index of help topics:

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qcQpcr          Histone ChIP-Seq qPCR Analyzer
qcQpcr-package  Histone ChIP-Seq qPCR Analyzer Histone ChIP-Seq
                qPCR Analyzer
```

```
qcQpcr(xx,'Title for you graph')
```

Author(s)

Alireza Lorzadeh

Examples

```
library(ggplot2)
data(SampleTest)
qcQpcr(SampleTest, 'Title for your graph')
```

qcQpcr

Histone ChIP-Seq qPCR Analyzer

Description

Quality control of chromatin immunoprecipitation libraries (ChIP-seq) by quantitative polymerase chain reaction (qPCR). This function calculates Enrichment value with respect to reference for each histone modification (specific to 'Vii7' software <<http://www.thermofisher.com/ca/en/home/life-science/pcr/real-time-pcr/real-time-pcr-instruments/viia-7-real-time-pcr-system/viia-7-software.html>>). This function is applicable to full panel of histone modifications described by International Human Epigenomic Consortium (IHEC).

Usage

```
qcQpcr(xx, Name)
```

Arguments

xx	'Your Data Set'
Name	'.... Title for you graph, (ie: Projects name and date)'

Author(s)

Alireza Lorzadeh

Examples

```
library(ggplot2)
data(SampleTest)
qcQpcr(SampleTest, 'Title for your graph')
```

SampleTest

qPCR ChIP-seq Results

Description

A dataset containing the the CT values of ChIPseq libraries.

Usage

SampleTest

Format

A data frame with 82 rows and 11 variables

Source

Hirst Lab, UBC Vancouver, Canada

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