

# ragene10stv1cdf

August 6, 2025

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i2xy

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

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## 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

[ragene10stv1cdf](#)

## 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"])
```

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<code>ragene10stv1cdf</code>	<i>ragene10stv1cdf</i>
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**Description**

environment describing the CDF file

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<code>ragene10stv1dim</code>	<i>ragene10stv1dim</i>
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**Description**

environment describing the CDF dimensions

# Index

## \* datasets

[i2xy](#), [1](#)

[ragene10stv1cdf](#), [2](#)

[ragene10stv1dim](#), [2](#)

[i2xy](#), [1](#)

[ragene10stv1cdf](#), [1](#), [2](#)

[ragene10stv1dim](#), [2](#)

[xy2i](#) ([i2xy](#)), [1](#)