

# Package ‘COHCAPanno’

March 6, 2025

**Type** Package

**Title** Annotations for City of Hope CpG Island Analysis Pipeline

**Version** 1.42.0

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**Description** Provides genomic location, nearby CpG island and nearby gene information for common Illumina methylation array platforms

**License** GPL-3

**LazyLoad** yes

**biocViews** Homo\_sapiens\_Data, MicroarrayData, MethylationArrayData, CpGIslandData, GEO, ArrayExpress

**Depends** R (>= 2.10)

**git\_url** <https://git.bioconductor.org/packages/COHCAPanno>

**git\_branch** RELEASE\_3\_20

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COHCAP . 27k	<i>Annotation for UCSC CpG Islands for 27k Illumina Human Methylation Array</i>
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### Description

Contains chromosome, location, gene, and CpG island information for probes on 27k Methylation array. Annotation data comes from HumanMethylation27\_270596\_v.1.2.bpm.

Annotation File Mappings:

COHCAP "SiteID" = Name

COHCAP "Chr" = Chr

COHCAP "Loc" = MapInfo (NCBI 36.1 / hg18)

COHCAP "Gene" = Symbol

COHCAP "Island" = CPG\_ISLAND

### Usage

data(COHCAP . 27k)

### Source

27k Array: <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GPL8490>

Annotation File: <http://www.ebi.ac.uk/arrayexpress/files/A-GEOD-8490/A-GEOD-8490.adf.txt>

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COHCAP . 450k . HMM	<i>Annotation for HMM CpG Islands for 450k Illumina Human Methylation Array</i>
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### Description

Contains chromosome, location, gene, and CpG island information for probes on 450k Methylation array (except for rs## probes, which are ignored). Annotation data comes from HumanMethylation450\_15017482\_v.1.1.bpm.

Annotation File Mappings:

COHCAP "SiteID" = IlmnID

COHCAP "Chr" = CHR

COHCAP "Loc" = MAPINFO (hg19)

COHCAP "Gene" = UCSC\_RefGene\_Name

COHCAP "Island" = HMM\_Island

### Usage

data(COHCAP . 450k . HMM)

### Source

450k Array: [http://www.illumina.com/products/methylation\\_450\\_beadchip\\_kits.ilmn](http://www.illumina.com/products/methylation_450_beadchip_kits.ilmn)

Annotation File: [http://support.illumina.com/downloads/humanmethylation450\\_15017482\\_v12.ilmn](http://support.illumina.com/downloads/humanmethylation450_15017482_v12.ilmn)

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COHCAP.450k.UCSC	<i>Annotation for UCSC CpG Islands for 450k Illumina Human Methylation Array</i>
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**Description**

Contains chromosome, location, gene, and CpG island information for probes on 450k Methylation array (except for rs## probes, which are ignored). Annotation data comes from HumanMethylation450\_15017482\_v.1.1.bpm.

Annotation File Mappings:

COHCAP "SiteID" = IlmnID

COHCAP "Chr" = CHR

COHCAP "Loc" = MAPINFO (hg19)

COHCAP "Gene" = UCSC\_RefGene\_Name

COHCAP "Island" = UCSC\_CpG\_Islands\_Name

**Usage**

data(COHCAP.450k.UCSC)

**Source**

450k Array: [http://www.illumina.com/products/methylation\\_450\\_beadchip\\_kits.ilmn](http://www.illumina.com/products/methylation_450_beadchip_kits.ilmn)

Annotation File: [http://support.illumina.com/downloads/humanmethylation450\\_15017482\\_v12.ilmn](http://support.illumina.com/downloads/humanmethylation450_15017482_v12.ilmn)

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