# MafDb.1Kgenomes.phase1.hs37d5

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MafDb.1Kgenomes.phase1.hs37d5-package

Annotation package for minor allele frequency data from the 1000 Genomes Project Phase 1

# **Description**

This annotation package stores minor allele frequency (MAF) data from the Phase 1 of the 1000 Genomes Project. The data are exposed to the user in the form of a GScores object, named after the package and loaded into main memory only as different chromosomes and populations are being queried. The class definition and methods to access GScores objects are found in the GenomicScores software package. To minimize disk space and memory requirements, MAF values larger or equal than 0.1 are stored using two significant digits, while MAF values smaller than 0.1 are stored using one significant digit.

Please consult the 1000 Genomes Project FAQ page at http://www.internationalgenome.org/faq before you use these data on your own research.

## **Format**

MafDb.1Kgenomes.phase1.hs37d5 GScores object containing MAF values from the 1000 Genomes Project Phase 1 downl

## Author(s)

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#### **Source**

The 1000 Genomes Project Consortium. An integrated map of genetic variation from 1,092 human genomes. Nature, 491:56-65, 2012.

The International Genome Sample Resource (IGSR), Hinxton, UK (URL: http://www.internationalgenome.org) [March, 2018, accessed]

#### See Also

GScores-class gscores GenomicScores

#### **Examples**

```
library(SNPlocs.Hsapiens.dbSNP144.GRCh37)
library(MafDb.1Kgenomes.phase1.hs37d5)
ls("package:MafDb.1Kgenomes.phase1.hs37d5")
mafdb <- MafDb.1Kgenomes.phase1.hs37d5</pre>
mafdb
citation(mafdb)
populations(mafdb)
## lookup allele frequencies for rs1129038, a SNP associated to blue and brown eye colors
## as reported by Eiberg et al. Blue eye color in humans may be caused by a perfectly associated
## founder mutation in a regulatory element located within the HERC2 gene inhibiting OCA2 expression.
## Human Genetics, 123(2):177-87, 2008 [http://www.ncbi.nlm.nih.gov/pubmed/18172690]
snpdb <- SNPlocs.Hsapiens.dbSNP144.GRCh37</pre>
rng <- snpsById(snpdb, ids="rs1129038")</pre>
rng
gscores(mafdb, rng)
gscores(mafdb, GRanges("15:28356859"))
```

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