

# Package ‘DNAcycP2’

April 7, 2026

**Title** DNA Cyclizability Prediction

**Version** 1.3.0

**Description** This package performs prediction of intrinsic cyclizability of every 50-bp subsequence in a DNA sequence. The input could be a file either in FASTA or text format. The output will be the C-score, the estimated intrinsic cyclizability score for each 50 bp sequences in each entry of the sequence set.

**Depends** R (>= 4.4.0)

**Imports** basilisk, reticulate

**License** Artistic-2.0

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

**StagedInstall** yes

**BinaryFiles** inst/extdata/irlstm/saved\_model.pb,  
inst/extdata/irlstm\_smooth/saved\_model.pb

**biocViews** NeuralNetwork, StructuralPrediction

**VignetteBuilder** knitr

**Suggests** knitr, rmarkdown, BiocGenerics, RUnit, tinytest, BiocStyle,  
Biostrings

**LazyData** false

**URL** <https://github.com/jipingw/DNAcycP2>

**BugReports** <https://github.com/jipingw/DNAcycP2>

**git\_url** <https://git.bioconductor.org/packages/DNAcycP2>

**git\_branch** devel

**git\_last\_commit** 98b41bd

**git\_last\_commit\_date** 2025-10-29

**Repository** Bioconductor 3.23

**Date/Publication** 2026-04-07





```
cycle_fasta(temp_file, smooth=TRUE)  
  
# Cleanup  
unlink(temp_file)
```

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