

# mogene10stv1cdf

September 18, 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

[mogene10stv1cdf](#)

## 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"])
```

---

mogene10stv1cdf	<i>mogene10stv1cdf</i>
-----------------	------------------------

---

**Description**

environment describing the CDF file

---

mogene10stv1dim	<i>mogene10stv1dim</i>
-----------------	------------------------

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

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

[mogene10stv1cdf](#), [2](#)

[mogene10stv1dim](#), [2](#)

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

[mogene10stv1cdf](#), [1](#), [2](#)

[mogene10stv1dim](#), [2](#)

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