

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.

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.2

Imports ggplot2, ggmsa, reshape2

NeedsCompilation no

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ggaligner	<i>Visualize the alignment object from msa package</i>
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Description

Generating a plot for msa object of DNA or Protein sequence

Usage

```
ggaligner(alignment, start=1, end=10, color="Clustal", font="helvetica", 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: helvetica, TimesNewRoman
label_font	font size of sequence names

Value

An enhanced plot for the alignment using ggplot2 and ggmsa packages

Author(s)

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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
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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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