

# Package ‘qcQpcr’

February 8, 2018

**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/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).

**Imports** ggplot2

**License** MIT + file LICENSE

**Depends** R (>= 2.10)

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2018-02-08 18:44:50 UTC

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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')
```

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qcQpcr

*Histone ChIP-Seq qPCR Analyzer*

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## 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')
```

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SampleTest

*qPCR ChIP-seq Results*

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**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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