

Package: PlantTxDbHub (via r-universe)

June 10, 2026

Title AnnotationHub-based TxDb databases for Arabidopsis, rice, and soybean

Description Provides TxDb (transcript database) annotations for three plant species: Arabidopsis thaliana (TAIR10), Oryza sativa (IRGSP-1.0), and Glycine max (Wm82 v2.1), all based on Ensembl Plants release 62. The SQLite files are hosted on Zenodo and are retrieved on-demand via AnnotationHub, keeping the package lightweight.

Version 0.99.1

Depends R (>= 4.5.0)

Imports AnnotationHub

Suggests knitr, rmarkdown, testthat (>= 3.0.0), BiocStyle, BiocManager, AnnotationHubData, RSQLite, DBI, curl, GenomeInfoDb, GenomicFeatures

Encoding UTF-8

VignetteBuilder knitr

License Artistic-2.0

biocViews AnnotationData, AnnotationHub, TxDb, Arabidopsis_thaliana, Oryza_sativa, Glycine_max, SequenceAnnotation

URL <https://github.com/kabilanbio/PlantTxDbHub>

BugReports <https://github.com/kabilanbio/PlantTxDbHub/issues>

Config/roxygen2/version 8.0.0

Config/pak/sysreqs libicu-dev libpng-dev libssl-dev zlib1g-dev

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

Date/Publication 2026-06-10 04:58:22 UTC

RemoteUrl <https://github.com/BiocStaging/PlantTxDbHub>

RemoteRef HEAD

RemoteSha 166603121f57de1e05379e1e0c1ec88a060711b6

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PlantTxDbHub-package *PlantTxDbHub: AnnotationHub-based TxDb databases for plants*

Description

Provides TxDb (transcript database) annotations for three plant species: *Arabidopsis thaliana* (TAIR10), *Oryza sativa* (IRGSP-1.0), and *Glycine max* (Wm82 v2.1), all based on Ensembl Plants release 62. The SQLite files are hosted on Zenodo and are retrieved on-demand via AnnotationHub, keeping the package lightweight.

Author(s)

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See Also

Useful links:

- <https://github.com/kabilanbio/PlantTxDbHub>
- Report bugs at <https://github.com/kabilanbio/PlantTxDbHub/issues>

downloadPlantTxDBs *Download plant TxDb SQLite files from Zenodo*

Description

Downloads the three plant transcript annotation databases (*Arabidopsis thaliana* TAIR10, *Glycine max* Wm82, *Oryza sativa* IRGSP-1.0) from Zenodo record 20606038. Files are stored in a persistent user data directory and are re-downloaded automatically if corrupted.

Usage

```
downloadPlantTxDBs(
  dest_dir = tools::R_user_dir("PlantTxDbHub", "data"),
  timeout = 300,
  download = TRUE
)
```

Arguments

<code>dest_dir</code>	A character string specifying where to save the SQLite files. Defaults to a package-specific user data directory (see <code>[tools::R_user_dir()]</code>).
<code>timeout</code>	Numeric. Maximum download time in seconds per file. Default 300 (5 minutes).
<code>download</code>	Logical. If 'TRUE' (default), files are actually downloaded. If 'FALSE', the function only prepares the directory and returns its path without attempting any download.

Value

Invisibly returns the normalized path to the destination directory.

Examples

```
# Show the path without downloading
downloadPlantTxDBs(download = FALSE)

## Not run:
# Actual download (requires internet)
downloadPlantTxDBs()

## End(Not run)
```

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