ZenDNA vignette

Overview

ZenDNA is a package regarding the Central Dogma of Molecular Biology, providing a consistent set of verbs that help you solve the most common molecular biology challenges:

- `create_dna()` generates a random sample of DNA.
- `create_rna()` substitutes nucleotides in DNA to create RNA.
- `create_codon()` makes codons based on the RNA sequence.

These all combine naturally with function_x() which allows you to perform any operation "by dna". You can learn more about them in `vignette(ZenDNA)`.

If you are new to ZenDNA, the best place to start is this github repository.

(If you're trying to generate a protein sequence from a DNA sequence, see `vignette(ZenDNA)`)

Installation

Development Version

The easiest way to get dplyr is to install the whole tidyverse:

install.packages("ZenDNA")

install.packages("devtools") devtools::install_github("s172084/ZenDNA")

Usage

```
dna_seq <- create_dna(300)

rna_sequence <- create_rna(dna_seq)

codon_produced <- create_codon(rna_sequence)
```

Getting help

If you encounter a clear bug, please file an issue with a minimal reproducible example on GitHub. For questions and other discussion, please email `s172084@dtu.dk`

Please note that this project is released with a Contributor Code of Conduct. By participating in this project you agree to abide by its terms.