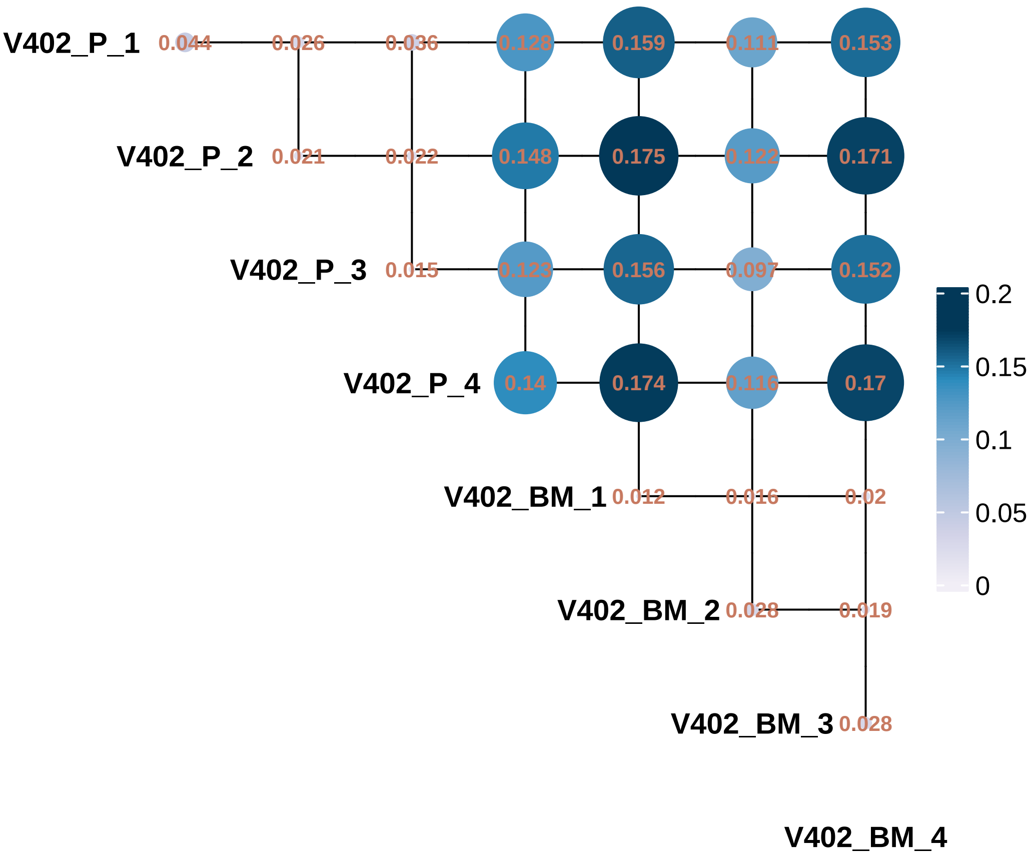
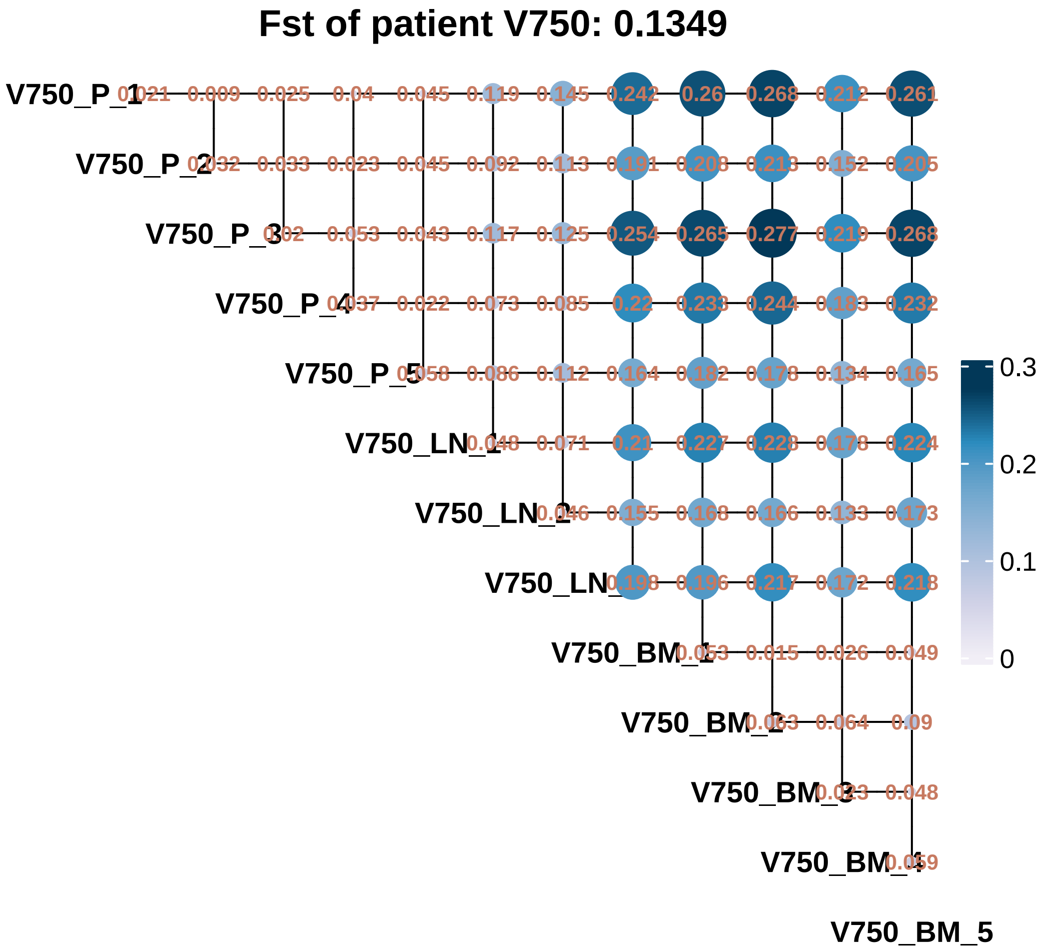
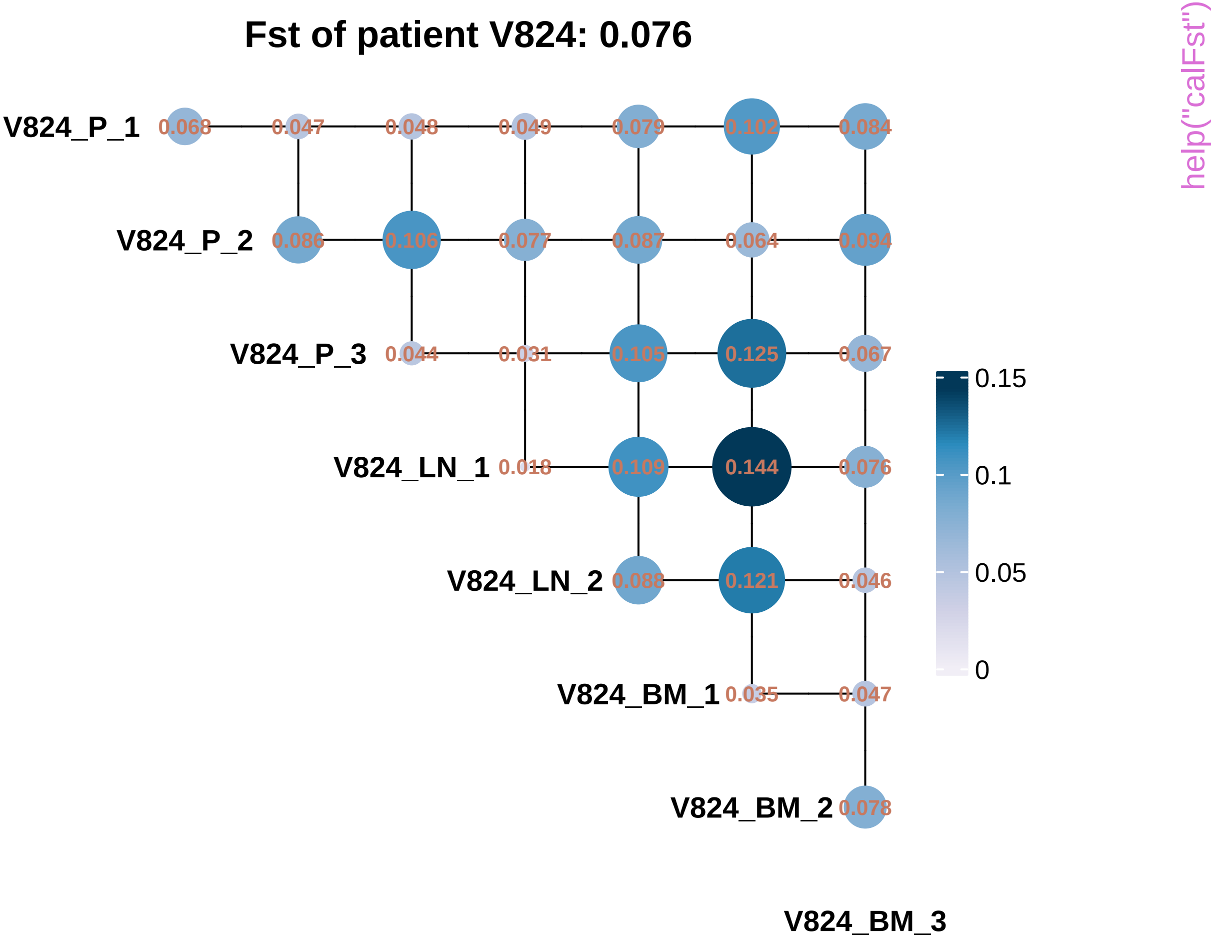
Fst of patient V402: 0.092



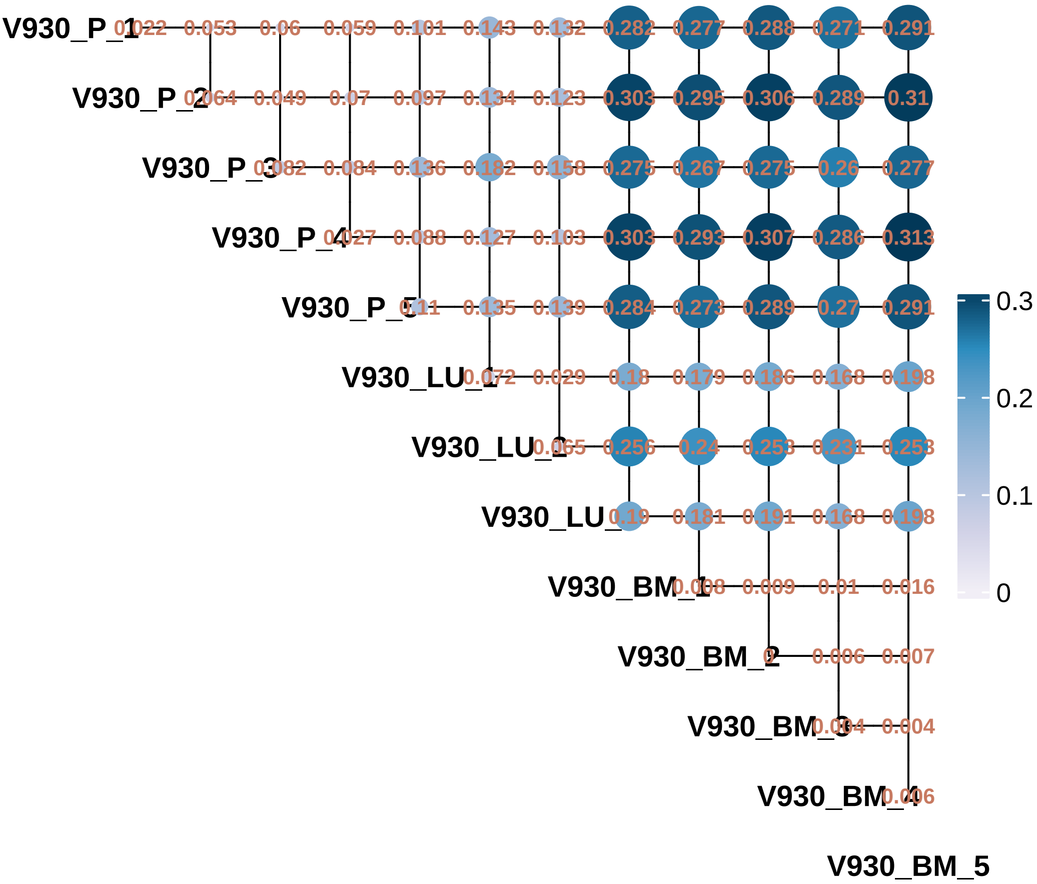
help("calFst")


Fst of patient V750: 0.1349
V750_P_1
0.021 0.009 0.025 0.04 0.045 0.119 0.145 0.242 0.26 0.268 0.212 0.261
V750_P_2
0.032 0.033 0.023 0.045 0.092 0.113 0.191 0.208 0.213 0.152 0.205
V750_P_3
0.02 0.053 0.043 0.117 0.125 0.254 0.265 0.277 0.219 0.268
V750_P_4
0.037 0.022 0.073 0.085 0.22 0.233 0.244 0.183 0.232
V750_P_5
0.058 0.086 0.112 0.164 0.182 0.178 0.134 0.165
V750_LN_1
0.048 0.071 0.21 0.227 0.228 0.178 0.224
V750_LN_2
0.046 0.155 0.168 0.166 0.133 0.173
V750_LN_3
0.198 0.196 0.217 0.172 0.218
V750_BM_1
0.053 0.015 0.026 0.049
V750_BM_2
0.063 0.064 0.09
V750_BM_3
0.023 0.048
V750_BM_4
0.059
V750_BM_5
0.3
0.2
0.1
0

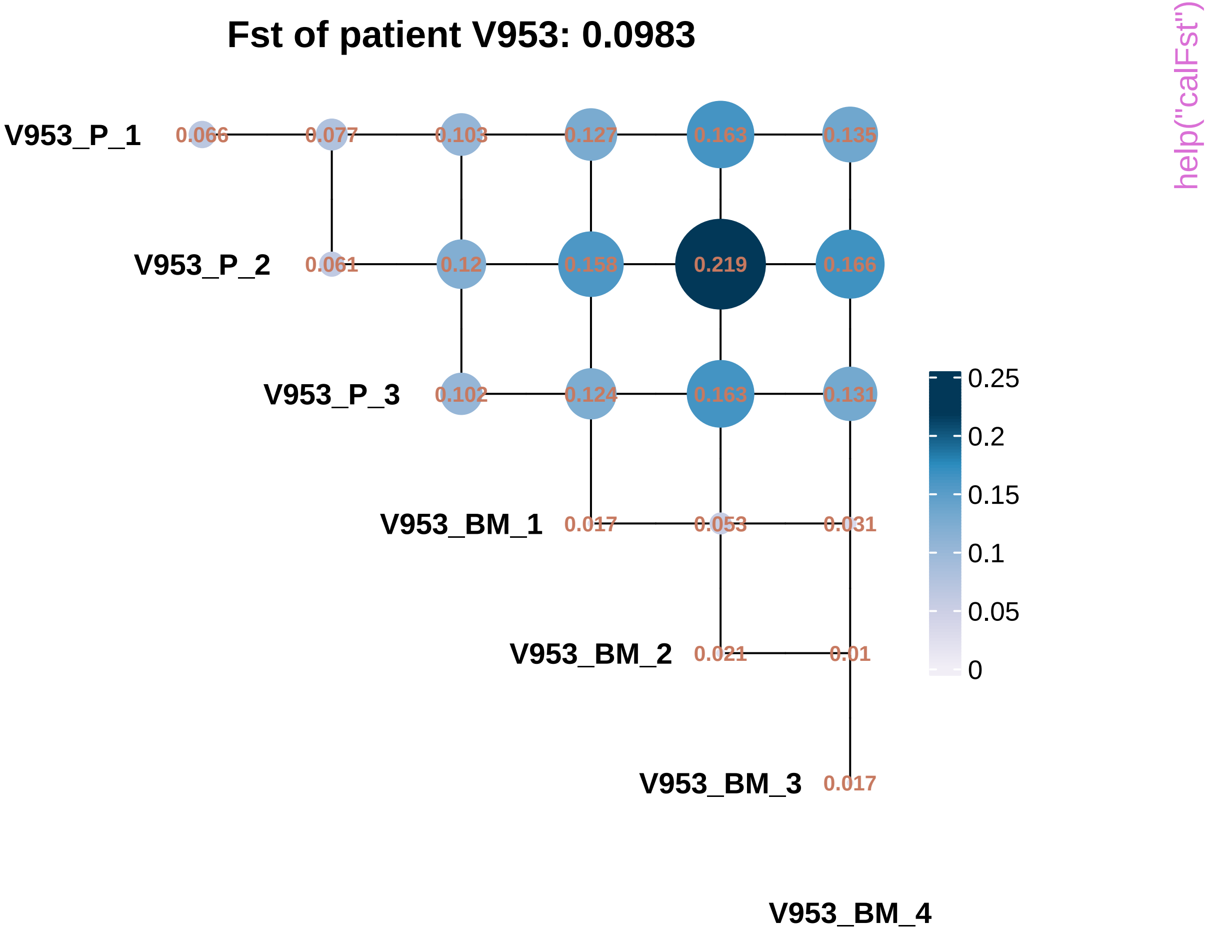
help("calFst")

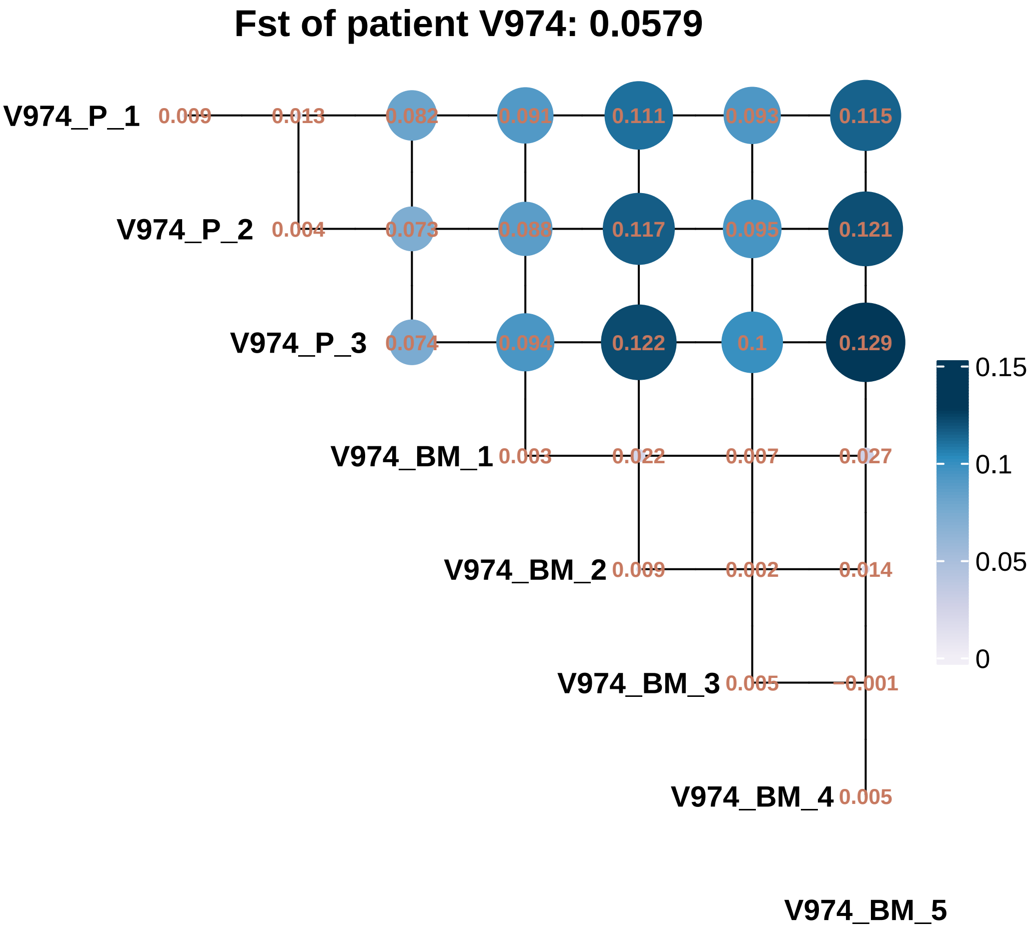

Fst of patient V824: 0.076
V824_P_1
0.068
0.047
0.048
0.049
0.079
0.102
0.084
V824_P_2
0.086
0.106
0.077
0.087
0.064
0.094
V824_P_3
0.044
0.031
0.105
0.125
0.067
V824_LN_1
0.018
0.109
0.144
0.076
V824_LN_2
0.088
0.121
0.046
V824_BM_1
0.035
0.047
V824_BM_2
0.078
V824_BM_3
0.15
0.1
0.05
0
help("calFst")

Fst of patient V930: 0.166223

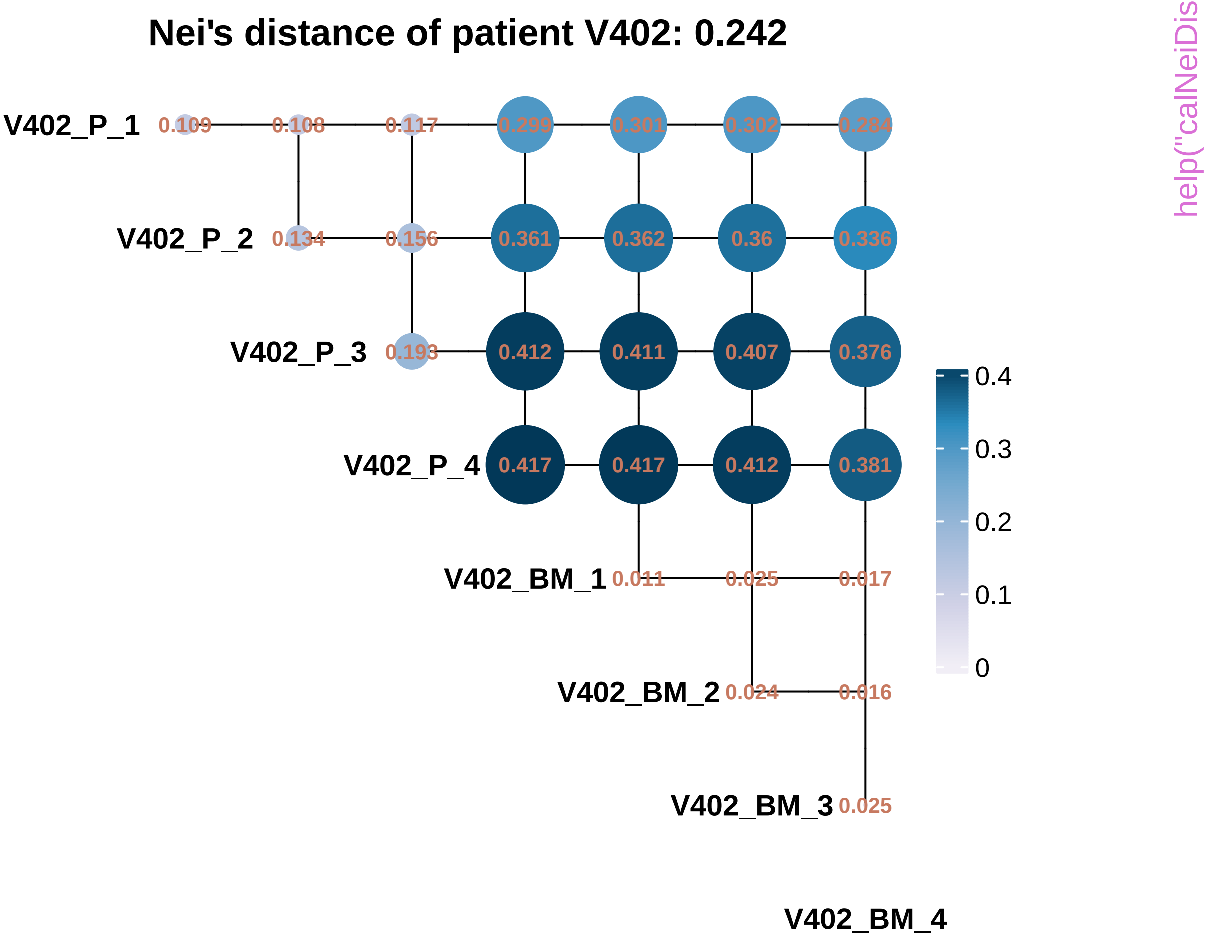


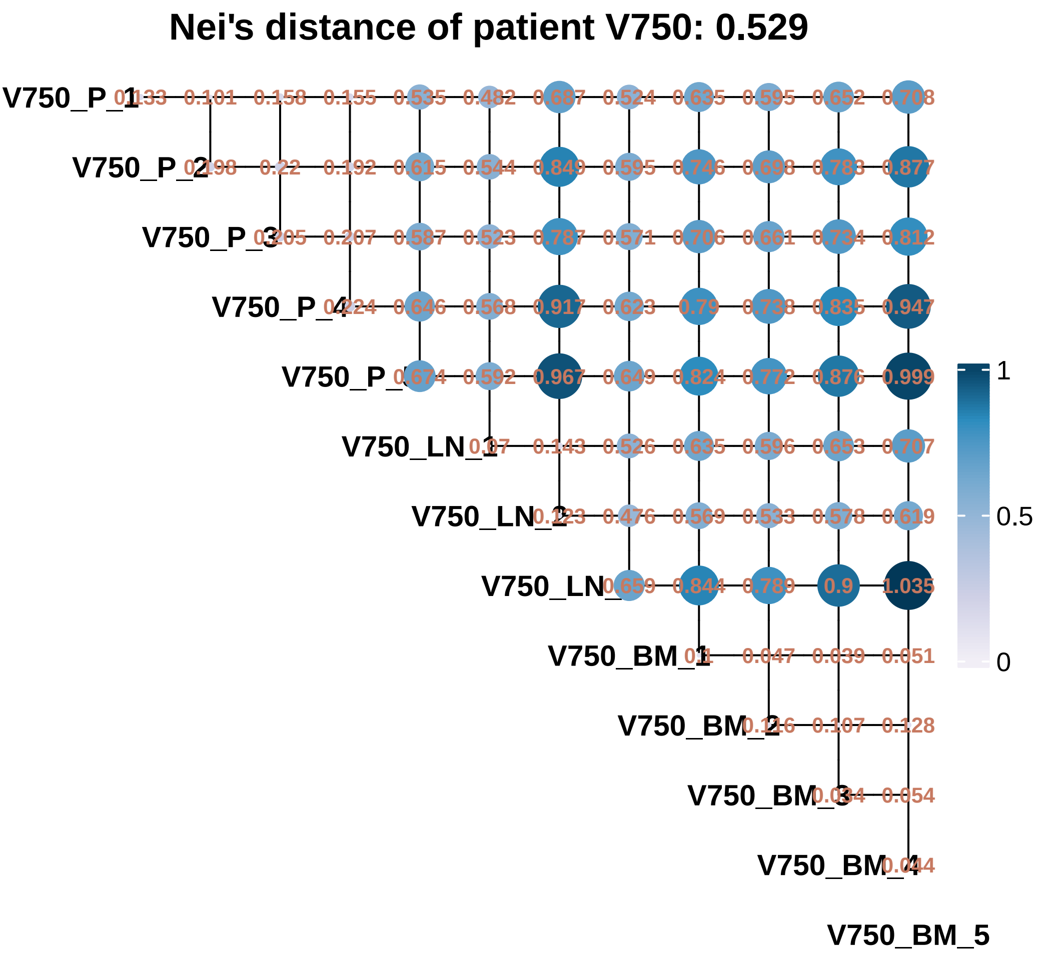
help("calFst")


Fst of patient V953: 0.0983
V953_P_1
0.066
0.077
0.103
0.127
0.163
0.135
V953_P_2
0.061
0.12
0.158
0.219
0.166
V953_P_3
0.102
0.124
0.163
0.131
V953_BM_1
0.017
0.053
0.031
V953_BM_2
0.021
0.01
V953_BM_3
0.017
V953_BM_4
0.25
0.2
0.15
0.1
0.05
0
help("calFst")

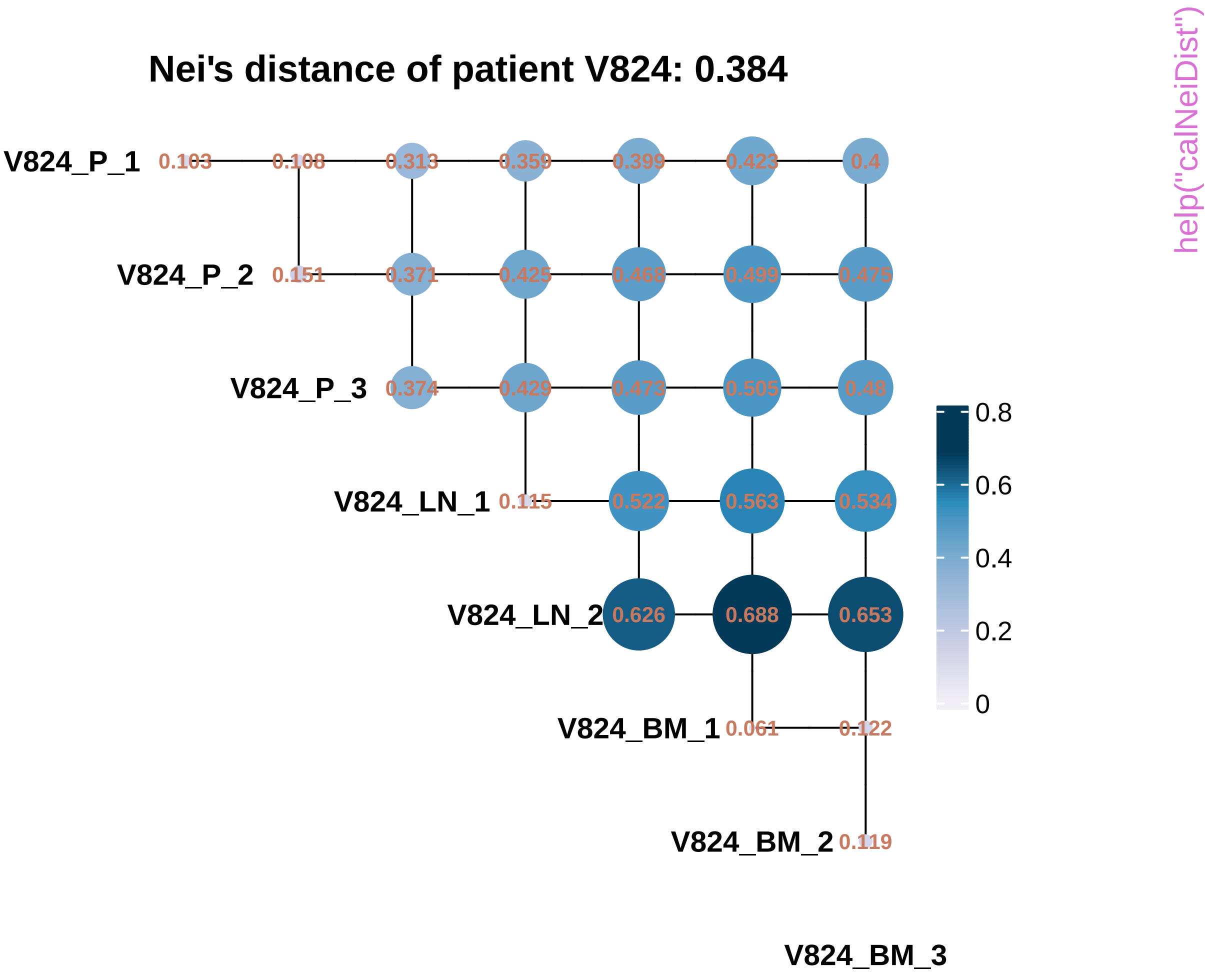

Fst of patient V974: 0.0579
V974_P_1
0.009
0.013
0.082
0.091
0.111
0.093
0.115
V974_P_2
0.004
0.073
0.088
0.117
0.095
0.121
V974_P_3
0.074
0.094
0.122
0.1
0.129
V974_BM_1
0.003
0.022
0.007
0.027
V974_BM_2
0.009
0.002
0.014
V974_BM_3
0.005
−0.001
V974_BM_4
0.005
V974_BM_5
0.15
0.1
0.05
0

help("calFst")

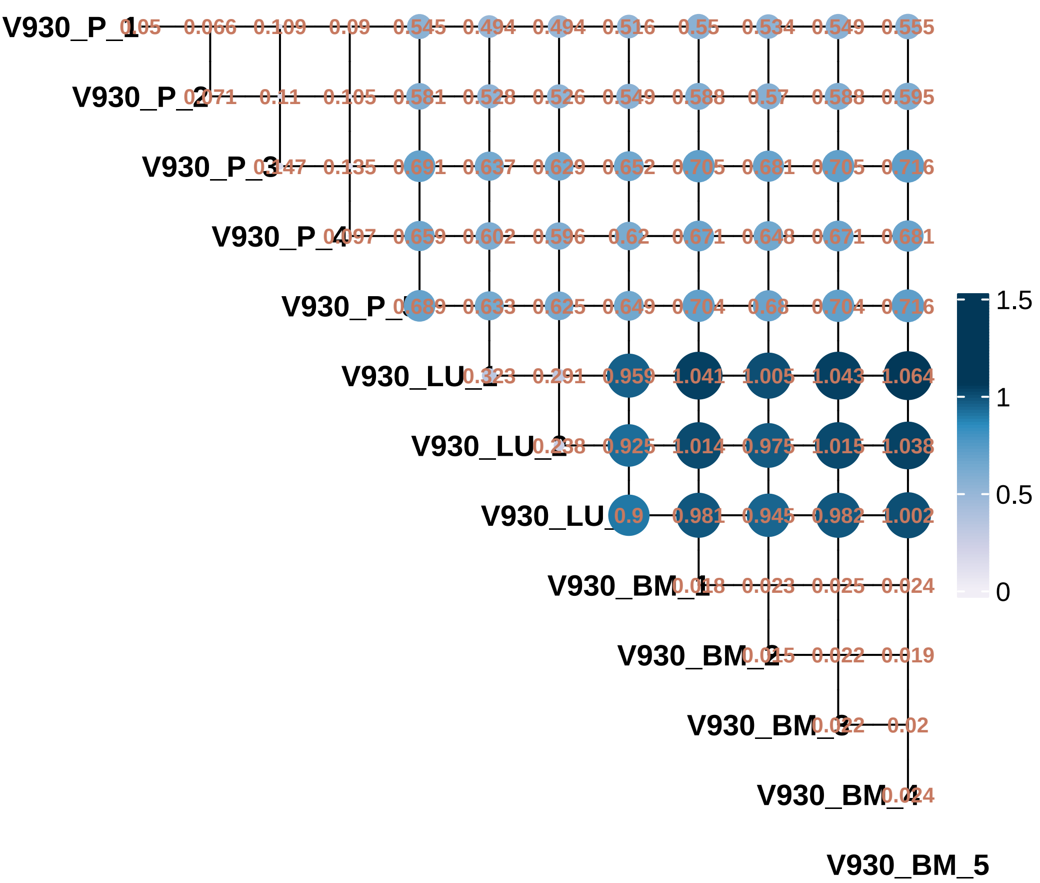

Nei's distance of patient V402: 0.242
V402_P_1
0.109
0.108
0.117
0.299
0.301
0.302
0.284
V402_P_2
0.134
0.156
0.361
0.362
0.36
0.336
V402_P_3
0.193
0.412
0.411
0.407
0.376
V402_P_4
0.417
0.417
0.412
0.381
V402_BM_1
0.011
0.025
0.017
V402_BM_2
0.024
0.016
V402_BM_3
0.025
V402_BM_4
0.4
0.3
0.2
0.1
0
help("calNeiDist")



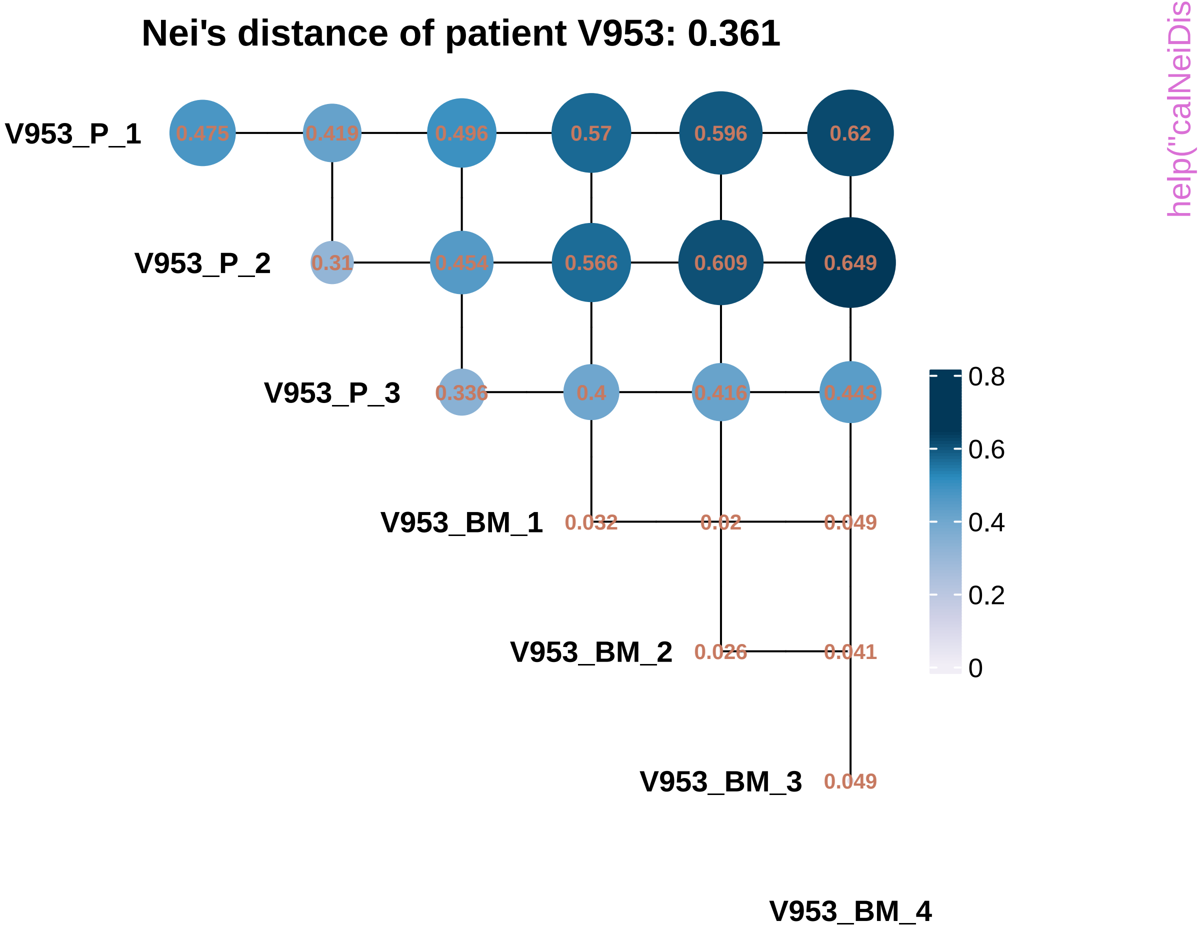
help("calNeiDist")


Nei's distance of patient V824: 0.384
V824_P_1
0.103
0.108
0.313
0.359
0.399
0.423
0.4
V824_P_2
0.151
0.371
0.425
0.468
0.499
0.475
V824_P_3
0.374
0.429
0.473
0.505
0.48
V824_LN_1
0.115
0.522
0.563
0.534
V824_LN_2
0.626
0.688
0.653
V824_BM_1
0.061
0.122
V824_BM_2
0.119
V824_BM_3
0.8
0.6
0.4
0.2
0
help("calNeiDist")

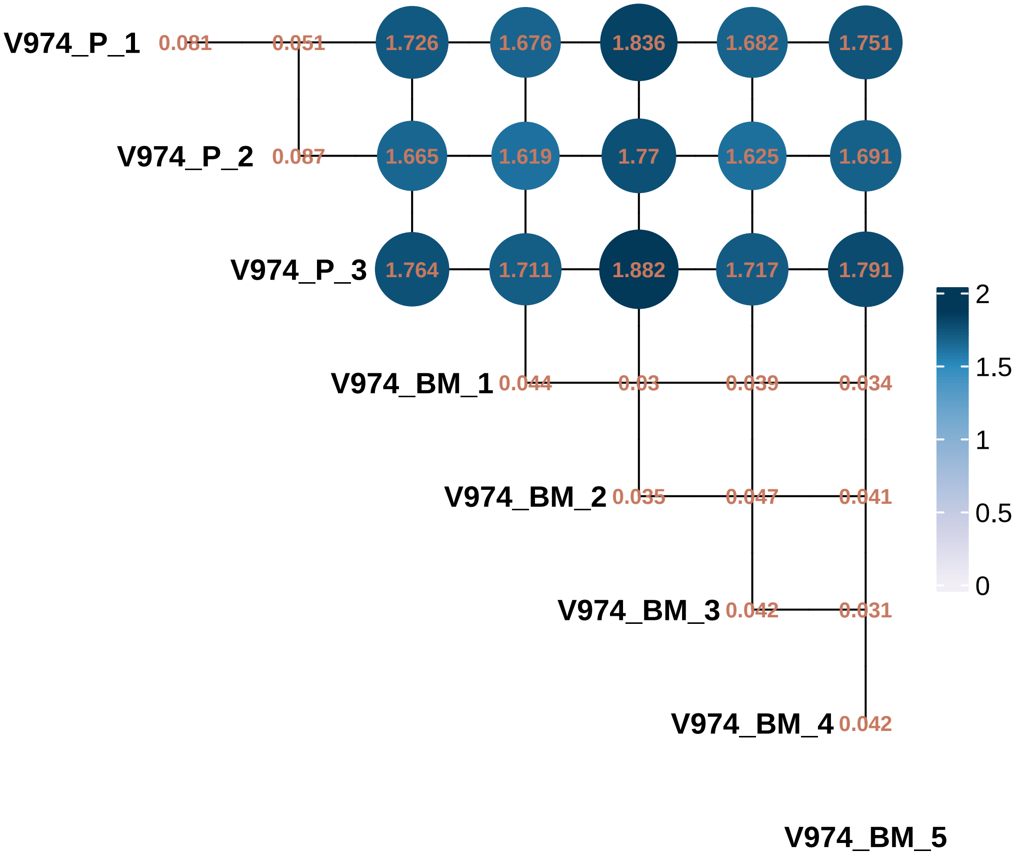
Nei's distance of patient V930: 0.534



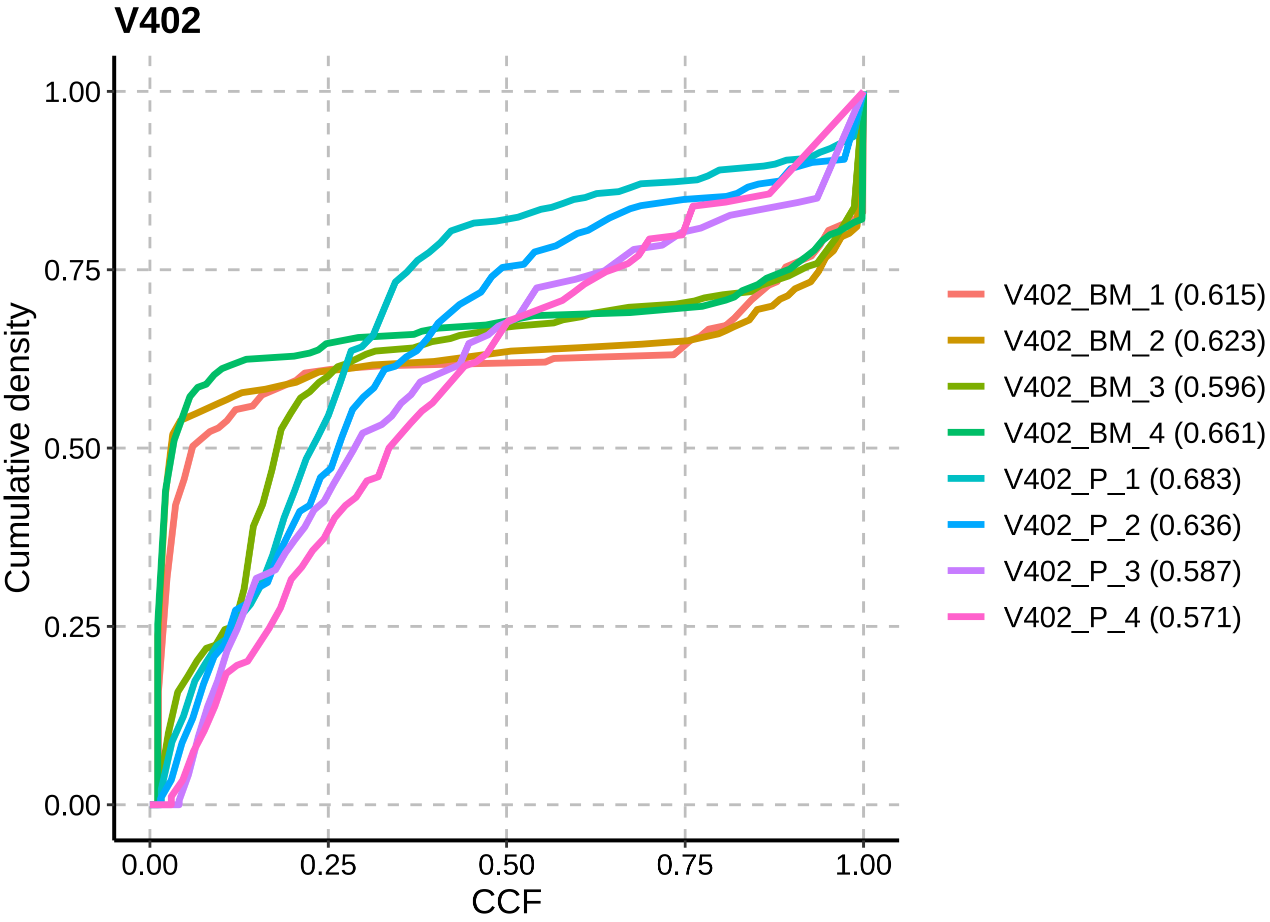
help("calNeiDist")


Nei's distance of patient V953: 0.361
V953_P_1
0.475
0.419
0.496
0.57
0.596
0.62
V953_P_2
0.31
0.454
0.566
0.609
0.649
V953_P_3
0.336
0.4
0.416
0.443
V953_BM_1
0.032
0.02
0.049
V953_BM_2
0.026
0.041
V953_BM_3
0.049
V953_BM_4
0.8
0.6
0.4
0.2
0
help("calNeiDist")

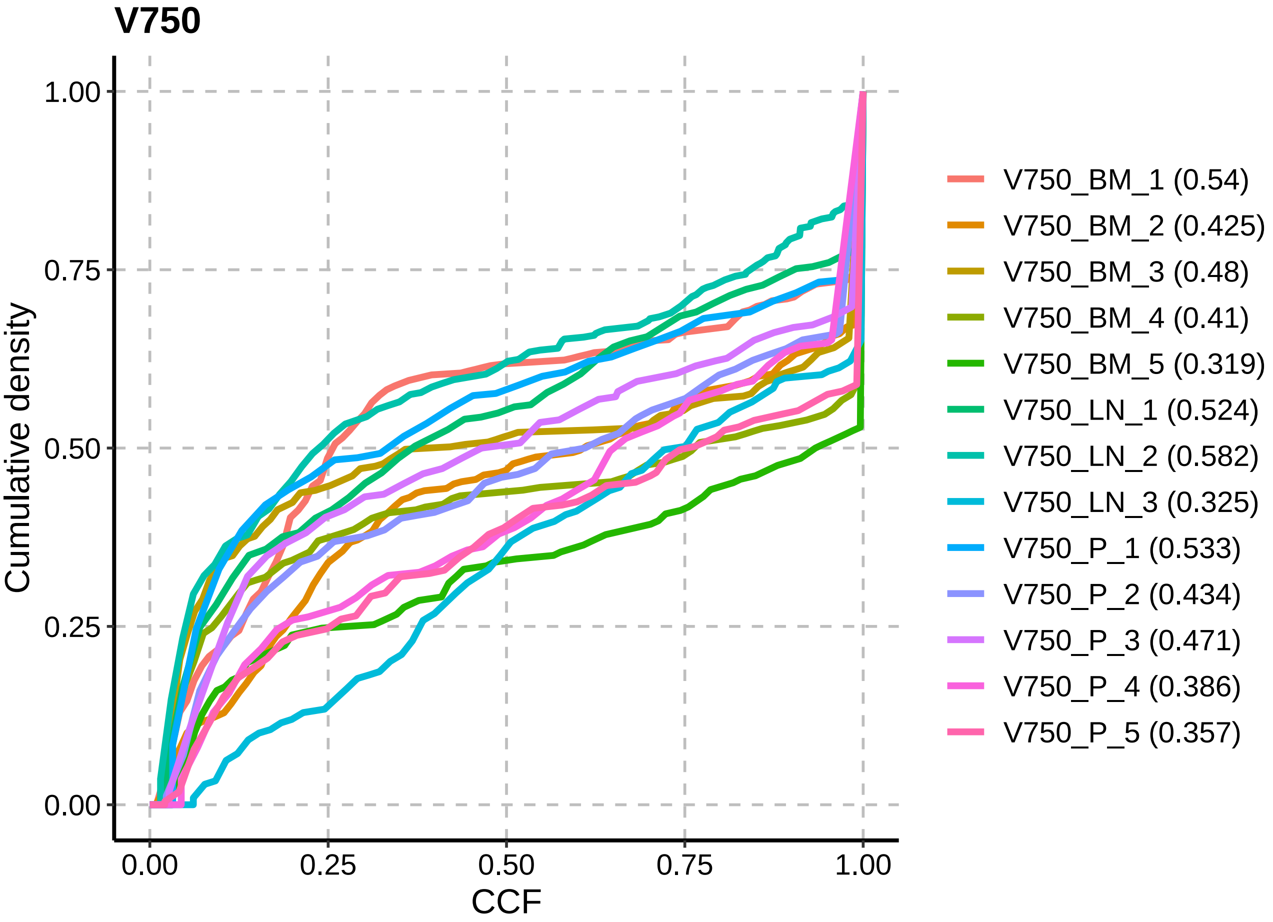
Nei's distance of patient V974: 0.947



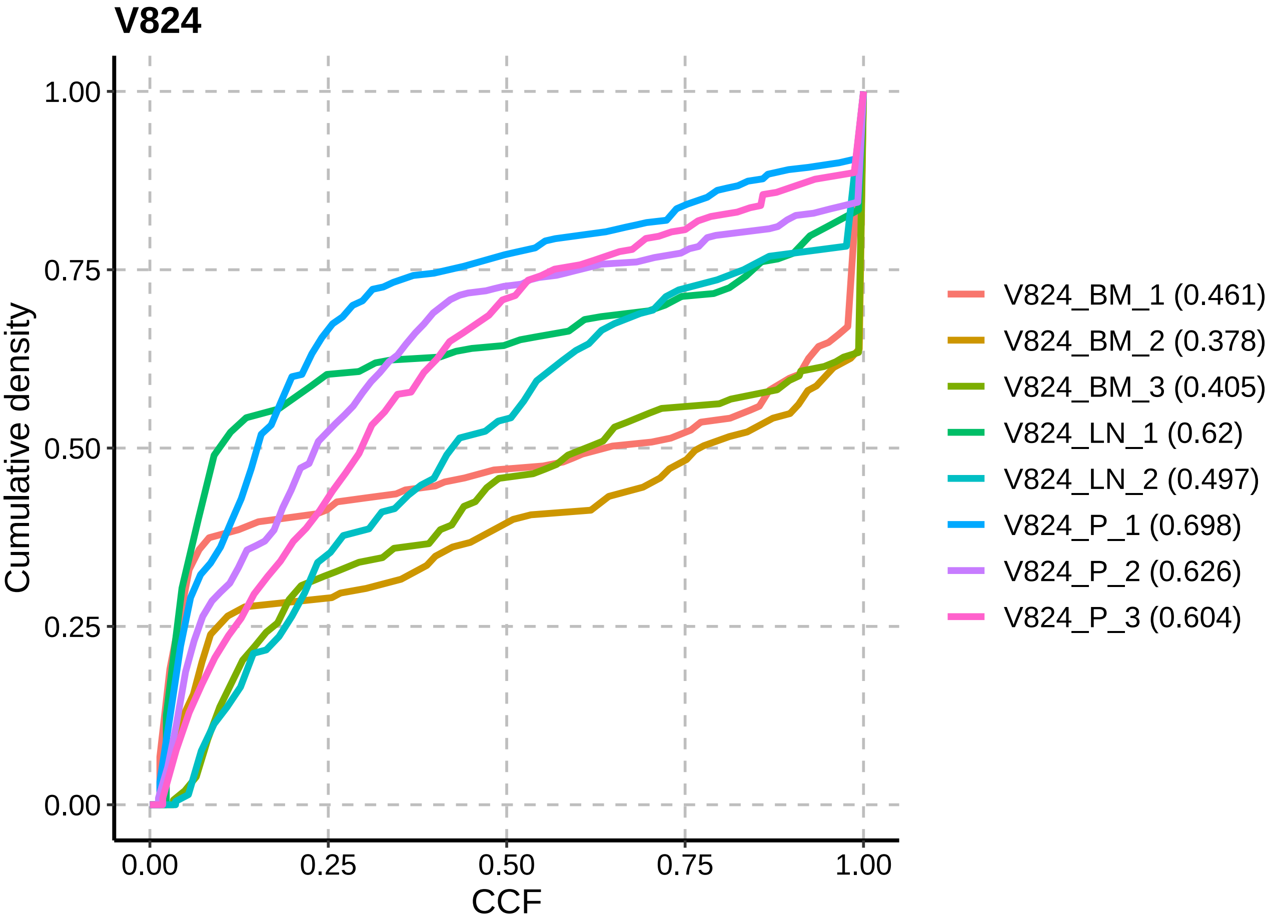
help("calNeiDist")


V402
Cumulative density
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
CCF
V402_BM_1 (0.615)
V402_BM_2 (0.623)
V402_BM_3 (0.596)
V402_BM_4 (0.661)
V402_P_1 (0.683)
V402_P_2 (0.636)
V402_P_3 (0.587)
V402_P_4 (0.571)

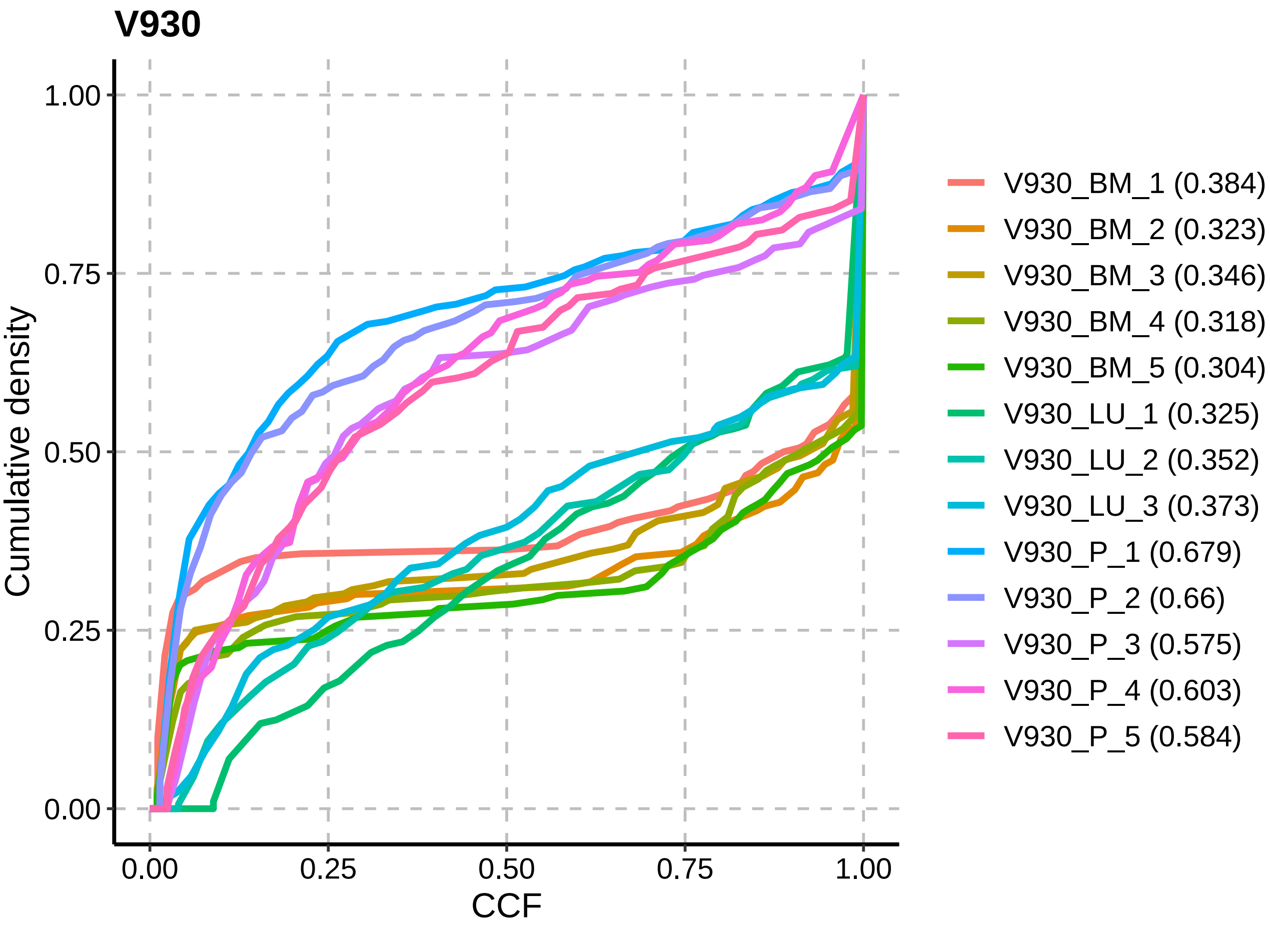
help("ccfAUC")


V750
Cumulative density
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
CCF
V750_BM_1 (0.54)
V750_BM_2 (0.425)
V750_BM_3 (0.48)
V750_BM_4 (0.41)
V750_BM_5 (0.319)
V750_LN_1 (0.524)
V750_LN_2 (0.582)
V750_LN_3 (0.325)
V750_P_1 (0.533)
V750_P_2 (0.434)
V750_P_3 (0.471)
V750_P_4 (0.386)
V750_P_5 (0.357)

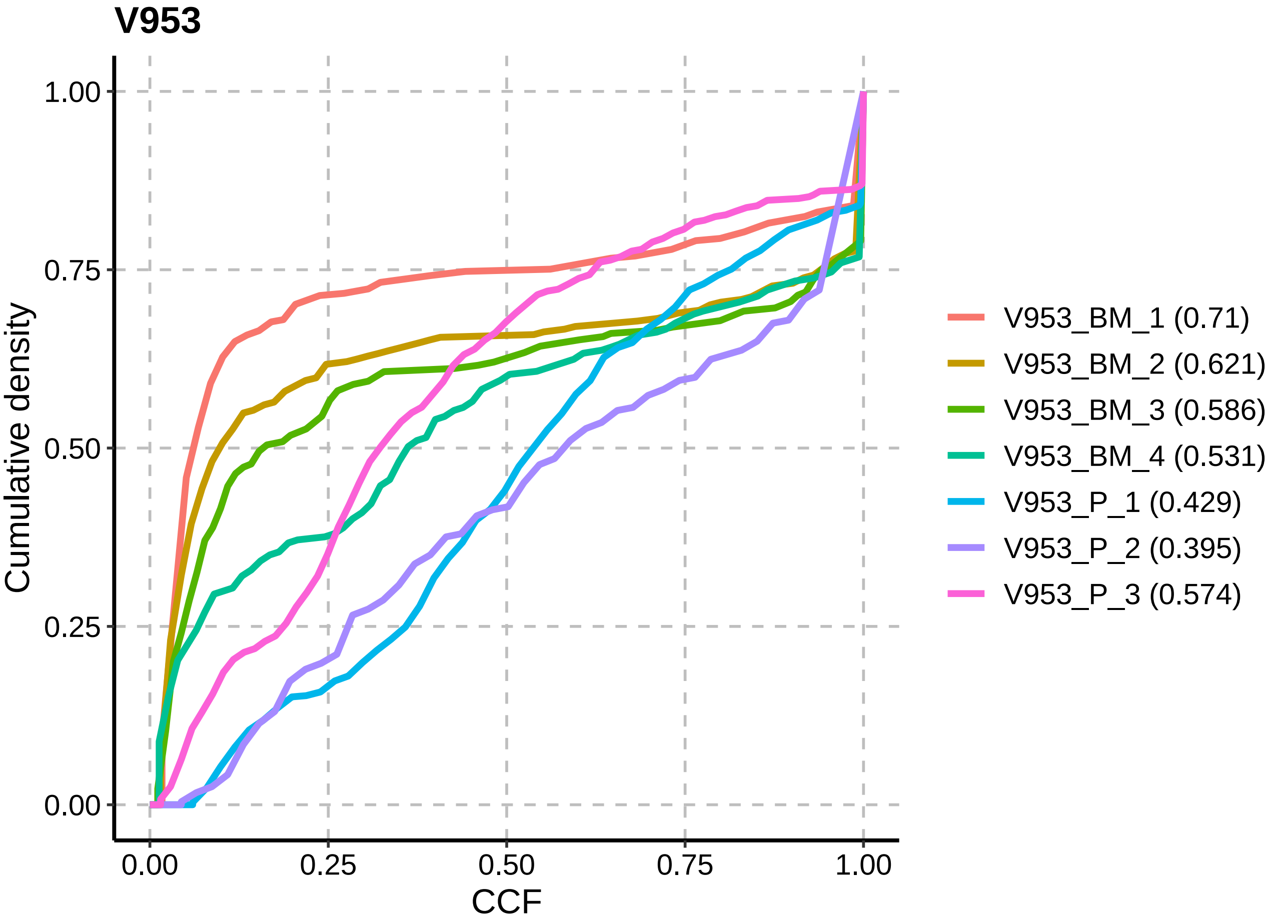
help("ccfAUC")


V824
Cumulative density
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
CCF
V824_BM_1 (0.461)
V824_BM_2 (0.378)
V824_BM_3 (0.405)
V824_LN_1 (0.62)
V824_LN_2 (0.497)
V824_P_1 (0.698)
V824_P_2 (0.626)
V824_P_3 (0.604)

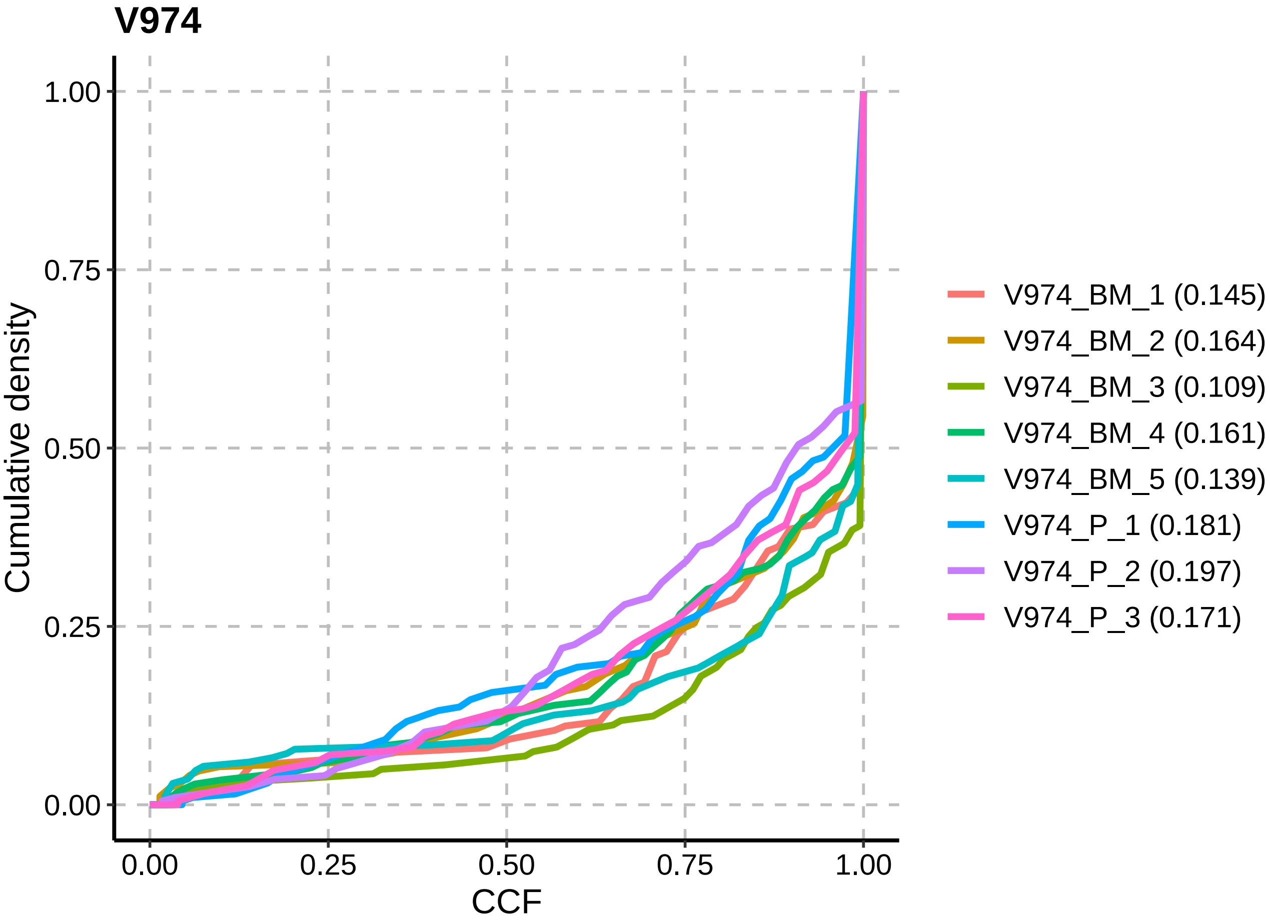
help("ccfAUC")


V930
Cumulative density
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
CCF
V930_BM_1 (0.384)
V930_BM_2 (0.323)
V930_BM_3 (0.346)
V930_BM_4 (0.318)
V930_BM_5 (0.304)
V930_LU_1 (0.325)
V930_LU_2 (0.352)
V930_LU_3 (0.373)
V930_P_1 (0.679)
V930_P_2 (0.66)
V930_P_3 (0.575)
V930_P_4 (0.603)
V930_P_5 (0.584)

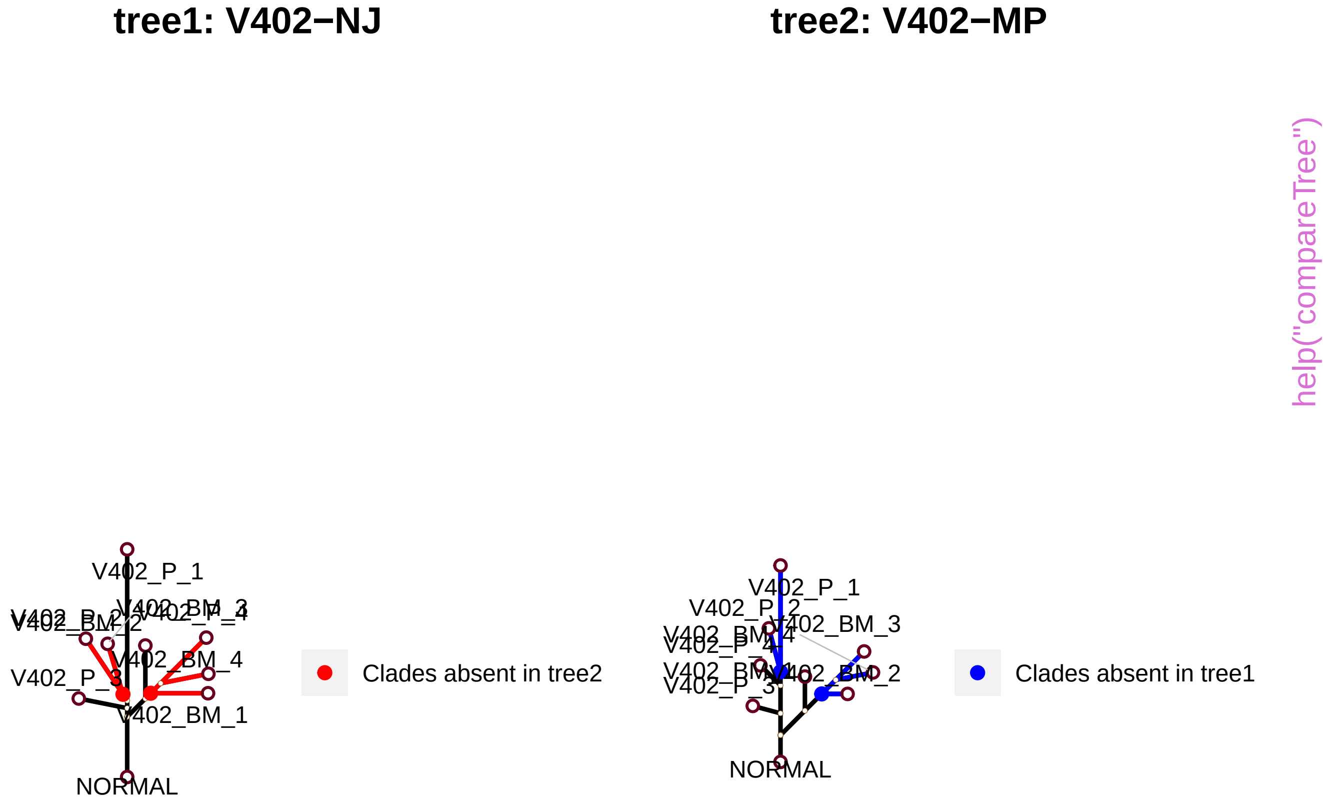
help("ccfAUC")

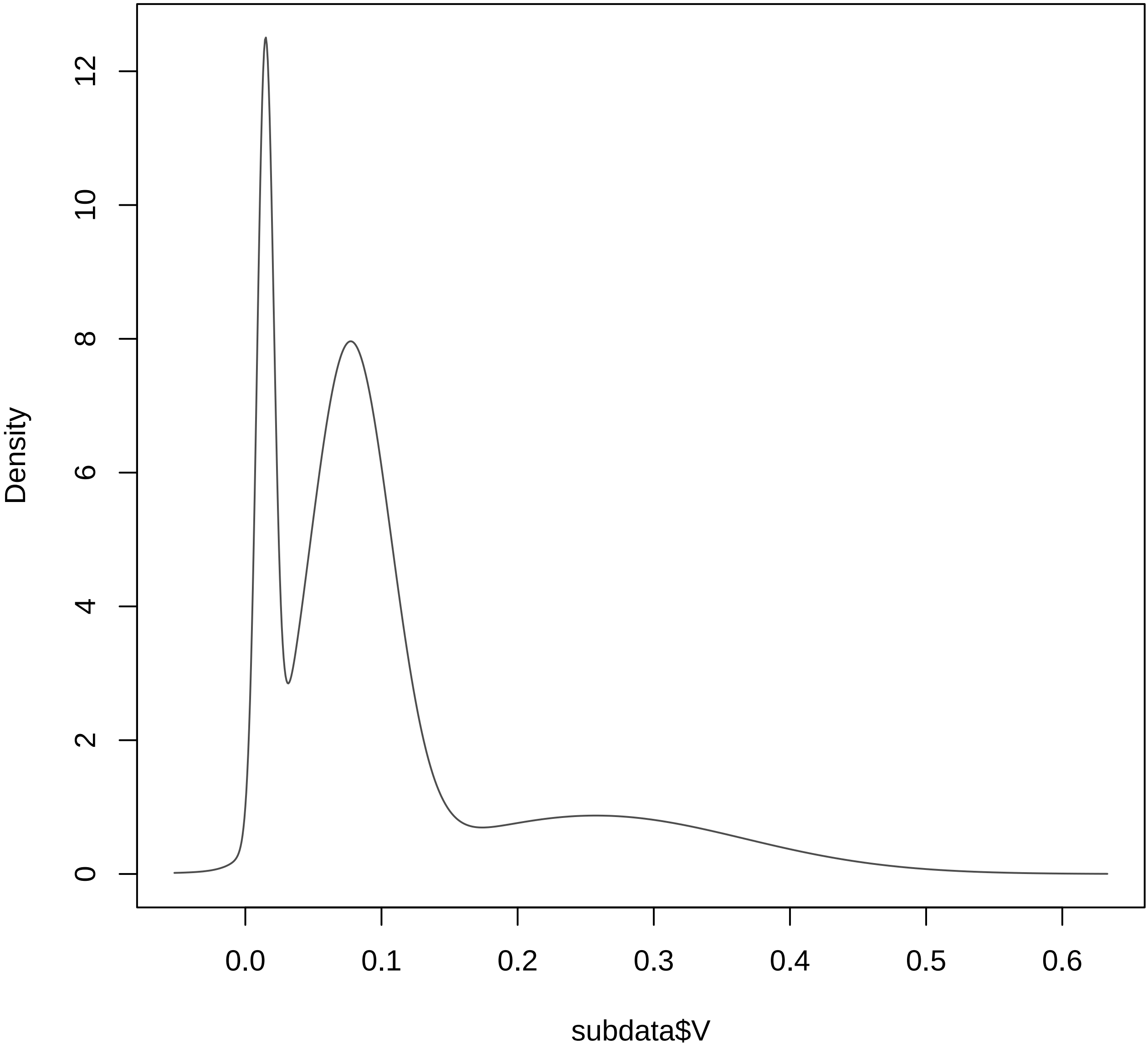

V953
1.00
0.75
0.50
0.25
0.00
Cumulative density
0.00
0.25
0.50
0.75
1.00
CCF
V953_BM_1 (0.71)
V953_BM_2 (0.621)
V953_BM_3 (0.586)
V953_BM_4 (0.531)
V953_P_1 (0.429)
V953_P_2 (0.395)
V953_P_3 (0.574)

help("ccfAUC")

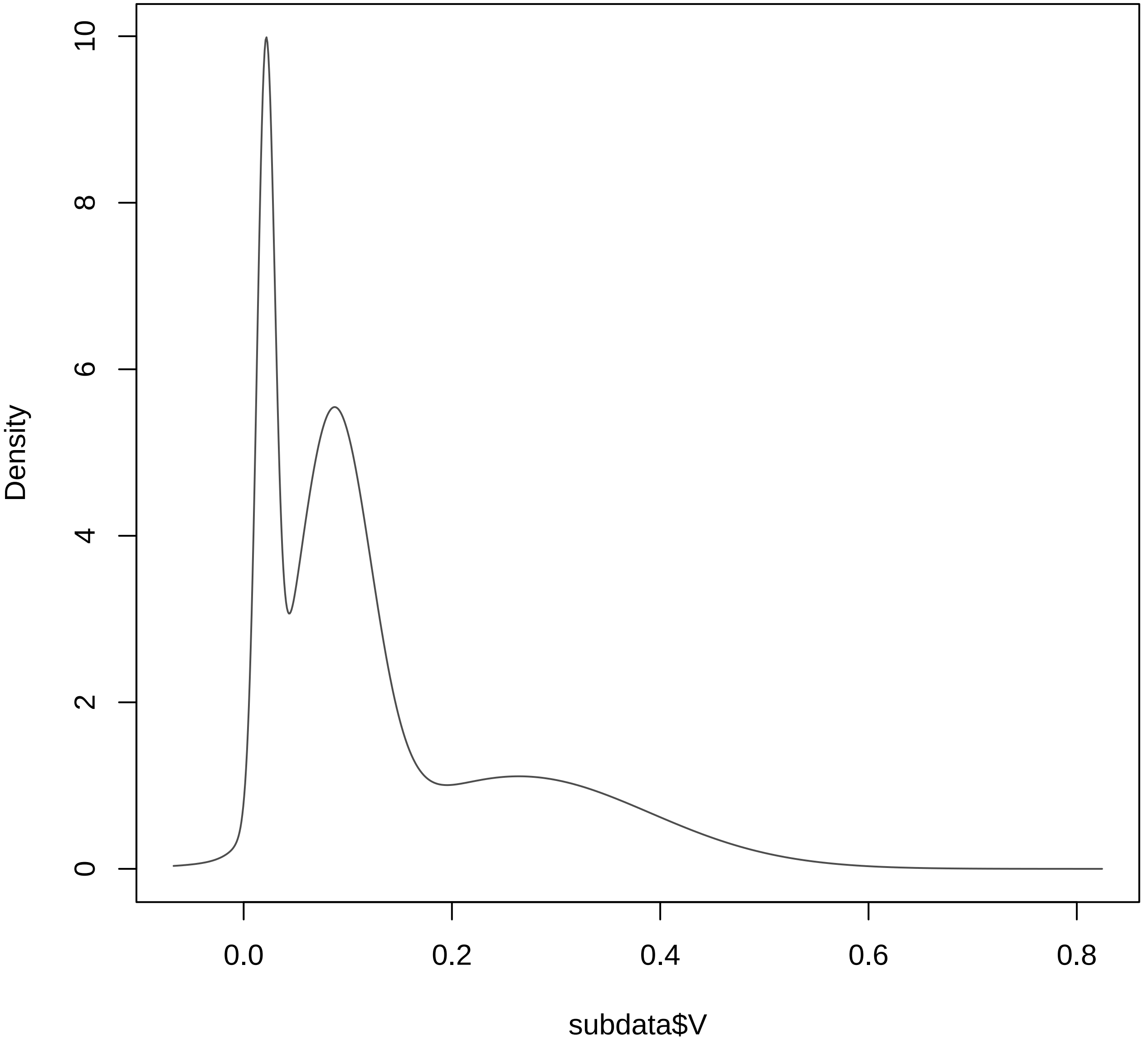

V974
Cumulative density
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
CCF
V974_BM_1 (0.145)
V974_BM_2 (0.164)
V974_BM_3 (0.109)
V974_BM_4 (0.161)
V974_BM_5 (0.139)
V974_P_1 (0.181)
V974_P_2 (0.197)
V974_P_3 (0.171)

help("ccfAUC")

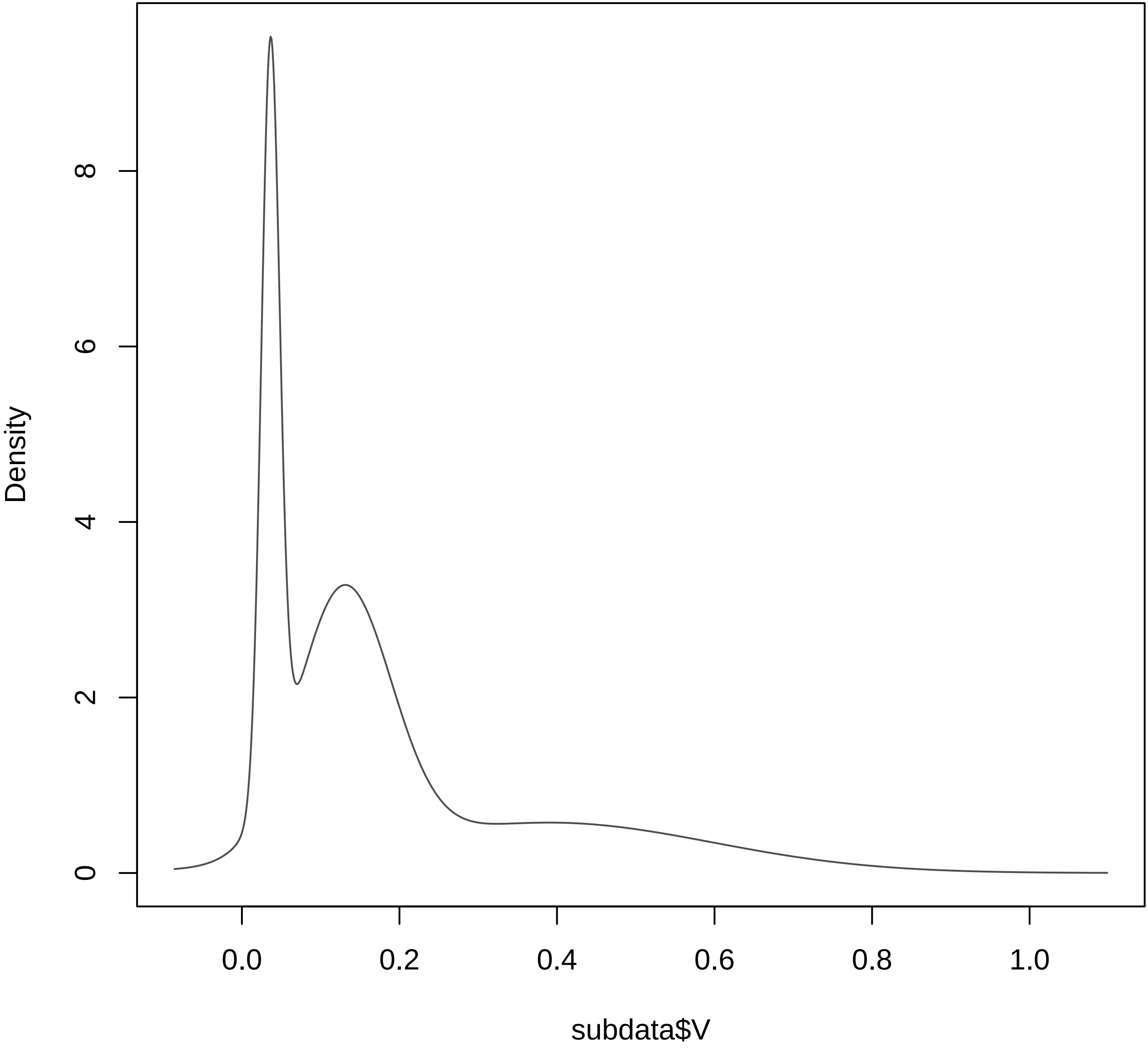

tree1: V402−NJ
tree2: V402−MP
V402_P_1
V402_P_2
V402_BM_2
V402_BM_3
V402_P_4
V402_BM_4
V402_P_3
V402_BM_1
NORMAL
● Clades absent in tree2
V402_P_1
V402_P_2
V402_BM_3
V402_BM_4
V402_P_4
V402_BM_1
V402_BM_2
V402_P_3
NORMAL
● Clades absent in tree1
help("compareTree")



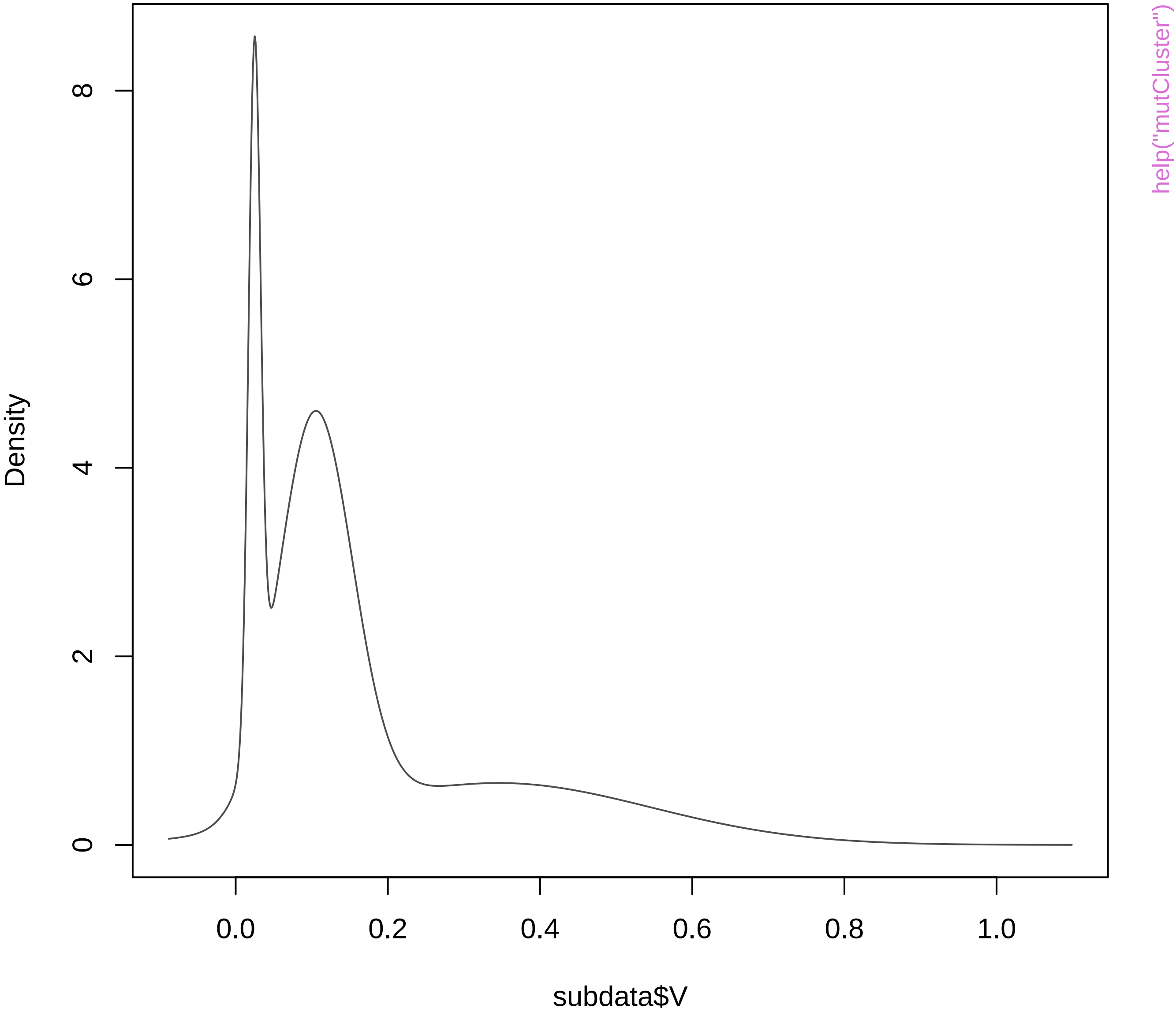
help("mutCluster")

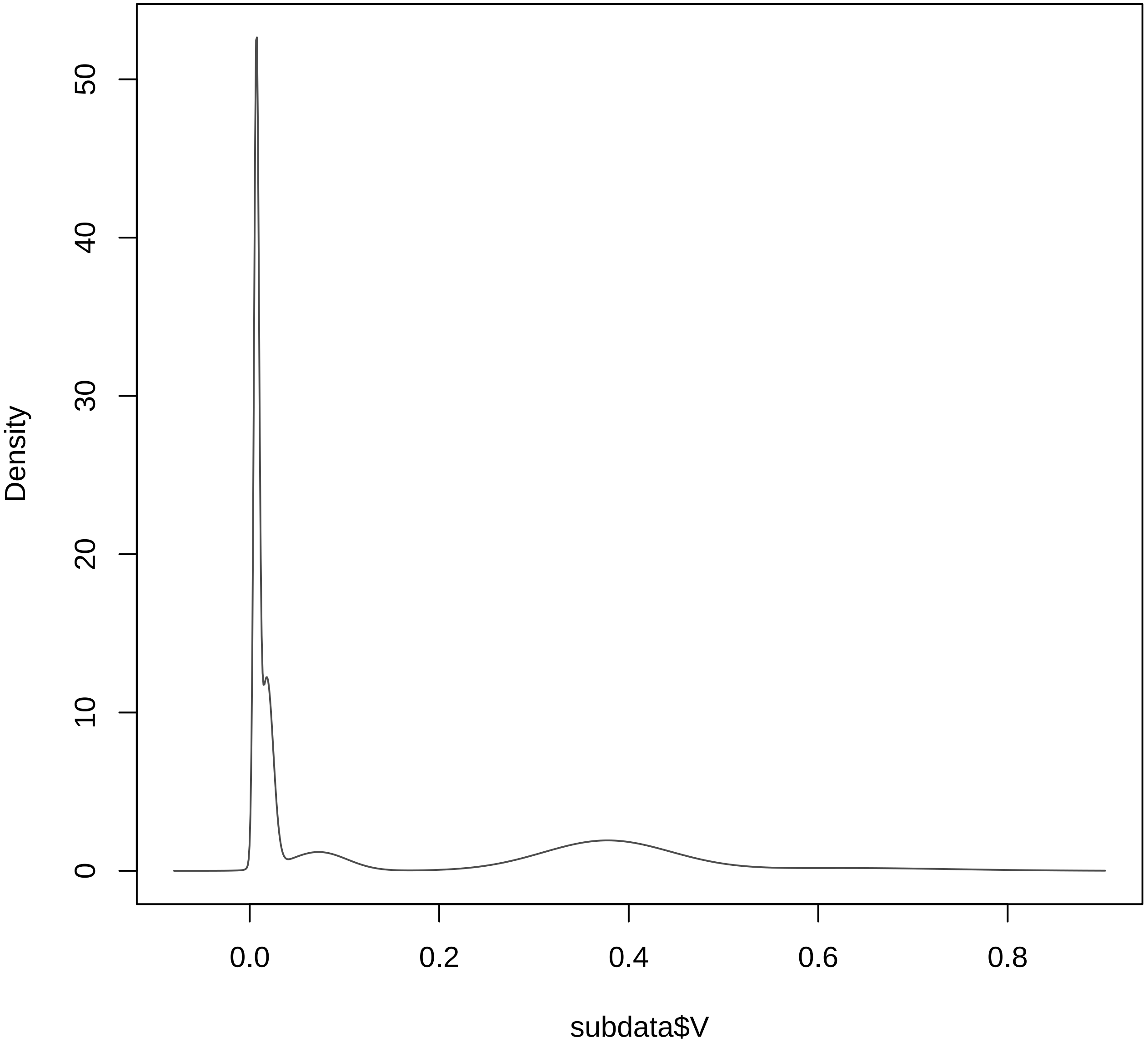


help("mutCluster")

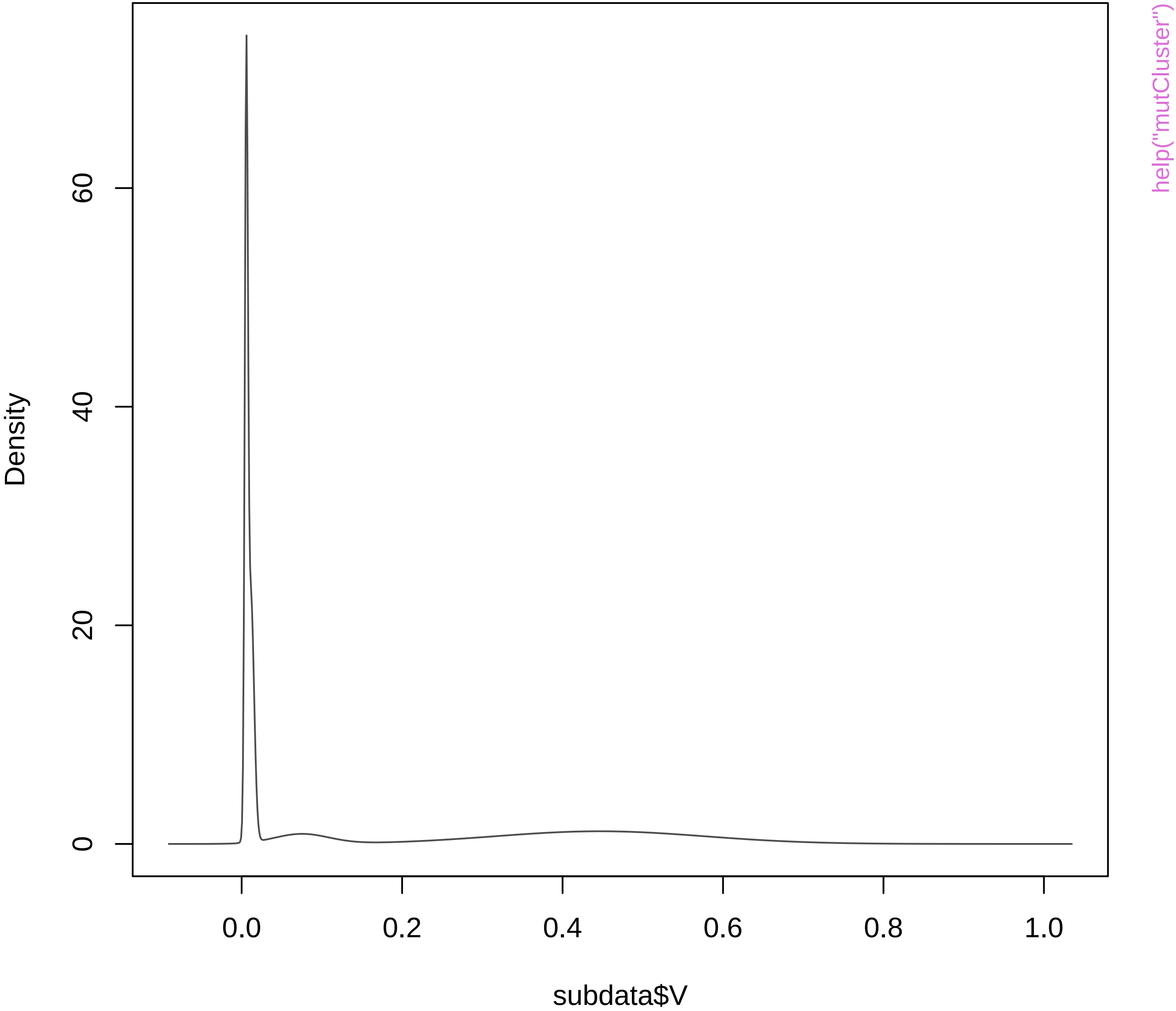


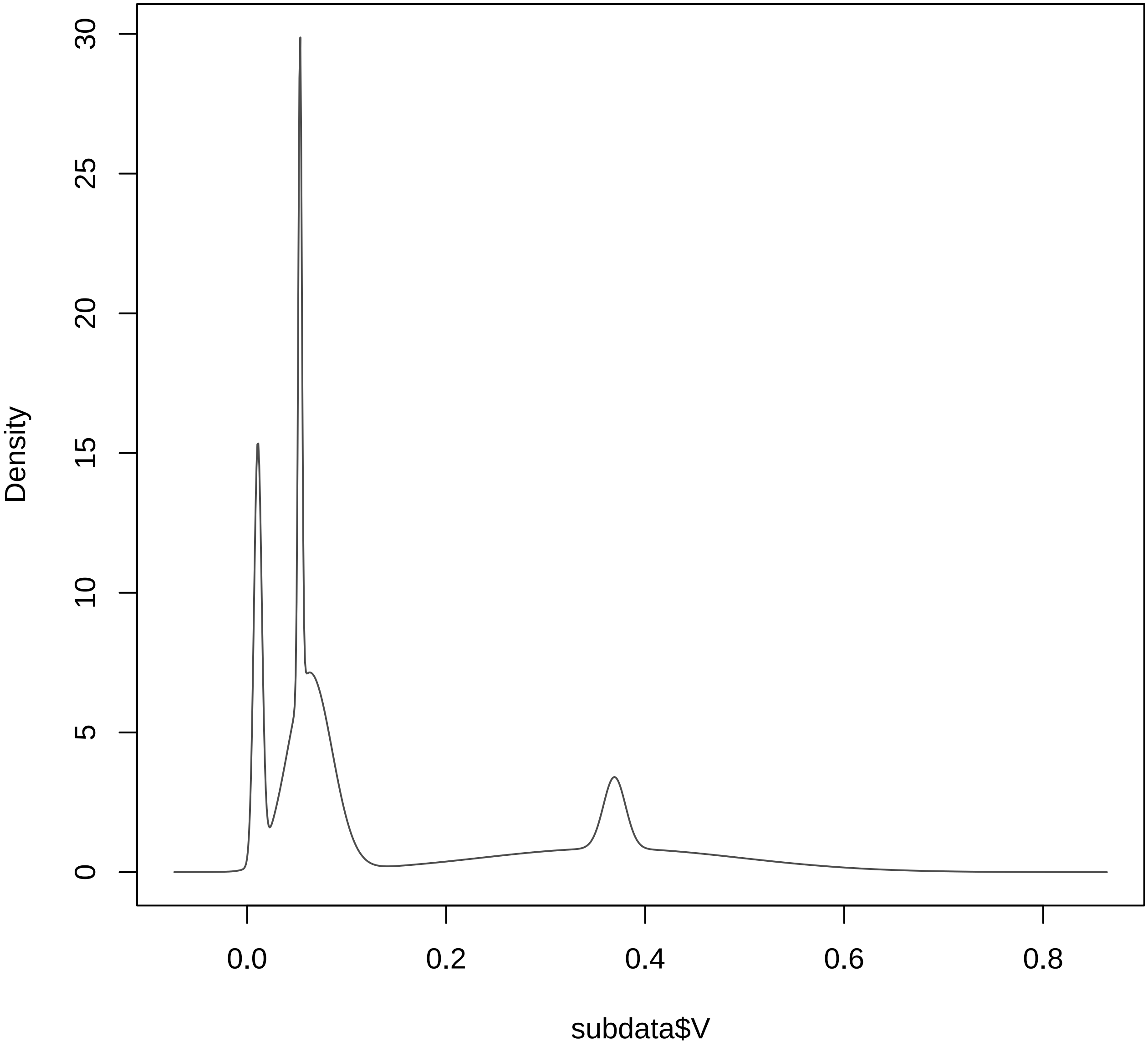
help("mutCluster")


Density
0
2
4
6
8
0.0
0.2
0.4
0.6
0.8
1.0
subdata$V
help("mutCluster")

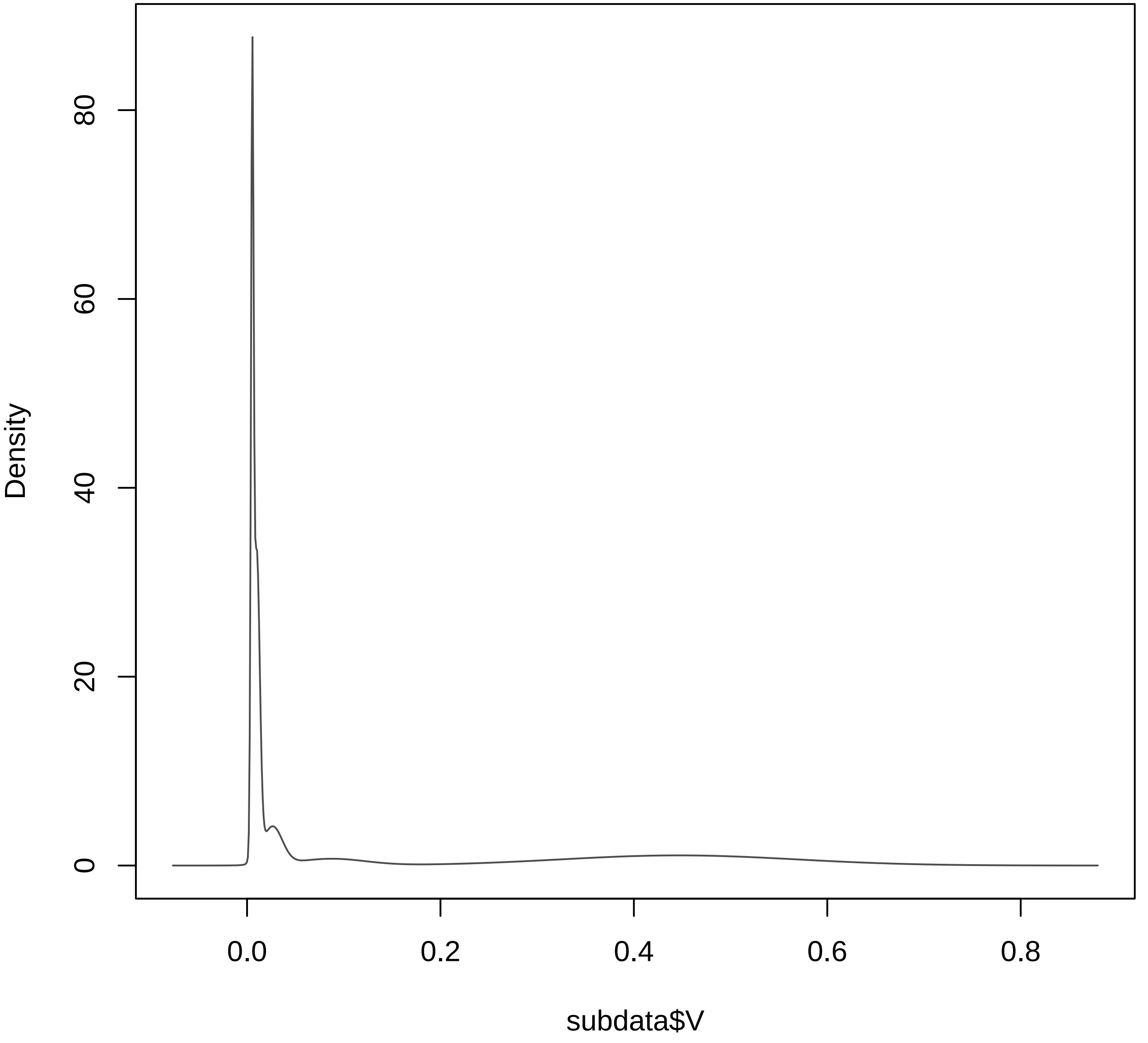


help("mutCluster")

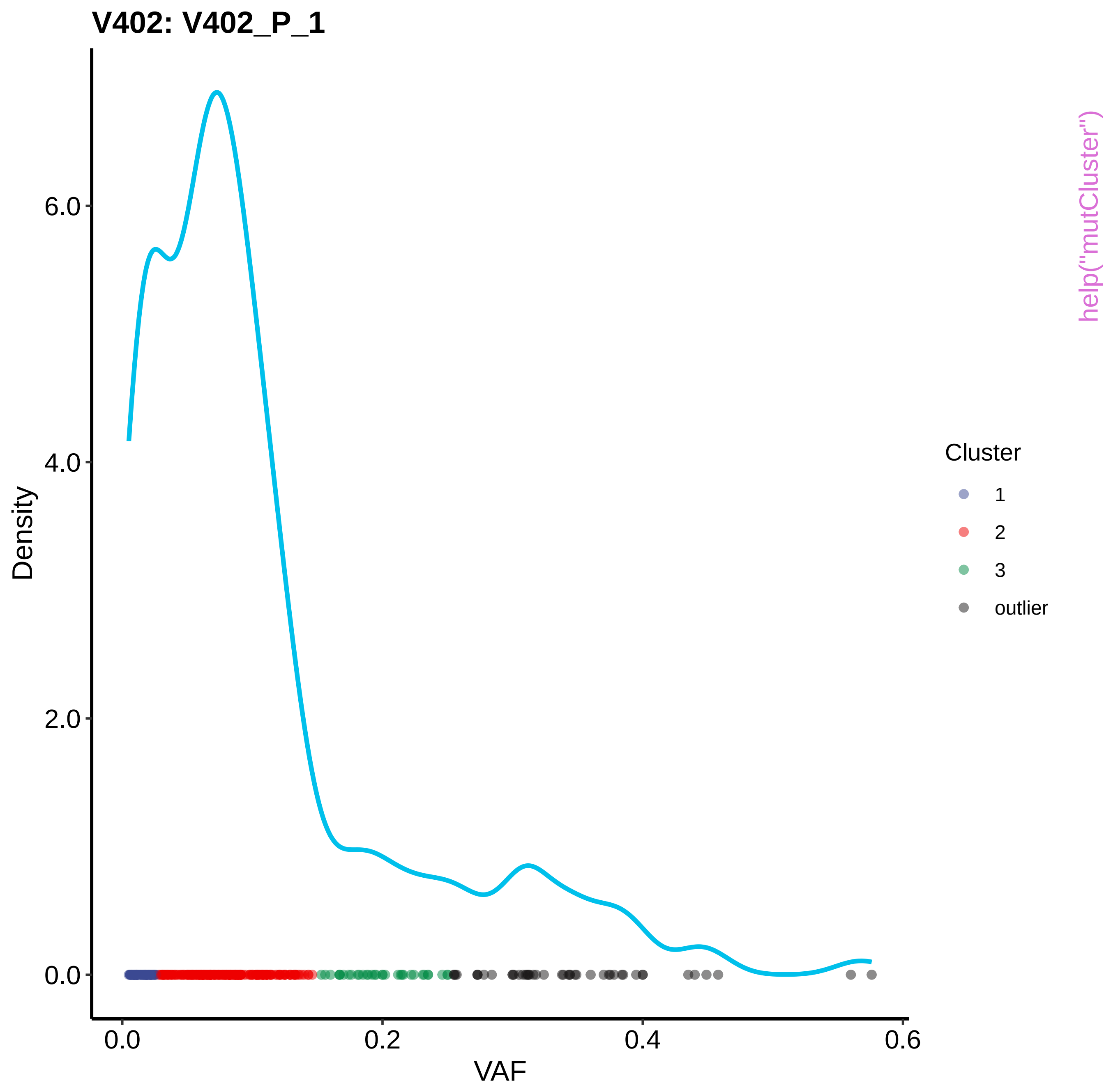

Density
0
20
40
60
0.0
0.2
0.4
0.6
0.8
1.0
subdata$V
help("mutCluster")

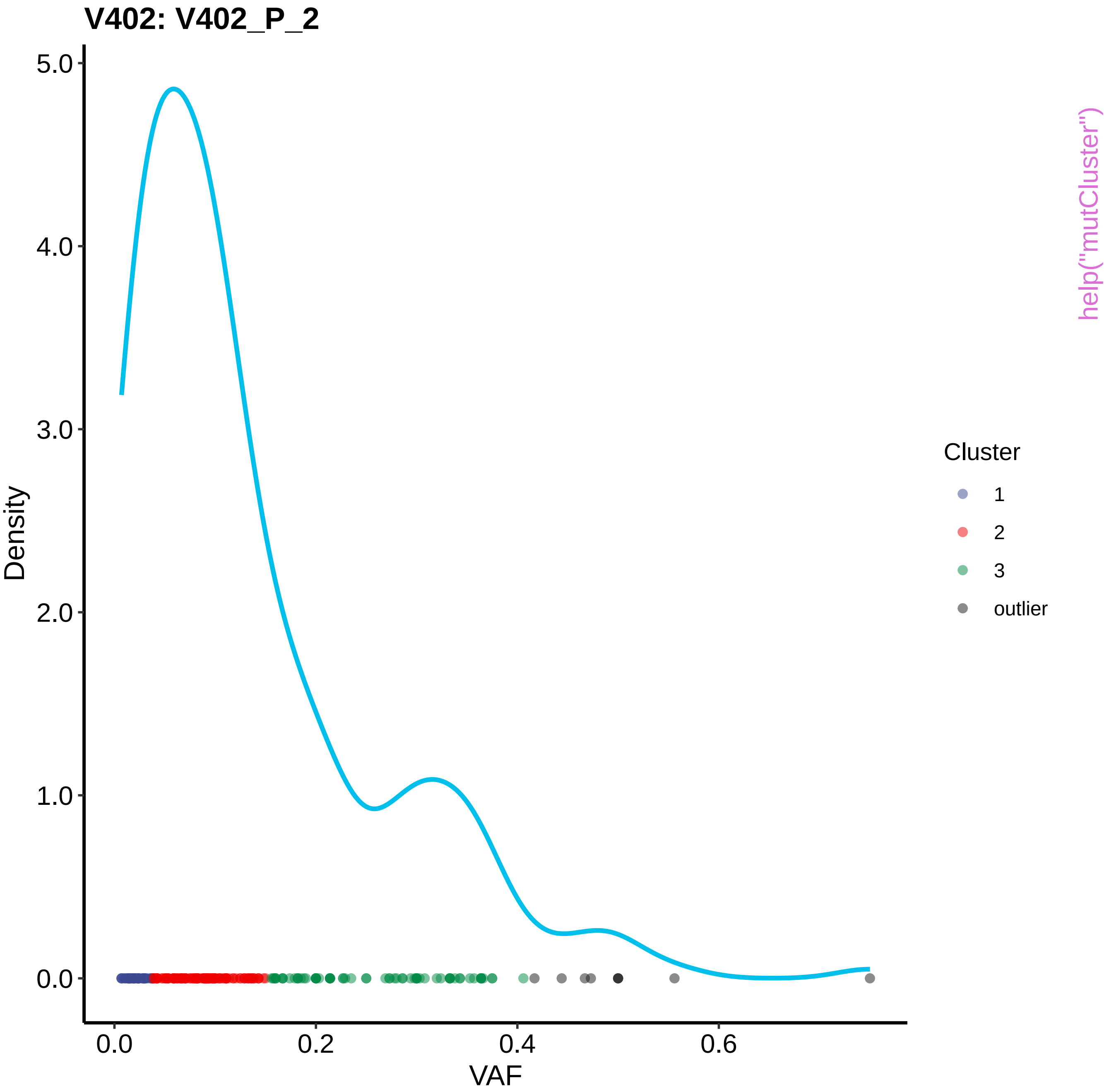


help("mutCluster")

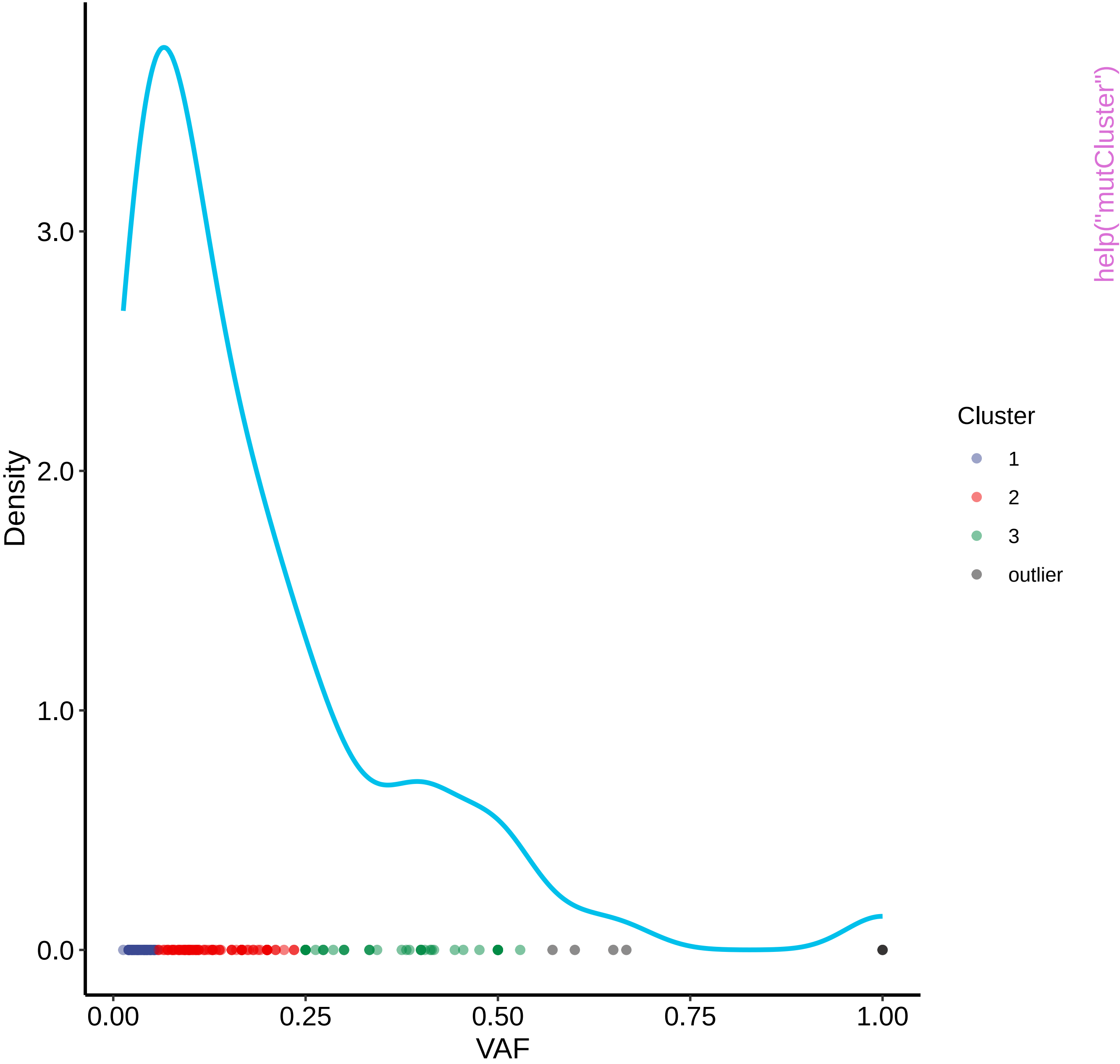


help("mutCluster")


V402: V402_P_1
Density
6.0
4.0
2.0
0.0
0.0
0.2
0.4
0.6
VAF
Cluster
1
2
3
outlier
help("mutCluster")

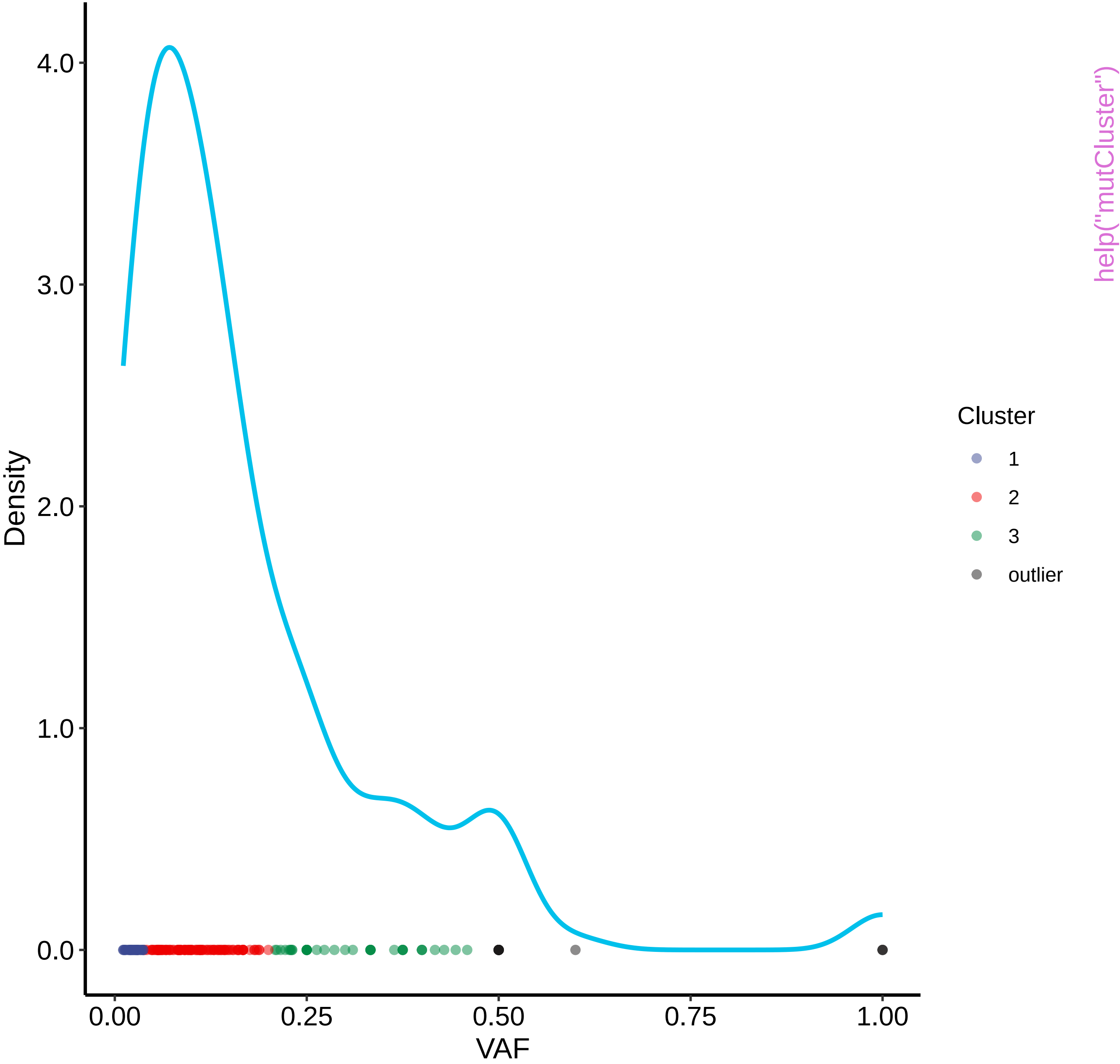

V402: V402_P_2
Density
5.0
4.0
3.0
2.0
1.0
0.0
0.0
0.2
0.4
0.6
VAF
Cluster
1
2
3
outlier
help("mutCluster")

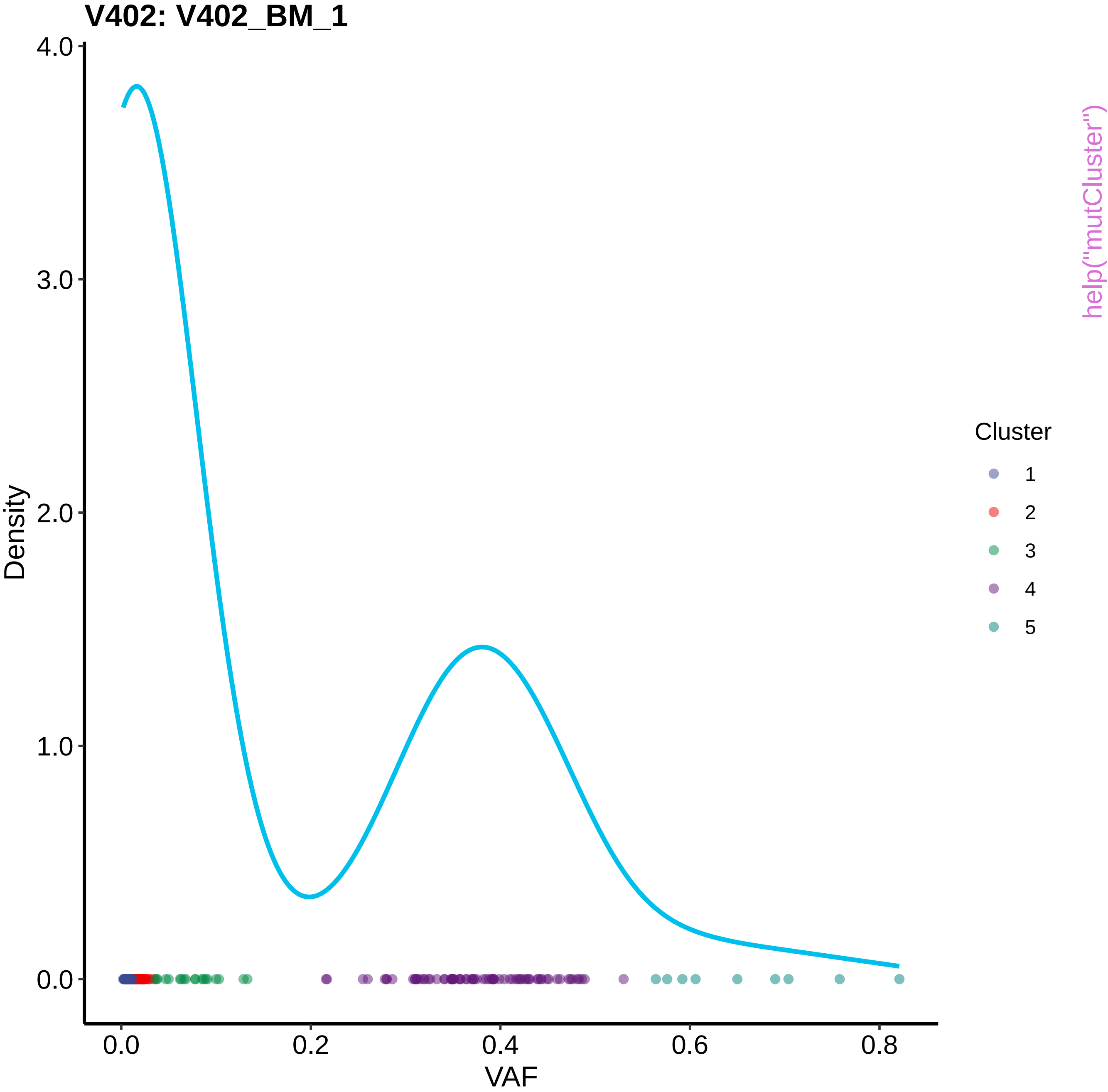
V402: V402_P_3



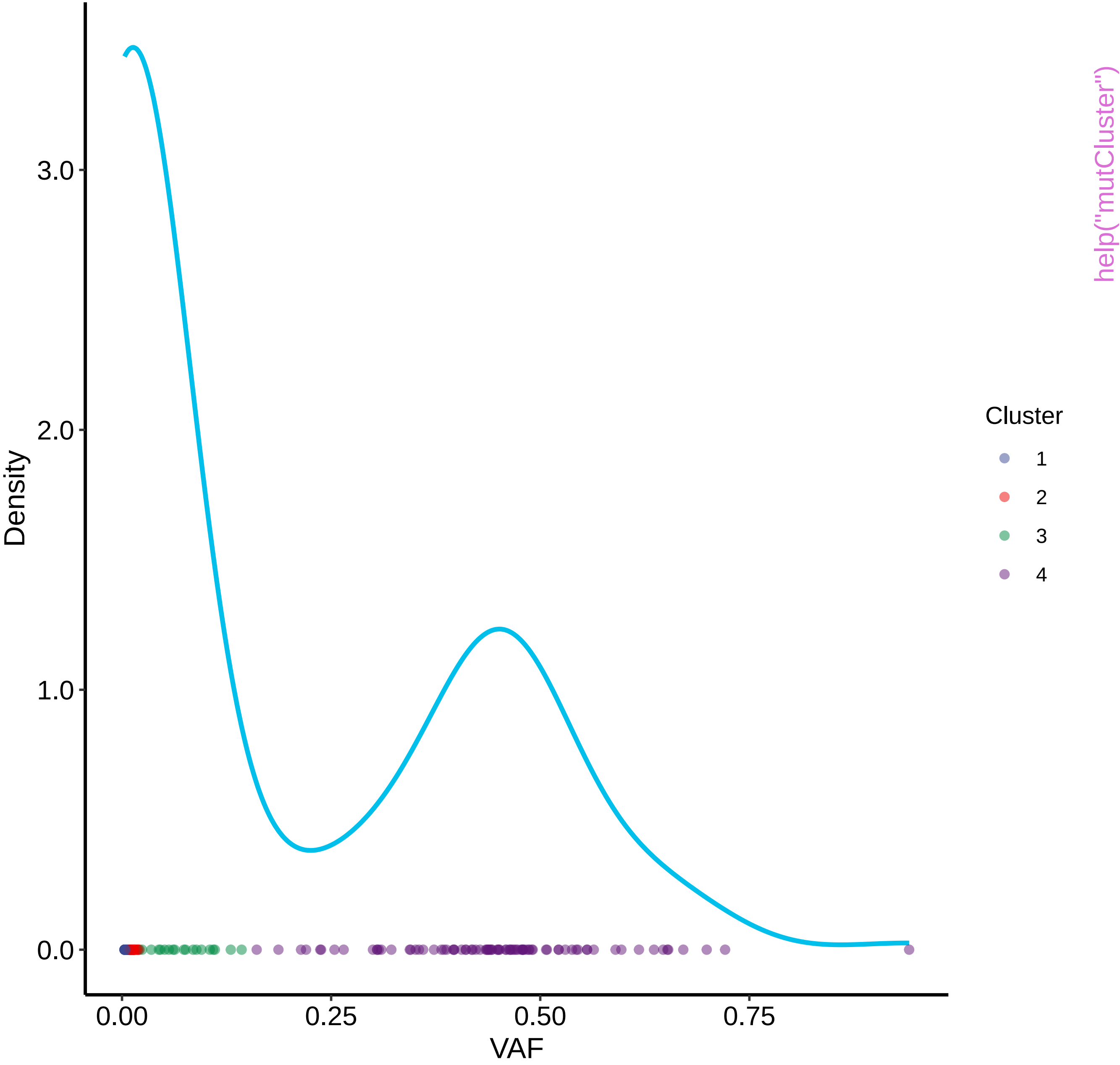
Density
3.0
2.0
1.0
0.0
0.00
0.25
0.50
0.75
1.00
VAF
Cluster
1
2
3
outlier
help("mutCluster")

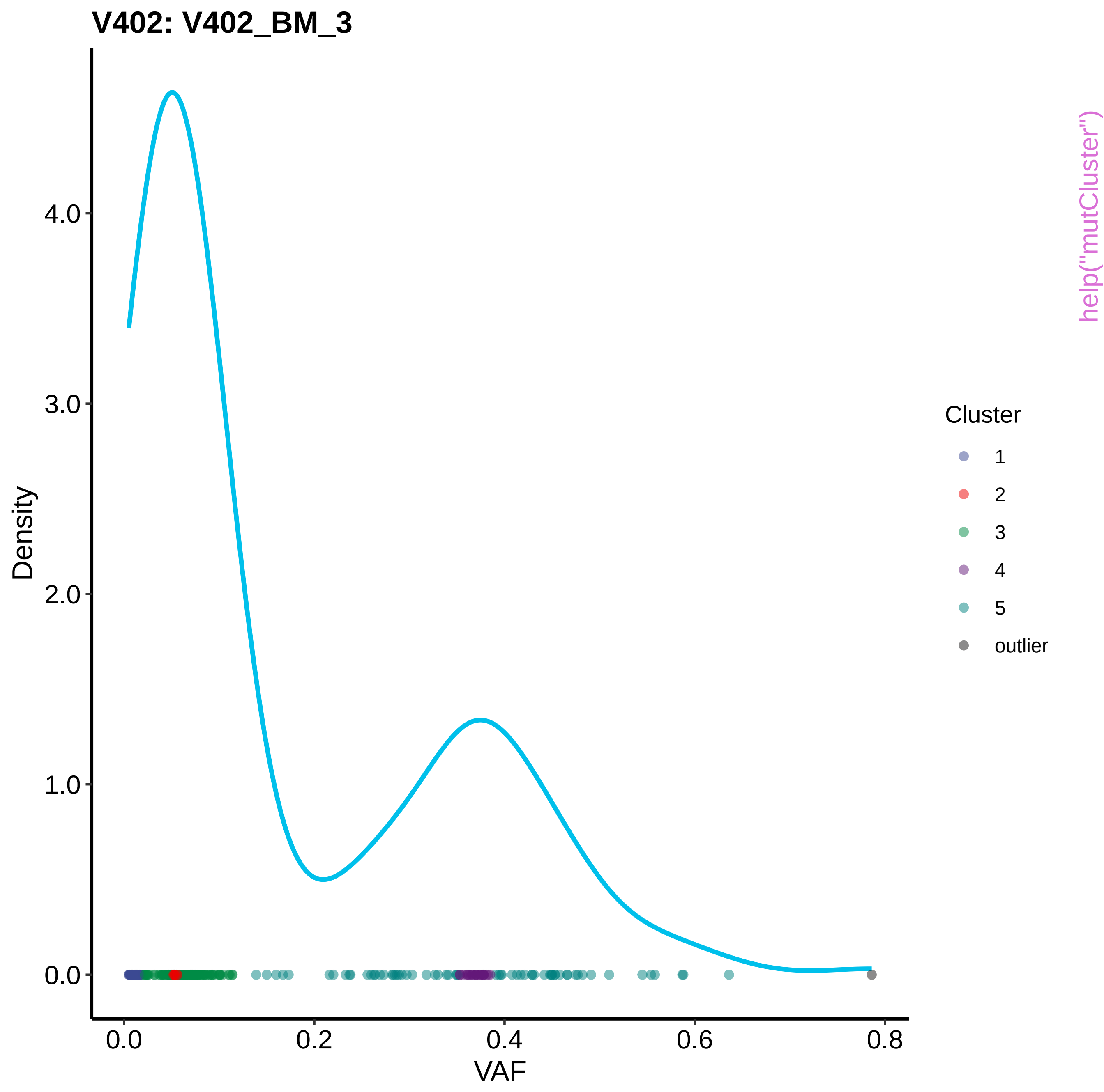
V402: V402_P_4

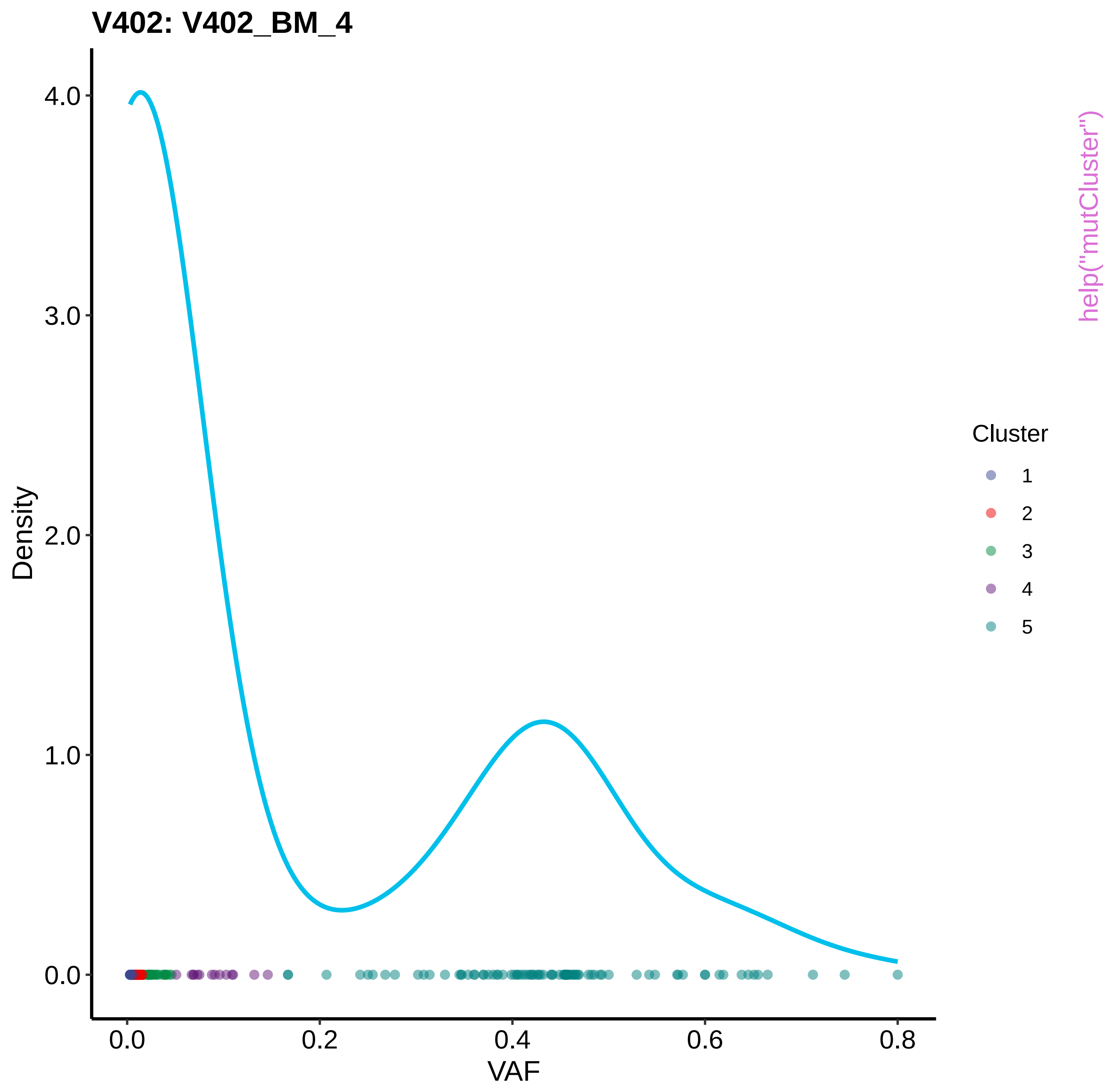

4.0
3.0
2.0
1.0
0.0
Density
0.00
0.25
0.50
0.75
1.00
VAF
Cluster
1
2
3
outlier
help("mutCluster")

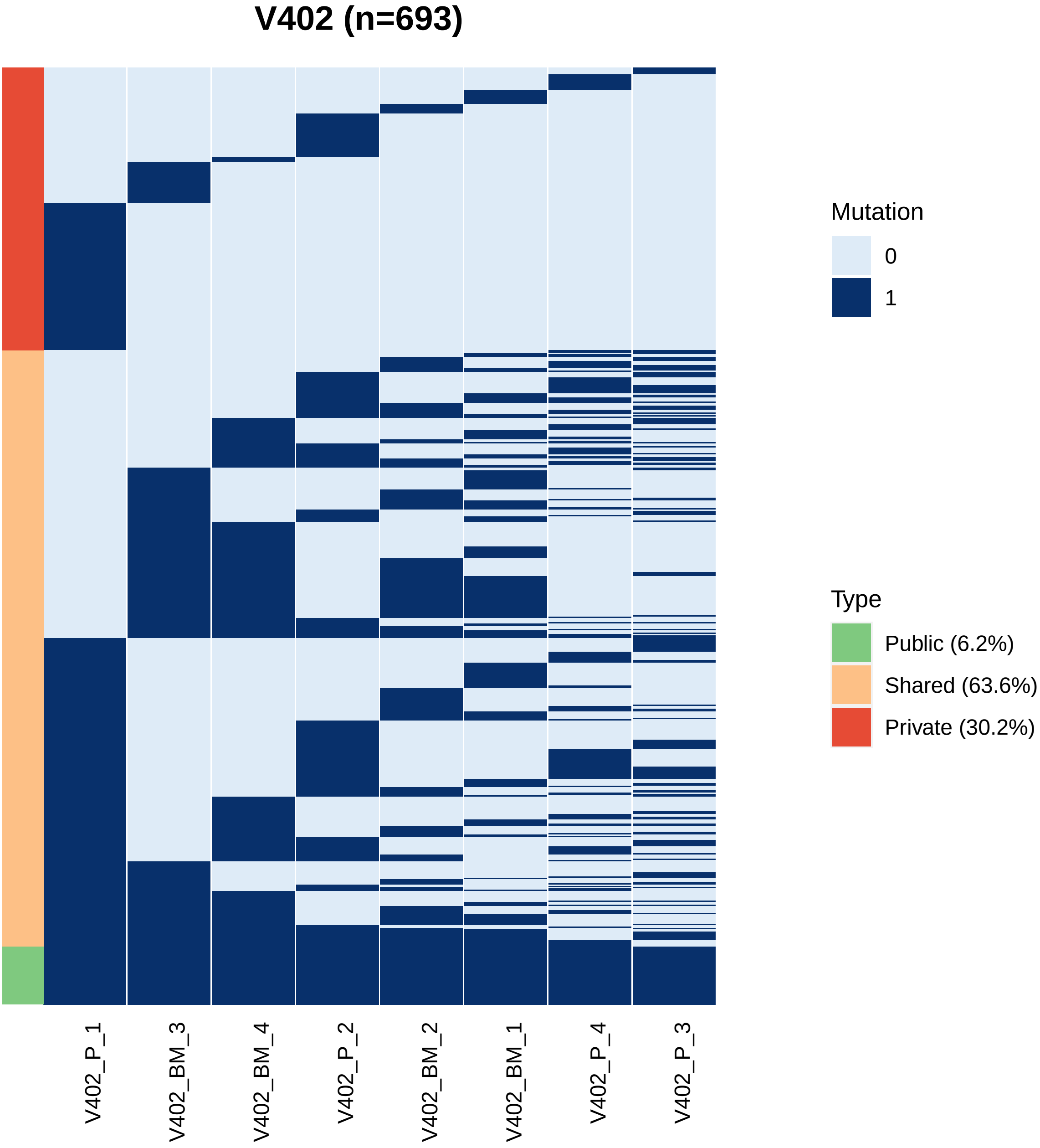

V402: V402_BM_1
Density
4.0
3.0
2.0
1.0
0.0
0.0
0.2
0.4
0.6
0.8
VAF
Cluster
1
2
3
4
5
help("mutCluster")

V402: V402_BM_2

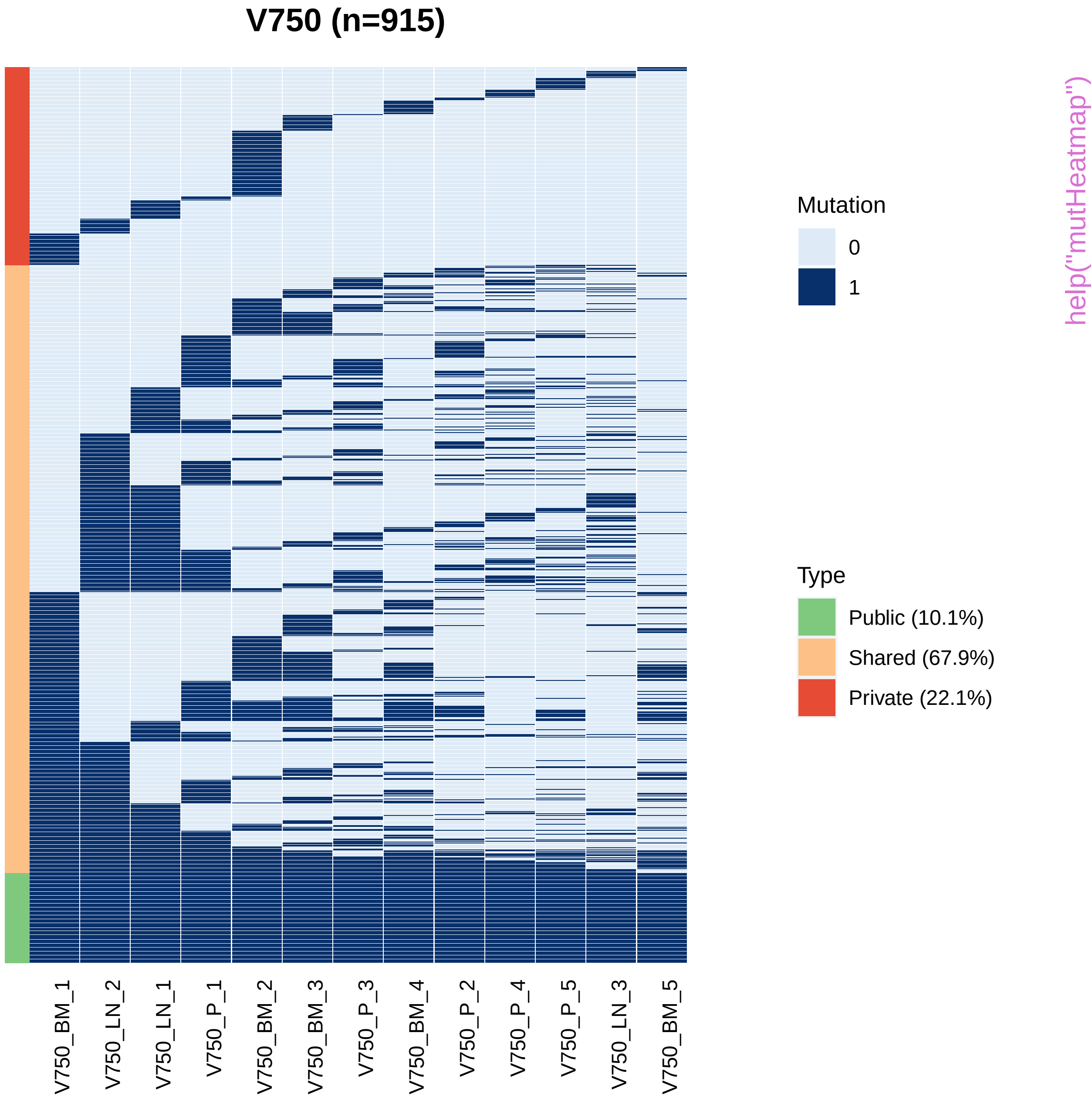


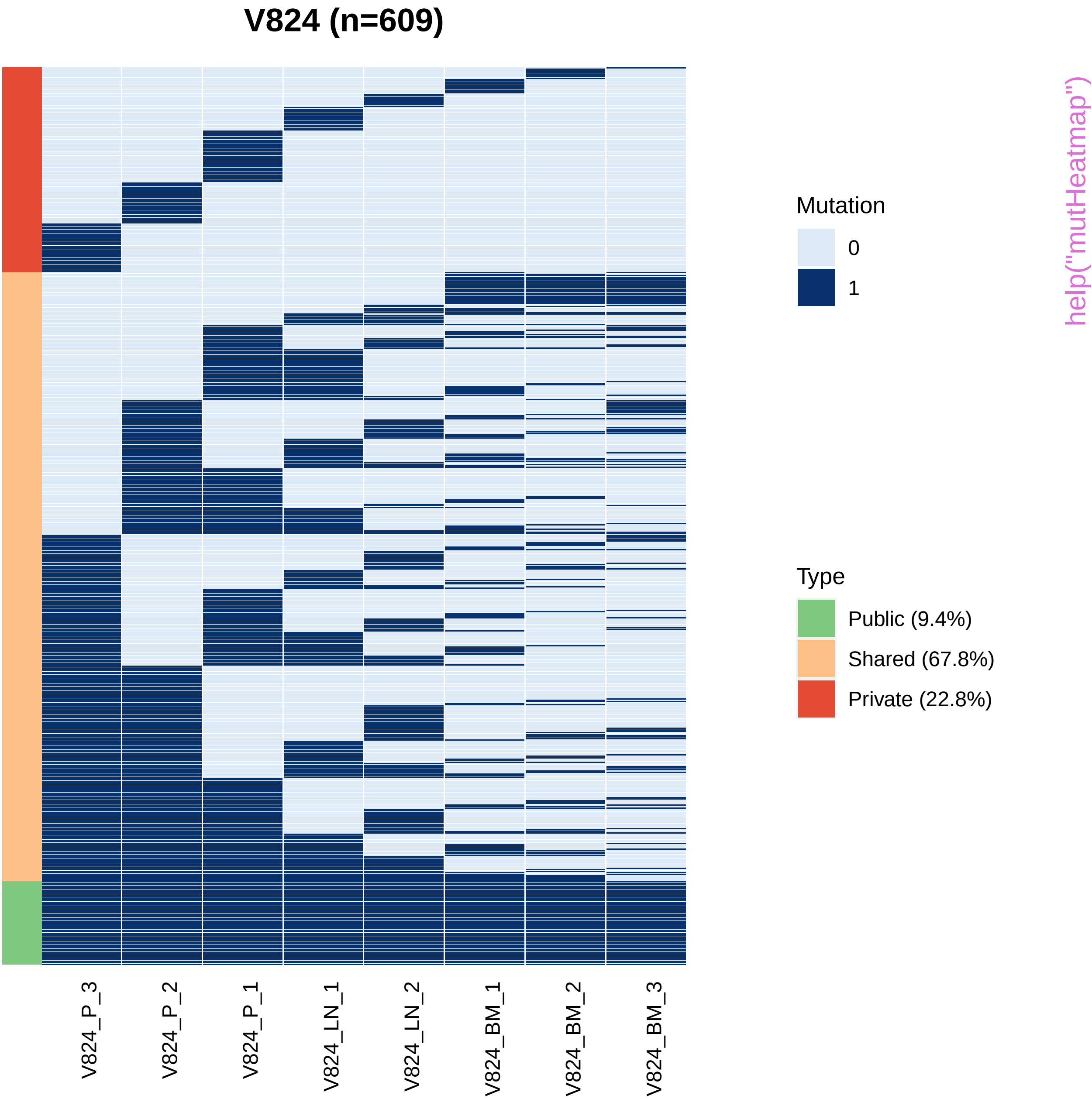

V402: V402_BM_3
Density
4.0
3.0
2.0
1.0
0.0
0.0
0.2
0.4
0.6
0.8
VAF
Cluster
1
2
3
4
5
outlier
help("mutCluster")


V402: V402_BM_4
Density
4.0
3.0
2.0
1.0
0.0
VAF
0.0
0.2
0.4
0.6
0.8
Cluster
1
2
3
4
5
help("mutCluster")

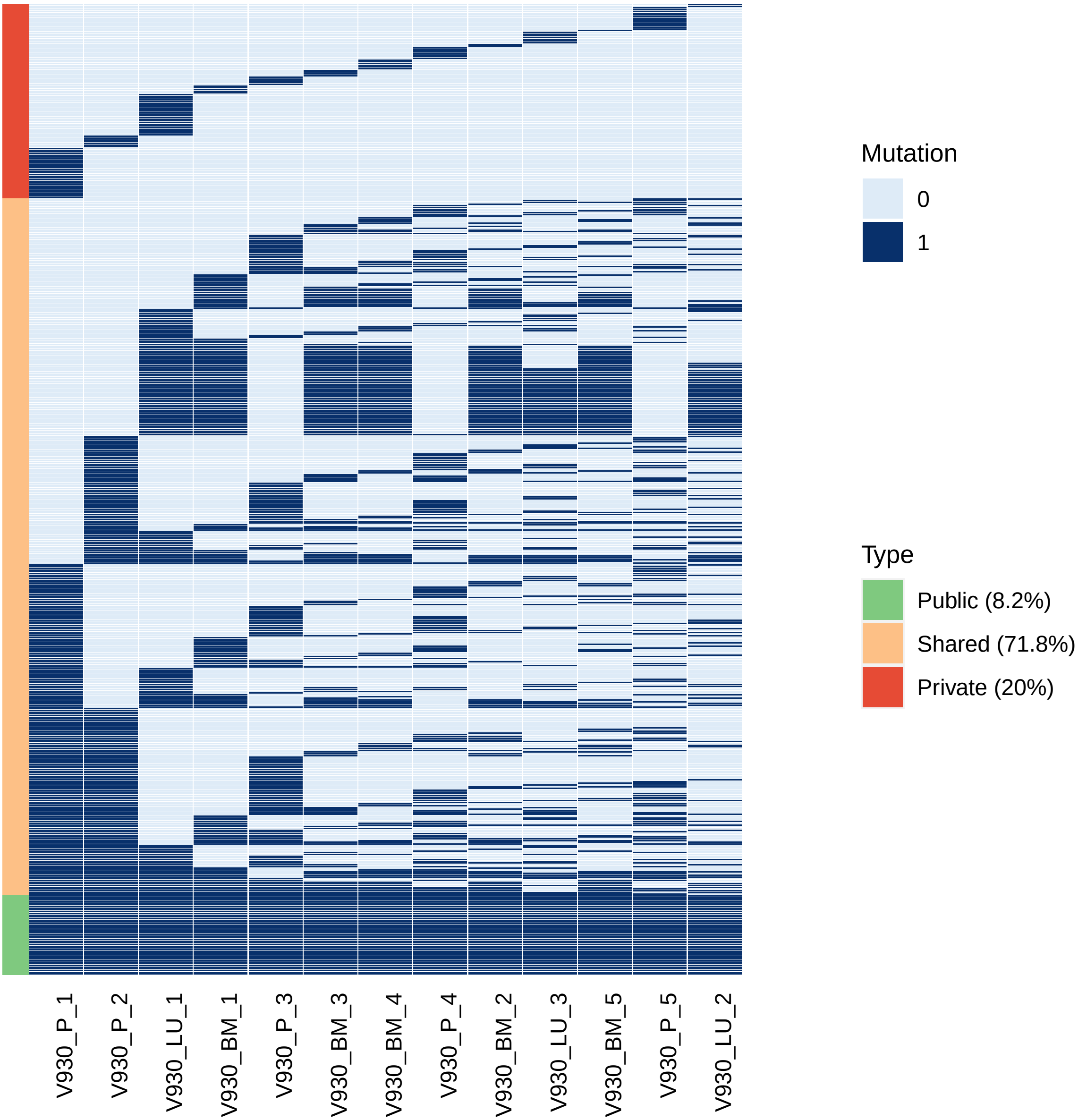


help("mutHeatmap")

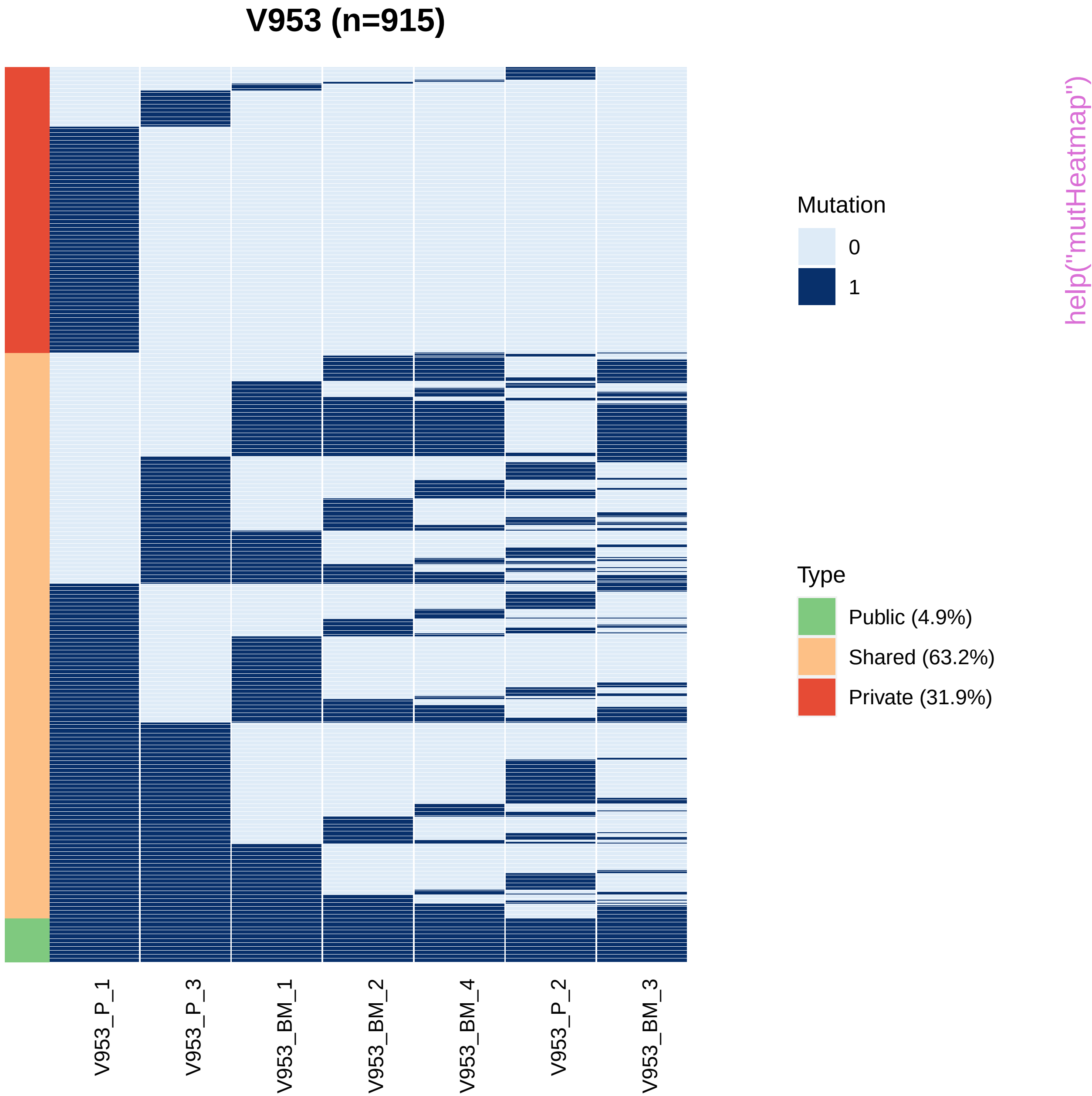

V750 (n=915)
Mutation
0
1
Type
Public (10.1%)
Shared (67.9%)
Private (22.1%)
help("mutHeatmap")
V750_BM_1
V750_LN_2
V750_LN_1
V750_P_1
V750_BM_2
V750_BM_3
V750_P_3
V750_BM_4
V750_P_2
V750_P_4
V750_P_5
V750_LN_3
V750_BM_5


V824 (n=609)
Mutation
0
1
Type
Public (9.4%)
Shared (67.8%)
Private (22.8%)
V824_P_3
V824_P_2
V824_P_1
V824_LN_1
V824_LN_2
V824_BM_1
V824_BM_2
V824_BM_3
help("mutHeatmap")

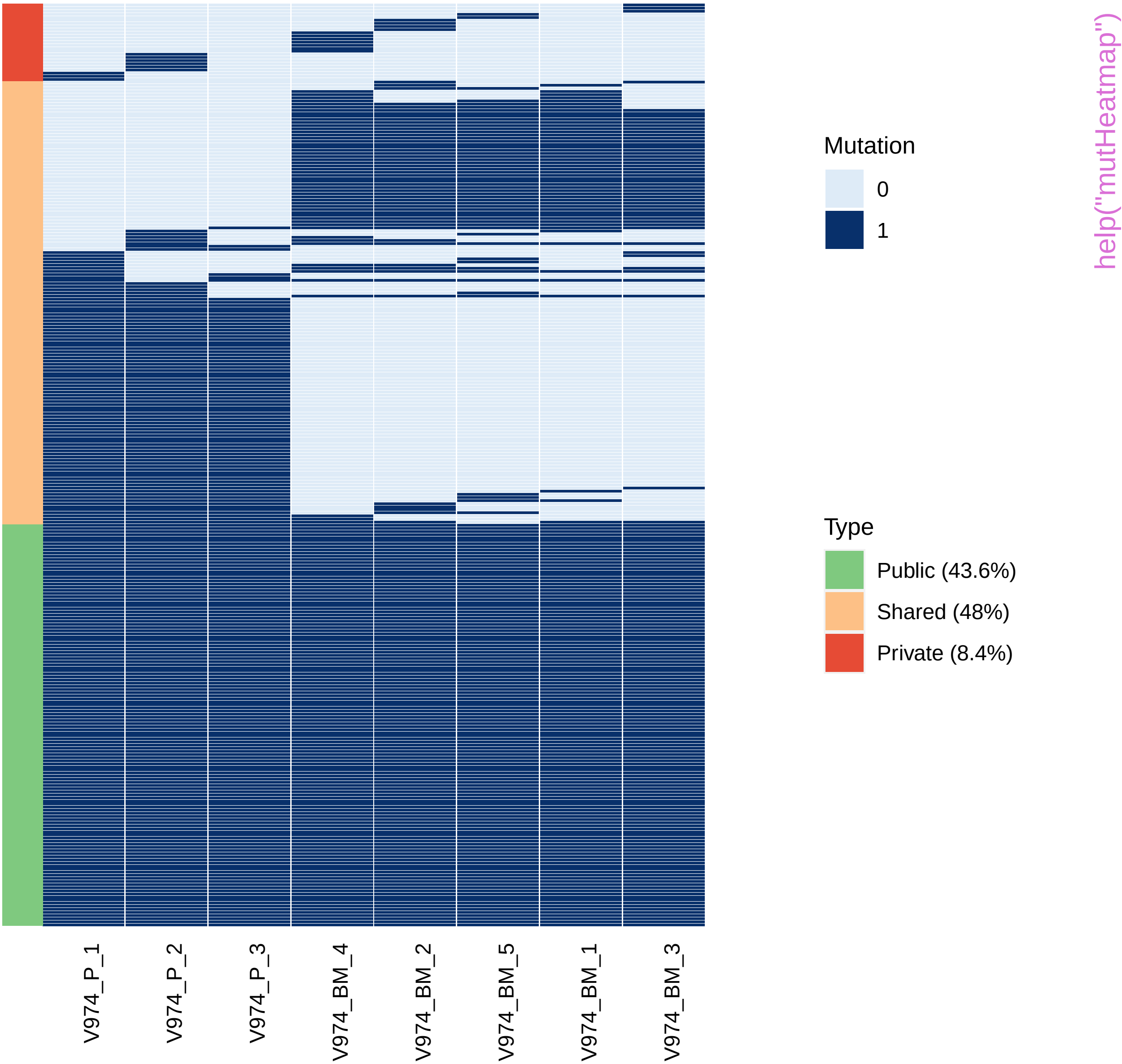
V930 (n=560)



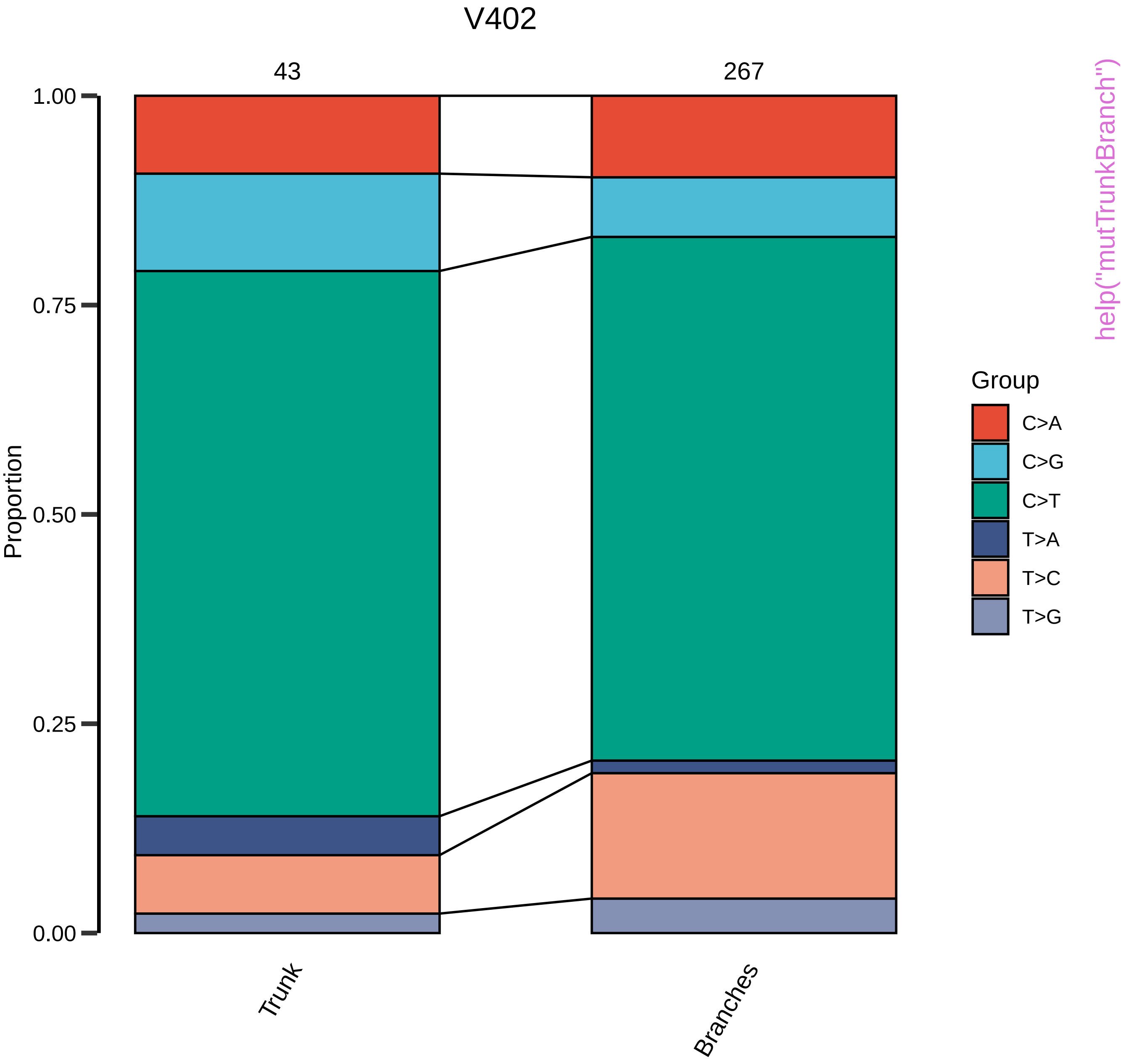
help("mutHeatmap")

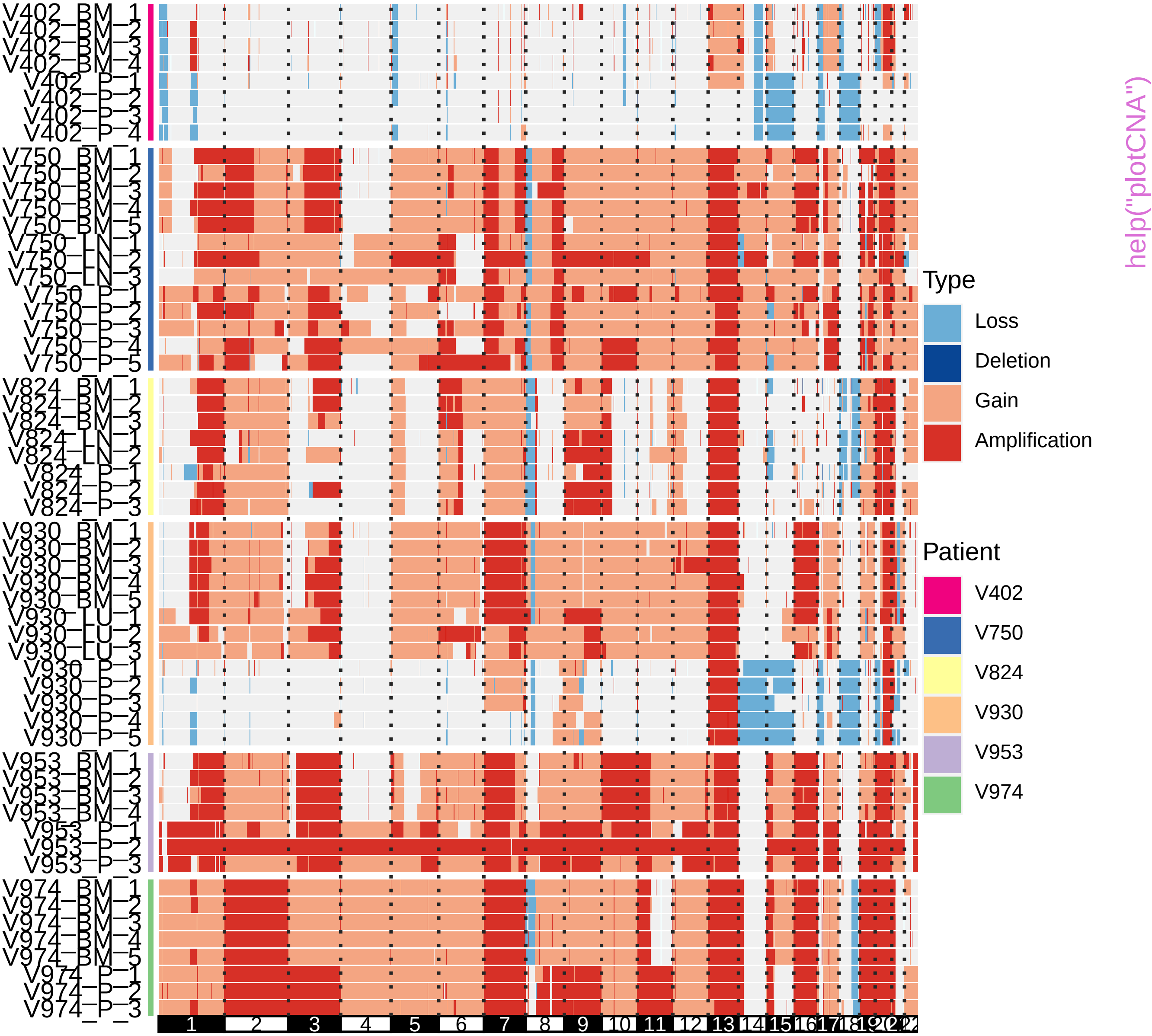

V953 (n=915)
Mutation
0
1
Type
Public (4.9%)
Shared (63.2%)
Private (31.9%)
V953_P_1
V953_P_3
V953_BM_1
V953_BM_2
V953_BM_4
V953_P_2
V953_BM_3
help("mutHeatmap")

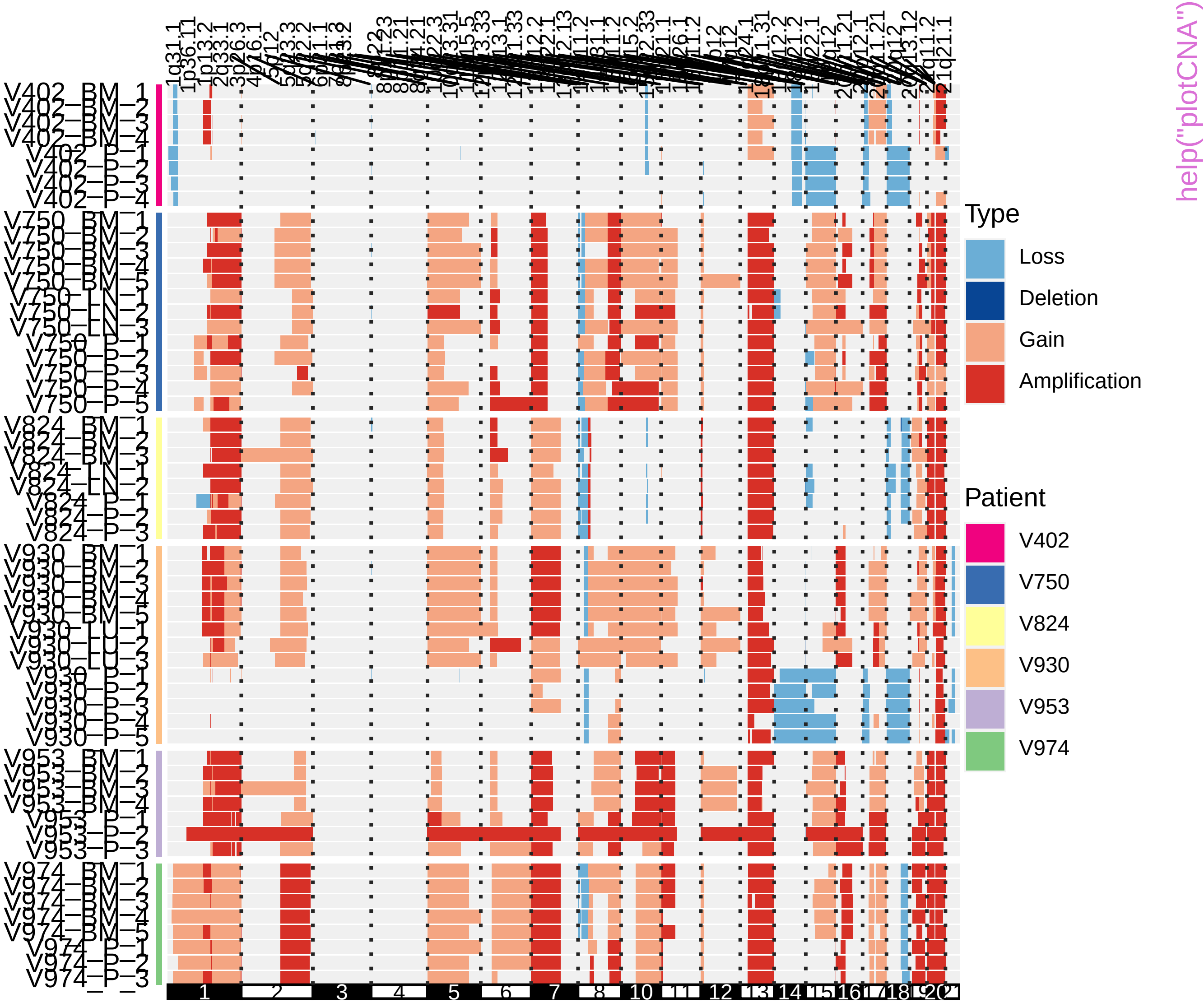
V974 (n=298)

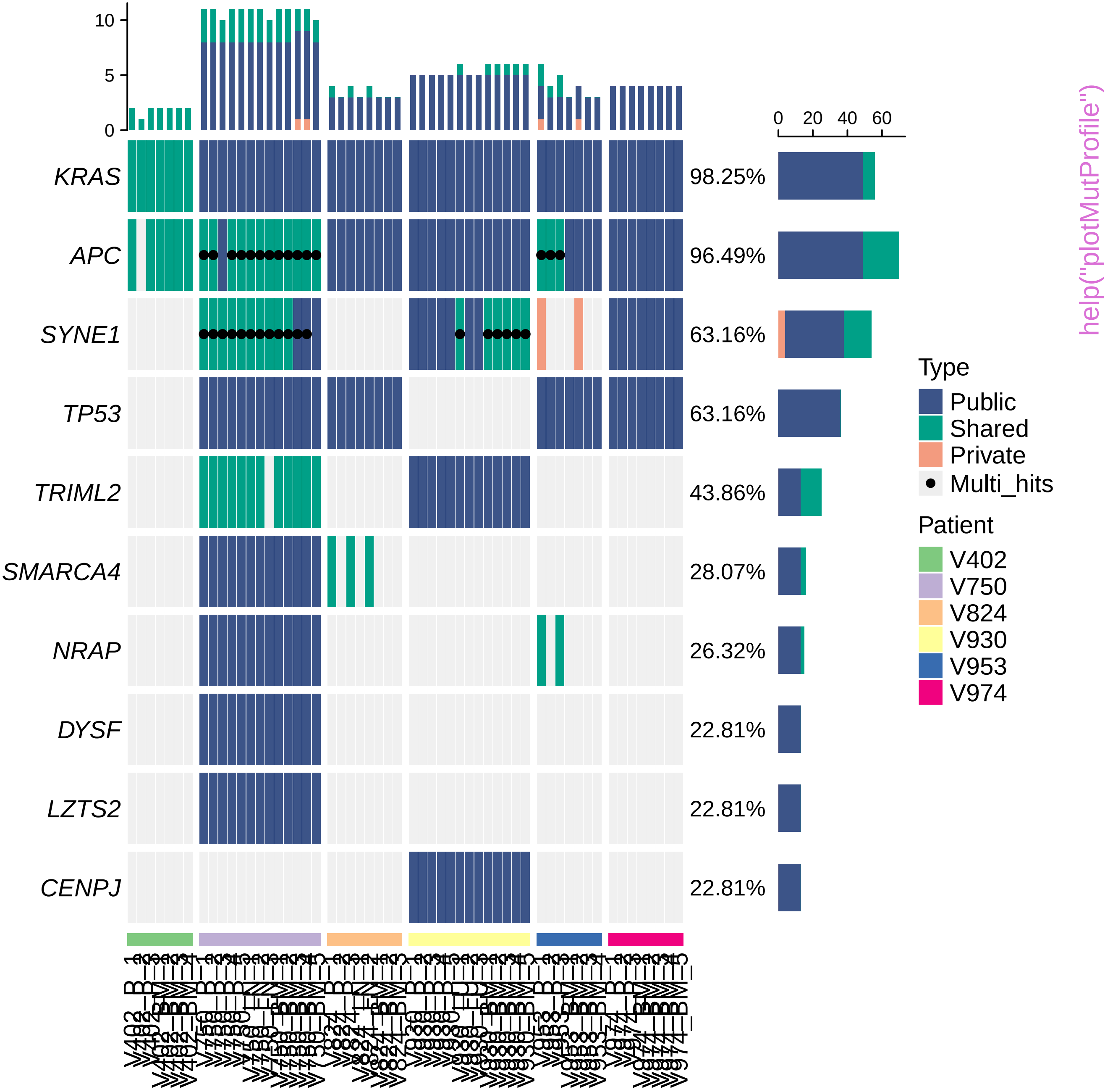


V974_P_1
V974_P_2
V974_P_3
V974_BM_4
V974_BM_2
V974_BM_5
V974_BM_1
V974_BM_3
Mutation
0
1
Type
Public (43.6%)
Shared (48%)
Private (8.4%)
help("mutHeatmap")


V402
43
267
1.00
0.75
0.50
0.25
0.00
Proportion
Trunk
Branches
Group
C>A
C>G
C>T
T>A
T>C
T>G
help("mutTrunkBranch")

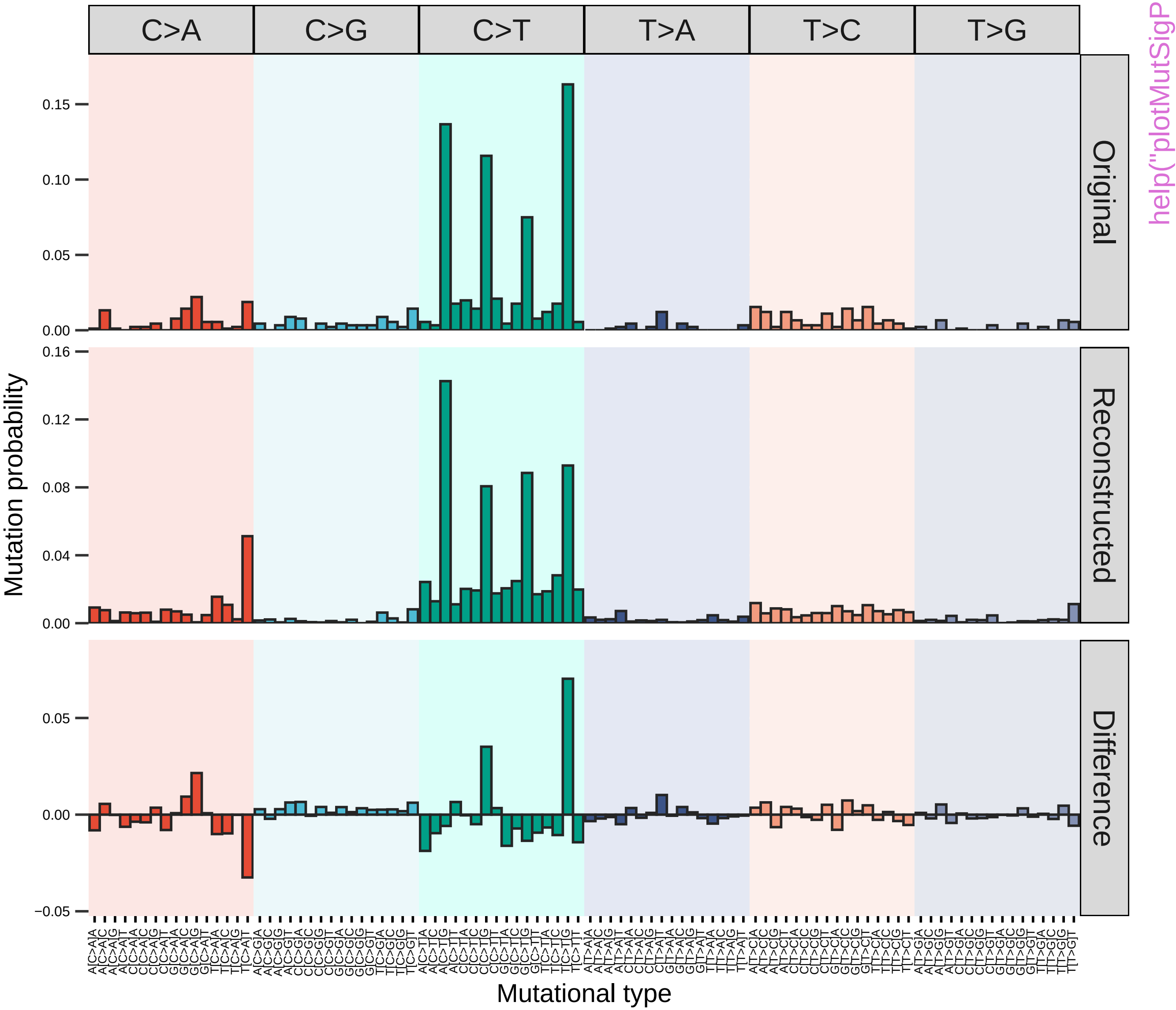

V402_BM_1
V402_BM_2
V402_BM_3
V402_BM_4
V402_P_1
V402_P_2
V402_P_3
V402_P_4
V750_BM_1
V750_BM_2
V750_BM_3
V750_BM_4
V750_BM_5
V750_LN_1
V750_LN_2
V750_LN_3
V750_P_1
V750_P_2
V750_P_3
V750_P_4
V750_P_5
V824_BM_1
V824_BM_2
V824_BM_3
V824_LN_1
V824_LN_2
V824_P_1
V824_P_2
V824_P_3
V930_BM_1
V930_BM_2
V930_BM_3
V930_BM_4
V930_BM_5
V930_LU_1
V930_LU_2
V930_LU_3
V930_P_1
V930_P_2
V930_P_3
V930_P_4
V930_P_5
V953_BM_1
V953_BM_2
V953_BM_3
V953_BM_4
V953_P_1
V953_P_2
V953_P_3
V974_BM_1
V974_BM_2
V974_BM_3
V974_BM_4
V974_BM_5
V974_P_1
V974_P_2
V974_P_3
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
Type
Loss
Deletion
Gain
Amplification
Patient
V402
V750
V824
V930
V953
V974
help("plotCNA")


help("plotCNA")
1q31.1
1p36.11
1p13.2
2q33.1
3p26.3
4p16.1
5q12
5q23.3
V402_BM_1
V402_BM_2
V402_BM_3
V402_BM_4
V402_P_1
V402_P_2
V402_P_3
V402_P_4
V750_BM_1
V750_BM_2
V750_BM_3
V750_BM_4
V750_BM_5
V750_LN_1
V750_LN_2
V750_LN_3
V750_P_1
V750_P_2
V750_P_3
V750_P_4
V750_P_5
V824_BM_1
V824_BM_2
V824_BM_3
V824_LN_1
V824_LN_2
V824_P_1
V824_P_2
V824_P_3
V930_BM_1
V930_BM_2
V930_BM_3
V930_BM_4
V930_BM_5
V930_LU_1
V930_LU_2
V930_LU_3
V930_P_1
V930_P_2
V930_P_3
V930_P_4
V930_P_5
V953_BM_1
V953_BM_2
V953_BM_3
V953_BM_4
V953_P_1
V953_P_2
V953_P_3
V974_BM_1
V974_BM_2
V974_BM_3
V974_BM_4
V974_BM_5
V974_P_1
V974_P_2
V974_P_3
1
2
3
4
5
6
7
8
10
11
12
13
14
15
16
17
18
19
20
21
Type
Loss
Deletion
Gain
Amplification
Patient
V402
V750
V824
V930
V953
V974


10
5
0
KRAS
APC
SYNE1
TP53
TRIML2
SMARCA4
NRAP
DYSF
LZTS2
CENPJ
98.25%
96.49%
63.16%
63.16%
43.86%
28.07%
26.32%
22.81%
22.81%
22.81%
0
20
40
60
Type
Public
Shared
Private
Multi_hits
Patient
V402
V750
V824
V930
V953
V974
help("plotMutProfile")

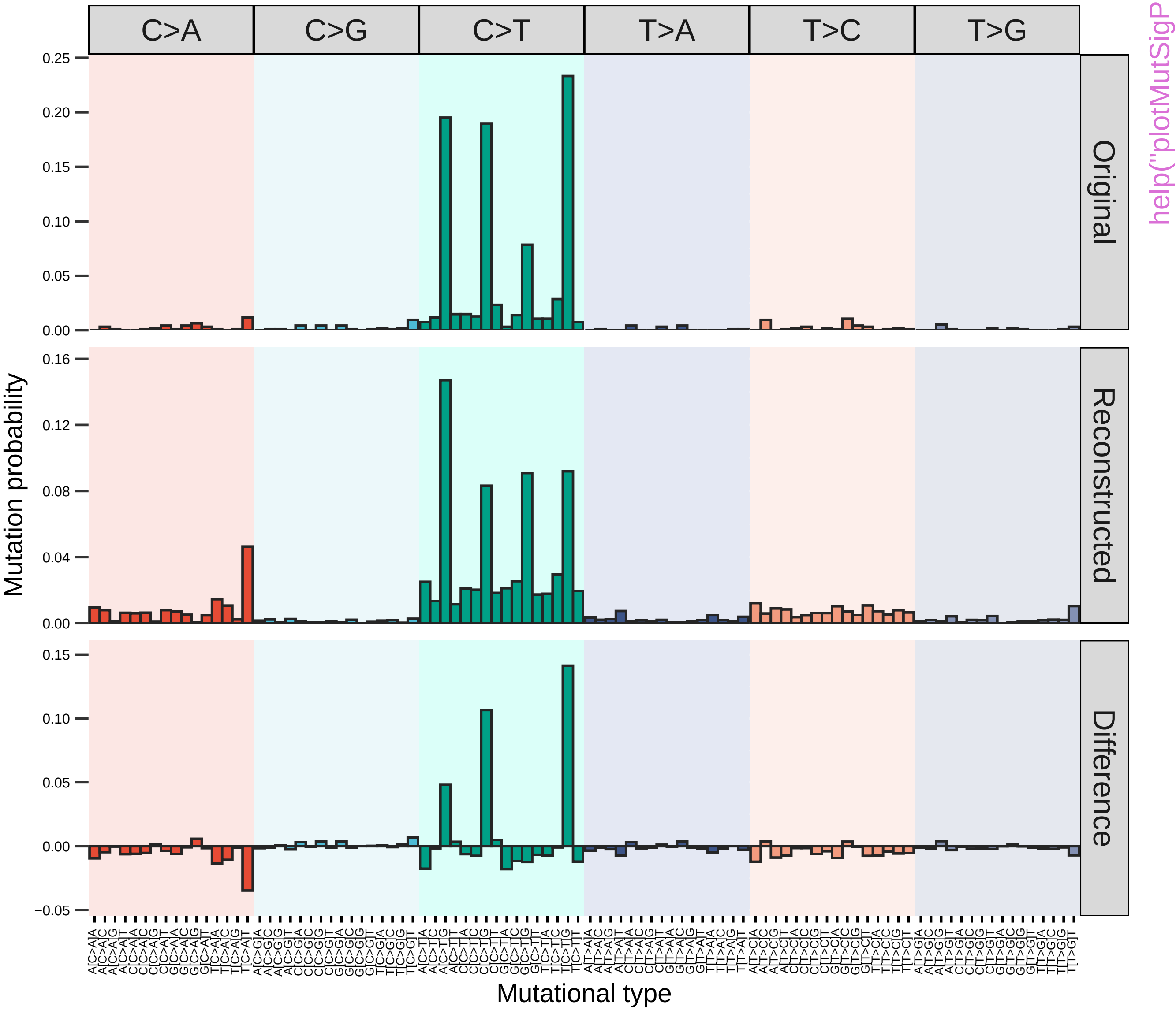
V402: BM

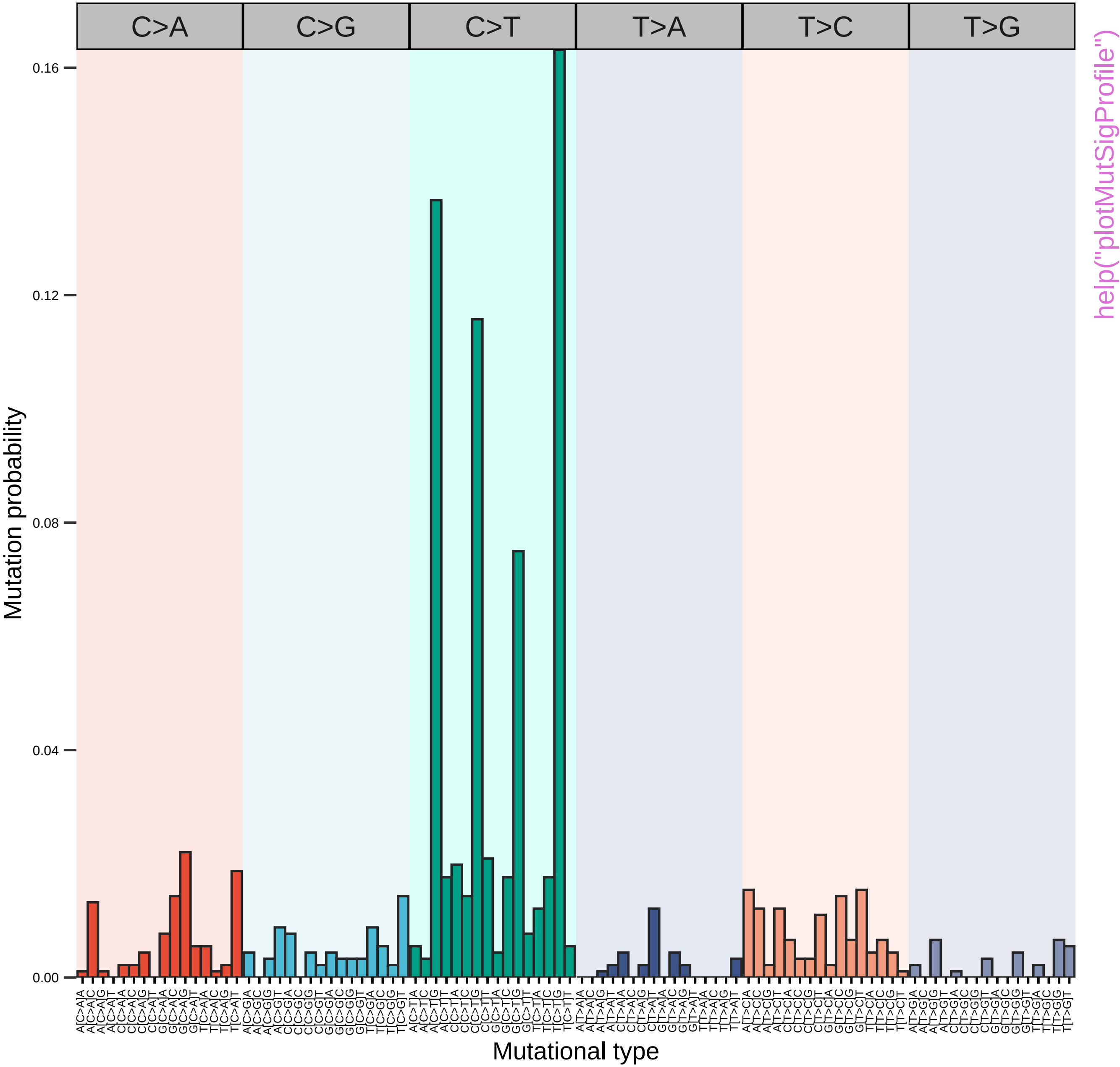
RSS = 0.011; Cosine similarity = 0.923
Signature 1: 0.82 & Signature 10: 0.12



V402: P

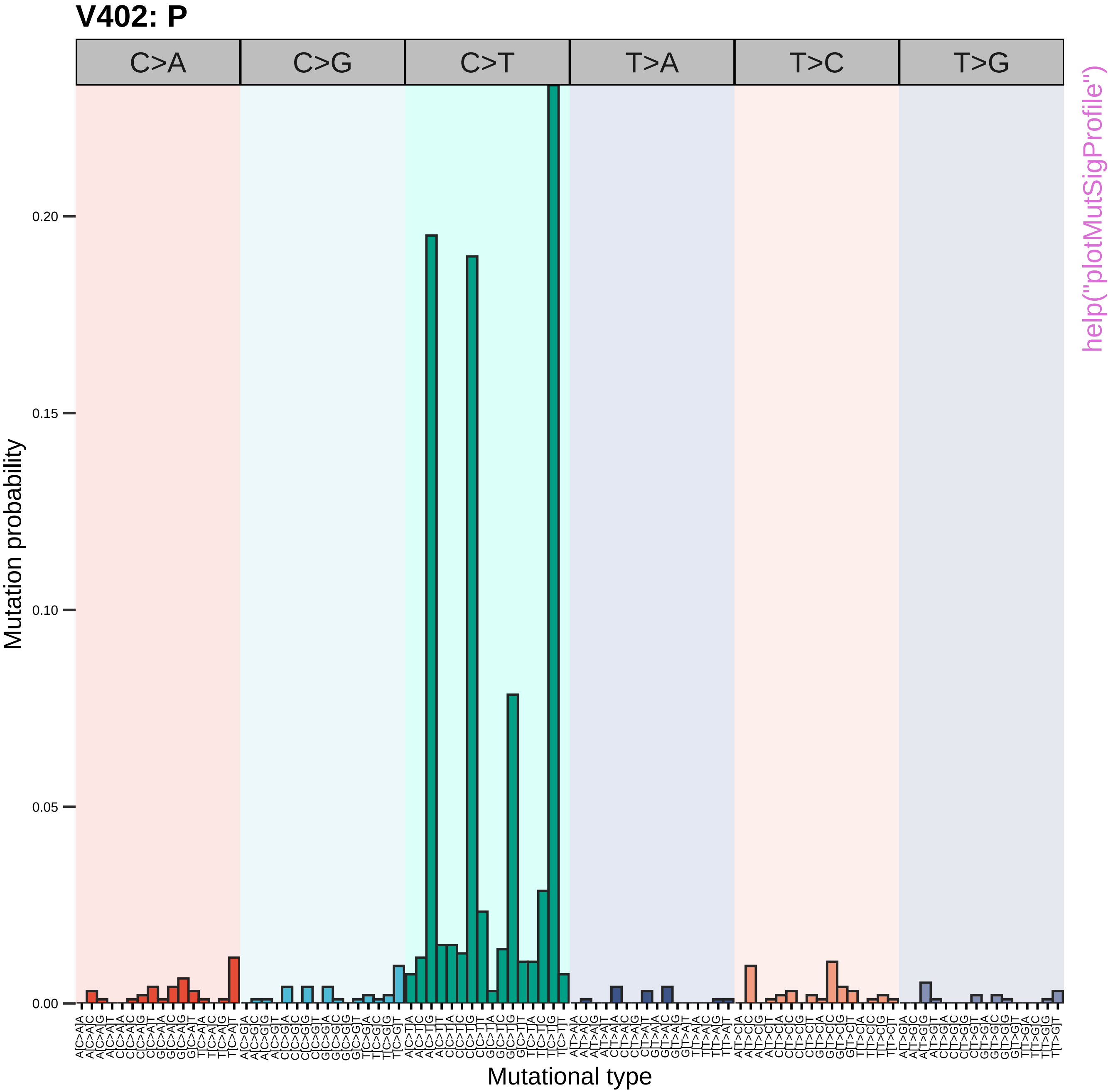
RSS = 0.038; Cosine similarity = 0.892
Signature 1: 0.85 & Signature 10: 0.11

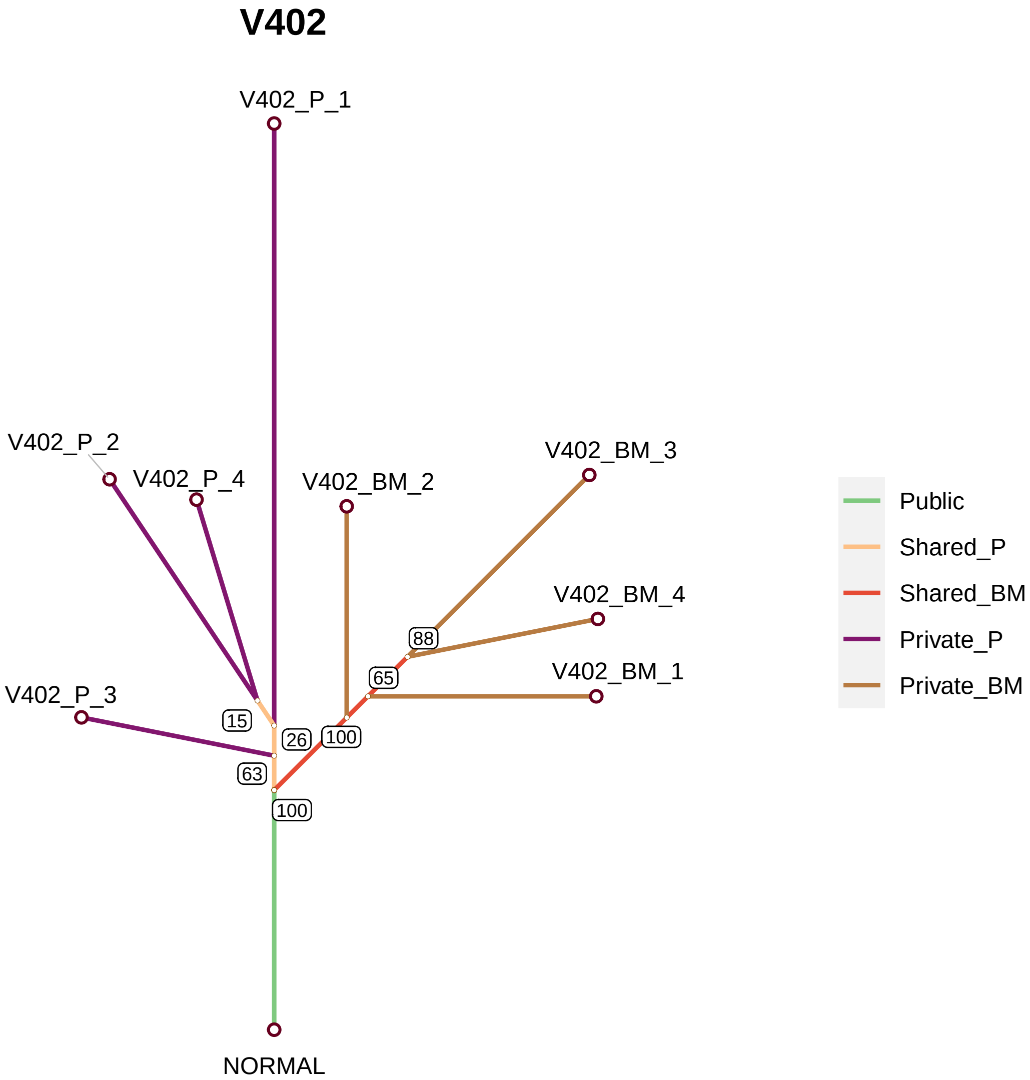




V402: BM

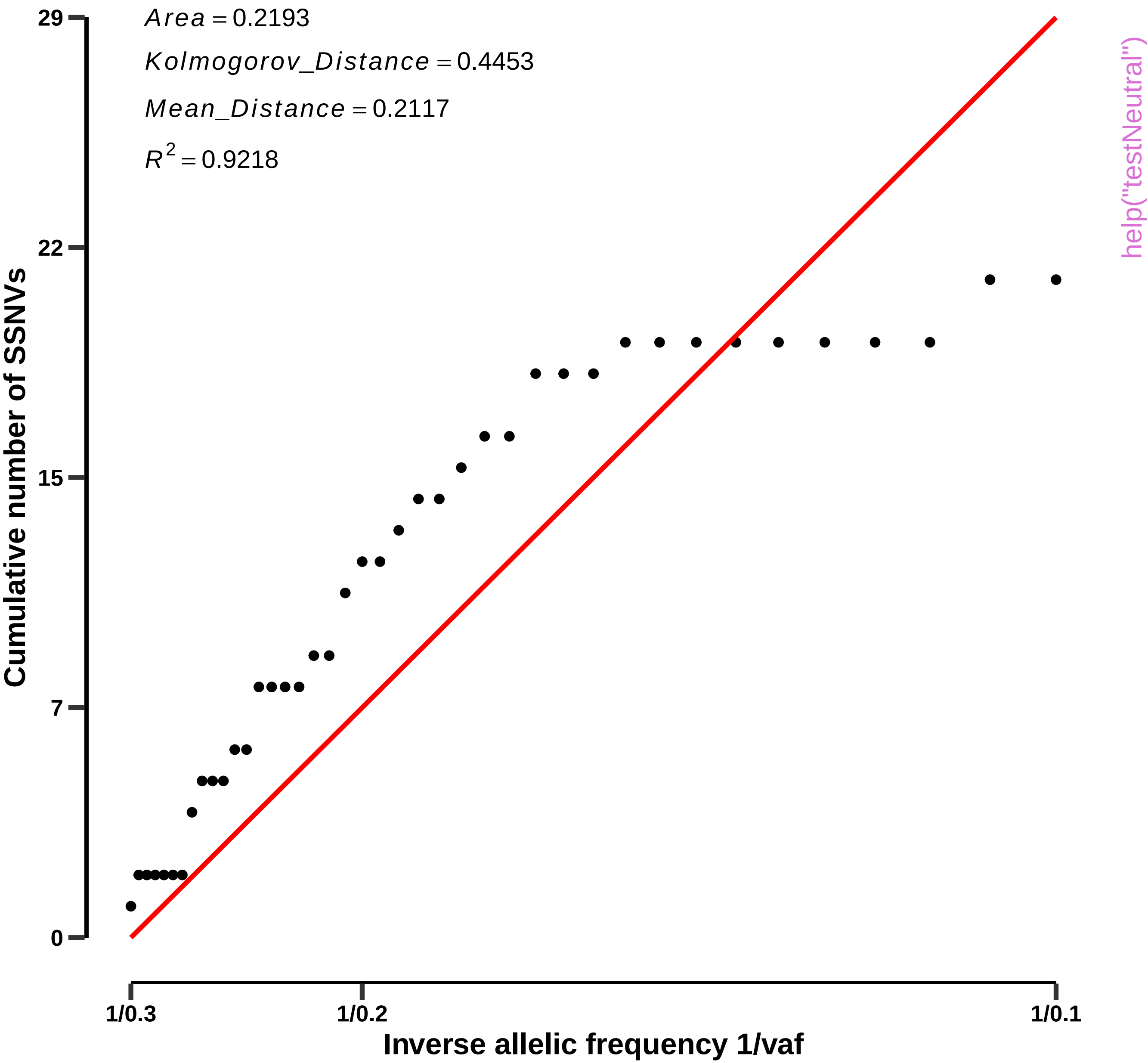
C>A
C>G
C>T
T>A
T>C
T>G
help("plotMutSigProfile")
Mutation probability
0.16
0.12
0.08
0.04
0.00
Mutational type
A[C>A]A
A[C>A]C
A[C>A]G
A[C>A]T
C[C>A]A
C[C>A]C
C[C>A]G
C[C>A]T
G[C>A]A
G[C>A]C
G[C>A]G
G[C>A]T
T[C>A]A
T[C>A]C
T[C>A]G
T[C>A]T
A[C>G]A
A[C>G]C
A[C>G]G
A[C>G]T
C[C>G]A
C[C>G]C
C[C>G]G
C[C>G]T
G[C>G]A
G[C>G]C
G[C>G]G
G[C>G]T
T[C>G]A
T[C>G]C
T[C>G]G
T[C>G]T
A[C>T]A
A[C>T]C
A[C>T]G
A[C>T]T
C[C>T]A
C[C>T]C
C[C>T]G
C[C>T]T
G[C>T]A
G[C>T]C
G[C>T]G
G[C>T]T
T[C>T]A
T[C>T]C
T[C>T]G
T[C>T]T
A[T>A]A
A[T>A]C
A[T>A]G
A[T>A]T
C[T>A]A
C[T>A]C
C[T>A]G
C[T>A]T
G[T>A]A
G[T>A]C
G[T>A]G
G[T>A]T
T[T>A]A
T[T>A]C
T[T>A]G
T[T>A]T
A[T>C]A
A[T>C]C
A[T>C]G
A[T>C]T
C[T>C]A
C[T>C]C
C[T>C]G
C[T>C]T
G[T>C]A
G[T>C]C
G[T>C]G
G[T>C]T
T[T>C]A
T[T>C]C
T[T>C]G
T[T>C]T
A[T>G]A
A[T>G]C
A[T>G]G
A[T>G]T
C[T>G]A
C[T>G]C
C[T>G]G
C[T>G]T
G[T>G]A
G[T>G]C
G[T>G]G
G[T>G]T
T[T>G]A
T[T>G]C
T[T>G]G
T[T>G]T


V402: P
C>A
C>G
C>T
T>A
T>C
T>G
help("plotMutSigProfile")
Mutation probability
0.20
0.15
0.10
0.05
0.00
A[C>A]A
A[C>A]C
A[C>A]G
A[C>A]T
C[C>A]A
C[C>A]C
C[C>A]G
C[C>A]T
G[C>A]A
G[C>A]C
G[C>A]G
G[C>A]T
T[C>A]A
T[C>A]C
T[C>A]G
T[C>A]T
A[C>G]A
A[C>G]C
A[C>G]G
A[C>G]T
C[C>G]A
C[C>G]C
C[C>G]G
C[C>G]T
G[C>G]A
G[C>G]C
G[C>G]G
G[C>G]T
T[C>G]A
T[C>G]C
T[C>G]G
T[C>G]T
A[C>T]A
A[C>T]C
A[C>T]G
A[C>T]T
C[C>T]A
C[C>T]C
C[C>T]G
C[C>T]T
G[C>T]A
G[C>T]C
G[C>T]G
G[C>T]T
T[C>T]A
T[C>T]C
T[C>T]G
T[C>T]T
A[T>A]A
A[T>A]C
A[T>A]G
A[T>A]T
C[T>A]A
C[T>A]C
C[T>A]G
C[T>A]T
G[T>A]A
G[T>A]C
G[T>A]G
G[T>A]T
T[T>A]A
T[T>A]C
T[T>A]G
T[T>A]T
A[T>C]A
A[T>C]C
A[T>C]G
A[T>C]T
C[T>C]A
C[T>C]C
C[T>C]G
C[T>C]T
G[T>C]A
G[T>C]C
G[T>C]G
G[T>C]T
T[T>C]A
T[T>C]C
T[T>C]G
T[T>C]T
A[T>G]A
A[T>G]C
A[T>G]G
A[T>G]T
C[T>G]A
C[T>G]C
C[T>G]G
C[T>G]T
G[T>G]A
G[T>G]C
G[T>G]G
G[T>G]T
T[T>G]A
T[T>G]C
T[T>G]G
T[T>G]T
Mutational type

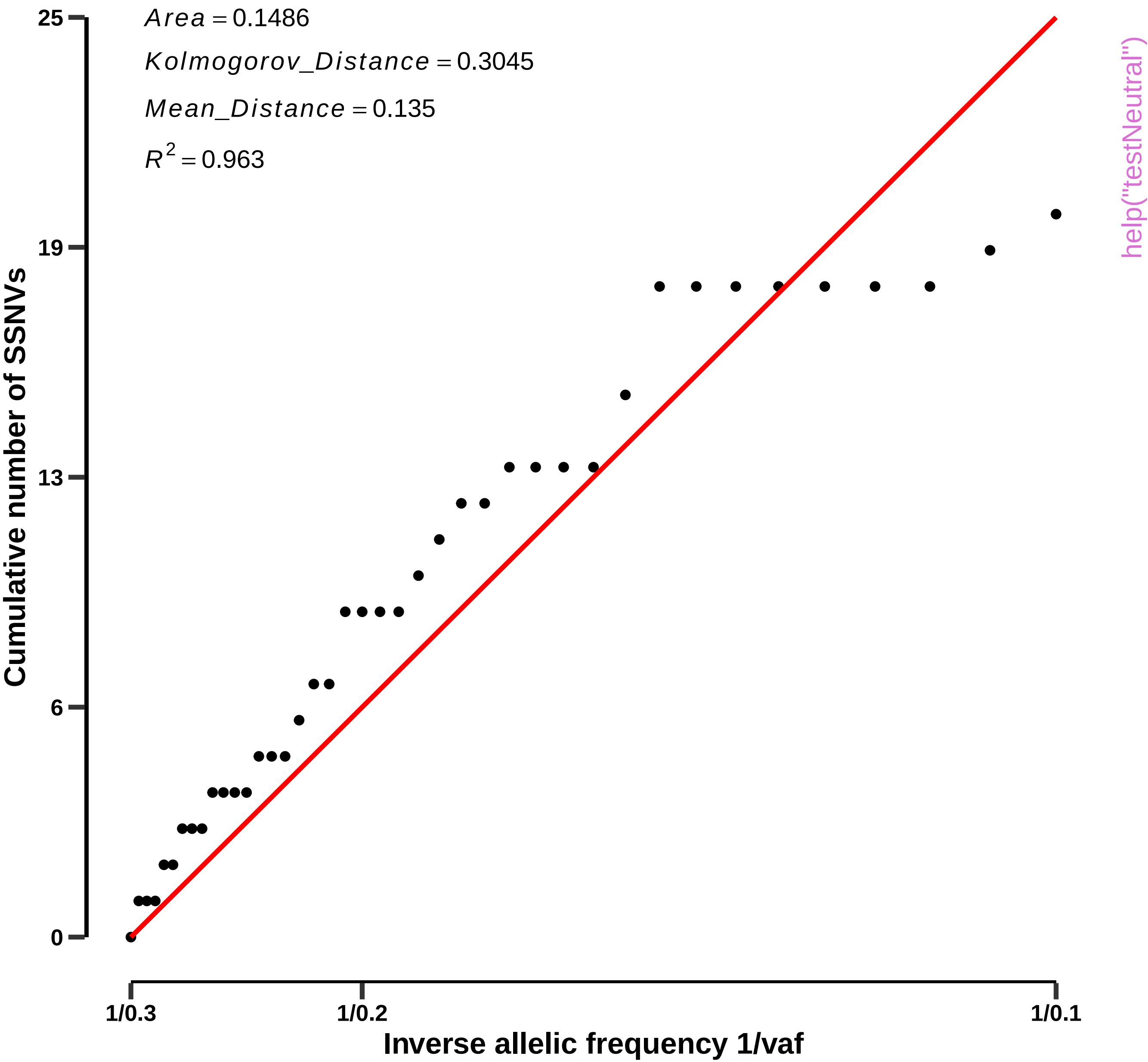

V402
V402_P_1
V402_P_2
V402_P_4
V402_BM_2
V402_BM_3
V402_BM_4
V402_BM_1
V402_P_3
88
65
15
26
100
63
100
NORMAL
Public
Shared_P
Shared_BM
Private_P
Private_BM

help("plotPhyloTree")

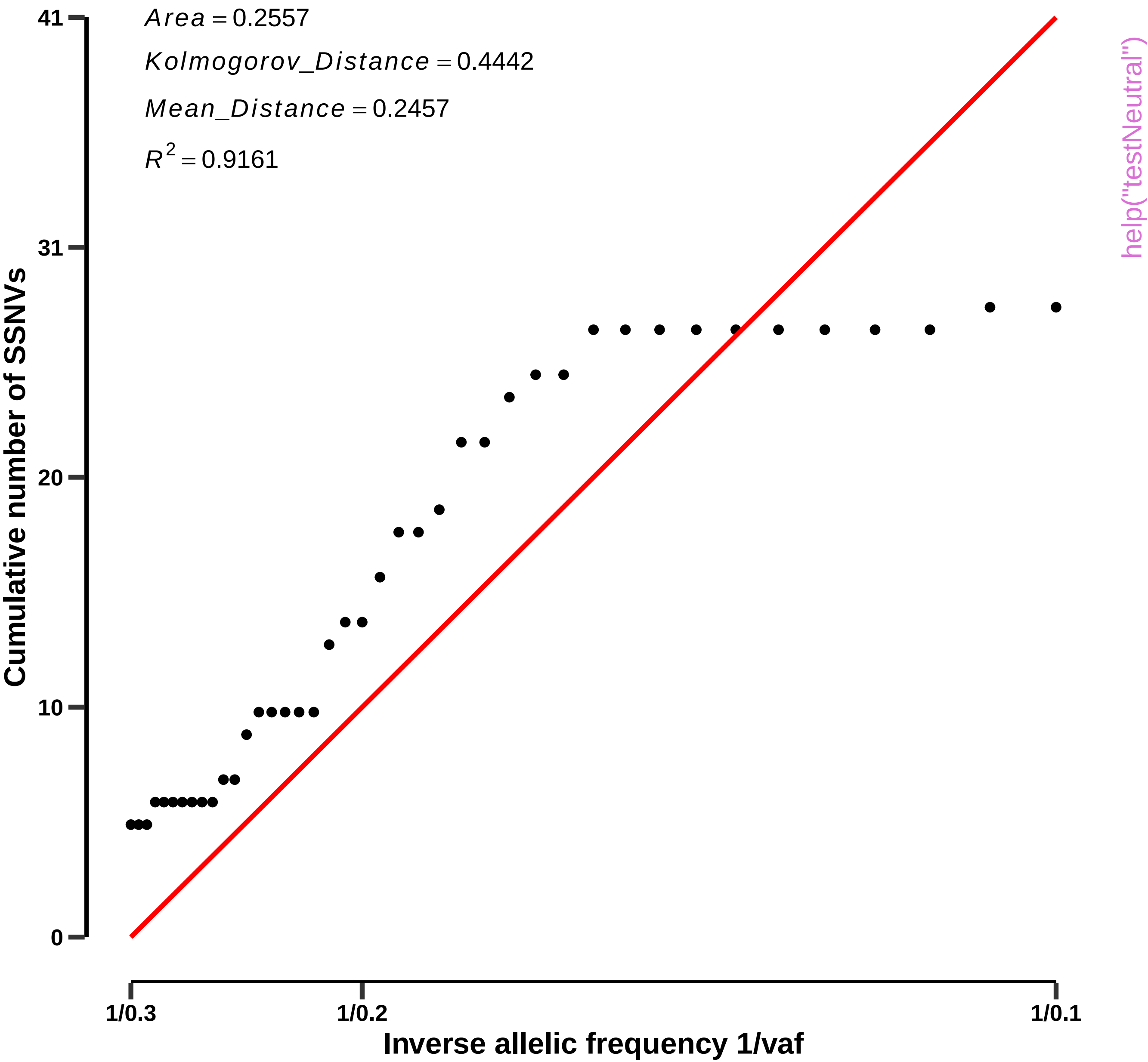
V402:V402_P_2

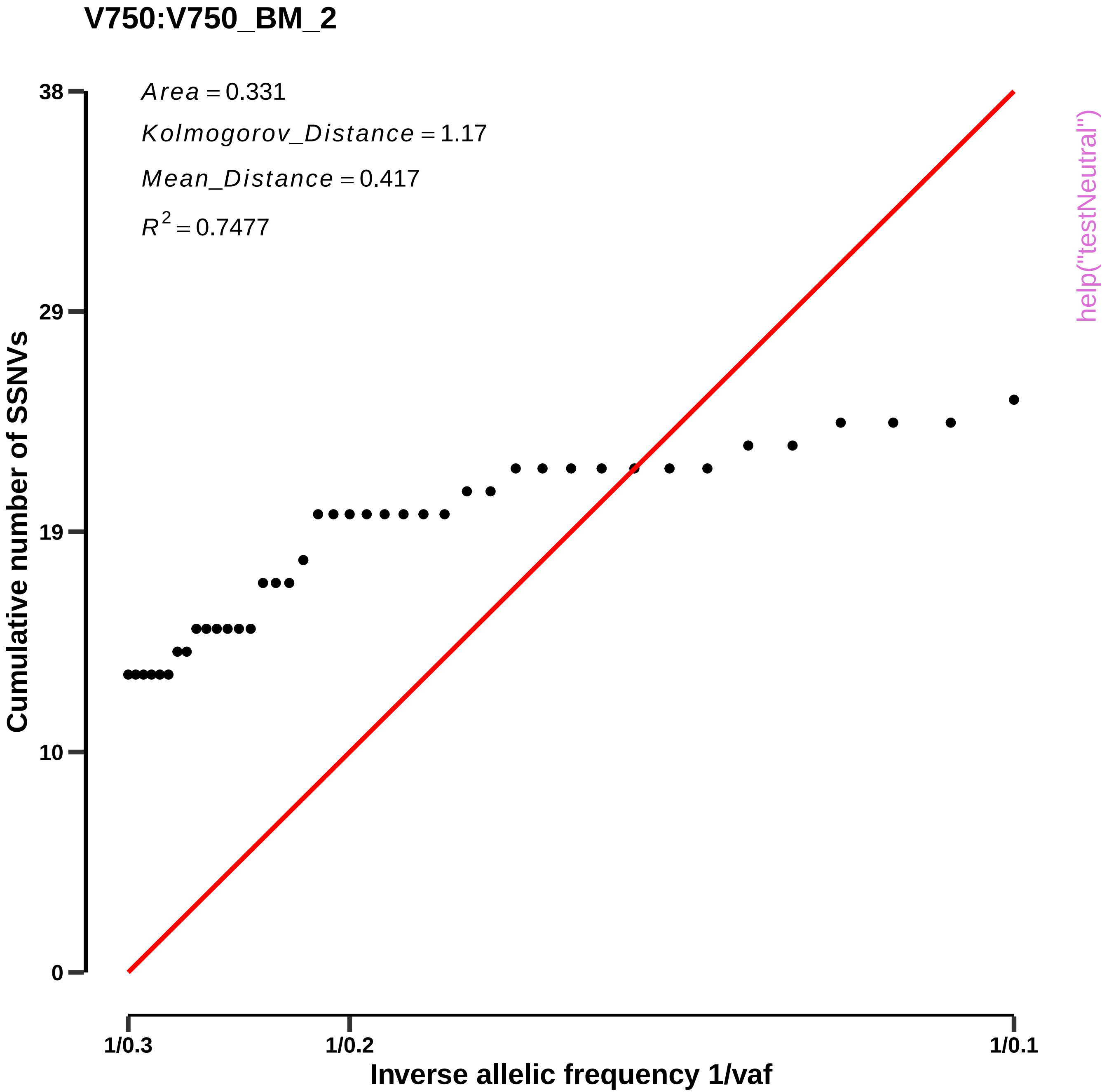

Area = 0.2193
Kolmogorov_Distance = 0.4453
Mean_Distance = 0.2117
$R^2 = 0.9218$
29
22
15
7
0
Cumulative number of SSNVs
1/0.3
1/0.2
1/0.1
Inverse allelic frequency 1/vaf
help("testNeutral")

V402:V402_P_3

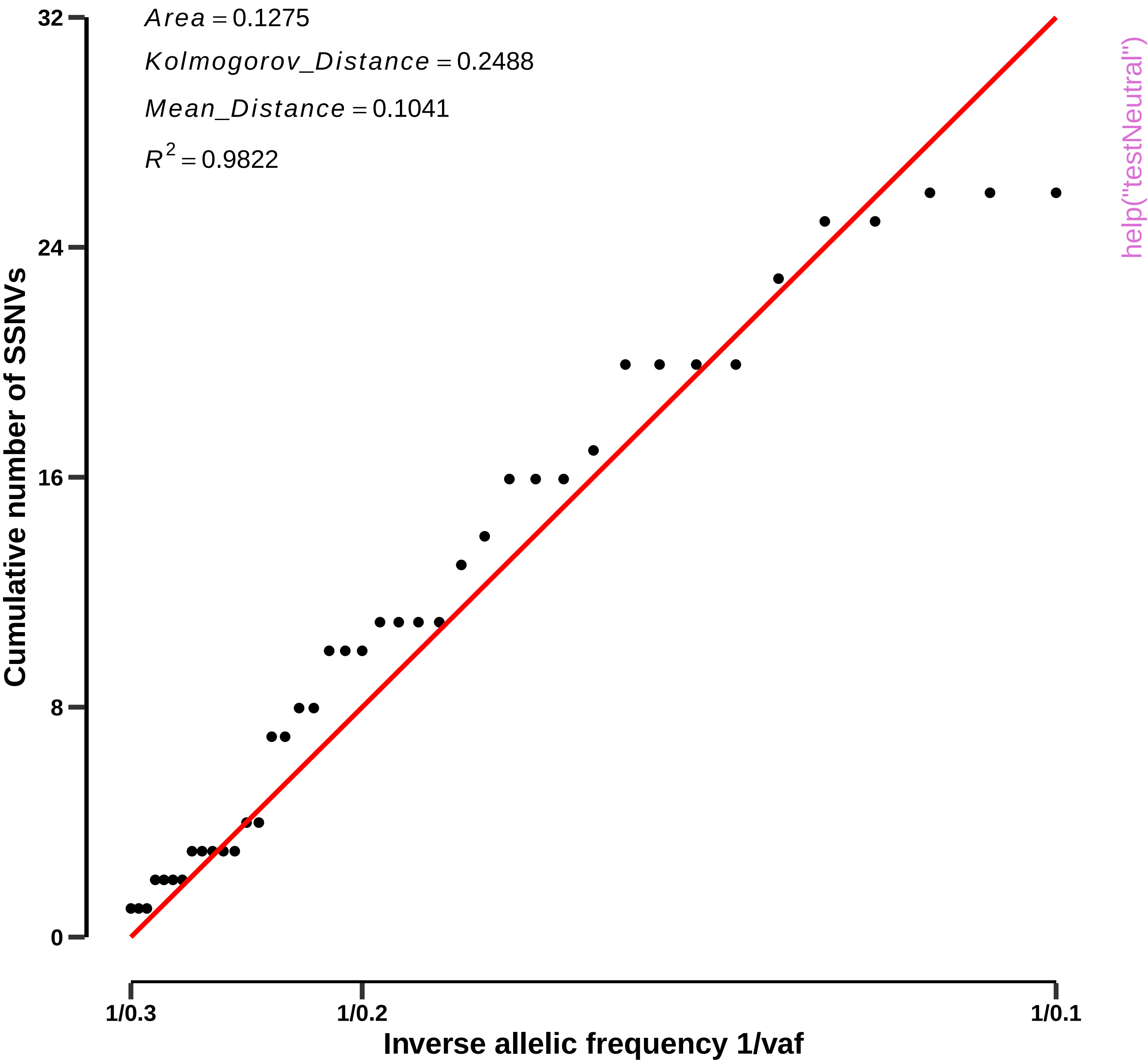

$Area = 0.1486$
$Kolmogorov\_Distance = 0.3045$
$Mean\_Distance = 0.135$
$R^2 = 0.963$
25
19
13
6
0
Cumulative number of SSNVs
1/0.3
1/0.2
1/0.1
Inverse allelic frequency 1/vaf
help("testNeutral")

V402:V402_P_4

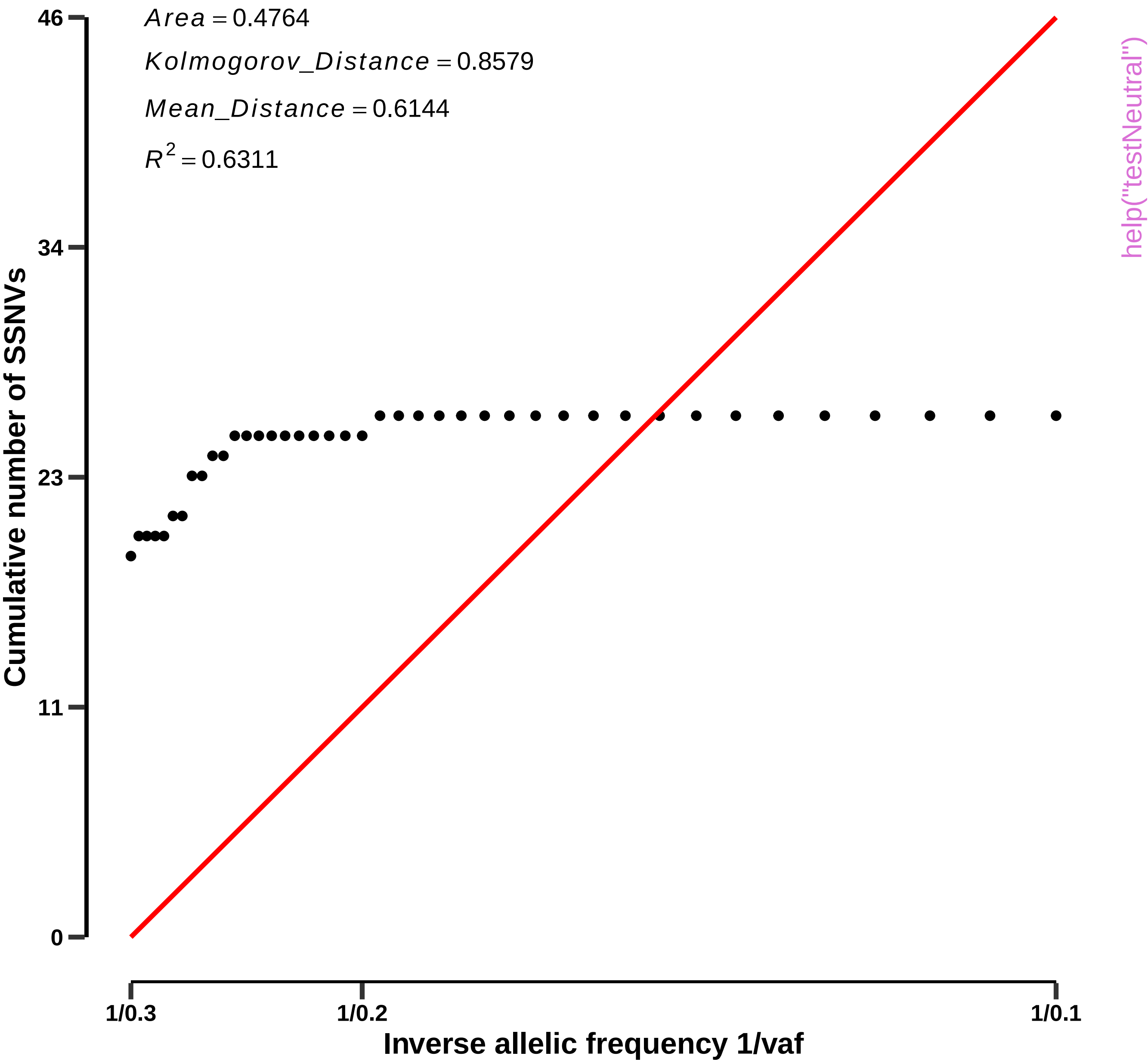

Area = 0.2557
Kolmogorov_Distance = 0.4442
Mean_Distance = 0.2457
$R^2 = 0.9161$
41
31
20
10
0
Cumulative number of SSNVs
1/0.3
1/0.2
1/0.1
Inverse allelic frequency 1/vaf
help("testNeutral")


V750:V750_BM_2
$Area = 0.331$
$Kolmogorov\_Distance = 1.17$
$Mean\_Distance = 0.417$
$R^2 = 0.7477$
help("testNeutral")
38
29
19
10
0
Cumulative number of SSNVs
1/0.3
1/0.2
1/0.1
Inverse allelic frequency 1/vaf

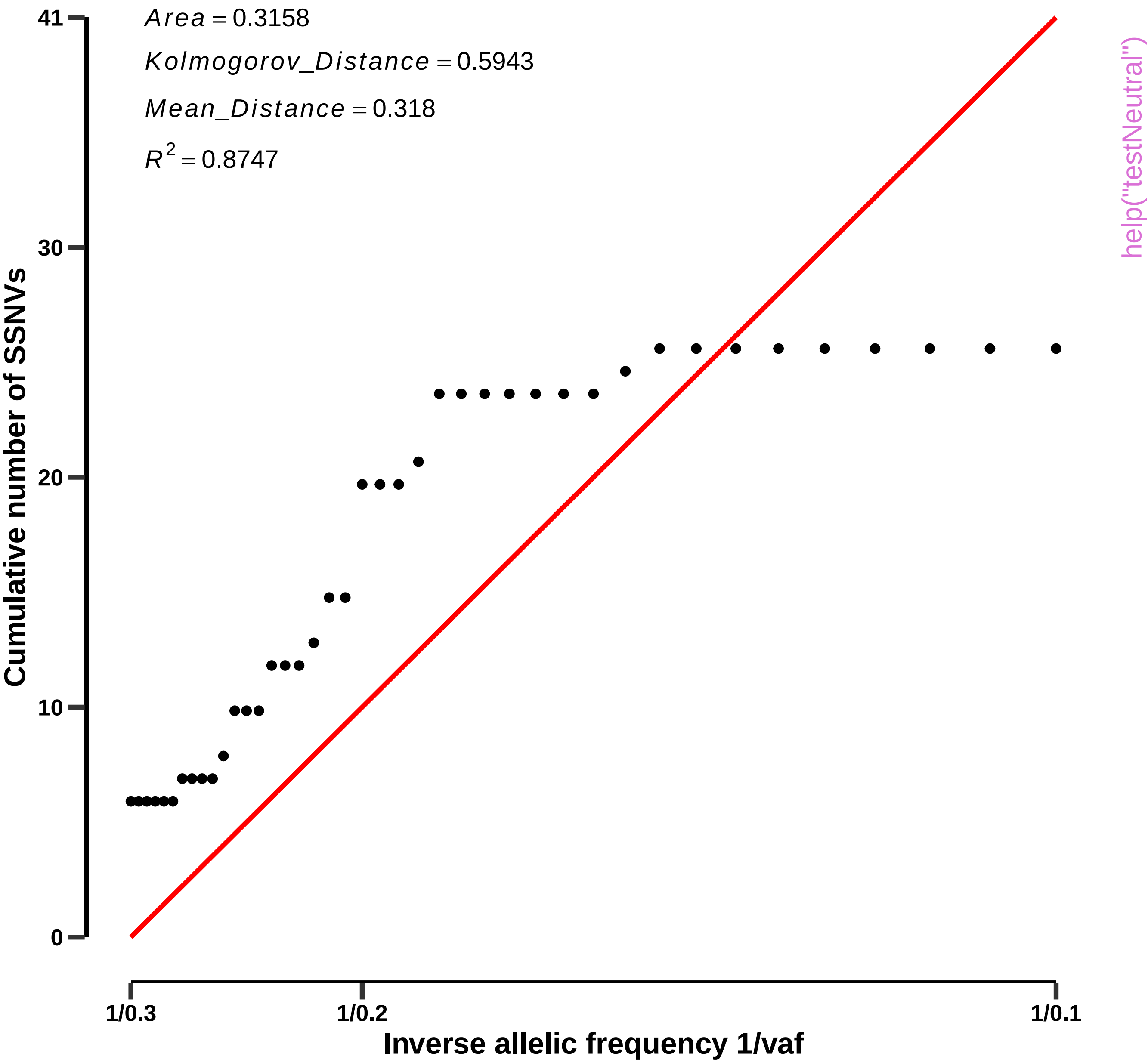
V930:V930_P_4


$Area = 0.1275$
$Kolmogorov\_Distance = 0.2488$
$Mean\_Distance = 0.1041$
$R^2 = 0.9822$
Cumulative number of SSNVs
32
24
16
8
0
1/0.3
1/0.2
1/0.1
Inverse allelic frequency 1/vaf
help("testNeutral")

V953:V953_P_1



$Area = 0.4764$
$Kolmogorov\_Distance = 0.8579$
$Mean\_Distance = 0.6144$
$R^2 = 0.6311$
Cumulative number of SSNVs
46
34
23
11
0
1/0.3
1/0.2
1/0.1
Inverse allelic frequency 1/vaf
help("testNeutral")

V953:V953_BM_4