

Package ‘crisprseekplus’

March 28, 2021

Type Package

Title crisprseekplus

Version 1.17.0

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 master

git_last_commit 7192bbb

git_last_commit_date 2020-10-27

Date/Publication 2021-03-28

R topics documented:

cspServer	2
cspUI	3
disableDownload	3
fileInputFunc	4
getLoadingMsg	4
getLogo	5
installpack	6
startcrisprseekplus	6
trueFalseFunc	7
Index	8

cspServer	<i>cspServer</i>
-----------	------------------

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	<i>fileInputFunc</i>
---------------	----------------------

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	<i>getLoadingMsg</i>
---------------	----------------------

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`, 6

`startcrisprseekplus`, 6

`trueFalseFunc`, 7