

hugene10stv1cdf

October 16, 2024

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 1050) |
| y | numeric. y-coordinate (from 1 to 1050) |
| i | numeric. single-number index (from 1 to 1102500) |

Details

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

See Also

[hugene10stv1cdf](#)

Examples

```
xy2i(5,5)  
i = 1:(1050*1050)  
coord = i2xy(i)  
j = xy2i(coord[, "x"], coord[, "y"])  
stopifnot(all(i==j))  
range(coord[, "x"])  
range(coord[, "y"])
```

| | |
|------------------------|------------------------|
| <i>hugene10stv1cdf</i> | <i>hugene10stv1cdf</i> |
|------------------------|------------------------|

Description

environment describing the CDF file

| | |
|------------------------|------------------------|
| <i>hugene10stv1dim</i> | <i>hugene10stv1dim</i> |
|------------------------|------------------------|

Description

environment describing the CDF dimensions

Index

* datasets

hugene10stv1cdf, [2](#)

hugene10stv1dim, [2](#)

i2xy, [1](#)

hugene10stv1cdf, [1](#), [2](#)

hugene10stv1dim, [2](#)

i2xy, [1](#)

xy2i (i2xy), [1](#)