

hgu133a2cdf

April 9, 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 732)
y	numeric. y-coordinate (from 1 to 732)
i	numeric. single-number index (from 1 to 535824)

Details

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

See Also

[hgu133a2cdf](#)

Examples

```
xy2i(5,5)
i      = 1:(732*732)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

hgu133a2cdf	<i>hgu133a2cdf</i>
-------------	--------------------

Description

environment describing the CDF file

hgu133a2dim	<i>hgu133a2dim</i>
-------------	--------------------

Description

environment describing the CDF dimensions

Index

* datasets

hgu133a2cdf, 2

hgu133a2dim, 2

i2xy, 1

hgu133a2cdf, 1, 2

hgu133a2dim, 2

i2xy, 1

xy2i (i2xy), 1