

# CENTREannotation

August 6, 2025

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CENTREannotDb	<i>Class object for the CENTRE annotation data</i>
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## Description

The CENTRE annotation data is accessed through objects of CENTREannotDb class. That either provides access to the ENCODE screen V3 annotation for Human <https://screen.encodeproject.org> or gives access to GENCODE basic gene annotation version 40.

## Usage

```
CENTREannotDb(x)
```

```
tables(x)
```

## Arguments

x	sqlite file path
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## Details

Using `tables(x)` on a CENTREannotDb object returns the tables and columns for each table in the database.

## Value

class CENTREannotDb

## References

Based on CompoundDb::CompDb.

## Examples

```
##load the screen V3 annotation
ah <- AnnotationHub::AnnotationHub()
screen <- ah[["AH116731"]]
tables(screen) #get all tables and columns in the data base
```

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`fetch_data`*Fetch data from the CENTREannotDb databases*

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### Description

Main interface to fetch data from the CENTREannotation package databases through the CENTREannotDb objects.

### Usage

```
fetch_data(x, columns, entries, column_filter)
```

### Arguments

<code>x</code>	A CENTREannotDb object.
<code>columns</code>	Columns to select (vector or string). Equivalent to X in SELECT X.
<code>entries</code>	Element ID to select (vector or sting). Equivalent to ID in SELECT X FROM TABLE WHERE ID in Z. If entries or column_filter is missing the program assumes the query is SELECT X FROM TABLE.
<code>column_filter</code>	Column on which to apply filter. Equivalent to Z in SELECT X FROM TABLE WHERE ID in Z. If entries or column_filter is missing the program assumes the query is SELECT X FROM TABLE.

### Value

data.frame with the queried data.

### References

Based on the internal query engine of CompoundDb

### Examples

```
ah <- AnnotationHub::AnnotationHub()
CENTREannotenhDb <- ah[["AH116731"]]
res <- fetch_data(CENTREannotenhDb,
  columns = c("enhancer_id", "start"),
  entries = c("EH38E1519134", "EH38E1519132"),
  column_filter = "enhancer_id"
)
```

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