

# Package ‘crisprseekplus’

October 17, 2017

**Type** Package

**Title** crisprseekplus

**Version** 1.2.0

**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,  
BiocInstaller, 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

**NeedsCompilation** no

## R topics documented:

cspServer	2
cspUI	2
disableDownload	3
fileInputFunc	3

getLoadingMsg . . . . .	4
getLogo . . . . .	4
installpack . . . . .	5
startcrisprseekplus . . . . .	5
trueFalseFunc . . . . .	6

<b>Index</b>	<b>7</b>
--------------	----------

---

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	<i>cspUI</i>
-------	--------------

---

### 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	<i>disableDownload</i>
-----------------	------------------------

---

**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

*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`, [2](#)

`disableDownload`, [3](#)

`fileInputFunc`, [3](#)

`getLoadingMsg`, [4](#)

`getLogo`, [4](#)

`installpack`, [5](#)

`startcrisprseekplus`, [5](#)

`trueFalseFunc`, [6](#)