Package ‘GGdata’

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Title all 90 hapmap CEU samples, 47K expression, 4mm SNP
Description data exemplars dealing with hapmap SNP reports, GWAS, etc.
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bioCViews ExperimentData, HapMap, Genome, SequencingData, MicroarrayData, SNPData
Depends R (>= 2.12.0), methods, Biobase (>= 2.5.5), GGBase, snpStats, illuminaHumanv1.db, AnnotationDbi
Enhances GGtools
LazyLoad yes
License LGPL.
NeedsCompilation no

R topics documented:

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hmceuB36

Description

representations of HapMap snp data + expression data

Usage

# getSS("GGdata", "20") # for example, to get full expression, + genotypes # on chr20

Format

ExpressionSet and SnpMatrix instances to be combined using getSS
Details

Instances of class \texttt{smlSet} are created from two basic sources.
First, the expression data for 90 CEU families in CEPH were obtained from SANGER GENEVAR
project.
Second, data on forward non-redundant SNPs in these individuals the HapMap build 36 ftp site in
march 2008. Full provenance information still to be supplied.

Value

instances of class \texttt{smlSet}

Note

As of March 2011 the \texttt{smlSet} is no longer serialized. Instead, use \texttt{getSS("GGdata", [chrs])} to
create an \texttt{smlSet} with all probes and selected chromosomes. There is an instance of \texttt{ExpressionSet-class}
named \texttt{ex} in the \texttt{data} folder of this package that will be united with genotype data using \texttt{getSS}.

Author(s)

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References

Cheung VG., Spielman RS., Ewens KG., Weber TM., Morley M & Burdick JT.: Mapping de-
terminants of human gene expression by regional and whole genome association. Nature, 437:
1365-1369, 2005

Examples

library(GGtools)
hmceuB36 = getSS("GGdata", c("20")) # just 1 chromosome
exprs(hmceuB36)[1:4,1:4]
as(smList(hmceuB36)[[1]][1:4,1:4], "character")
library(GGtools)
library(illuminaHumanv1.db)
cptag = get("CPNE1", revmap(illuminaHumanv1SYMBOL))
tt = eqtlTests(hmceuB36[probeId(cptag)], ~male)
topFeats(probeId(cptag), mgr=tt, ffind=1)
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