kbkdna Documentation

Release 0.0.0

Kale Kundert

Contents

When doing biology, sometimes you just need to quickly know how long a DNA sequence is, or what its reverse complement is. There are lots of tools out there that can tell you these things, but they often do a lot more than that too and can be overkill for really quick questions. In contrast, this package provides an easy-to-use command-line app that's just designed to give simple answers to simple questions.

CHAPTER 1

Installation

You can install kbkdna from PyPI using pip:

```
$ pip install kbkdna
```

Usage

The command-line application that gets installed is called `dna`. You can use the `--help` flag to get information on the kinds of things it can calculate:

```
$ dna --help
```

You can use the `len` command to get the length of a DNA sequence:

```
$ dna len CATCTAATTCAACAAGAATT
20
```

You can use the `rc` command to get the reverse complement of a DNA sequence:

```
$ dna rc CATCTAATTCAACAAGAATT
AATTCTTGTTGAATTAGATG
```

You can use the `gc` command to calculate the GC content of a DNA sequence:

```
$ dna gc CATCTAATTCAACAAGAATT
25.0%
```

CHAPTER 3

Library Functions