

sugarcaneCDF

November 10, 2025

i2xy

Convert (x,y)-coordinates to single-number indices and back.

Description

Convert (x,y)-coordinates on the chip (and in the CEL file) to the single-number indices used in AffyBatch and CDF environment, and back.

Usage

```
i2xy(i)
xy2i(x,y)
```

Arguments

x	numeric. x-coordinate (from 1 to 478)
y	numeric. y-coordinate (from 1 to 478)
i	numeric. single-number index (from 1 to 228484)

Details

Type i2xy and xy2i at the R prompt to view the function definitions.

See Also

[sugarcaneCDF](#)

Examples

```
xy2i(5,5)
i      = 1:(478*478)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

sugarcanecdf	<i>sugarcanecdf</i>
--------------	---------------------

Description

environment describing the CDF file

sugarcanedim	<i>sugarcanedim</i>
--------------	---------------------

Description

environment describing the CDF dimensions

Index

* datasets

i2xy, 1

sugarcaneCDF, 2

sugarcaneDim, 2

i2xy, 1

sugarcaneCDF, 1, 2

sugarcaneDim, 2

xy2i (i2xy), 1