

Package ‘COHCAPanno’

December 2, 2025

Type Package

Title Annotations for City of Hope CpG Island Analysis Pipeline

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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>

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Contents

COHCAP.27k	2
COHCAP.450k.HMM	2
COHCAP.450k.UCSC	3
Index	4

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>

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

Annotation File: http://support.illumina.com/downloads/humanmethylation450_15017482_v12.ilmn

COHCAP.450k.UCSC

Annotation for UCSC CpG Islands for 450k Illumina Human Methylation Array

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

Annotation File: http://support.illumina.com/downloads/humanmethylation450_15017482_v12.ilmn

Index

* **datasets**

COHCAP.27k, [2](#)

COHCAP.450k.HMM, [2](#)

COHCAP.450k.UCSC, [3](#)

COHCAP.27k, [2](#)

COHCAP.450k.HMM, [2](#)

COHCAP.450k.UCSC, [3](#)