

# barley1cdf

June 9, 2011

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barley1cdf	<i>barley1cdf</i>
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## Description

environment describing the CDF file

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barley1dim	<i>barley1dim</i>
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## Description

environment describing the CDF dimensions

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i2xy	<i>Convert (x,y)-coordinates to single-number indices and back.</i>
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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 712)
y	numeric. y-coordinate (from 1 to 712)
i	numeric. single-number index (from 1 to 506944)

**Details**

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

**See Also**

[barley1cdf](#)

**Examples**

```
xy2i(5,5)
i      = 1:(712*712)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

# Index

## \*Topic **datasets**

barley1cdf, 1

barley1dim, 1

i2xy, 1

barley1cdf, 1, 2

barley1dim, 1

i2xy, 1

xy2i (i2xy), 1