

rat2302cdf

May 27, 2026

`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

<code>x</code>	numeric. x-coordinate (from 1 to 834)
<code>y</code>	numeric. y-coordinate (from 1 to 834)
<code>i</code>	numeric. single-number index (from 1 to 695556)

Details

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

See Also

[rat2302cdf](#)

Examples

```
xy2i(5,5)
i      = 1:(834*834)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

rat2302cdf	<i>rat2302cdf</i>
------------	-------------------

Description

environment describing the CDF file

rat2302dim	<i>rat2302dim</i>
------------	-------------------

Description

environment describing the CDF dimensions

Index

* datasets

i2xy, 1

rat2302cdf, 2

rat2302dim, 2

i2xy, 1

rat2302cdf, 1, 2

rat2302dim, 2

xy2i (i2xy), 1