

Package ‘crisprseekplus’

March 30, 2021

Type Package

Title crisprseekplus

Version 1.16.0

Date 2016-07-25

Author Sophie Wigmore <Sophie.Wigmore@umassmed.edu>, Alper Kucukural
<alper.kucukural@umassmed.edu>, Lihua Julie Zhu
<julie.zhu@umassmed.edu>, Michael Brodsky
<Michael.Brodsky@umassmed.edu>, Manuel Garber
<Manuel.Garber@umassmed.edu>

Maintainer Alper Kucukural <alper.kucukural@umassmed.edu>

Description Bioinformatics platform containing interface to work with
offTargetAnalysis and compare2Sequences in the CRISPRseek
package, and GUIDEseqAnalysis.

Depends R (>= 3.3.0), shiny, shinyjs, CRISPRseek

License GPL-3 + file LICENSE

LazyData true

Imports DT, utils, GUIDEseq, GenomicRanges, GenomicFeatures,
BiocManager, BSgenome, AnnotationDbi, hash

RoxygenNote 5.0.1

Suggests testthat, rmarkdown, knitr, R.rsp

VignetteBuilder knitr, R.rsp

URL <https://github.com/UMMS-Biocore/crisprseekplus>

BugReports <https://github.com/UMMS-Biocore/crisprseekplus/issues/new>

biocViews GeneRegulation, SequenceMatching, Software

git_url <https://git.bioconductor.org/packages/crisprseekplus>

git_branch RELEASE_3_12

git_last_commit cfd3641

git_last_commit_date 2020-10-27

Date/Publication 2021-03-29

R topics documented:

cspServer	2
cspUI	3
disableDownload	3
fileInputFunc	4
getLoadingMsg	4
getLogo	5
installpack	5
startcrisprseekplus	6
trueFalseFunc	6
Index	7

cspServer

cspServer

Description

Sets up shinyServer to be able to run crisprseekplus interactively.

Usage

```
cspServer(input, output)
```

Arguments

input,	input params from UI
output,	output params to UI

Value

the panel for main plots;

Note

cspServer

Examples

```
cspServer
```

`cspUI`*cspUI*

Description

Creates a shinyUI to be able to run crsiprseekplus interactively.

Usage

```
cspUI()
```

Value

the panel for the UI;

Note

cspUI

Examples

```
x<-cspUI()
```

`disableDownload`*disableDownload*

Description

Enable or disable to download button depending on if analysis is complete

Usage

```
disableDownload(input = NULL)
```

Arguments

input, disable the download button

Value

the download button either enabled or disabled;

Note

disableDownload

Examples

```
x<- disableDownload()
```

fileInputFunc *fileInputFunc*

Description

If input file is empty, use sample file

Usage

```
fileInputFunc(input = NULL, sampleFile = NULL)
```

Arguments

input, enter correct files
sampleFile, sampleFile

Value

If no file is uploaded, use sample file

Note

fileInputFunc

Examples

```
x<- fileInputFunc()
```

getLoadingMsg *getLoadingMsg*

Description

getLoadingMsg

Usage

```
getLoadingMsg()
```

Value

loading msg

Note

getLoadingMsg

Examples

```
x <- getLoadingMsg()
```

`getLogo` *getLogo*

Description

`getLogo`

Usage

`getLogo()`

Value

return logo

Note

`getLogo`

Examples

```
x <- getLogo()
```

`installpack` *installpack*

Description

install packages if they don't exist display.

Usage

`installpack(package_name = NULL)`

Arguments

`package_name`, package name to be installed

Value

install package

Note

`installpack`

Examples

```
x<- installpack()
```

startcrisprseekplus *startcrisprseekplus*

Description

Starts the crisprseekplus to be able to run.

Usage

```
startcrisprseekplus()
```

Value

the app

Note

startcrisprseekplus

Examples

```
startcrisprseekplus()
```

trueFalseFunc *trueFalseFunc*

Description

If radio button input == 1, the function returns true and if the radio button value is 2, the function returns false

Usage

```
trueFalseFunc(input = NULL)
```

Arguments

input, user inputs

Value

true or false depending on input

Note

trueFalseFunc

Examples

```
x<- trueFalseFunc()
```

Index

cspServer, [2](#)

cspUI, [3](#)

disableDownload, [3](#)

fileInputFunc, [4](#)

getLoadingMsg, [4](#)

getLogo, [5](#)

installpack, [5](#)

startcrisprseekplus, [6](#)

trueFalseFunc, [6](#)