

Package ‘riceidconverter’

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Type Package

Title Convert Biological ID from RAP or MSU to SYMBOL for Oryza Sativa

Version 1.1.1

Author Xiang LI

Maintainer Xiang LI <yraulx@gmail.com>

Description Convert one biological ID to another of rice (Oryza sativa).

Rice(Oryza sativa) has more than one form gene ID for the genome.

The two main gene ID for rice genome are the RAP (The Rice Annotation Project, <<https://rapdb.dna.affrc.go.jp/>>,

and the MSU(The Rice Genome Annotation Project, <<http://rice.plantbiology.msu.edu/>>.

All RAP rice gene IDs are of the form Os##g##### as explained on the website <<https://rapdb.dna.affrc.go.jp/>>.

All MSU rice gene IDs are of the form LOC_Os##g##### as explained on the website <http://rice.plantbiology.msu.edu/analyses_nomenclature.shtml>.

All SYMBOL rice gene IDs are the unique name on the NCBI(National Center for Biotechnology Information, <<https://www.ncbi.nlm.nih.gov/>>.

The TRANSCRIPTID, is the transcript id of rice, are of the form Os##t#####.

The researchers usually need to converter between various IDs. Such as converter RAP to SYMBOLS for function searching on NCBI.

There are a lot of websites with the function for converting

RAP to MSU or MSU to RA, such as 'ID Converter'

<<https://rapdb.dna.affrc.go.jp/tools/converter>>.

But it is difficult to convert super multiple IDs on these websites.

The package can convert all IDs between the three IDs (RAP, MSU and SYMBOL) regardless of the number.

Depends R (>= 3.5.0)

Imports dplyr

License Artistic-2.0

Encoding UTF-8

LazyData true

RoxygenNote 7.0.2

NeedsCompilation no

Repository CRAN

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R topics documented:

RiceIDConvert	2
riceidconverter	3
Index	4

RiceIDConvert	<i>Convert Biological ID from One to Another for Oryza Sativa</i>
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Description

RiceIDConverter Convert One Biological ID to Another for Oryza Sativa, such As SYMBOL to TRANSCRIPTID.

Usage

```
RiceIDConvert(myID, fromType, toType)
```

Arguments

myID	A vector of entrez id
fromType	Keytype of input id
toType	Keytype of output id

Value

Return a vector or a datafram

Author(s)

Xiang LI <yraulx@gmail.com>

Examples

```
convert_id <- RiceIDConvert('0s01g0100500', 'RAP', toType = 'MSU')
convert_id <- RiceIDConvert(myID = '0s01g0100500',
                           fromType = 'RAP',
                           toType = 'SYMBOL')
```

riceidconverter *Convert Biological ID from One to Another for Oryza Sativa*

Description

RiceIDConverter Convert one biological ID to another for Oryza sativa, such as MSU to SYMBOL.

Author(s)

Xiang LI <yraulx@gmail.com>

Index

RiceIDConvert, [2](#)
riceidconverter, [3](#)