

# MafDb.ESP6500SI.V2.SSA137

February 28, 2017

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MafDb.ESP6500SI.V2.SSA137-package

*Annotation package for minor allele frequency data from the NHLBI  
ESP project*

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## Description

This annotation package stores minor allele frequency (MAF) data values frozen from the NHLBI Exome Sequencing (ESP) project. The data is stored in the form of a SQLite database and is loaded automatically in the form of a MafDb object. The name of the exposed object matches the name of the package and part of the filename that contained the data imported into the package. The class definition and methods to access MafDb objects are found in the [VariantFiltering](#) software package.

WARNING: this package has been emptied, deprecated and will be removed in the next release of Bioconductor. It has been replaced by [MafDb.ESP6500SI.V2.SSA137.hs37d5](#) and [MafDb.ESP6500SI.V2.SSA137.GRCh](#)

## Format

[MafDb.ESP6500SI.V2.SSA137](#) MafDb object containing MAF values from 6500 ESP exomes downloaded in March 20

## Author(s)

R. Castelo

## Source

Exome Variant Server, NHLBI GO Exome Sequencing Project (ESP), Seattle, WA (URL: <http://evs.gs.washington.edu/EVS>) [March, 2016, accessed]

## See Also

[makeMafDbPackageESP](#) [MafDb.1Kgenomes.phase1.hs37d5](#) [MafDb.1Kgenomes.phase3.hs37d5](#) [MafDb-class snpid2maf](#) [VariantFiltering](#)

**Examples**

```
library(MafDb.ESP6500SI.V2.SSA137)

ls("package:MafDb.ESP6500SI.V2.SSA137")

MafDb.ESP6500SI.V2.SSA137

knownVariantsMAFcols(MafDb.ESP6500SI.V2.SSA137)

## lookup allele frequencies for rs1129038, an SNP associated to blue and brown eye colors
## as reported in 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]
snpid2maf(MafDb.ESP6500SI.V2.SSA137, "rs1129038")
```

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makeMafDbPackageESP	<i>Make a MafDb annotation data package from the NHLBI GO ESP Project</i>
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**Description**

This function creates an annotation data package for a MafDb object. Its primary purpose is to ease the task of fetching and packaging newer minor allele frequency (MAF) data. Note that MAF values are processed and stored in a way to reduce their space in disk. Please consult the manual page for the [MafDb-class](#) to know the details of these processing steps.

**Usage**

```
makeMafDbPackageESP(destDir=path.expand("~/"), MafDbURL=MafDbESPdefaultURL, MafDbPkgName=MafDbESP,
                    genome="hg19", version=NULL, author=NULL, maintainer=NULL, license=NULL, yieldSize=1000000)
```

**Arguments**

destDir	Destination directory for the newly created package.
MafDbURL	URL to the source VCF file(s). By default, it points to the URL holding the data currently stored in the package that defines this function.
MafDbPkgName	Name of the newly created package. This will define as well the name of the exported MafDb object.
genome	Version of the human genome, following UCSC nomenclature. Necessary for the internal call to the readVcf() function from the VariantAnnotation package.
version	Version to put on the new package. By default, the version corresponds to the version of the package that defines this function, bumping the second version number.
author	Author to put on the new package. By default, the author corresponds to the author of the package that defines this function.
maintainer	Maintainer to put on the new package. By default, the maintainer corresponds to the maintainer of the package that defines this function.

license	License to put on the new package. By default, the license corresponds to the license of the package that defines this function.
yieldSize	In the case source tabix VCF files, they are not read at once, but scanned in batches whose size is determined by this argument. By default is set to one million variants but it may be reduced to lower main memory requirements.

**Value**

Path to the folder containing the created data package.

**Author(s)**

R. Castelo

**See Also**

[MafDb-class snpid2maf MafDb.ESP6500SI.V2.SSA137](#)

**Examples**

```
MafDbESPdefaultURL ## default URL from where makeMafDbPackageESP() fetches the MAF data

MafDbESPdefaultPkgName ## default name for the package that makeMafDbPackageESP() creates

## Not run:
## the previous two default values can be overridden when calling makeMafDbPackageESP()
makeMafDbPackageESP()

## End(Not run)
```

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