balselrexample

2024-02-18

library(balselr)  
#Read In the VCF File  
read\_vcf(x=system.file(package="balselr", "example.vcf"))

## CHR POS ID REF ALT QUAL FILTER  
## 1: 1 92 . A C 1000 PASS  
## 2: 1 177 . C A 1000 PASS  
## 3: 1 283 . T C 1000 PASS  
## 4: 1 289 . C G 1000 PASS  
## 5: 1 327 . G T 1000 PASS  
## ---   
## 834: 1 29734 . A T 1000 PASS  
## 835: 1 29761 . T C 1000 PASS  
## 836: 1 29795 . A T 1000 PASS  
...

#Parse the VCF Files  
ncd1imput <-parse\_vcf(infile=system.file(package="balselr", "example.vcf"), n0=108, type="ncd1")

## CHR POS ID REF ALT QUAL FILTER  
## 1: 1 92 . A C 1000 PASS  
## 2: 1 177 . C A 1000 PASS  
## 3: 1 283 . T C 1000 PASS  
## 4: 1 289 . C G 1000 PASS  
## 5: 1 327 . G T 1000 PASS  
## ---   
## 834: 1 29734 . A T 1000 PASS  
## 835: 1 29761 . T C 1000 PASS  
## 836: 1 29795 . A T 1000 PASS  
...

#Run ncd1 Test  
ncd1(ncd1\_input)

## Win.ID SegSites IS tf MidMaf MidSNP NCD1  
## 1: 1 10 10 0.5 0.00462963 398 0.3906102  
## 2: 2 12 12 0.5 0.38425926 627 0.4094693  
## 3: 3 15 15 0.5 0.31018519 956 0.4236469  
## 4: 4 16 16 0.5 0.02314815 1155 0.4265262  
## 5: 5 17 17 0.5 0.01388889 1336 0.4270404  
## ---   
## 191: 191 19 19 0.5 0.24537037 29259 0.4167113  
## 192: 192 18 18 0.5 0.27314815 29377 0.4134089  
## 193: 193 15 15 0.5 0.24537037 29734 0.4096756  
...