

# celeganscdf

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## R topics documented:

celeganscdf . . . . .	1
celegansdim . . . . .	1
i2xy . . . . .	1

<b>Index</b>	<b>3</b>
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celeganscdf	<i>celeganscdf</i>
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### Description

environment describing the CDF file

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celegansdim	<i>celegansdim</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**

[celeganscdf](#)

**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**

celeganscdf, [1](#)

celegansdim, [1](#)

i2xy, [1](#)

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

celegansdim, [1](#)

i2xy, [1](#)

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