Package 'EthSEQ'

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Type Package			
Title Ethnicity Annotation from Whole Exome Sequencing Data			
Version 2.1.3			
Author Alessandro Romanel			
Maintainer Alessandro Romanel <alessandro.romanel@unitn.it></alessandro.romanel@unitn.it>			
Description Reliable and rapid ethnicity annotation from whole exome sequencing data.			
License GPL-3			
Depends R (>= 2.15)			
Imports graphics, utils, parallel, grDevices, MASS (>= 7.3-47), geometry (>= 0.3-6), data.table (>= 1.10.0), SNPRelate (>= 1.8.0), gdsfmt (>= 1.10.1), plot3D (>= 1.1)			
RoxygenNote 6.0.1			
biocViews			
Suggests knitr, rmarkdown			
VignetteBuilder knitr			
NeedsCompilation no			
Repository CRAN			

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R topics documented:

	ethseq.Analysis	
Index		4

ethseq.Analysis

Description

This function performs ethnicity analysis of a set of samples ad reports the results.

Usage

```
ethseq.Analysis(target.vcf = NA, target.gds = NA, bam.list = NA,
out.dir = "/tmp", model.gds = NA, model.available = NA,
model.folder = "/tmp", run.genotype = FALSE, aseq.path = "/tmp",
mbq = 20, mrq = 20, mdc = 10, cores = 1, verbose = TRUE,
composite.model.call.rate = 1, refinement.analysis = NA, space = "2D",
bam.chr.encoding = FALSE)
```

Arguments

nic)				
bam.chr.encoding				

ethseq.RM

Value

Logical value indicating the success of the analysis

ethseq.RM

Create Reference Model for Ethnicity Analysis

Description

This function creates a GDS reference model that can be used to performe EthSEQ ethnicity analysis

Usage

```
ethseq.RM(vcf.fn, annotations, out.dir = "./",
model.name = "Reference.Model", bed.fn = NA, call.rate = 1, cores = 1)
```

Arguments

vcf.fn	vector of paths to genotype files in VCF format
annotations	data.frame with mapping of all samples names, ethnicities and gender
out.dir	Path to output folder
model.name	Name of the output model
bed.fn	path to BED file with regions of interest
call.rate	SNPs call rate cutoff for inclusion in the final reference model
cores	How many parallel cores to use in the reference model generation

Value

Logical value indicating the success of the analysis

Index

ethseq.Analysis,2 ethseq.RM,3