

illuminaHumanWGDASLv3.db

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illuminaHumanWGDASLv3ACCNUM

Map Manufacturer identifiers to Accession Numbers

Description

illuminaHumanWGDASLv3ACCNUM is an R object that contains mappings between a manufacturer's identifiers and manufacturers accessions.

Details

For chip packages such as this, the ACCNUM mapping comes directly from the manufacturer. This is different from other mappings which are mapped onto the probes via an Entrez Gene identifier.

Each manufacturer identifier maps to a vector containing a GenBank accession number.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

Examples

```
x <- illuminaHumanWGDASLv3ACCNUM
# Get the probe identifiers that are mapped to an ACCNUM
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the ACCNUM for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

```
illuminaHumanWGDASLv3ALIAS2PROBE
```

Map between Common Gene Symbol Identifiers and Manufacturer Identifiers

Description

illuminaHumanWGDASLv3ALIAS is an R object that provides mappings between common gene symbol identifiers and manufacturer identifiers.

Details

Each gene symbol is mapped to a named vector of manufacturer identifiers. The name represents the gene symbol and the vector contains all manufacturer identifiers that are found for that symbol. An NA is reported for any gene symbol that cannot be mapped to any manufacturer identifiers.

This mapping includes ALL gene symbols including those which are already listed in the SYMBOL map. The SYMBOL map is meant to only list official gene symbols, while the ALIAS maps are meant to store all used symbols.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

Examples

```
# Convert the object to a list
xx <- as.list(illuminaHumanWGDASLv3ALIAS2PROBE)
if(length(xx) > 0){
  # Get the probe identifiers for the first two aliases
  xx[1:2]
  # Get the first one
  xx[[1]]
}
```

```
illuminaHumanWGDASLv3.db
```

Bioconductor annotation data package

Description

Welcome to the illuminaHumanWGDASLv3.db annotation Package. The purpose of this package is to provide detailed information about the illuminaHumanWGDASLv3 platform. This package is updated biannually.

You can learn what objects this package supports with the following command:

```
ls("package:illuminaHumanWGDASLv3.db")
```

Each of these objects has their own manual page detailing where relevant data was obtained along with some examples of how to use it.

Examples

```
ls("package:illuminaHumanWGDASLv3.db")
```

```
illuminaHumanWGDASLv3CHRENGTHS
```

A named vector for the length of each of the chromosomes

Description

illuminaHumanWGDASLv3CHRENGTHS provides the length measured in base pairs for each of the chromosomes.

Details

This is a named vector with chromosome numbers as the names and the corresponding lengths for chromosomes as the values.

Total lengths of chromosomes were derived by calculating the number of base pairs on the sequence string for each chromosome.

Examples

```
tt <- illuminaHumanWGDASLv3CHRENGTHS
# Length of chromosome 1
tt["1"]
```

```
illuminaHumanWGDASLv3CHRLOC
```

Map Manufacturer IDs to Chromosomal Location

Description

illuminaHumanWGDASLv3CHRLOC is an R object that maps manufacturer identifiers to the starting position of the gene. The position of a gene is measured as the number of base pairs.

The CHRLOCEND mapping is the same as the CHRLOC mapping except that it specifies the ending base of a gene instead of the start.

Details

Each manufacturer identifier maps to a named vector of chromosomal locations, where the name indicates the chromosome. Due to inconsistencies that may exist at the time the object was built, these vectors may contain more than one chromosome and/or location. If the chromosomal location is unknown, the vector will contain an NA.

Chromosomal locations on both the sense and antisense strands are measured as the number of base pairs from the p (5' end of the sense strand) to q (3' end of the sense strand) arms. Chromosomal locations on the antisense strand have a leading "-" sign (e. g. -1234567).

Since some genes have multiple start sites, this field can map to multiple locations.

Mappings were based on data provided by: UCSC Genome Bioinformatics (Homo sapiens) <ftp://hgdownload.cse.ucsc.edu>
With a date stamp from the source of: 2010-Mar22

Examples

```
x <- illuminaHumanWGDASLv3CHRLOC
# Get the probe identifiers that are mapped to chromosome locations
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the CHRLOC for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

illuminaHumanWGDASLv3CHR

Map Manufacturer IDs to Chromosomes

Description

illuminaHumanWGDASLv3CHR is an R object that provides mappings between a manufacturer identifier and the chromosome that contains the gene of interest.

Details

Each manufacturer identifier maps to a vector of chromosomes. Due to inconsistencies that may exist at the time the object was built, the vector may contain more than one chromosome (e.g., the identifier may map to more than one chromosome). If the chromosomal location is unknown, the vector will contain an NA.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

Examples

```
x <- illuminaHumanWGDASLv3CHR
# Get the probe identifiers that are mapped to a chromosome
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the CHR for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

`illuminaHumanWGDASLv3_dbconn`*Collect information about the package annotation DB*

Description

Some convenience functions for getting a connection object to (or collecting information about) the package annotation DB.

Usage

```
illuminaHumanWGDASLv3_dbconn()
illuminaHumanWGDASLv3_dbfile()
illuminaHumanWGDASLv3_dbschema(file="", show.indices=FALSE)
illuminaHumanWGDASLv3_dbInfo()
```

Arguments

<code>file</code>	A connection, or a character string naming the file to print to (see the <code>file</code> argument of the <code>cat</code> function for the details).
<code>show.indices</code>	The CREATE INDEX statements are not shown by default. Use <code>show.indices=TRUE</code> to get them.

Details

`illuminaHumanWGDASLv3_dbconn` returns a connection object to the package annotation DB. **IMPORTANT:** Don't call `dbDisconnect` on the connection object returned by `illuminaHumanWGDASLv3_dbconn` or you will break all the `AnnDbObj` objects defined in this package!

`illuminaHumanWGDASLv3_dbfile` returns the path (character string) to the package annotation DB (this is an SQLite file).

`illuminaHumanWGDASLv3_dbschema` prints the schema definition of the package annotation DB.

`illuminaHumanWGDASLv3_dbInfo` prints other information about the package annotation DB.

Value

`illuminaHumanWGDASLv3_dbconn`: a `DBIConnection` object representing an open connection to the package annotation DB.

`illuminaHumanWGDASLv3_dbfile`: a character string with the path to the package annotation DB.

`illuminaHumanWGDASLv3_dbschema`: none (invisible `NULL`).

`illuminaHumanWGDASLv3_dbInfo`: none (invisible `NULL`).

See Also

[dbGetQuery](#), [dbConnect](#), [dbconn](#), [dbfile](#), [dbschema](#), [dbInfo](#)

Examples

```
## Count the number of rows in the "probes" table:
dbGetQuery(illuminaHumanWGDASLv3_dbconn(), "SELECT COUNT(*) FROM probes")

## The connection object returned by illuminaHumanWGDASLv3_dbconn() was
## created with:
dbConnect(SQLite(), dbname=illuminaHumanWGDASLv3_dbfile(), cache_size=64000,
synchronous=0)

illuminaHumanWGDASLv3_dbschema()

illuminaHumanWGDASLv3_dbInfo()
```

```
illuminaHumanWGDASLv3ENSEMBL
```

Map Ensembl gene accession numbers with Entrez Gene identifiers

Description

illuminaHumanWGDASLv3ENSEMBL is an R object that contains mappings between Entrez Gene identifiers and Ensembl gene accession numbers.

Details

This object is a simple mapping of Entrez Gene identifiers <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene> to Ensembl gene Accession Numbers.

Mappings were based on data provided by BOTH of these sources: <http://www.ensembl.org/biomart/martview/> <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA>

This mapping is a combination of NCBI to ensembl IDs from BOTH NCBI and ensembl. Users who wish to only use mappings from NCBI are encouraged to see the ncbi2ensembl table in the appropriate organism package. Users who wish to only use mappings from ensembl are encouraged to see the ensembl2ncbi table which is also found in the appropriate organism packages. These mappings are based upon the ensembl table which is contains data from BOTH of these sources in an effort to maximize the chances that you will find a match.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

Examples

```
x <- illuminaHumanWGDASLv3ENSEMBL
# Get the entrez gene IDs that are mapped to an Ensembl ID
mapped_genes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_genes])
if(length(xx) > 0) {
  # Get the Ensembl gene IDs for the first five genes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
#For the reverse map ENSEMBL2PROBE:
# Convert to a list
```

```
xx <- as.list(illuminaHumanWGDASLv3ENSEMBL2PROBE)
if(length(xx) > 0){
  # Gets the entrez gene IDs for the first five Ensembl IDs
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

illuminaHumanWGDASLv3ENTREZID

Map between Manufacturer Identifiers and Entrez Gene

Description

illuminaHumanWGDASLv3ENTREZID is an R object that provides mappings between manufacturer identifiers and Entrez Gene identifiers.

Details

Each manufacturer identifier is mapped to a vector of Entrez Gene identifiers. An NA is assigned to those manufacturer identifiers that can not be mapped to an Entrez Gene identifier at this time.

If a given manufacturer identifier can be mapped to different Entrez Gene identifiers from various sources, we attempt to select the common identifiers. If a consensus cannot be determined, we select the smallest identifier.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene>

Examples

```
x <- illuminaHumanWGDASLv3ENTREZID
# Get the probe identifiers that are mapped to an ENTREZ Gene ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the ENTREZID for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

illuminaHumanWGDASLv3ENZYME2PROBE

Map between Enzyme Commission Numbers and Manufacturer Identifiers

Description

illuminaHumanWGDASLv3ENZYME2PROBE is an R object that maps Enzyme Commission (EC) numbers to manufacturer identifiers.

Details

Each EC number maps to a named vector containing all of the manufacturer identifiers that correspond to the gene that produces that enzyme. The name of the vector corresponds to the EC number.

Enzyme Commission numbers are assigned by the Nomenclature Committee of the International Union of Biochemistry and Molecular Biology <http://www.chem.qmw.ac.uk/iubmb/enzyme/> to allow enzymes to be identified.

An Enzyme Commission number is of the format EC x.y.z.w, where x, y, z, and w are numeric numbers. In illuminaHumanWGDASLv3ENZYME2PROBE, EC is dropped from the Enzyme Commission numbers.

Enzyme Commission numbers have corresponding names that describe the functions of enzymes in such a way that EC x is a more general description than EC x.y that in turn is a more general description than EC x.y.z. The top level EC numbers and names are listed below:

EC 1 oxidoreductases

EC 2 transferases

EC 3 hydrolases

EC 4 lyases

EC 5 isomerases

EC 6 ligases

The EC name for a given EC number can be viewed at <http://www.chem.qmul.ac.uk/iupac/jcbrn/index.html#6>

Mappings were based on data provided by: KEGG GENOME <ftp://ftp.genome.jp/pub/kegg/genomes>
With a date stamp from the source of: 2011-Mar15

References

<ftp://ftp.genome.ad.jp/pub/kegg/pathways>

Examples

```
# Convert to a list
xx <- as.list(illuminaHumanWGDASLv3ENZYME2PROBE)
if(length(xx) > 0){
  # Get the probe identifiers for the first five enzyme
  #commission numbers
  xx[1:5]
  # Get the first one
```



```
    xx[[1]]  
  }
```

illuminaHumanWGDASLv3ENZYME

Map between Manufacturer IDs and Enzyme Commission (EC) Numbers

Description

illuminaHumanWGDASLv3ENZYME is an R object that provides mappings between manufacturer identifiers and EC numbers.

Details

Each manufacturer identifier maps to a named vector containing the EC number that corresponds to the enzyme produced by that gene. The name corresponds to the manufacturer identifier. If this information is unknown, the vector will contain an NA.

Enzyme Commission numbers are assigned by the Nomenclature Committee of the International Union of Biochemistry and Molecular Biology <http://www.chem.qmw.ac.uk/iubmb/enzyme/> to allow enzymes to be identified.

An Enzyme Commission number is of the format EC x.y.z.w, where x, y, z, and w are numeric numbers. In illuminaHumanWGDASLv3ENZYME2PROBE, EC is dropped from the Enzyme Commission numbers.

Enzyme Commission numbers have corresponding names that describe the functions of enzymes in such a way that EC x is a more general description than EC x.y that in turn is a more general description than EC x.y.z. The top level EC numbers and names are listed below:

EC 1 oxidoreductases

EC 2 transferases

EC 3 hydrolases

EC 4 lyases

EC 5 isomerases

EC 6 ligases

The EC name for a given EC number can be viewed at <http://www.chem.qmul.ac.uk/iupac/jcfn/index.html#6>

Mappings between probe identifiers and enzyme identifiers were obtained using files provided by: KEGG GENOME <ftp://ftp.genome.jp/pub/kegg/genomes> With a date stamp from the source of: 2011-Mar15

References

<ftp://ftp.genome.ad.jp/pub/kegg/pathways>

Examples

```
x <- illuminaHumanWGDASLv3ENZYME
# Get the probe identifiers that are mapped to an EC number
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the ENZYME for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

```
illuminaHumanWGDASLv3GENENAME
```

Map between Manufacturer IDs and Genes

Description

illuminaHumanWGDASLv3GENENAME is an R object that maps manufacturer identifiers to the corresponding gene name.

Details

Each manufacturer identifier maps to a named vector containing the gene name. The vector name corresponds to the manufacturer identifier. If the gene name is unknown, the vector will contain an NA.

Gene names currently include both the official (validated by a nomenclature committee) and preferred names (interim selected for display) for genes. Efforts are being made to differentiate the two by adding a name to the vector.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

Examples

```
x <- illuminaHumanWGDASLv3GENENAME
# Get the probe identifiers that are mapped to a gene name
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the GENENAME for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

`illuminaHumanWGDASLv3GO2ALLPROBES`

Map between Gene Ontology (GO) Identifiers and all Manufacturer Identifiers in the subtree

Description

`illuminaHumanWGDASLv3GO2ALLPROBES` is an R object that provides mappings between a given GO identifier and all manufacturer identifiers annotated at that GO term or one of its children in the GO ontology.

Details

GO consists of three ontologies—molecular function (MF), biological process (BP), and cellular component (CC). All ontologies are structured as directed acyclic graphs (DAGs). Each node in each DAG (tree) is a GO term (id) associated with a named vector of manufacturer identifiers. The name associated with each manufacturer id corresponds to the evidence code for that GO identifier. This object `illuminaHumanWGDASLv3GO2ALLPROBES` maps between a given GO identifier and all manufacturer identifiers annotated at that GO term or one of its children in the GO ontology.

The evidence code indicates what kind of evidence supports the association between the GO and Entrez Gene identifiers. Evidence codes currently in use include:

IMP - inferred from mutant phenotype

IGI - inferred from genetic interaction

IPI - inferred from physical interaction

ISS - inferred from sequence similarity

IDA - inferred from direct assay

IEP - inferred from expression pattern

IEA - inferred from electronic annotation

TAS - traceable author statement

NAS - non-traceable author statement

ND - no biological data available

IC - inferred by curator

A GO identifier may be mapped to the same manufacturer identifier more than once but the evidence code can be different. Mappings between Gene Ontology identifiers and Gene Ontology terms and other information are available in a separate data package named GO.

Mappings were based on data provided by:

Gene Ontology <ftp://ftp.geneontology.org/pub/go/godatabase/archive/latest-lite/> With a date stamp from the source of: 20110910 and Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<ftp://ftp.ncbi.nlm.nih.gov/gene/DATA/>

Examples

```

# Convert to a list
xx <- as.list(illuminaHumanWGDASLv3GO2ALLPROBES)
if(length(xx) > 0){
  # Get the probe identifiers for the top 2nd and 3rd GO identifiers
  goids <- xx[2:3]
  # Get all the probe identifiers for the first element of goids
  goids[[1]]
  # Evidence code for the mappings
  names(goids[[1]])
}

```

illuminaHumanWGDASLv3GO2PROBE

Map between Gene Ontology (GO) and Manufacturer Identifiers

Description

illuminaHumanWGDASLv3GO2PROBE is an R object that provides mappings between GO identifiers and manufacturer identifiers.

Details

Each GO term maps to a named vector of manufacturer identifiers. The name associated with each manufacturer identifier corresponds to the evidence code for that GO identifier. The evidence code indicates what kind of evidence supports the association between the GO and Entrez Gene identifiers. Evidence codes currently in use include:

- IMP - inferred from mutant phenotype
- IGI - inferred from genetic interaction
- IPI - inferred from physical interaction
- ISS - inferred from sequence similarity
- IDA - inferred from direct assay
- IEP - inferred from expression pattern
- IEA - inferred from electronic annotation
- TAS - traceable author statement
- NAS - non-traceable author statement
- ND - no biological data available
- IC - inferred by curator

A GO identifier may be mapped to the same probe identifier more than once but the evidence code can be different. Mappings between Gene Ontology identifiers and Gene Ontology terms and other information are available in a separate data package named GO.

Mappings were based on data provided by:

Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<ftp://ftp.ncbi.nlm.nih.gov/gene/DATA/>

Examples

```
# Convert to a list
xx <- as.list(illuminaHumanWGDASLv3GO2PROBE)
if(length(xx) > 0){
  # Get the probe identifiers for the top 2nd and 3rd GO identifiers
  goids <- xx[2:3]
  # Get the probe identifiers for the first element of goids
  goids[[1]]
  # Evidence code for the mappings
  names(goids[[1]])
}
```

illuminaHumanWGDASLv3GO

Map between Manufacturer IDs and Gene Ontology (GO)

Description

illuminaHumanWGDASLv3GO is an R object that provides mappings between manufacturer identifiers and the GO identifiers that they are directly associated with.

Details

Each Entrez Gene identifier is mapped to a list of lists. The names on the outer list are GO identifiers. Each inner list consists of three named elements: GOID, Ontology, and Evidence.

The GOID element matches the GO identifier named in the outer list and is included for convenience when processing the data using 'lapply'.

The Ontology element indicates which of the three Gene Ontology categories this identifier belongs to. The categories are biological process (BP), cellular component (CC), and molecular function (MF).

The Evidence element contains a code indicating what kind of evidence supports the association of the GO identifier to the Entrez Gene id. The evidence codes in use include:

IMP: inferred from mutant phenotype

IGI: inferred from genetic interaction

IPI: inferred from physical interaction

ISS: inferred from sequence similarity

IDA: inferred from direct assay

IEP: inferred from expression pattern

IEA: inferred from electronic annotation

TAS: traceable author statement

NAS: non-traceable author statement

ND: no biological data available

IC: inferred by curator

Mappings between probe identifiers and GO information were obtained through their mappings to Entrez Gene identifiers. NAs are assigned to probe identifiers that can not be mapped to any Gene Ontology information. Mappings between Gene Ontology identifiers and Gene Ontology terms and other information are available in a separate data package named GO.

Mappings were based on data provided by: Gene Ontology ftp://ftp.geneontology.org/pub/go/godatabase/archive/latest-lite/ With a date stamp from the source of: 20110910

Examples

```
x <- illuminaHumanWGDASLv3GO
# Get the probe identifiers that are mapped to a GO ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Try the first one
  got <- xx[[1]]
  got[[1]][["GOID"]]
  got[[1]][["Ontology"]]
  got[[1]][["Evidence"]]
}
```

```
illuminaHumanWGDASLv3MAPCOUNTS
```

Number of mapped keys for the maps in package illuminaHumanWGDASLv3.db

Description

illuminaHumanWGDASLv3MAPCOUNTS provides the "map count" (i.e. the count of mapped keys) for each map in package illuminaHumanWGDASLv3.db.

Details

This "map count" information is precalculated and stored in the package annotation DB. This allows some quality control and is used by the `checkMAPCOUNTS` function defined in AnnotationDbi to compare and validate different methods (like `count.mappedkeys(x)` or `sum(!is.na(as.list(x)))`) for getting the "map count" of a given map.

See Also

[mappedkeys](#), [count.mappedkeys](#), [checkMAPCOUNTS](#)

Examples

```
illuminaHumanWGDASLv3MAPCOUNTS
mapnames <- names(illuminaHumanWGDASLv3MAPCOUNTS)
illuminaHumanWGDASLv3MAPCOUNTS[mapnames[1]]
x <- get(mapnames[1])
sum(!is.na(as.list(x)))
count.mappedkeys(x) # much faster!

## Check the "map count" of all the maps in package illuminaHumanWGDASLv3.db
checkMAPCOUNTS("illuminaHumanWGDASLv3.db")
```

`illuminaHumanWGDASLv3MAP`*Map between Manufacturer Identifiers and cytogenetic maps/bands*

Description

`illuminaHumanWGDASLv3MAP` is an R object that provides mappings between manufacturer identifiers and cytoband locations.

Details

Each manufacturer identifier is mapped to a vector of cytoband locations. The vector length may be one or longer, if there are multiple reported chromosomal locations for a given gene. An NA is reported for any manufacturer identifiers that cannot be mapped to a cytoband at this time.

Cytogenetic bands for most higher organisms are labeled p1, p2, p3, q1, q2, q3 (p and q are the p and q arms), etc., counting from the centromere out toward the telomeres. At higher resolutions, sub-bands can be seen within the bands. The sub-bands are also numbered from the centromere out toward the telomere. Thus, a label of 7q31.2 indicates that the band is on chromosome 7, q arm, band 3, sub-band 1, and sub-sub-band 2.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<http://www.ncbi.nlm.nih.gov>

Examples

```
x <- illuminaHumanWGDASLv3MAP
# Get the probe identifiers that are mapped to any cytoband
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the MAP for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

`illuminaHumanWGDASLv3listNewMappings`*Custom mappings added to the package*

Description

We have used an extensive re-annotation of the *illuminaHumanWGDASLv3* probe sequences to provide additional information that is not captured in the standard Bioconductor packages. Whereas Bioconductor annotations are based on the RefSeq ID that each probe maps to, our additional mappings provide data specific to each probe on the platform. See below for details. We recommend using the probe quality as a form of filtering, and retaining only perfect or good probes for an analysis.

Details of custom mappings

illuminaHumanWGDASLv3listNewMappings List all the custom re-annotation mappings provided by the package

illuminaHumanWGDASLv3fullReannotation Return all the re-annotation information as a matrix

illuminaHumanWGDASLv3ARRAYADDRESS Array Address code used to identify the probe at the bead-level

illuminaHumanWGDASLv3NUID Lumi's nuID (universal naming scheme for oligonucleotides) Reference: Du et al. (2007), Biol Direct 2:16

illuminaHumanWGDASLv3PROBESEQUENCE The 50 base sequence for the probe

illuminaHumanWGDASLv3PROBEQUALITY Quality grade assigned to the probe: "Perfect" if it perfectly and uniquely matches the target transcript; "Good" if the probe, although imperfectly matching the target transcript, is still likely to provide considerably sensitive signal (up to two mismatches are allowed, based on empirical evidence that the signal intensity for 50-mer probes with less than 95% identity to the respective targets is less than 50% of the signal associated with perfect matches *); "Bad" if the probe matches repeat sequences, intergenic or intronic regions, or is unlikely to provide specific signal for any transcript; "No match" if it does not match any genomic region or transcript.

illuminaHumanWGDASLv3CODINGZONE Coding status of target sequence: intergenic / intronic / Transcriptomic ("Transcriptomic?" when the target transcript is non-coding or there is no information on the coding sequence). Note: all 5' UTR, 3' UTR and CDS assignments have been replaced with "Transcriptomic" over concerns about the reliability of these annotations.

illuminaHumanWGDASLv3GENOMICLOCATION Probe's genomic coordinates (hg19 for human, mm9 for mouse or rn4 for rat)

illuminaHumanWGDASLv3GENOMICMATCHSIMILARITY Percentage of similarity between the probe and its best genomic match in the alignable region, taking the probe as reference

illuminaHumanWGDASLv3SECONDMATCHES Genomic coordinates of second best matches between the probe and the genome

illuminaHumanWGDASLv3SECONDMATCHSIMILARITY Percentage of similarity between the probe and its second best genomic match in the alignable region, taking the probe as reference

illuminaHumanWGDASLv3TRANSCRIPTOMICMATCHSIMILARITY Percentage of similarity between the probe and its target transcript in the alignable region, taking the probe as reference

illuminaHumanWGDASLv3OTHERGENOMICMATCHES Genomic coordinates of sequences as alignable with the probe (in terms of number of matching nucleotides) as its main target

illuminaHumanWGDASLv3REPEATMASK Overlapping RepeatMasked sequences, with number of bases overlapped by the repeat

illuminaHumanWGDASLv3OVERLAPPINGSNP Overlapping annotated SNPs

illuminaHumanWGDASLv3ENTREZREANNOTATED Entrez IDs

illuminaHumanWGDASLv3ENSEMBLREANNOTATED Ensembl IDs (version 64)

illuminaHumanWGDASLv3SYMBOLREANNOTATED Gene symbol derived by re-annotation

illuminaHumanWGDASLv3REPORTERGROUPID An identifier for probes designated as controls by Illumina

illuminaHumanWGDASLv3REPORTERGROUPNAME A more descriptive identifier for controls

References

<http://remoat.sysbiol.cam.ac.uk>

Barbosa-Morais et al. (2010) A re-annotation pipeline for Illumina BeadArrays: improving the interpretation of gene expression data. *Nucleic Acids Research*

Examples

```
##See what new mappings are available

illuminaHumanWGDASLv3listNewMappings()

x <- illuminaHumanWGDASLv3PROBEQUALITY

mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the PROBEQUALITY for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}

##Overall table of qualities
table(unlist(xx))

x <- illuminaHumanWGDASLv3ARRAYADDRESS

mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the ARRAYADDRESS for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}

##Can do the mapping from array address to illumina ID using a revmap
y<- revmap(illuminaHumanWGDASLv3ARRAYADDRESS)
```

```

mapped_probes <- mappedkeys(y)
# Convert to a list
yy <- as.list(y[mapped_probes])
if(length(yy) > 0) {
  # Get the ARRAYADDRESS for the first five probes
  yy[1:5]
  # Get the first one
  yy[[1]]
}

x <- illuminaHumanWGDASLv3CODINGZONE

mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the CODINGZONE for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}

x <- illuminaHumanWGDASLv3PROBESEQUENCE

mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the PROBESEQUENCE for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}

```

illuminaHumanWGDASLv3OMIM

Map between Manufacturer Identifiers and Mendelian Inheritance in Man (MIM) identifiers

Description

illuminaHumanWGDASLv3OMIM is an R object that provides mappings between manufacturer identifiers and OMIM identifiers.

Details

Each manufacturer identifier is mapped to a vector of OMIM identifiers. The vector length may be one or longer, depending on how many OMIM identifiers the manufacturer identifier maps to. An

NA is reported for any manufacturer identifier that cannot be mapped to an OMIM identifier at this time.

OMIM is based upon the book Mendelian Inheritance in Man (V. A. McKusick) and focuses primarily on inherited or heritable genetic diseases. It contains textual information, pictures, and reference information that can be searched using various terms, among which the MIM number is one.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene> <http://www3.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM>

Examples

```
x <- illuminaHumanWGDAStv3OMIM
# Get the probe identifiers that are mapped to a OMIM ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the OMIM for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

```
illuminaHumanWGDAStv3ORGANISM
```

The Organism information for illuminaHumanWGDAStv3

Description

illuminaHumanWGDAStv3ORGANISM is an R object that contains a single item: a character string that names the organism for which illuminaHumanWGDAStv3 was built. illuminaHumanWGDAStv3ORGPKG is an R object that contains a character vector with the name of the organism package that a chip package depends on for its gene-centric annotation.

Details

Although the package name is suggestive of the organism for which it was built, illuminaHumanWGDAStv3ORGANISM provides a simple way to programmatically extract the organism name. illuminaHumanWGDAStv3ORGPKG provides a simple way to programmatically extract the name of the parent organism package. The parent organism package is a strict dependency for chip packages as this is where the gene centric information is ultimately extracted from. The full package name will always be this string plus the extension ".db". But most programmatic access will not require this extension, so its more convenient to leave it out.

Examples

```
illuminaHumanWGDAStv3ORGANISM
illuminaHumanWGDAStv3ORGPKG
```

```
illuminaHumanWGDASLv3PATH2PROBE
```

Map between Kyoto Encyclopedia of Genes and Genomes (KEGG) pathway identifiers and Manufacturer Identifiers

Description

illuminaHumanWGDASLv3PATH2PROBE is an R object that provides mappings between KEGG identifiers and manufacturer identifiers.

Details

Each KEGG identifier is mapped to a named vector of manufacturer identifiers. The name represents the KEGG identifier and the vector contains all manufacturer identifiers that are found in that particular pathway. An NA is reported for any KEGG identifier that cannot be mapped to any manufacturer identifiers.

Pathway name for a given pathway identifier can be obtained using the KEGG data package that can either be built using AnnBuilder or downloaded from Bioconductor <http://www.bioconductor.org>.

Graphic presentations of pathways are searchable at <http://www.genome.ad.jp/kegg/pathway.html> using pathway identifiers as keys.

Mappings were based on data provided by: KEGG GENOME <ftp://ftp.genome.jp/pub/kegg/genomes> With a date stamp from the source of: 2011-Mar15

References

<http://www.genome.ad.jp/kegg/>

Examples

```
# Convert the object to a list
xx <- as.list(illuminaHumanWGDASLv3PATH2PROBE)
if(length(xx) > 0){
  # Get the probe identifiers for the first two pathway identifiers
  xx[1:2]
  # Get the first one
  xx[[1]]
}
```

```
illuminaHumanWGDASLv3PATH
```

Mappings between probe identifiers and KEGG pathway identifiers

Description

KEGG (Kyoto Encyclopedia of Genes and Genomes) maintains pathway data for various organisms. illuminaHumanWGDASLv3PATH maps probe identifiers to the identifiers used by KEGG for pathways in which the genes represented by the probe identifiers are involved

Details

Each KEGG pathway has a name and identifier. Pathway name for a given pathway identifier can be obtained using the KEGG data package that can either be built using AnnBuilder or downloaded from Bioconductor <http://www.bioconductor.org>.

Graphic presentations of pathways are searchable at url <http://www.genome.ad.jp/kegg/pathway.html> by using pathway identifiers as keys.

Mappings were based on data provided by: KEGG GENOME <ftp://ftp.genome.jp/pub/kegg/genomes>
With a date stamp from the source of: 2011-Mar15

References

<http://www.genome.ad.jp/kegg/>

Examples

```
x <- illuminaHumanWGDASLv3PATH
# Get the probe identifiers that are mapped to a KEGG pathway ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the PATH for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

illuminaHumanWGDASLv3PFAM

Map Manufacturer IDs to Pfam IDs

Description

illuminaHumanWGDASLv3PFAM is an R object that provides mappings between a manufacturer identifier and the associated Pfam identifiers.

Details

Each manufacturer identifier maps to a named vector of Pfam identifiers. The name for each Pfam identifier is the IPI accession number where this Pfam identifier is found.

If the Pfam is a named NA, it means that the associated Entrez Gene id of this manufacturer identifier is found in an IPI entry of the IPI database, but there is no Pfam identifier in the entry.

If the Pfam is a non-named NA, it means that the associated Entrez Gene id of this manufacturer identifier is not found in any IPI entry of the IPI database.

Mappings were based on data provided by: The International Protein Index <ftp://ftp.ebi.ac.uk/pub/databases/IPI/current>
With a date stamp from the source of: 2011-Jul29

References

Kersey P. J., Duarte J., Williams A., Karavidopoulou Y., Birney E., Apweiler R. The International Protein Index: An integrated database for proteomics experiments. *Proteomics* 4(7): 1985-1988 (2004) <http://www.ebi.ac.uk/IPI/IPIhelp.html>

Examples

```
x <- illuminaHumanWGDASLv3PFAM
# Get the probe identifiers that are mapped to any Pfam ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
# randomly display 10 probes
sample(xx, 10)
```

```
illuminaHumanWGDASLv3PMID2PROBE
```

Map between PubMed Identifiers and Manufacturer Identifiers

Description

illuminaHumanWGDASLv3PMID2PROBE is an R object that provides mappings between PubMed identifiers and manufacturer identifiers.

Details

Each PubMed identifier is mapped to a named vector of manufacturer identifiers. The name represents the PubMed identifier and the vector contains all manufacturer identifiers that are represented by that PubMed identifier. The length of the vector may be one or longer, depending on how many manufacturer identifiers are mapped to a given PubMed identifier.

Titles, abstracts, and possibly full texts of articles can be obtained from PubMed by providing a valid PubMed identifier. The `pubmed` function of `annotate` can also be used for the same purpose

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

Examples

```
# Convert the object to a list
xx <- as.list(illuminaHumanWGDASLv3PMID2PROBE)
if(length(xx) > 0){
  # Get the probe identifiers for the first two PubMed identifiers
  xx[1:2]
  # Get the first one
  xx[[1]]
  if(interactive() && require(annotate)){
    # Get article information as XML files for a PubMed id
    xmls <- pubmed(names(xx)[1], disp = "data")
    # View article information using a browser
    pubmed(names(xx)[1], disp = "browser")
  }
}
```

`illuminaHumanWGDASLv3PMID`*Map between Manufacturer Identifiers and PubMed Identifiers*

Description

`illuminaHumanWGDASLv3PMID` is an R object that provides mappings between manufacturer identifiers and PubMed identifiers.

Details

Each manufacturer identifier is mapped to a named vector of PubMed identifiers. The name associated with each vector corresponds to the manufacturer identifier. The length of the vector may be one or greater, depending on how many PubMed identifiers a given manufacturer identifier is mapped to. An NA is reported for any manufacturer identifier that cannot be mapped to a PubMed identifier.

Titles, abstracts, and possibly full texts of articles can be obtained from PubMed by providing a valid PubMed identifier. The `pubmed` function of `annotate` can also be used for the same purpose.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed>

Examples

```
x <- illuminaHumanWGDASLv3PMID
# Get the probe identifiers that are mapped to any PubMed ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0){
  # Get the PubMed identifiers for the first two probe identifiers
  xx[1:2]
  # Get the first one
  xx[[1]]
  if(interactive() && !is.null(xx[[1]]) && !is.na(xx[[1]]))
    && require(annotate){
      # Get article information as XML files
      xmls <- pubmed(xx[[1]], disp = "data")
      # View article information using a browser
      pubmed(xx[[1]], disp = "browser")
    }
}
```

```
illuminaHumanWGDASLv3PROSITE
```

Map Manufacturer IDs to PROSITE ID

Description

illuminaHumanWGDASLv3PROSITE is an R object that provides mappings between a manufacturer identifier and the associated PROSITE identifiers.

Details

Each manufacturer identifier maps to a named vector of PROSITE identifiers. The name for each PROSITE identifier is the IPI accession number where this PROSITE identifier is found.

If the PROSITE is a named NA, it means that the associated Entrez Gene id of this manufacturer identifier is found in an IPI entry of the IPI database, but there is no PROSITE identifier in the entry.

If the PROSITE is a non-named NA, it means that the associated Entrez Gene id of this manufacturer identifier is not found in any IPI entry of the IPI database.

Mappings were based on data provided by: The International Protein Index <ftp://ftp.ebi.ac.uk/pub/databases/IPI/current>
With a date stamp from the source of: 2011-Jul29

References

Kersey P. J., Duarte J., Williams A., Karavidopoulou Y., Birney E., Apweiler R. The International Protein Index: An integrated database for proteomics experiments. *Proteomics* 4(7): 1985-1988 (2004) <http://www.ebi.ac.uk/IPI/IPIhelp.html>

Examples

```
x <- illuminaHumanWGDASLv3PROSITE
# Get the probe identifiers that are mapped to any PROSITE ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xxx <- as.list(x[mapped_probes])
# randomly display 10 probes
xxx[sample(1:length(xxx), 10)]
```

```
illuminaHumanWGDASLv3REFSEQ
```

Map between Manufacturer Identifiers and RefSeq Identifiers

Description

illuminaHumanWGDASLv3REFSEQ is an R object that provides mappings between manufacturer identifiers and RefSeq identifiers.

Details

Each manufacturer identifier is mapped to a named vector of RefSeq identifiers. The name represents the manufacturer identifier and the vector contains all RefSeq identifiers that can be mapped to that manufacturer identifier. The length of the vector may be one or greater, depending on how many RefSeq identifiers a given manufacturer identifier can be mapped to. An NA is reported for any manufacturer identifier that cannot be mapped to a RefSeq identifier at this time.

RefSeq identifiers differ in format according to the type of record the identifiers are for as shown below:

NG_XXXXX: RefSeq accessions for genomic region (nucleotide) records

NM_XXXXX: RefSeq accessions for mRNA records

NC_XXXXX: RefSeq accessions for chromosome records

NP_XXXXX: RefSeq accessions for protein records

XR_XXXXX: RefSeq accessions for model RNAs that are not associated with protein products

XM_XXXXX: RefSeq accessions for model mRNA records

XP_XXXXX: RefSeq accessions for model protein records

Where XXXXX is a sequence of integers.

NCBI <http://www.ncbi.nlm.nih.gov/RefSeq/> allows users to query the RefSeq database using RefSeq identifiers.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<http://www.ncbi.nlm.nih.gov> <http://www.ncbi.nlm.nih.gov/RefSeq/>

Examples

```
x <- illuminaHumanWGDASLv3REFSEQ
# Get the probe identifiers that are mapped to any RefSeq ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the REFSEQ for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

illuminaHumanWGDASLv3SYMBOL

Map between Manufacturer Identifiers and Gene Symbols

Description

illuminaHumanWGDASLv3SYMBOL is an R object that provides mappings between manufacturer identifiers and gene abbreviations.

Details

Each manufacturer identifier is mapped to an abbreviation for the corresponding gene. An NA is reported if there is no known abbreviation for a given gene.

Symbols typically consist of 3 letters that define either a single gene (ABC) or multiple genes (ABC1, ABC2, ABC3). Gene symbols can be used as key words to query public databases such as Entrez Gene.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene>

Examples

```
x <- illuminaHumanWGDAStv3SYMBOL
# Get the probe identifiers that are mapped to a gene symbol
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the SYMBOL for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

illuminaHumanWGDAStv3UNIGENE

Map between Manufacturer Identifiers and UniGene cluster identifiers

Description

illuminaHumanWGDAStv3UNIGENE is an R object that provides mappings between manufacturer identifiers and UniGene identifiers.

Details

Each manufacturer identifier is mapped to a UniGene identifier. An NA is reported if the manufacturer identifier cannot be mapped to UniGene at this time.

A UniGene identifier represents a cluster of sequences of a gene. Using UniGene identifiers one can query the UniGene database for information about the sequences or the Entrez Gene database for information about the genes.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

References

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene>

Examples

```
x <- illuminaHumanWGDASLv3UNIGENE
# Get the probe identifiers that are mapped to an UNIGENE ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the UNIGENE for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

illuminaHumanWGDASLv3UNIPROT

Map Uniprot accession numbers with Entrez Gene identifiers

Description

illuminaHumanWGDASLv3UNIPROT is an R object that contains mappings between Entrez Gene identifiers and Uniprot accession numbers.

Details

This object is a simple mapping of Entrez Gene identifiers <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=gene> to Uniprot Accessions.

Mappings were based on data provided by: Entrez Gene <ftp://ftp.ncbi.nlm.nih.gov/gene/DATA> With a date stamp from the source of: 2011-Sep14

Examples

```
x <- illuminaHumanWGDASLv3UNIPROT
# Get the entrez gene IDs that are mapped to an Uniprot ID
mapped_genes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_genes])
if(length(xx) > 0) {
  # Get the Uniprot IDs for the first five genes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

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