# Package 'tinesath1cdf'

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**Title** tinesath1cdf

**Version** 1.51.0

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**Author** Tine Casneuf

**Description** A package containing an environment represeting the newcdf/tinesATH1.cdf.cdf file.

**Maintainer** Tine Casneuf <tine@ebi.ac.uk>

**License** Artistic-2.0

**biocViews** Arabidopsis_thaliana_Data, ChipOnChipData

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`i2xy` *Convert (x,y)-coordinates to single-number indices and back.*

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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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