# Package 'TENxIO'

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Type Package Title Import methods for 10X Genomics files Version 1.9.3 **Depends** R (>= 4.2.0), SingleCellExperiment, SummarizedExperiment Imports BiocBaseUtils, BiocGenerics, BiocIO, GenomeInfoDb, GenomicRanges, HDF5Array, Matrix, MatrixGenerics, methods, RCurl, readr, rhdf5, R.utils, S4Vectors, utils Suggests BiocStyle, DropletTestFiles, ExperimentHub, knitr, RaggedExperiment (>= 1.29.5), rmarkdown, Rsamtools, tinytest Description Provides a structured S4 approach to importing data files from the 10X pipelines. It mainly supports Single Cell Multiome ATAC + Gene Expression data among other data types. The main Bioconductor data representations used are SingleCellExperiment and RaggedExperiment. biocViews Software, Infrastructure, DataImport, SingleCell VignetteBuilder knitr License Artistic-2.0 **Encoding** UTF-8 **Roxygen** list(markdown = TRUE) RoxygenNote 7.3.2 BugReports https://github.com/waldronlab/TENxIO/issues URL https://github.com/waldronlab/TENxIO Collate 'TENxFile-class.R' 'TENxFileList-class.R' 'TENxFragments-class.R' 'TENxH5-class.R' 'TENxIO-package.R' 'TENxMTX-class.R' 'TENxPeaks-class.R' 'TENxTSV-class.R' 'utils.R' Date 2024-11-13 git\_url https://git.bioconductor.org/packages/TENxIO git\_branch devel

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TENxFile

TENxFile constructor function

# Description

The TENxFile constructor function serves as the auto-recognizer function for 10X files. It can import several different file extensions, namely:

\* H5 - on-disk HDF5 \* MTX - matrix market \* .tar.gz - compressed tarball

# Usage

```
TENxFile(resource, extension, ...)
```

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# **TENxFile-class**

#### Arguments

resource	character(1) The path to the file
extension	character(1) The file extension for the given resource. It can usually be obtained from the file path. An override can be provided especially for ExperimentHub resources where the file extension is removed.
	Additional inputs to the low level class generator functions

# Details

**Note** that the example below includes the use of a large  $\sim 4$  GB ExperimentHub resource obtained from the 10X website.

#### Value

A subclass of TENxFile according to the input file extension

#### Examples

```
if (interactive()) {
```

```
## from ExperimentHub
hub <- ExperimentHub::ExperimentHub()
fname <- hub[["EH1039"]]
TENxFile(fname, extension = "h5", group = "mm10", version = "2")
TENxFile(fname, extension = "h5", group = "mm10", version = "2") |>
metadata()
```

TENxFile-class TENxFile: General purpose class for 10X files

# Description

}

The TENxFile class is the default representation for unrecognized subclasses. It inherits from the BiocFile class and adds a few additional slots. The constructor function can handle typical 10X file types. For more details, see the constructor function documentation.

#### Usage

```
## S4 method for signature 'TENxFile'
metadata(x, ...)
```

#### Arguments

х	An object of class TENxFile, TENxFileList, TENxMTX, TENxH5, TENxPeaks, TENxTSV, or derivatives
	Additional arguments (not used)

#### Value

A list of metadata for the given object

#### **Functions**

metadata(TENxFile): metadata method for TENxFile objects

#### Slots

- extension character(1) The file extension as extracted from the file path or overridden via the ext argument in the constructor function.
- colidx integer(1) The column index corresponding to the columns in the file that will subsequently be imported
- rowidx integer(1) The row index corresponding to rows in the file that will subsequently be imported

remote logical(1) Whether the file exists on the web, i.e., the resource is a URL

compressed logical(1) Whether the file is compressed with, e.g., .gz

TENxFileList

TENxFileList: Represent groups of files from 10X Genomic

#### Description

This constructor function is meant to handle .tar.gz tarball files from 10X Genomics.

# Usage

```
TENxFileList(..., version, compressed = FALSE)
```

#### Arguments

	Typically, a file path to a tarball archive. Can be named arguments corresponding
	to file paths, or a named list of file paths.
version	character(1) The version in the tarball. See details.
compressed	logical(1) Whether or not the file provided is compressed, usually as tar.gz
	(default FALSE)

#### **Details**

These tarballs usually contain three files:

- 1. matrix.mtx.gz the counts matrix
- 2. features.tsv.gz row metadata usually represented as rowData
- 3. barcodes.tsv.gz column names corresponding to cell barcode identifiers If all above files are in the tarball, the import method will provide a SingleCellExperiment. Otherwise, a simple list of imported data is given. Note that version "3" uses 'features.tsv.gz' and version "2" uses 'genes.tsv.gz'. If known, indicate the version argument in the TENxFileList constructor function.

# TENxFileList

# Value

Either a SingleCellExperiment or a list of imported data

# Examples

```
fl <- system.file(</pre>
    "extdata", "pbmc_granulocyte_sorted_3k_ff_bc_ex_matrix.tar.gz",
    package = "TENxIO", mustWork = TRUE
)
## Method 1 (tarball)
TENxFileList(fl)
## metadata before import
metadata(TENxFileList(fl))
## import() method
import(TENxFileList(fl))
## metadata after import
import(TENxFileList(fl)) |>
    metadata()
## untar to simulate folder output
dir.create(tdir <- tempfile())</pre>
untar(fl, exdir = tdir)
## Method 2 (folder)
TENxFileList(tdir)
import(TENxFileList(tdir))
## Method 3 (list of TENxFile objects)
files <- list.files(tdir, recursive = TRUE, full.names = TRUE)</pre>
names(files) <- basename(files)</pre>
filelist <- lapply(files, TENxFile)</pre>
TENxFileList(filelist, compressed = FALSE)
## Method 4 (SimpleList)
TENxFileList(as(filelist, "SimpleList"), compressed = FALSE)
## Method 5 (named arguments)
TENxFileList(
    barcodes.tsv.gz = TENxFile(files[1]),
    features.tsv.gz = TENxFile(files[2]),
    matrix.mtx.gz = TENxFile(files[3])
)
unlink(tdir, recursive = TRUE)
```

TENxFileList-class TENxFileList: A list-like representation for TENxFiles

# Description

This class was designed to mainly handle tarballs from 10X Genomics. The typical file extension for these tarballs is .tar.gz.

# Usage

```
## S4 method for signature 'TENxFileList'
path(object, ...)
## S4 method for signature 'TENxFileList'
decompress(manager, con, ...)
```

## S4 method for signature 'TENxFileList,ANY,ANY'
import(con, format, text, ...)

```
## S4 method for signature 'TENxFileList'
metadata(x, ...)
```

# Arguments

object	An object containing paths. Even though it will typically contain a single path, object can actually contain an arbitrary number of paths.
	Additional arguments (not used)
manager	A ConnectionManager internal instance; currently not used.
con	The connection from which data is loaded or to which data is saved. If this is a character vector, it is assumed to be a file name and a corresponding file connection is created and then closed after exporting the object. If it is a <b>BiocFile</b> derivative, the data is loaded from or saved to the underlying resource. If missing, the function will return the output as a character vector, rather than writing to a connection.
format	The format of the output. If missing and con is a file name, the format is derived from the file extension. This argument is unnecessary when con is a derivative of BiocFile.
text	If con is missing, this can be a character vector directly providing the string data to import.
x	An object of class TENxFile, TENxFileList, TENxMTX, TENxH5, TENxPeaks, TENxTSV, or derivatives

#### **TENxFragments**

#### Details

These tarballs usually contain three files:

- 1. matrix.mtx.gz the counts matrix
- 2. features.tsv.gz row metadata usually represented as rowData
- 3. barcodes.tsv.gz column names corresponding to cell barcode identifiers Note that version '2' includes genes.tsv.gz instead of features.tsv.gz in version '3'.

An additional ref argument can be provided when the file contains multiple feature\_type in the file or "Type" in the rowData. By default, the first type reported in table() is set as the mainExpName in the SingleCellExperiment object.

#### Value

A TENxFileList class object

# Functions

- path(TENxFileList): Obtain file paths for all files in the object as a vector
- decompress(TENxFileList): An intermediate method for decompressing (via untar) the contents of a .tar.gz file list
- import(con = TENxFileList, format = ANY, text = ANY): Recursively import files within a TENxFileList
- metadata(TENxFileList): metadata method for TENxFileList objects

#### Slots

listData list() The data in list format
extension character() A vector of file extensions for each file
compressed logical(1) Whether the file is compressed as .tar.gz
version character(1) The version number of the tarball usually either '2' or '3'

TENxFragments TENxFragments: Import fragments files from 10X

# Description

TENxFragments: Import fragments files from 10X

```
TENxFragments(resource, yieldSize = 200, which = GRanges(), ...)
```

# Arguments

resource	character(1) The file path to the fragments resource, usually a compressed tabix file with extension .tsv.gz.
yieldSize	numeric() The number of records to read by default, 200 records will be imported. A warning will be emitted if not modified.
which	$GRanges()\ A\ GRanges\ indicating the regions\ of\ interest.$ This get sent to <code>RSamtools</code> as the param input.
	Further arguments to the class generator function (currently not used)

# Value

A RaggedExperiment object class

# Examples

```
fr <- system.file(
    "extdata", "pbmc_3k_atac_ex_fragments.tsv.gz",
    package = "TENxIO", mustWork = TRUE
)

tfr <- TENxFragments(fr)
fra <- import(tfr)</pre>
```

TENxFragments-class TENxFragments: A class to represent fragments data as GRanges

# Description

This class is designed to work mainly with fragments.tsv.gz files from 10x pipelines.

# Usage

```
## S4 method for signature 'TENxFragments,ANY,ANY'
import(con, format, text, ...)
```

#### Arguments

```
con
```

The connection from which data is loaded or to which data is saved. If this is a character vector, it is assumed to be a file name and a corresponding file connection is created and then closed after exporting the object. If it is a **BiocFile** derivative, the data is loaded from or saved to the underlying resource. If missing, the function will return the output as a character vector, rather than writing to a connection.

# TENxH5

format	The format of the output. If missing and con is a file name, the format is derived from the file extension. This argument is unnecessary when con is a derivative of BiocFile.
text	If con is missing, this can be a character vector directly providing the string data to import.
	Parameters to pass to the format-specific method.

# Details

Fragments data from 10x can be quite large. In order to speed up the initial exploration of the data, we use a default of **200** records for loading. Users can change this default value by specifying a new one via the yieldSize argument in the constructor function.

# Value

A TENxFragments class object

#### Methods (by generic)

• import(con = TENxFragments, format = ANY, text = ANY): Import method for representing fragments.tsv.gz data from 10x via Rsamtools and RaggedExperiment

# Slots

- which GRanges() A GRanges indicating the regions of interest. This get sent to RSamtools as the param input.
- yieldSize numeric() The number of records to read by default, 200 records will be imported. A warning will be emitted if not modified.

TENxH5

TENxH5: Represent H5 files from 10X

#### Description

This constructor function was developed using the PBMC 3K dataset from 10X Genomics (version 3). Other versions are supported and input arguments version and group can be overridden.

```
TENxH5(resource, version, group, ranges, rowidx, colidx, ...)
```

#### Arguments

resource	character(1) The path to the file
version	character(1) There are currently two recognized versions associated with 10X data, either version "2" or "3". See details for more information.
group	character(1) The HDF5 group embedded within the file structure, this is usually either the "matrix" or "outs" group but other groups are supported as well (e.g., "mm10").
ranges	character(1) The HDF5 internal folder location embedded within the file that points to the ranged data information, e.g., "/features/interval". Set to NA_character_ if range information is not present.
rowidx, colidx	numeric() A vector of indices corresponding to either rows or columns that will dictate the data imported from the file. The indices will be passed on to the [method of the TENxMatrix representation.
	Additional inputs to the low level class generator functions

#### Details

The various TENxH5 methods including rowData and rowRanges, provide a snapshot of the data using a length 12 head and tail subset for efficiency. In contrast, methods such as dimnames and dim give a full view of the dimensions of the data. The show method provides relevant information regarding the dimensions of the data including metadata such as rowData and "Type" column, if available. The term "projection" refers to the data class that will be provided once the data file is imported.

An additional ref argument can be provided when the file contains multiple feature\_type in the file or "Type" in the rowData. By default, the first type reported in table() is set as the mainExpName in the SingleCellExperiment object.

For data that do not contain genomic coordinate information, the TENxH5 will fail to read "/features/interval" and will set the ranges argument to NA\_character\_.

The data version "3" mainly includes a "matrix" group and "interval" information within the file. Version "2" data does not include ranged-based information and has a different directory structure compared to version "3". See the internal data.frame: TENxIO:::h5.version.map for a map of fields and their corresponding file locations within the H5 file. This map is used to create the rowData structure from the file.

# Value

Usually, a SingleCellExperiment instance

#### See Also

```
import section in TENxH5
```

#### Examples

```
h5f <- system.file(
    "extdata", "pbmc_granulocyte_ff_bc_ex.h5",
```

```
package = "TENxIO", mustWork = TRUE
)
TENxH5(h5f)
import(TENxH5(h5f))
h5f <- system.file(
    "extdata", "10k_pbmc_ATACv2_f_bc_ex.h5",
    package = "TENxIO", mustWork = TRUE
)
## Optional ref input, most frequent Type used by default
th5 <- TENxH5(h5f, ranges = "/features/id", ref = "Peaks")
th5
TENxH5(h5f, ranges = "/features/id")
import(th5)</pre>
```

TENxH5-class

TENxH5: The HDF5 file representation class for 10X Data

#### Description

This class is designed to work with 10x Single Cell datasets. It was developed using the PBMC 3k 10X dataset from the CellRanger v2 pipeline.

```
## S4 method for signature 'TENxH5'
rowData(x, use.names = TRUE, ...)
## S4 method for signature 'TENxH5'
dim(x)
## S4 method for signature 'TENxH5'
dimnames(x)
## S4 method for signature 'TENxH5'
genome(x)
## S4 method for signature 'TENxH5'
rowRanges(x, ...)
## S4 method for signature 'TENxH5,ANY,ANY'
import(con, format, text, ...)
## S4 method for signature 'TENxH5'
show(object)
```

#### Arguments

Х	A TENxH5 object
use.names	For rowData: Like mcols(x), by default rowData(x) propagates the rownames of x to the returned DataFrame object (note that for a SummarizedExperiment object or derivative, the rownames are also the names i.e. rownames(x) is al- ways the same as names(x)). Setting use.names=FALSE suppresses this prop- agation i.e. it returns a DataFrame object with no rownames. Use this when rowData(x) fails, which can happen when the rownames contain NAs (because the rownames of a SummarizedExperiment object or derivative can contain NAs, but the rownames of a DataFrame object cannot). For combineRows and combineCols: See Combining section below.
	For assay, arguments in are forwarded to assays.
	For rbind, cbind, contains SummarizedExperiment objects (or derivatives) to be combined. For other accessors, ignored.
con	The connection from which data is loaded or to which data is saved. If this is a character vector, it is assumed to be a file name and a corresponding file connection is created and then closed after exporting the object. If it is a <b>BiocFile</b> derivative, the data is loaded from or saved to the underlying resource. If missing, the function will return the output as a character vector, rather than writing to a connection.
format	The format of the output. If missing and con is a file name, the format is derived from the file extension. This argument is unnecessary when con is a derivative of BiocFile.
text	If con is missing, this can be a character vector directly providing the string data to import.
object	A TENxH5 class object

# Details

The data version "3" mainly includes a "matrix" group and "interval" information within the file. Version "2" data does not include ranged-based information and has a different directory structure compared to version "3". See the internal data.frame: TENxIO:::h5.version.map for a map of fields and their corresponding file locations within the H5 file. This map is used to create the rowData structure from the file.

#### Value

A TENxH5 class object

#### Methods (by generic)

- rowData(TENxH5): Generate the rowData ad hoc from a TENxH5 file
- dim(TENxH5): Get the dimensions of the data as stored in the file
- dimnames(TENxH5): Get the dimension names from the file

# TENxIO

- genome(TENxH5): Read genome string from file
- rowRanges(TENxH5): Read interval data and represent as GRanges
- import(con = TENxH5, format = ANY, text = ANY): Import TENxH5 data as a SingleCell-Experiment; see section below
- show(TENxH5): Display a snapshot of the contents within a TENxH5 file before import

### Slots

- version character(1) There are currently two recognized versions associated with 10X data, either version "2" or "3". See details for more information.
- group character(1) The HDF5 group embedded within the file structure, this is usually either the "matrix" or "outs" group but other groups are supported as well.
- ranges character(1) The HDF5 internal folder location embedded within the file that points to the ranged data information, e.g., "/features/interval".

#### import

The import method uses DelayedArray::TENxMatrix to represent matrix data. Generally, version 3 datasets contain associated genomic coordinates. The associated feature data, as displayed by the rowData method, is queried for the "Type" column which will indicate that a splitAltExps operation is appropriate. If a ref input is provided to the constructor function TENxH5, it will be used as the main experiment; otherwise, the most frequent category in the "Type" column will be used. For example, the Multiome ATAC + Gene Expression feature data contains both 'Gene Expression' and 'Peaks' labels in the "Type" column.

#### See Also

#### TENxH5

TENxIO

TENxIO: A Bioconductor package for importing 10X Genomics files

#### Description

The package provides file classes based on BiocIO for common file extensions found in the 10X Genomics website.

#### Supported file types

Here is a table of supported file and file extensions and their imported classes:

Extension	Class	Imported as
.h5	TENxH5	SingleCellExperiment w/ TENxMatrix
.mtx / .mtx.gz	TENxMTX	SummarizedExperiment w/ dgCMatrix
.tar.gz	TENxFileList	SingleCellExperiment w/ dgCMatrix
peak_annotation.tsv	TENxPeaks	GRanges

# TENxMTX

fragments.tsv.gz	TENxFragments	RaggedExperiment
.tsv / .tsv.gz	TENxTSV	tibble

#### Author(s)

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# See Also

Useful links:

- https://github.com/waldronlab/TENxIO
- Report bugs at https://github.com/waldronlab/TENxIO/issues

TENxMTX

TENxMTX: Represent Matrix Market Format Files from 10X

# Description

This constructor function accepts .mtx and .mtx.gz compressed formats for eventual importing. It is mainly used with tarball files from 10X Genomics, where more annotation data is included. Importing solely the .mtx format will provide users with a SummarizedExperiment with an assay of class dgCMatrix from the Matrix package. Currently, other formats are not supported but if you'd like to request support for a format, please open an issue on GitHub.

#### Usage

```
TENxMTX(resource, compressed = FALSE, ...)
```

#### Arguments

resource	character(1) The path to the file
compressed	logical(1) Whether the resource file is compressed (default FALSE)
	Additional inputs to the low level class generator functions

# Value

A SummarizedExperiment instance with a dgCMatrix in the assay

# TENxMTX-class

# Examples

```
mtxf <- system.file(
    "extdata", "pbmc_3k_ff_bc_ex.mtx",
    package = "TENxIO", mustWork = TRUE
)
con <- TENxMTX(mtxf)
import(con)</pre>
```

TENxMTX-class TENxMTX: The Matrix Market representation class for 10X Data

#### Description

This class is designed to work with 10x MTX datasets, particularly from the multiome pipelines.

### Usage

```
## S4 method for signature 'TENxMTX,ANY,ANY'
import(con, format, text, ...)
```

# Arguments

con	The connection from which data is loaded or to which data is saved. If this is a character vector, it is assumed to be a file name and a corresponding file connection is created and then closed after exporting the object. If it is a BiocFile derivative, the data is loaded from or saved to the underlying resource. If missing, the function will return the output as a character vector, rather than writing to a connection.
format	The format of the output. If missing and con is a file name, the format is derived from the file extension. This argument is unnecessary when con is a derivative of BiocFile.
text	If con is missing, this can be a character vector directly providing the string data to import.
	Parameters to pass to the format-specific method.

#### Details

The TENxMTX class is a straightforward implementation that allows the user to import a Matrix Market file format using Matrix::readMM. Currently, it returns a SummarizedExperiment with an internal dgCMatrix assay. To request other formats, please open an issue on GitHub.

# Value

A TENxMTX class object

#### Methods (by generic)

 import(con = TENxMTX, format = ANY, text = ANY): Import method mainly for mtx.gz files from 10x

#### Slots

compressed logical(1) Whether or not the file is in compressed format, usually gzipped (.gz).

**TENxPeaks** 

Import 10x peak annotation files from 10x

#### Description

This constructor function is designed to work with the files denoted with "peak\_annotation" in the file name. These are usually produced as tab separated value files, i.e., .tsv.

#### Usage

```
TENxPeaks(resource, extension, ...)
```

### Arguments

resource	character(1) The path to the file
extension	character(1) The file extension for the given resource. It can usually be obtained from the file path. An override can be provided especially for ExperimentHub resources where the file extension is removed.
	Additional inputs to the low level class generator functions

# Details

The output class allows handling of peak data. It can be used in conjunction with the annotation method on a SingleCellExperiment to add peak information to the experiment. The ranged data is represented as a GRanges class object.

#### Value

A GRanges class object of peak locations

#### Examples

```
fi <- system.file(
    "extdata", "pbmc_granulocyte_sorted_3k_ex_atac_peak_annotation.tsv",
    package = "TENxIO", mustWork = TRUE
)
peak_file <- TENxPeaks(fi)
peak_anno <- import(peak_file)
peak_anno</pre>
```

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# TENxPeaks-class

```
example(TENxH5)
## Add peaks to an existing SCE
## First, import the SCE from an example H5 file
h5f <- system.file(
    "extdata", "pbmc_granulocyte_ff_bc_ex.h5",
    package = "TENxIO", mustWork = TRUE
)
con <- TENxH5(h5f)
sce <- import(con)
## auto-import peaks when using annotation<-
annotation(sce, name = "peak_annotation") <- peak_file
annotation(sce)</pre>
```

TENxPeaks-classTENxPeaks: The class to represent 10x Peaks files

# Description

This class is designed to work with the files denoted with "peak\_annotation" in the file name. These are usually produced as tab separated value files, i.e., .tsv.

# Usage

## S4 method for signature 'TENxPeaks,ANY,ANY'
import(con, format, text, ...)

```
## S4 replacement method for signature 'SingleCellExperiment,ANY'
annotation(object, ...) <- value</pre>
```

```
## S4 method for signature 'SingleCellExperiment'
annotation(object, ...)
```

## Arguments

con	The connection from which data is loaded or to which data is saved. If this is a character vector, it is assumed to be a file name and a corresponding file connection is created and then closed after exporting the object. If it is a BiocFile derivative, the data is loaded from or saved to the underlying resource. If missing, the function will return the output as a character vector, rather than writing to a connection.
format	The format of the output. If missing and con is a file name, the format is derived from the file extension. This argument is unnecessary when con is a derivative of BiocFile.
text	If con is missing, this can be a character vector directly providing the string data to import.

•••	Parameters to pass to the format-specific method.
object	The object to export.
value	The annotation information to set on object.

#### Details

This class is a straightforward class for handling peak data. It can be used in conjunction with the annotation method on a SingleCellExperiment to add peak information to the experiment. The ranged data is represented as a GRanges class object.

#### Value

A TENxPeaks class object

#### Functions

- import(con = TENxPeaks, format = ANY, text = ANY): Import a peaks\_annotation file from 10x as a GRanges representation
- annotation(object = SingleCellExperiment) <- value: Replacement method to add annotation data to a SingleCellExperiment
- annotation(SingleCellExperiment): Extraction method to obtain annotation data from a SingleCellExperiment representation

TENxTSV-class TENxTSV: A class to represent 10x tab separated values files

# Description

This class is general purpose for reading in tabular data from the 10x Genomics website with the .tsv file extension. The class also supports compressed files, i.e., those with the .tsv.gz extension.

```
## S4 method for signature 'TENxTSV,ANY,ANY'
import(con, format, text, ...)
TENxTSV(resource, compressed = FALSE, ...)
## S4 method for signature 'TENxTSV'
metadata(x, ...)
```

# TENxTSV-class

# Arguments

con	The connection from which data is loaded or to which data is saved. If this is a character vector, it is assumed to be a file name and a corresponding file connection is created and then closed after exporting the object. If it is a BiocFile derivative, the data is loaded from or saved to the underlying resource. If missing, the function will return the output as a character vector, rather than writing to a connection.
format	The format of the output. If missing and con is a file name, the format is derived from the file extension. This argument is unnecessary when con is a derivative of BiocFile.
text	If con is missing, this can be a character vector directly providing the string data to import.
	Parameters to pass to the format-specific method.
resource	character(1) The path to the file
compressed	logical(1) Whether the resource file is compressed (default FALSE)
х	A TENxTSV object

# Details

Typical .tsv files obtained from the 10X website are compressed and contain information relevant to 'barcodes' and 'features'. Currently, the code only supports files such as features.tsv.\* and barcodes.tsv.\*.

# Value

A TENxTSV class object; a tibble for the import method

## Functions

- import(con = TENxTSV, format = ANY, text = ANY): General import method for tsv files from 10x; using readr::read\_tsv and returning a tibble representation
- metadata(TENxTSV): metadata method for TENxTSV objects

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