

Package: Rducksassy (via r-universe)

October 7, 2026

Title Approximate String Matching for 'DuckDB'

Version 0.1.0

Description Builds and loads the 'ducksassy' extension for 'DuckDB', providing approximate DNA, IUPAC and ASCII string matching through the 'Sassy' SIMD kernels. Search scalar values, pattern panels and CRISPR guide targets from SQL. The matching method is described by Beeloo and Groot Koerkamp (2026) [<doi:10.1093/bioinformatics/btag244>](https://doi.org/10.1093/bioinformatics/btag244).

License GPL (>= 2)

Encoding UTF-8

SystemRequirements CMake (>= 3.20), Cargo (Rust's package manager) (>= 1.91), rustc (>= 1.91), Python (>= 3.8), C11 compiler

NeedsCompilation yes

Depends R (>= 4.1.0)

Imports DBI, duckdb (>= 1.5.5)

URL <https://github.com/RGenomicsETL/ducksassy>,
<https://rgenomicsetl.github.io/ducksassy/>

BugReports <https://github.com/RGenomicsETL/ducksassy/issues>

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Config/pak/sysreqs cmake python3 xz-utils libclang-dev

Repository <https://rgenomicsetl.r-universe.dev>

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RemoteUrl <https://github.com/RGenomicsETL/ducksassy>

RemoteRef main

RemoteSha 6ebfa4d9666069c3504243053c9a24b573e468f3

RemoteSubdir r/Rducksassy

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rducksassy_connect	<i>Open a DuckDB connection with Ducksassy loaded</i>
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Description

Creates an isolated DuckDB database handle, opens a DBI connection, and loads the extension bundled with Rducksassy. The database handle permits unsigned extensions because locally built DuckDB extensions are not signed.

Usage

```
rducksassy_connect(dbdir = ":memory:", read_only = FALSE, config = list(), ...)
```

Arguments

dbdir	Database file path or ":memory:".
read_only	Open an existing database without write access.
config	Named DuckDB configuration values.
...	Additional arguments passed to duckdb::duckdb() .

Value

A live DuckDB DBI connection. Disconnect it with `DBI::dbDisconnect(con, shutdown = TRUE)`.

Examples

```
con <- rducksassy_connect()
DBI::dbGetQuery(con, "SELECT sassy_contains('ACGT', 'TTACGT', 0)")
DBI::dbDisconnect(con, shutdown = TRUE)
```

rducksassy_load	<i>Load Ducksassy into a DuckDB connection</i>
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Description

Loads the extension bundled with Rducksassy into an existing compatible DuckDB DBI connection.

Usage

```
rducksassy_load(con)
```

Arguments

con	A DuckDB DBI connection.
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Value

con, invisibly.

Examples

```
driver <- duckdb::duckdb(  
  config = list(allow_unsigned_extensions = "true"),  
  shared_home = FALSE  
)  
con <- DBI::dbConnect(driver)  
rducksassy_load(con)  
DBI::dbDisconnect(con, shutdown = TRUE)
```

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