Package ‘ggaligner’

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Title Visualizing Sequence Alignment by Generating Publication-Ready Plots

Version 0.1

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Description Providing publication-ready graphs for Multiple sequence alignment. Moreover, it provides a unique solution for visualizing the multiple sequence alignment without the need to do the alignment in each run which is a big limitation in other available packages.

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Encoding UTF-8

RoxygenNote 7.1.2

Imports ggplot2, ggmsa, reshape2

NeedsCompilation no

Repository CRAN

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R topics documented:

`ggaligner` *Visualize the alignment object from msa package*

Description

Generating a plot for msa object of DNA or Protein sequence

Usage

```
ggaligner(alignment,start=1,end=10,color="Clustal",font="helvetical",label_font = 12)
```

Arguments

`alignment`	alignment object returned from msa package
`start`	start position of the desired alignment region
`end`	end position of the desired alignment region
`color`	color scheme to use ex: Clustal, Chemistry_AA, Shapely_AA
`font`	font family to use ex: helvetical, TimesNewRoman
`label_font`	font size of sequence names

Value

An enhanced plot for the alignment using ggplot2 and ggmsa packages

Author(s)

Mohamed Soudy <`Mohmedsoudy2009@gmail.com`>

`Seqtochar` *Convert string to a character vector*

Description

convert string that can be DNA or protein sequence to a character vector

Usage

```
Seqtochar(x)
```

Arguments

`x`	a sequence of DNA or Protein

Value

this function is mainly used by ggaligner function to convert the input sequence to character vector

Author(s)

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Examples

```
Seqtochar("ATGACATAAT")
```

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