

hgu219cdf

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 744) |
| <code>y</code> | numeric. y-coordinate (from 1 to 744) |
| <code>i</code> | numeric. single-number index (from 1 to 553536) |

Details

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

See Also

[hgu219cdf](#)

Examples

```
xy2i(5,5)
i      = 1:(744*744)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

hgu219cdf

hgu219cdf

Description

environment describing the CDF file

hgu219dim

hgu219dim

Description

environment describing the CDF dimensions

Index

* datasets

hgu219cdf, [2](#)

hgu219dim, [2](#)

i2xy, [1](#)

hgu219cdf, [1](#), [2](#)

hgu219dim, [2](#)

i2xy, [1](#)

xy2i (i2xy), [1](#)