

# Package ‘tinesath1cdf’

August 7, 2025

**Title** tinesath1cdf  
**Version** 1.47.0  
**Created** Monday August 7th 2006  
**Author** Tine Casneuf  
**Description** A package containing an environment represeing the  
newcdf/tinesATH1.cdf.cdf file.  
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**License** Artistic-2.0  
**biocViews** Arabidopsis\_thaliana\_Data, ChipOnChipData  
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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.

**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"])
```

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`tinesath1cdf`*environment containing the location probe set membership mapping*

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**Description**

environment describing the CDF file

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