

Package ‘RGenetics’

February 19, 2015

Title R packages for genetics research

Description R packages for genetics research

Version 0.1

Date 2013-11-06

Author Felix Yanhui Fan <nolanfyh@gmail.com>

Maintainer Felix Yanhui Fan <nolanfyh@gmail.com>

License GPL (>= 2)

NeedsCompilation no

Repository CRAN

Date/Publication 2013-11-06 18:10:48

R topics documented:

| | |
|------------------------------|---|
| codonToAAone | 1 |
| codonToAAoneRNA | 2 |
| codonToAAtthree | 3 |
| codonToAAtthreeRNA | 3 |
| geneticCodeTable | 4 |

| | |
|--------------|----------|
| Index | 5 |
|--------------|----------|

| | |
|--------------|--|
| codonToAAone | <i>Translating Codons to Amino Acids</i> |
|--------------|--|

Description

Translate a DNA 3-character codon to an amino acid (one character)

Usage

```
codonToAAone(codon)
```

Arguments

codon a DNA 3-character codon

See Also

[codonToAAthree](#)

Examples

```
codonToAAone('AAA')
```

codonToAAoneRNA

Translating Codons to Amino Acids

Description

Translate a RNA 3-character codon to an amino acid (one character)

Usage

```
codonToAAoneRNA(codon)
```

Arguments

codon a RNA 3-character codon

See Also

[codonToAAthreeRNA](#)

Examples

```
codonToAAoneRNA('AAA')
```

| | |
|----------------|--|
| codonToAAthree | <i>Translating Codons to Amino Acids</i> |
|----------------|--|

Description

Translate a DNA 3-character codon to an amino acid (three character)

Usage

```
codonToAAthree(codon)
```

Arguments

codon a DNA 3-character codon

See Also

[codonToAAone](#)

Examples

```
codonToAAthree('AAA')
```

| | |
|-------------------|--|
| codonToAAthreeRNA | <i>Translating Codons to Amino Acids</i> |
|-------------------|--|

Description

Translate a RNA 3-character codon to an amino acid (three character)

Usage

```
codonToAAthreeRNA(codon)
```

Arguments

codon a RNA 3-character codon

See Also

[codonToAAoneRNA](#)

Examples

```
codonToAAthreeRNA('AAA')
```

| | |
|-------------------------------|---------------------------|
| <code>geneticCodeTable</code> | <i>Genetic Code Table</i> |
|-------------------------------|---------------------------|

Description

DNA Genetic Code Table

Usage

```
geneticCodeTable(DNA = TRUE)
```

Arguments

DNA if 'TRUE', DNA code will be used, else, 'RNA' code will be used. Default is 'TRUE'

See Also

[codonToAAone](#)

[codonToAAthree](#)

[codonToAAoneRNA](#)

[codonToAAthreeRNA](#)

Examples

```
geneticCodeTable()  
geneticCodeTable(DNA=FALSE)
```

Index

`codonToAAone`, [1](#), [3](#), [4](#)
`codonToAAoneRNA`, [2](#), [3](#), [4](#)
`codonToAAthree`, [2](#), [3](#), [4](#)
`codonToAAthreeRNA`, [2](#), [3](#), [4](#)
`geneticCodeTable`, [4](#)