

Package ‘CleanBSequences’

May 11, 2018

Type Package

Title Clean Biological Sequences

Version 0.4.0

Date 2018-05-08

Author Florencia I. Pozzi, Gisela Y. Green, Ivana G. Barbona, Gustavo R. Rodriguez, Silvina A. Felitti

Maintainer Florencia I. Pozzi <florenciapoz@hotmail.com>

Description Cleans biological sequences massively, quickly, without errors and without internet connection. Biological sequences cleaning is performed by aligning the forward and / or revers primers or ends of cloning vectors with the sequences to be cleaned. After the alignment, new subsequences are generated without biological fragment not desired by the user.
Pozzi et al (2016, ISSN:2314-1484).

License GPL-3

Encoding UTF-8

LazyData true

Depends Biostrings

RoxygenNote 6.0.1

NeedsCompilation no

Repository CRAN

Date/Publication 2018-05-11 13:25:36 UTC

R topics documented:

OnePrimerRemove	2
TwoPrimerRemove	2

Index	4
--------------	----------

OnePrimerRemove *Clean biological sequences of one primer*

Description

Cleans biological sequences of one primer.

Usage

```
OnePrimerRemove(SEQ, PrimerOPR)
```

Arguments

SEQ	dnasttring or file with fasta format containing biological sequences that are to be cleaned.
PrimerOPR	dnasttring or file with fasta format containing the reverse primer/vector sequences to be removed.

Value

clean biological sequences

Author(s)

Florencia I Pozzi, Gisela Y. Green, Ivana G. Barbona, Gustavo R. Rodriguez, Silvina A. Felitti

Examples

```
SEQ4 = DNASTring("AATCG")  
SEQ5 = DNASTring("CG")  
OnePrimerRemove (SEQ4,SEQ5)
```

TwoPrimerRemove *Clean biological sequences of two primers*

Description

Clean biological sequences of two restriction enzyme primers or cloning vectors.

Usage

```
TwoPrimerRemove(SEQs, PrimerF, PrimerR)
```

Arguments

SEQs	file with fasta format containing biological sequences that are to be cleaned.
PrimerF	dnasttring or file with fasta format containing the foward primer/vector sequences to be removed.
PrimerR	dnasttring or file with fasta format containing the reverse primer/vector sequences to be removed.

Value

clean biological sequences

Author(s)

Florencia I Pozzi, Gisela Y. Green, Ivana G. Barbona, Gustavo R. Rodriguez, Silvina A. Felitti

Examples

```
SEQ1 = DNASTring("AATCG")
SEQ2 = DNASTring("TT")
SEQ3 = DNASTring("CG")
TwoPrimerRemove (SEQ1,SEQ2,SEQ3)
```

Index

OnePrimerRemove, [2](#)

TwoPrimerRemove, [2](#)