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

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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="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

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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