

# ecoli2cdf

September 10, 2025

---

ecoli2cdf

*ecoli2cdf*

---

## Description

environment describing the CDF file

---

ecoli2dim

*ecoli2dim*

---

## Description

environment describing the CDF dimensions

---

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 478)           |
| y | numeric. y-coordinate (from 1 to 478)           |
| i | numeric. single-number index (from 1 to 228484) |

**Details**

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

**See Also**

[ecoli2cdf](#)

**Examples**

```
xy2i(5,5)
i      = 1:(478*478)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

# Index

## \* datasets

ecoli2cdf, [1](#)

ecoli2dim, [1](#)

i2xy, [1](#)

ecoli2cdf, [1](#), [2](#)

ecoli2dim, [1](#)

i2xy, [1](#)

xy2i (i2xy), [1](#)