Package 'GenePopStats'

September 16, 2025

September 10, 2025	
Type Package	
Title Population Genetics Statistics for Selective Sweep	
Version 0.1.0	
Imports vcfR	
Description Selective Sweep can be calculated by five significant Population Genetics Statistics such as ``Pi", ``Wattersons_theta", ``Tajima_D", ``Kelly_ZnS" and ``Omega" Statistics in specified chromosomal region. It has been developed by using the concept of ``Kern" and ``Schrider" (2018) <doi:10.1534 g3.118.200262="">.</doi:10.1534>	
License GPL-3	
Encoding UTF-8	
RoxygenNote 7.3.2	
NeedsCompilation no	
Author Abhik Sarkar [aut, cre], Dwijesh Chandra Mishra [aut], Dipro Sinha [aut], Saikath Das [aut], Krishna Kumar Chaturvedi [aut], Shashi Bhushan Lal [aut], Sanjeev Kumar [aut], Ranjit Kumar Paul [aut], Girish Kumar Jha [aut], Neeraj Budhlakoti [aut], Md Yeasin [aut]	
Maintainer Abhik Sarkar <abhik.iasri@gmail.com></abhik.iasri@gmail.com>	
Repository CRAN	
Date/Publication 2025-09-16 06:20:02 UTC	
Contents	
GenePopStats	2
Index	3
Index	3

2 GenePopStats

GenePopStats	Title GenePopStats: Population Genetics Statistics for Selective Sweep

Description

Title GenePopStats: Population Genetics Statistics for Selective Sweep

Usage

```
GenePopStats(vcf_file, window_size, step_size)
```

Arguments

Value

Results are being obtained as a matrix containing 5 Population Summary Statistics such as "Pi", "Wattersons_theta", "Tajima_D", "Kelly_ZnS" and "Omega" Statistics subdivided into windows as specified chromosomal region

Examples

```
path<-system.file("exdata", "ExampleVCF.vcf", package = "GenePopStats")
GenePopStats(path, 20, 10)</pre>
```

Index

GenePopStats, 2