

# gahgu95d.db

April 6, 2012

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gahgu95dALIAS2PROBE     *Map between Common Gene Symbol Identifiers and probeset Identifiers*

---

## Description

gahgu95dALIAS is an R object that provides mappings between common gene symbol identifiers and probeset identifiers.

## Details

Each gene symbol is mapped to a vector of probeset identifiers. The vector contains all probeset identifiers that are found for that symbol. An NA is reported for any gene symbol that cannot be mapped to any probeset 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: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

## Examples

```
# Convert the object to a list
xx <- as.list(gahgu95dALIAS2PROBE)
if(length(xx) > 0){
  # Get the probe identifiers for the first two aliases
  xx[1:2]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dALIAS

*Map between Manufacturer IDs and Genes Alias*

---

### Description

gahgu95dALIAS is an R object that maps manufacturer identifiers to the corresponding gene alias.

### Details

Each manufacturer identifier maps to a vector containing the gene alias. If the gene alias is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```
x <- gahgu95dALIAS
# Get the probe identifiers that are mapped to gene alias
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the gene ALIAS for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95d.db

*Bioconductor annotation data package*

---

### Description

Welcome to the gahgu95d.db annotation Package. The purpose of this package is to provide detailed information about the gahgu95d platform.

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

```
ls("package:gahgu95d.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:gahgu95d.db")
```

---

gahgu95dCHRLOC

*Map probeset IDs to Chromosomal Location*

---

### Description

gahgu95dCHRLOC is an R object that maps probeset 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 probeset identifier maps to a named vector of chromosomal locations, where the name indicates the chromosome. 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.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```
x <- gahgu95dCHRLOC
# 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]]
}
```

---

gahgu95dCHR

*Map probeset IDs to Chromosomes*

---

### Description

gahgu95dCHR is an R object that provides mappings between a probeset identifier and the chromosome that contains the gene of interest.

### Details

Each probeset identifier maps to a vector of chromosomes. If the chromosomal location is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

**Examples**

```
x <- gahgu95dCHR
# 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]]
}
```

gahgu95d\_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**

```
gahgu95d_dbconn()
gahgu95d_dbfile()
gahgu95d_dbschema(file="", show.indices=FALSE)
gahgu95d_dbInfo()
```

**Arguments**

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

**Details**

gahgu95d\_dbconn returns a connection object to the package annotation DB. **IMPORTANT:** Don't call `dbDisconnect` on the connection object returned by gahgu95d\_dbconn or you will break all the `AnnDbObj` objects defined in this package!

gahgu95d\_dbfile returns the path (character string) to the package annotation DB (this is an SQLite file).

gahgu95d\_dbschema prints the schema definition of the package annotation DB.

gahgu95d\_dbInfo prints other information about the package annotation DB.

**Value**

gahgu95d\_dbconn: a DBIConnection object representing an open connection to the package annotation DB.

gahgu95d\_dbfile: a character string with the path to the package annotation DB.

gahgu95d\_dbschema: none (invisible NULL).

gahgu95d\_dbInfo: none (invisible NULL).

**See Also**

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

**Examples**

```
## Count the number of rows in the "probes" table:
dbGetQuery(gahgu95d_dbconn(), "SELECT COUNT(*) FROM probes")

## The connection object returned by gahgu95d_dbconn() was created with:
dbConnect(SQLite(), dbname=gahgu95d_dbfile(), cache_size=64000, synchronous=0)

gahgu95d_dbschema()

gahgu95d_dbInfo()
```

---

gahgu95dDESCRIPTIONS *Map between probeset IDs and gene descriptions*

---

**Description**

gahgu95dDESCRIPTIONS is an R object that maps probeset identifiers to the corresponding gene name.

**Details**

Each probeset identifier maps to a named vector containing the gene descriptions. The vector name corresponds to the source of each description. If the gene name is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

**Examples**

```
x <- gahgu95dDESCRIPTIONS
# Get the probe identifiers that are mapped to a gene description
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the DESCRIPTIONS for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dENTREZID      *Map between probeset Identifiers and Entrez Gene*

---

### Description

gahgu95dENTREZID is an R object that provides mappings between probeset identifiers and Entrez Gene identifiers. gahgu95dENTREZID2PROBE provides the reverse mapping.

### Details

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

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```
x <- gahgu95dENTREZID
# 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]]
}
```

---

gahgu95dGENECARDSID      *Map between probeset IDs and Genes*

---

### Description

gahgu95dGENECARDSID is an R object that maps probeset identifiers to the corresponding Genecards id.

### Details

Each probeset identifier maps to a vector containing the Genecards id.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```
x <- gahgu95dGENECARDSID
# Get the probe identifiers that are mapped to a Genecards id.
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the GENECARDSID for the first five probes
```

```
xx[1:5]
# Get the first one
xx[[1]]
}
```

---

gahgu95dGENEEND

*Map between probeset IDs and Genes end*

---

### Description

gahgu95dGENEEND is an R object that maps probeset identifiers to the corresponding gene end.

### Details

Each probeset identifier maps to a vector containing the gene end. If the gene end is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```
x <- gahgu95dGENEEND
# Get the probe identifiers that are mapped to a gene end
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the GENEEND for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dGENENAME

*Map between probeset IDs and Genes*

---

### Description

gahgu95dGENENAME is an R object that maps probeset identifiers to the corresponding gene name.

### Details

Each probeset identifier maps to a vector containing the gene name. If the gene name is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

**Examples**

```
x <- gahgu95dGENENAME
# 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]]
}
```

---

gahgu95dGENESTART      *Map between probeset IDs and Genes start*

---

**Description**

gahgu95dGENESTART is an R object that maps probeset identifiers to the corresponding gene start.

**Details**

Each probeset identifier maps to a vector containing the gene start. If the gene start is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

**Examples**

```
x <- gahgu95dGENESTART
# Get the probe identifiers that are mapped to a gene start
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the GENESTART for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dGENESTRAND      *Map between probeset IDs and Genes strand*

---

**Description**

gahgu95dGENESTRAND is an R object that maps probeset identifiers to the corresponding gene strand.



## Details

Each probeset identifier maps to a vector containing the gene strand. If the gene strand is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

## Examples

```
x <- gahgu95dGENESTRAND
# Get the probe identifiers that are mapped to a gene strand
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the GENESTRAND for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dGO2PROBE

*Map between Gene Ontology (GO) and probesets*

---

## Description

gahgu95dGO2PROBE is an R object that provides mappings between GO identifiers and probesets.

## Details

Each GO term maps to a named vector of probesets. The name associated with each probeset 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:

Genecards ( <http://www.genecards.org> ) on 2010-Nov22

**Examples**

```

# Convert to a list
xx <- as.list(gahgu95dGO2PROBE)
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]])
}

```

gahgu95dGO

*Map between probset IDs and Gene Ontology (GO)***Description**

gahgu95dGO is an R object that provides mappings between probesets and the GO identifiers that they are directly associated with.

**Details**

Each probeset 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

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: Genecards (<http://www.genecards.org>) on 2010-Nov22

**Examples**

```
x <- gahgu95dGO
# 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"]]
}
```

---

gahgu95dINTERPRODOMAIN

*Map between Manufacturer IDs and Genes*

---

**Description**

gahgu95dINTERPRODOMAIN is an R object that maps probe identifiers to the corresponding Interpro domain.

**Details**

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

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

**Examples**

```
x <- gahgu95dINTERPRODOMAIN
# Get the probe identifiers that are mapped to an Interpro domain
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the INTERPRODOMAIN for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dINTERPROID      *Map between probesets and Interpro ID*

---

### Description

gahgu95dINTERPROID is an R object that maps manufacturer identifiers to the corresponding Interpro ID.

### Details

Each probeset maps to a named vector containing the Interpro IDs. If the Interpro ID is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```
x <- gahgu95dINTERPROID
# Get the probe identifiers that are mapped to an Interpro ID
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the INTERPROID for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dKEGGID      *Map between probesets and KEGG pathway ID*

---

### Description

gahgu95dKEGGID is an R object that maps probe identifiers to the corresponding KEGG pathway ID.

### Details

Each probeset maps to a vector containing the KEGG pathway ID. If the KEGG pathway ID is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```
x <- gahgu95dKEGGID
# 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 KEGGID for the first five probes
xx[1:5]
# Get the first one
xx[[1]]
}

```

---

gahgu95dKEGGNAME      *Map between probesets and KEGG pathway name*

---

### Description

gahgu95dKEGGNAME is an R object that maps probe identifiers to the corresponding KEGG pathway name.

### Details

Each probeset maps to a named vector containing the KEGG pathway name. The vector name corresponds to the KEGG pathway ID. If the KEGG pathway name is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

### Examples

```

x <- gahgu95dKEGGNAME
# Get the probe identifiers that are mapped to a KEGG pathway name
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the KEGGNAME for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}

```

---

gahgu95dMAPCOUNTS      *Number of mapped keys for the maps in package gahgu95d.db*

---

### Description

gahgu95dMAPCOUNTS provides the "map count" (i.e. the count of mapped keys) for each map in package gahgu95d.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**

```
gahgu95dMAPCOUNTS
mapnames <- names(gahgu95dMAPCOUNTS)
gahgu95dMAPCOUNTS[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 gahgu95d.db
checkMAPCOUNTS("gahgu95d.db")
```

---

gahgu95dORGANISM      *The Organism for gahgu95d*

---

**Description**

gahgu95dORGANISM is an R object that contains a single item: a character string that names the organism for which gahgu95d was built.

**Details**

Although the package name is suggestive of the organism for which it was built, gahgu95dORGANISM provides a simple way to programmatically extract the organism name.

**Examples**

```
gahgu95dORGANISM
```

---

gahgu95dSWISSPROTID      *Map between probesets and Genes*

---

**Description**

gahgu95dSWISSPROTID is an R object that maps probe identifiers to the corresponding swissprot id.

**Details**

Each probeset maps to a vector containing the swissprot id. If the swissprot id is unknown, the vector will contain an NA.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

## Examples

```
x <- gahgu95dSWISSPROTID
# Get the probe identifiers that are mapped to a swissprot id
mapped_probes <- mappedkeys(x)
# Convert to a list
xx <- as.list(x[mapped_probes])
if(length(xx) > 0) {
  # Get the SWISSPROTID for the first five probes
  xx[1:5]
  # Get the first one
  xx[[1]]
}
```

---

gahgu95dSYMBOL

*Map between probeset and Gene Symbols*

---

## Description

gahgu95dSYMBOL is an R object that provides mappings between probeset and gene abbreviations. gahgu95dSYMBOL2PROBE provides the reverse mapping.

## Details

Each probeset 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: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

## References

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

## Examples

```
x <- gahgu95dSYMBOL
# 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]]
}
```

---

`gahgu95dUNIPROT`*Map Uniprot accession numbers with probeset identifiers*

---

**Description**

`gahgu95dUNIPROT` is an R object that contains mappings between probeset identifiers and Uniprot accession numbers.

**Details**

This object is a simple mapping of custom probeset identifiers to Uniprot Accessions.

Mappings were based on data provided by: Genecards ( <http://www.genecards.org> ) on 2010-Nov22

**Examples**

```
x <- gahgu95dUNIPROT
# Get the probeset 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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