


































ID B2Xyqnt5VTgzAZsS
acc genotypes 16
peaks no back
removed edges 0
prop rem edges 0










BWkhGPzysoNbGoq1
acc genotypes
peaks no back
removed edges






ID cczLUqQeSfB6Czbr
acc genotypes
peaks no back
removed edges 0 prop rem edges 0










ID D3yYb2Y5LZWHMIC9
acc genotypes
peaks no back
removed edges
prop rem edges 0










ID EkuM7k8AJLiPR6hS
acc genotypes 27
peaks no back
removed edges 0 prop rem edges 0









acc genotypes
fDVyfwz5EixVTGkı
152
peaks no back
removed edges 0
prop rem edges




































ID jAZ9fNKs3jEXePB4
acc genotypes 272
peaks no back
removed edges
prop rem edges 0













ID KkQL102YepOlao9Bb
acc genotypes 60
peaks no back 1
removed edges 0
prop rem edges 0









ID IIOath10wN5BQcyee
acc genotypes 18
peaks no back 1
removed edges 0
prop rem edges 0







LLARXmNmlvPm7fLH
acc genotypes
peaks no back
removed edges
1
0
0
prop rem edges










ID MocksvQ5er102Pjpk
acc genotypes 120
peaks no back
removed edges 0
prop rem edges 0


















ID ocx2Aw4wa94NsR64
acc genotypes 16
peaks no back 1
removed edges 0
prop rem edges 0




OGeUcOzxp4J7ocOW
acc genotypes
peaks no back
removed edges prop rem edges





oRJlh1e10mdF10GFUm
acc genotypes
22
peaks no back
removed edges prop rem edges 0
0









pwyaau7tK7LZumPR
acc genotypes 19
peaks no back 1
removed edges 0
prop rem edges 0














rZYDGyZC7mmbrvG7
acc genotypes
peaks no back
removed edges 0
prop rem edges 0








svUNVWKM4yHG4ZG6
276
peaks no back
removed edges prop rem edges












ID u1PulFhBeoVLcUwQ
acc genotypes u1Pu
224
1
peaks no back
removed edges 0
prop rem edges 0






UjXjH4wCYwemR9Ik
acc genotypes 92
peaks no back 1
removed edges 0
prop rem edges 0



















ID X73CthbrahOJ65dM
acc genotypes 160
peaks no back
removed edges 0
prop rem edges 0






ID xTeo6GEUfqWOarjY
acc genotypes 57
peaks no back 1
removed edges 0
prop rem edges 0














(D) YInEDjC9bTAwZFRa
acc genotypes 52
peaks no back 1
removed edges 0
prop rem edges 0



ID YsJ3QBe72KOpkYgG
acc genotypes 126
peaks no back 1
removed edges 0
prop rem edges 0




ID yUkCSfeekAS3UsYq
acc genotypes 72
peaks no back
removed edges 0
prop rem edges 0










































































































































ID nOAHFfiFZ4dc4UPV
acc genotypes 288
peaks no back 24
removed edges 255
prop rem edges
0.24



























































































## acc genotypes <br> peaks no back <br> removed edges

 prop rem edges



acc genotyper $10 y \mathrm{JX7cQ5FF31Qv6}$
pes 95
peaks no back 36
removed edges NA
prop rem edges NA


ID 1aUzp7cAshgfTICQ
acc genotypes
44
peaks no back
removed edges prop rem edges



D 1QFuLHW10HcmHRTX10
acc genotypes 217
peaks no back removed edges NA prop rem edges NA





ID 2Ytm5OoPJh10Hnzle
acc genotypes 52
peaks no back 13
removed edges NA
prop rem edges NA




ID 341bQ6tMBQ3wbqIX
acc genotypes 204
peaks no back 68
removed edges NA
prop rem edges NA



## ID 3ageR5IDF1410rU5i

acc genotypes 51
peaks no back 25
removed edges NA prop rem edges NA




ID 3r101LFQ84LQ4QX2E
acc genotypes
peaks no back removed edges prop rem edges



ID 3uTPGDsbMFbp45JR
acc genotypes
131
peaks no back 38
removed edges NA
prop rem edges NA









## ID 5h10KTbvYD90100XnK

acc genotypes
peaks no back
removed edges prop rem edges



## acc genotypes <br> peaks no back <br> removed edges

5w3nMqdUbSKjUyuj prop rem edges



ID 5XTuzOyhioi24t2s
acc genotypes 48
peaks no back
removed edges NA prop rem edges NA







ID 7jxvBRIz6DAUbzBL
acc genotypes peaks no back removed edges prop rem edges NA NA



ID 7KQQodSTMHz6tzpM
acc genotypes
291
peaks no back removed edges



## ID 7yMvs88xHRDYKybO

acc genotypes 182
peaks no back 62
removed edges NA
prop rem edges NA



$$
\begin{aligned}
\text { acc genotypes } & 197 \\
\text { peaks no back } & 75 \\
\text { removed edges } & \mathrm{NA}
\end{aligned}
$$

7YYdBu6jr3vr7yKp







ID 8 Wuwdsphcy5tFFeb
acc genotypes
117
peaks no back 46
removed edges NA
prop rem edges NA


acc genotypes
913oZplLmQJI3z3r
peaks no back
removed edges 39
NA prop rem edges NA




ID 9FoiB310FGDvgWcIE
acc genotypes
peaks no back
removed edges
69
NA
prop rem edges



D A1JsKu9z21G7TWcc
acc genotypes 261
peaks no back 105
removed edges NA
prop rem edges NA








ID aEeRemo3Lxmgcy8w
acc genotypes 31
peaks no back 94
removed edges NA
prop rem edges NA







ID AXZ6AsdBRokekeDx
acc genotypes 327
peaks no back 60
removed edges NA
prop rem edges NA







## acc genotypes <br> peaks no back <br> removed edges

ID bo1swth9Yj610ESJy prop rem edges



ID bOw7SJCwZBwfZRmf
acc genotypes
peaks no back removed edges



ID BtsRtS3YmmkCe2Gg
acc genotypes 50
peaks no back 18
removed edges NA
prop rem edges NA



BWbL4g3bDhB87PnG





C46MDiN7E3KDR5Fu


















ID EMbpnzl5vOYpYkCY
acc genotypes 262
peaks no back 64
removed edges NA
prop rem edges NA




erQFJpuliZzglgwp
377


acc genotypes 33
peaks no back 13
removed edges NA
prop rem edges NA



A,C,E,I,J D,E,F,I,J E,F,H,I,J A,B,C,F,J














## acc genotypes <br> 106 <br> 48 <br> NA <br> removed edges

g4on7kMYrN7IvT9p prop rem edges


ID g5rN9RqrUiS9arMn
acc genotypes peaks no back removed edges prop rem edges









ID GtsX2ANXEuqX4ryX
acc genotypes 48
peaks no back 21
removed edges NA prop rem edges NA






ID H5F3U9TPZOWztRjG
acc genotypes
peaks no back
removed edges NA
prop rem edges NA



$$
\begin{aligned}
& \text { acc genotypes } \\
& \text { peaks no back } \\
& \text { removed edges }
\end{aligned}
$$



peaks no back
removed edges prop rem edges NA


ID hm10KP8sr2CYeQUji
acc genotypes 309
peaks no back 107
removed edges NA
prop rem edges NA



ID hQhSt6SyCYjTd10y8
acc genotypes 593
peaks no back 84
removed edges NA
prop rem edges NA




















ID jQBPZk8ZII14NJWW
acc genotypes 88
peaks no back 31
removed edges NA
prop rem edges NA





## acc genotypes <br> 166 <br> 64 <br> NA <br> removed edges

k4Otptn3TVpfZN7m prop rem edges


ID k9EeYCy4KVgVd19I
acc genotypes 82
peaks no back 35
removed edges NA prop rem edges NA






ID kfHftKfTcY9lyTX3




$A, E, G A, C, E \quad B, G, J A, D, G B, G, H B, H, I B, D, H$ B,F,H D,I,J B,C,D C,D,HA,C,D C,D,E C,D,J C,G,J C,E,J

B,D,G,H


ID KVDBUlaSExVhtPy5
acc genotypes 187
peaks no back 57
removed edges NA
prop rem edges NA







$$
\begin{aligned}
\text { acc genotypes } & 183 \\
\text { peaks no back } & 56 \\
\text { removed edges } & \text { NA }
\end{aligned}
$$

liglbsdWsdaVrYD4
prop rem edges NA



| ID | LjALbpwaXmX67y1J |
| ---: | :--- |
| acc genotypes | 200 |
| peaks no back | 60 |
| removed edges | NA |
| prop rem edges | NA |









## ID MkpqetXw6W2muojH

acc genotypes 26
peaks no back 74
removed edges NA
prop rem edges NA





ID mqC38cuoz4YoXqrC
acc genotypes
214
peaks no back
removed edges NA
prop rem edges NA








ID Na1044PJp2RIHKSI6
acc genotypes 30
peaks no back 13
removed edges NA
prop rem edges NA







ID OcPH3CcYp51kr5sW
acc genotypes 54
peaks no back 62
removed edges NA
prop rem edges NA


ID OGxF8Oyv15NLRVHt
acc genotypes
peaks no back removed edges 63 $\begin{array}{ll}\text { removed edges } & \text { NA } \\ \text { prop rem edges } & \text { NA }\end{array}$



ID Oh105Ra4cDXvsiqOA
acc genotypes
468
peaks no back 63
removed edges NA
prop rem edges NA



ID Oj6oyBsD3bxROStD
acc genotypes
134
peaks no back
removed edges NA prop rem edges NA



ID Oyrh4S6yqbCq9BE1
acc genotypes 84
peaks no back 37
removed edges NA
prop rem edges NA









## ID PmQfeqFvnFM6z8Uz

acc genotypes
peaks no back 75
removed edges NA
prop rem edges NA




## acc genotypes <br> peaks no back <br> removed edges NA

q6ESfEnjdJLQJKzP prop rem edges

 prop rem edges











ID R1rRFK7kvGTL7JOu
acc genotypes 95
peaks no back 39
removed edges NA
prop rem edges NA






# ID RgQW10wScrRmd9eE8 

acc genotypes
65
peaks no back
removed edges prop rem edges NA NA





ID rwEpMgO6p9XY5Fe3
acc genotypes 59
peaks no back 25
removed edges NA
prop rem edges NA




## ID SkrmpMeOx2A5XIjs

acc genotypes 41
peaks no back 14
removed edges NA prop rem edges NA








## acc genotypes 15 <br> peaks no back 49 <br> removed edges NA

prop rem edges NA


## ID T1lg10UC4ysvdG1vj

acc genotypes 75
peaks no back 31
removed edges NA prop rem edges NA





ID Tklr7flyal9UtU86
acc genotypes 142
peaks no back 60
removed edges NA
prop rem edges NA







> acc genotypes
> peaks no back
> removed edges

ID





## ID u8aziQ10mxkwi2VPc

| acc genotypes | 57 |
| ---: | ---: |
| peaks no back | 19 |
| removed edges | NA |
| prop rem edges | NA |




ID U9tKbeEaFO915pcB
acc genotypes 151
peaks no back 66
removed edges NA
prop rem edges NA



Number of mutated genes






ID UmunqSzUuUKy8o5I
acc genotypes 172
peaks no back 56
removed edges NA
prop rem edges NA





ID UpYY82ecse62Y3kB
acc genotypes 102
peaks no back 28
removed edges NA
prop rem edges NA



ID UR8nbozlYY5kAyVm
acc genotypes 238
peaks no back 54
removed edges NA
prop rem edges NA


## vhfO10CYjbTCUd5Oc

acc genotypes
peaks no back 49
removed edges NA
prop rem edges NA









ID wOuBIsYKAAzBpTkz
acc genotypes
191
peaks no back 69
removed edges NA
prop rem edges NA


## acc genotypes




ID wwBtyDIZSVYRmVq
acc genotypes
peaks no back 83
removed edges NA
prop rem edges NA







WZ96wrbzeKdxcOJ3





| acc genotypes | 184 |
| ---: | :--- |
| peaks no back | 73 |
| removed edges | NA |
| prop rem edges | NA |




ID Xh10HKozlpe9ybd7i
acc genotypes
200
peaks no back
removed edges NA
prop rem edges NA








ID $\mathrm{xvHgdwCzOGa7Ev7e}$
acc genotypes 55
peaks no back 19
removed edges NA
prop rem edges NA


xwEXGxQHVPacEqsW
acc genotypes
peaks no back
removed edges prop rem edges

67
26
NA NA








ID YqlzMXE6SnRITBq5
acc genotypes
peaks no back
removed edges NA prop rem edges NA



$\triangle, B, C, G A H C, E, G A, C, E, F, F G C, F, G A A C, E, G A C, G, L$








ID Zi10rinfw5yh1JEKK
acc genotypes
peaks no back
removed edges prop rem edges









ID zSLtW8y3ke10umntK
acc genotypes 98
peaks no back 26
removed edges NA
prop rem edges NA



ID ZTNMfNi10xGkfS7ED
acc genotypes
peaks no back removed edges

52
prop rem edges
NA



## ID ZVzsqZQydHbT4TYZ

acc genotypes 42
peaks no back 20
removed edges NA





