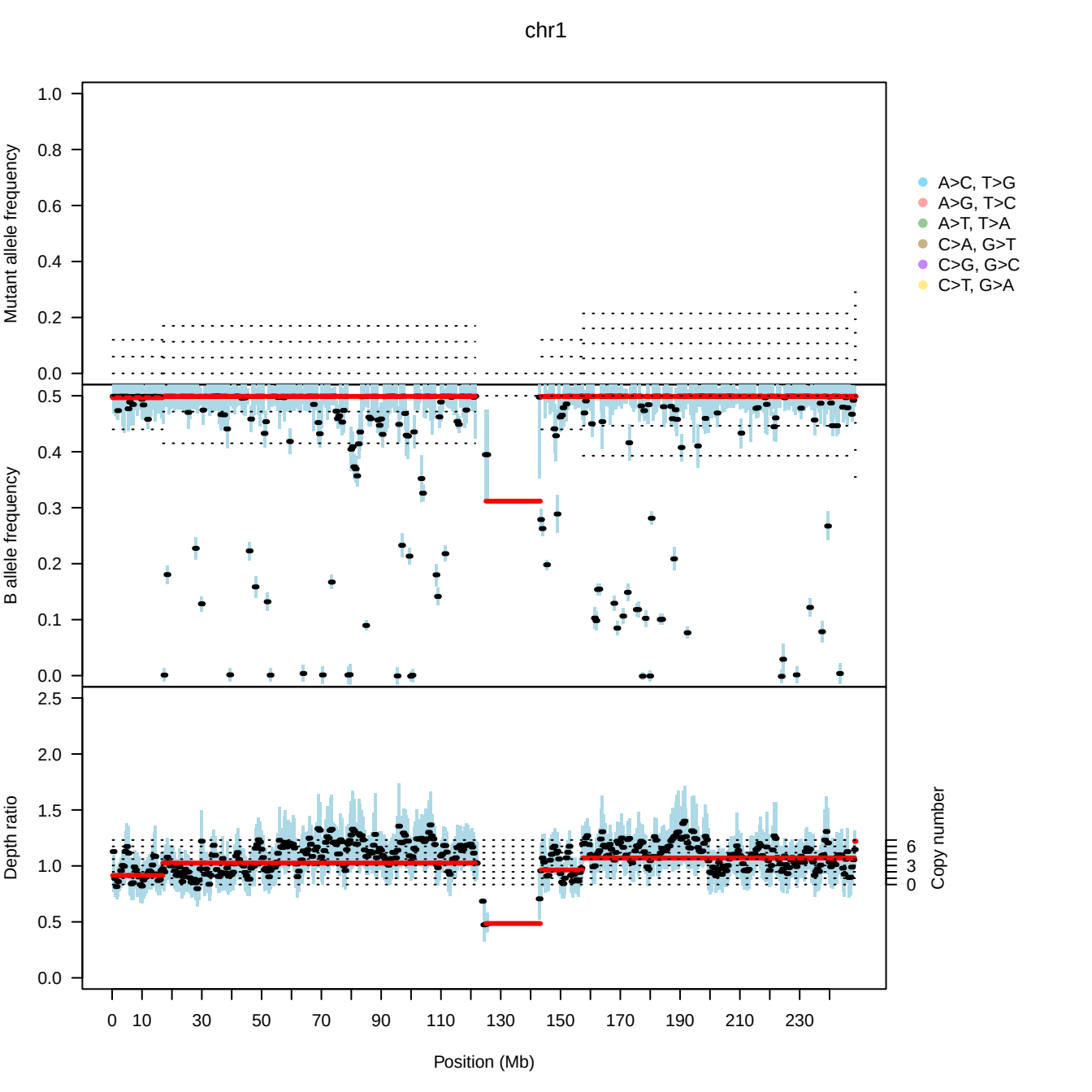
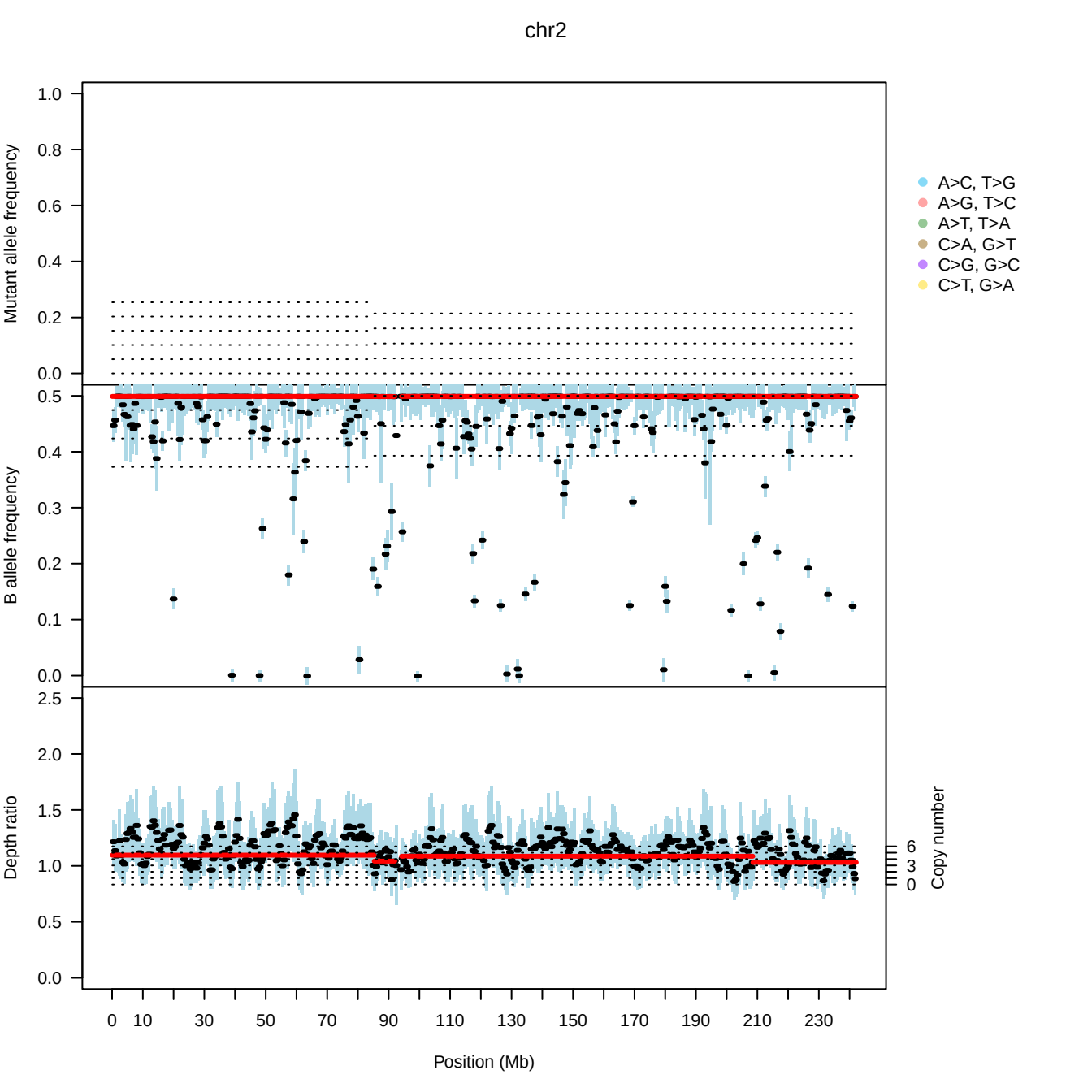
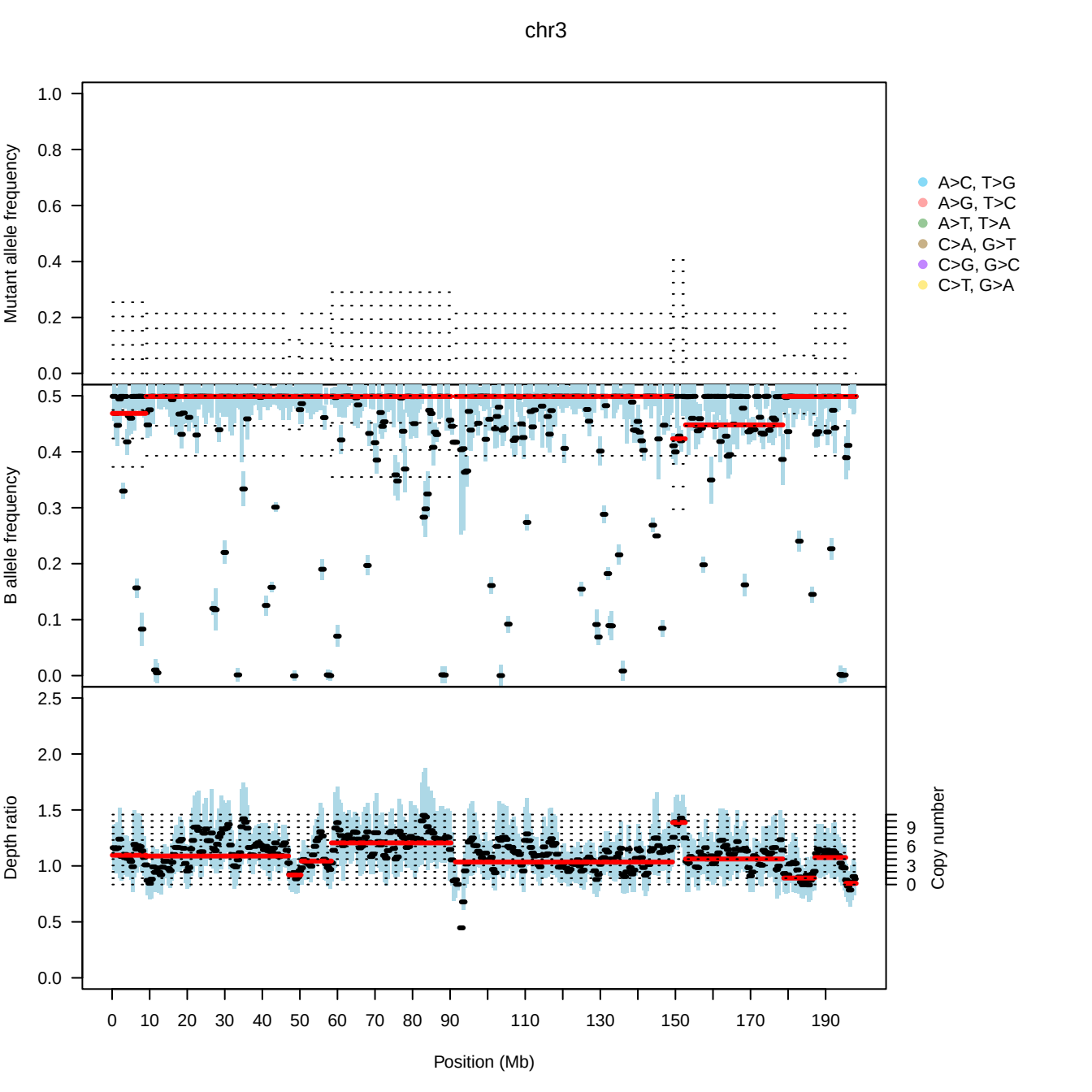
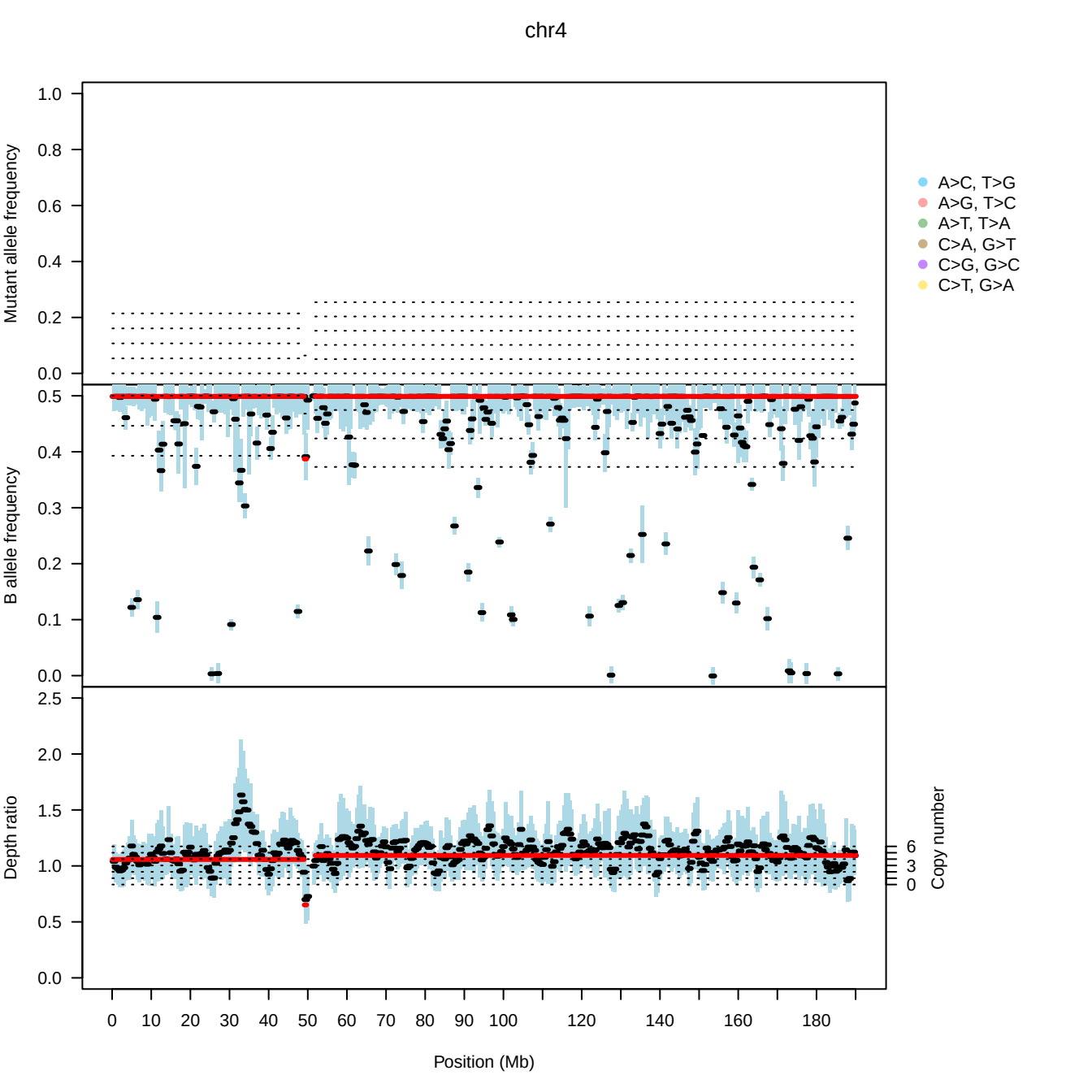
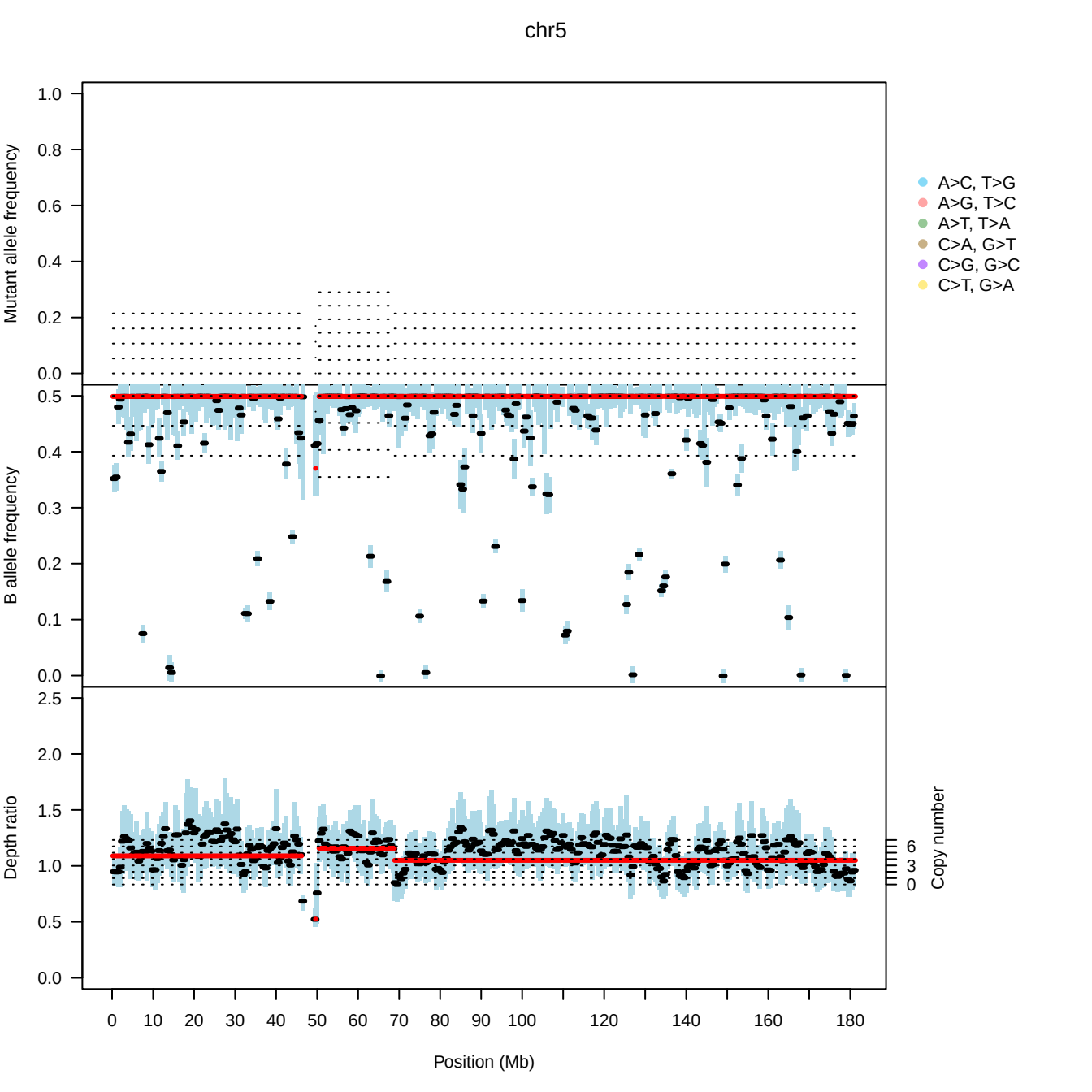
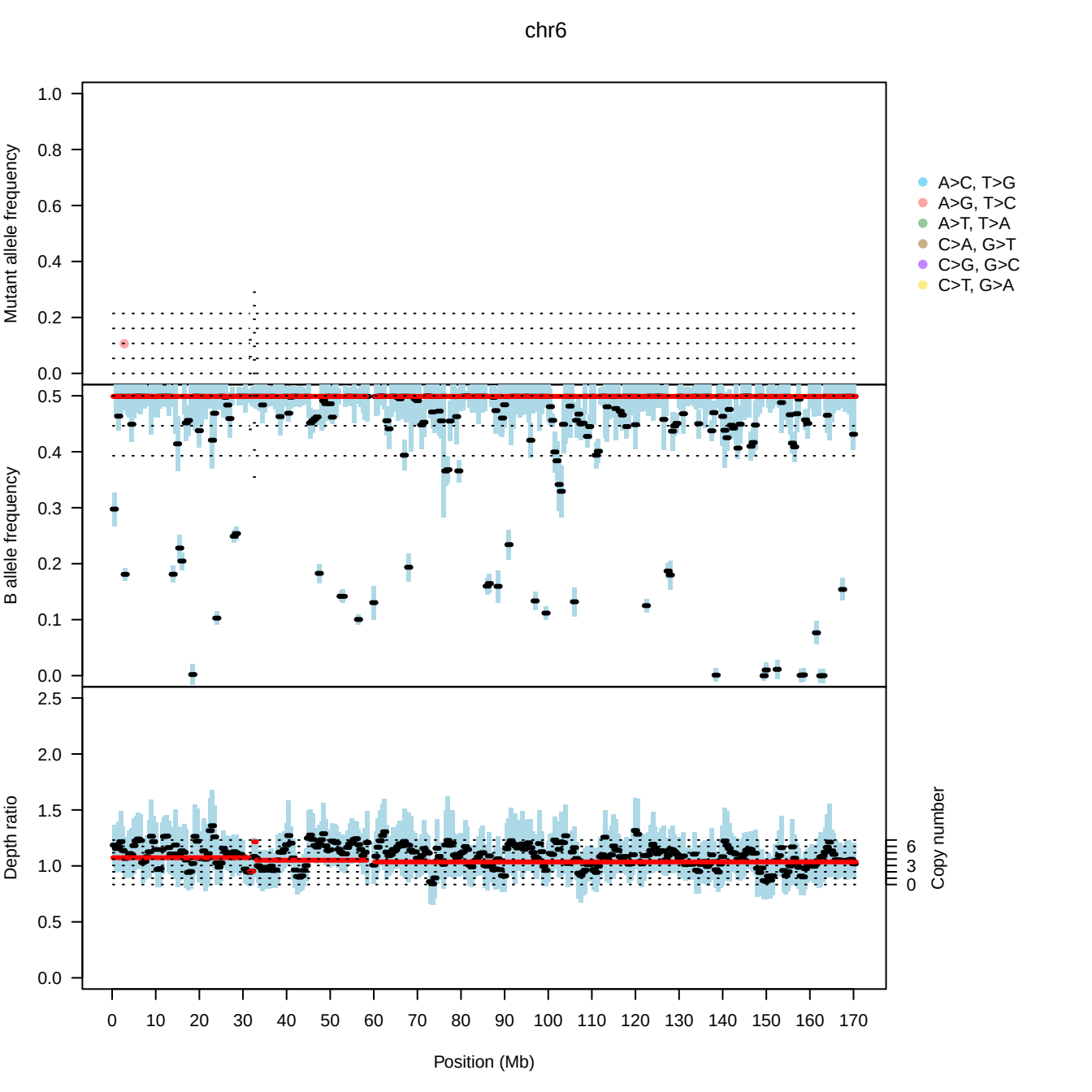

chr1
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
6
3
0
0
10
30
50
70
90
110
130
150
170
190
210
230
Position (Mb)

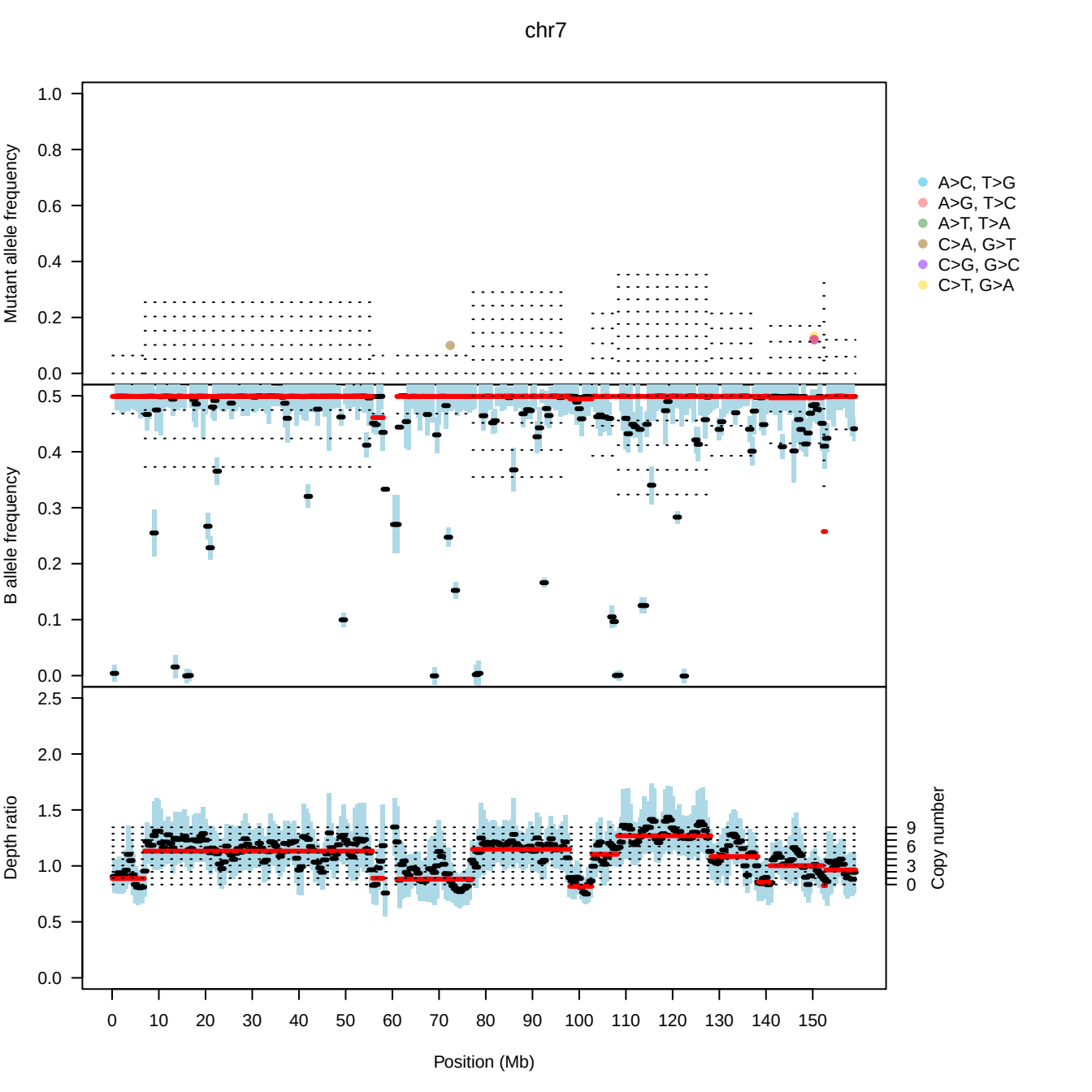

chr2
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
Position (Mb)

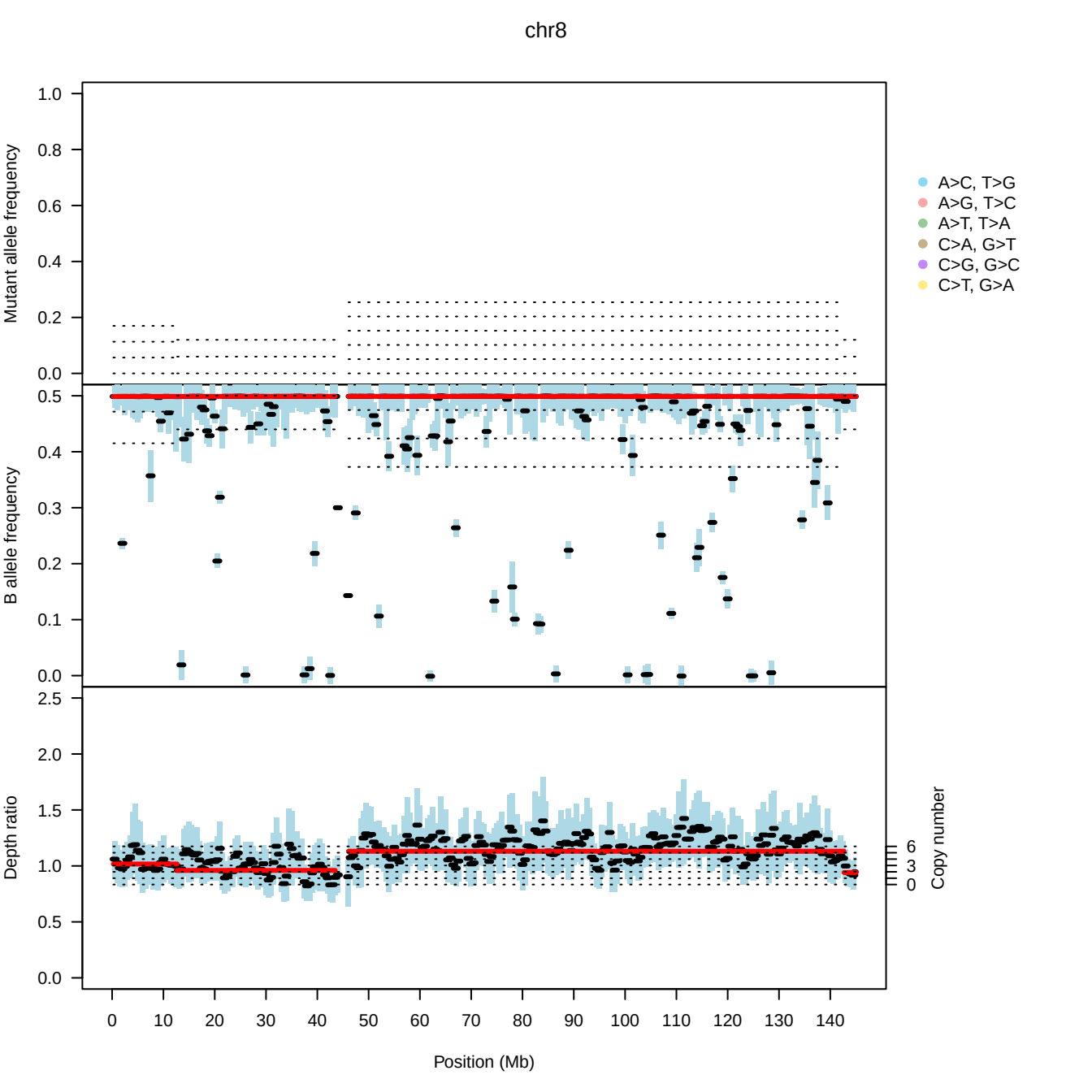

chr3
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
Position (Mb)

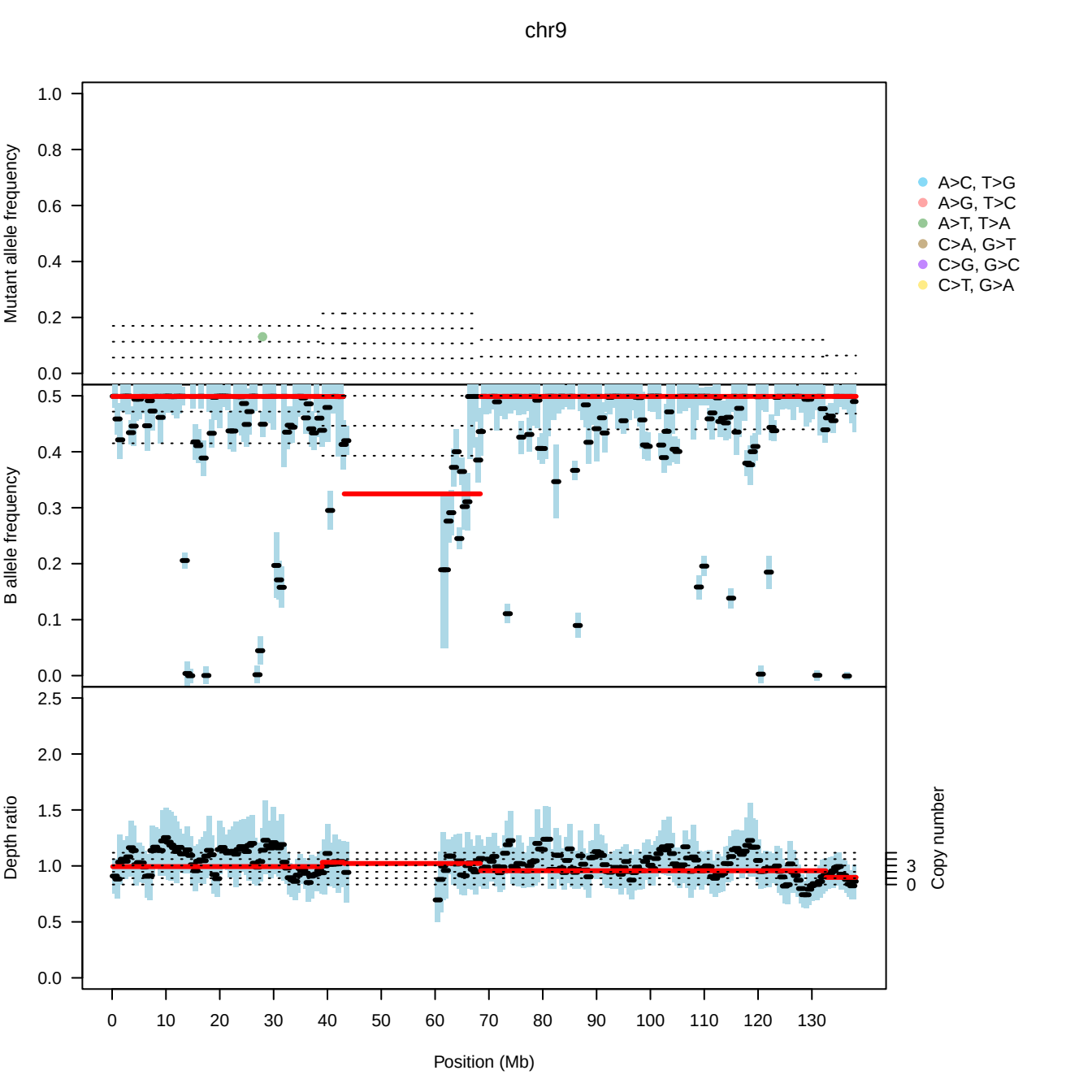

chr4
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
6
3
0
Copy number
0
10
20
30
40
50
60
70
80
90
100
120
140
160
180
Position (Mb)

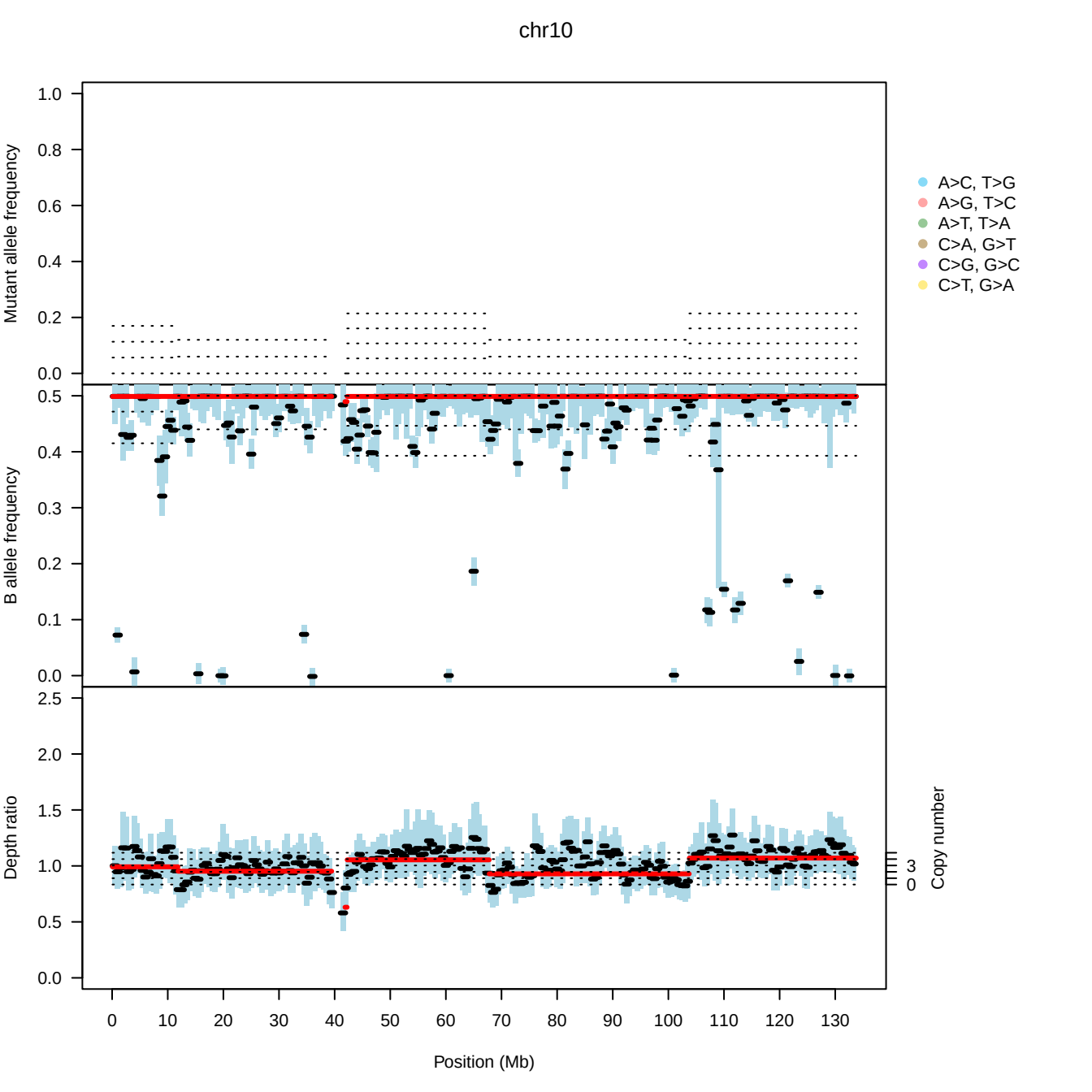

chr5
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
6
3
0
0
10
20
30
40
50
60
70
80
90
100
120
140
160
180
Position (Mb)

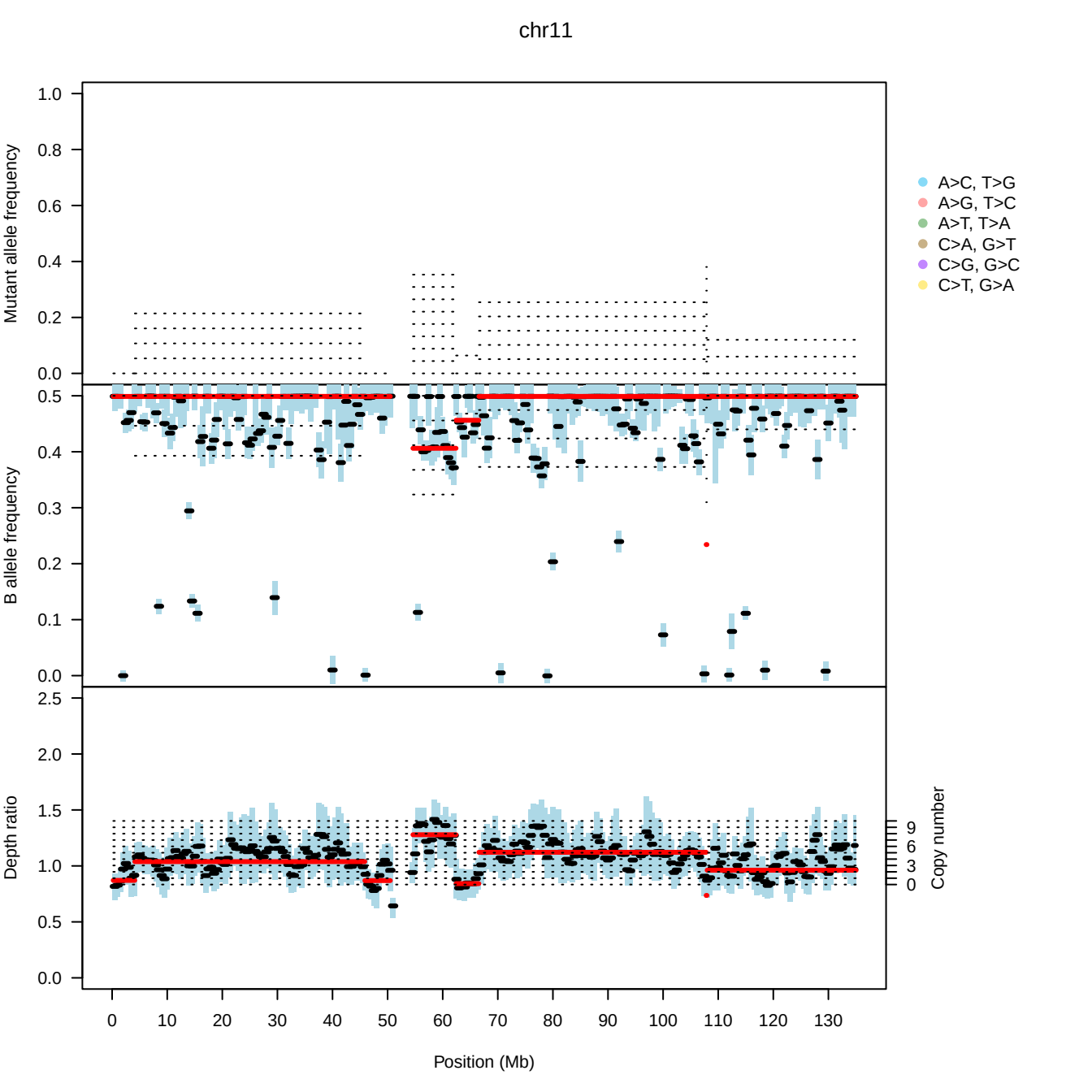

chr6
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
Position (Mb)

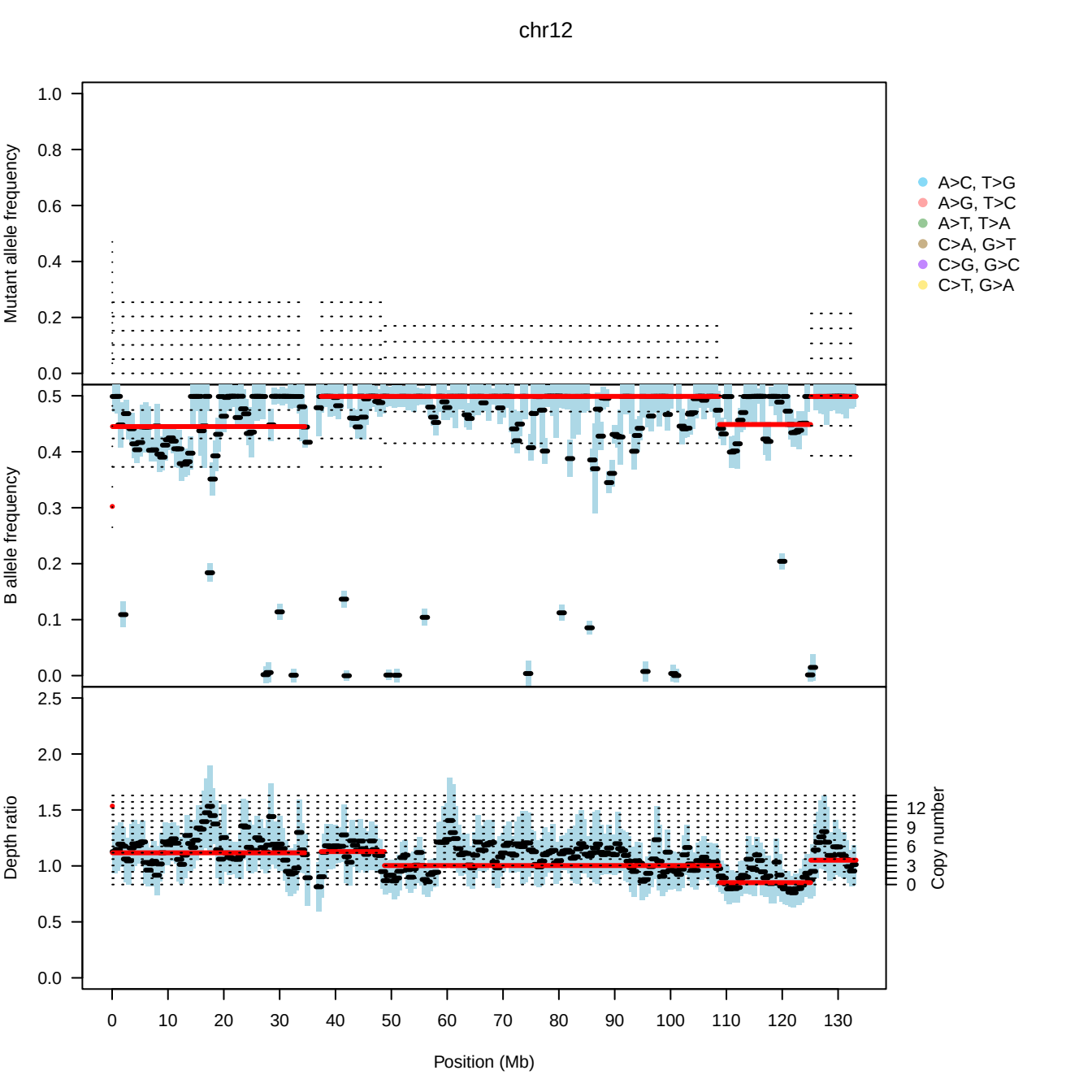

chr7
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
Position (Mb)
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A

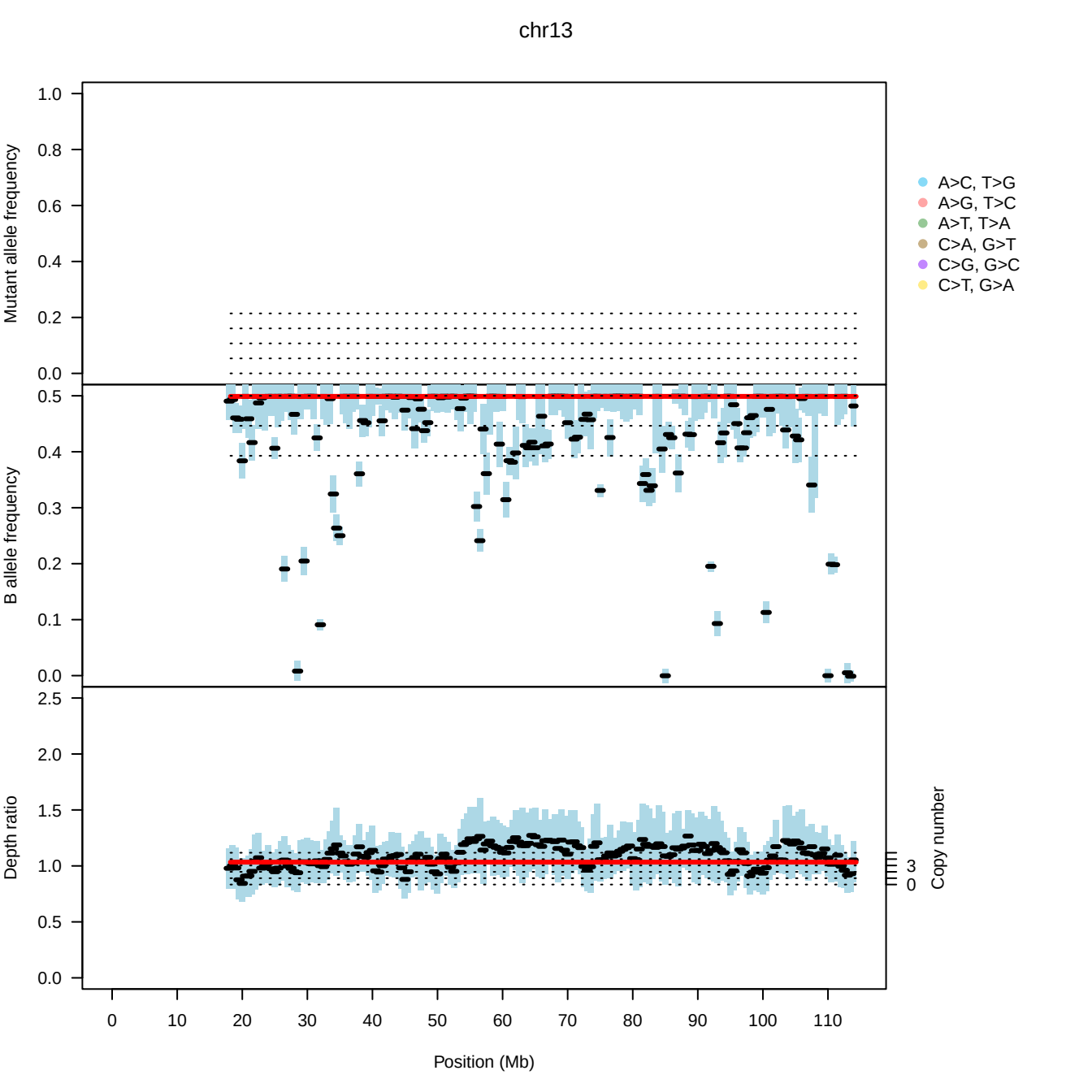

chr8
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
6
3
0
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
Position (Mb)

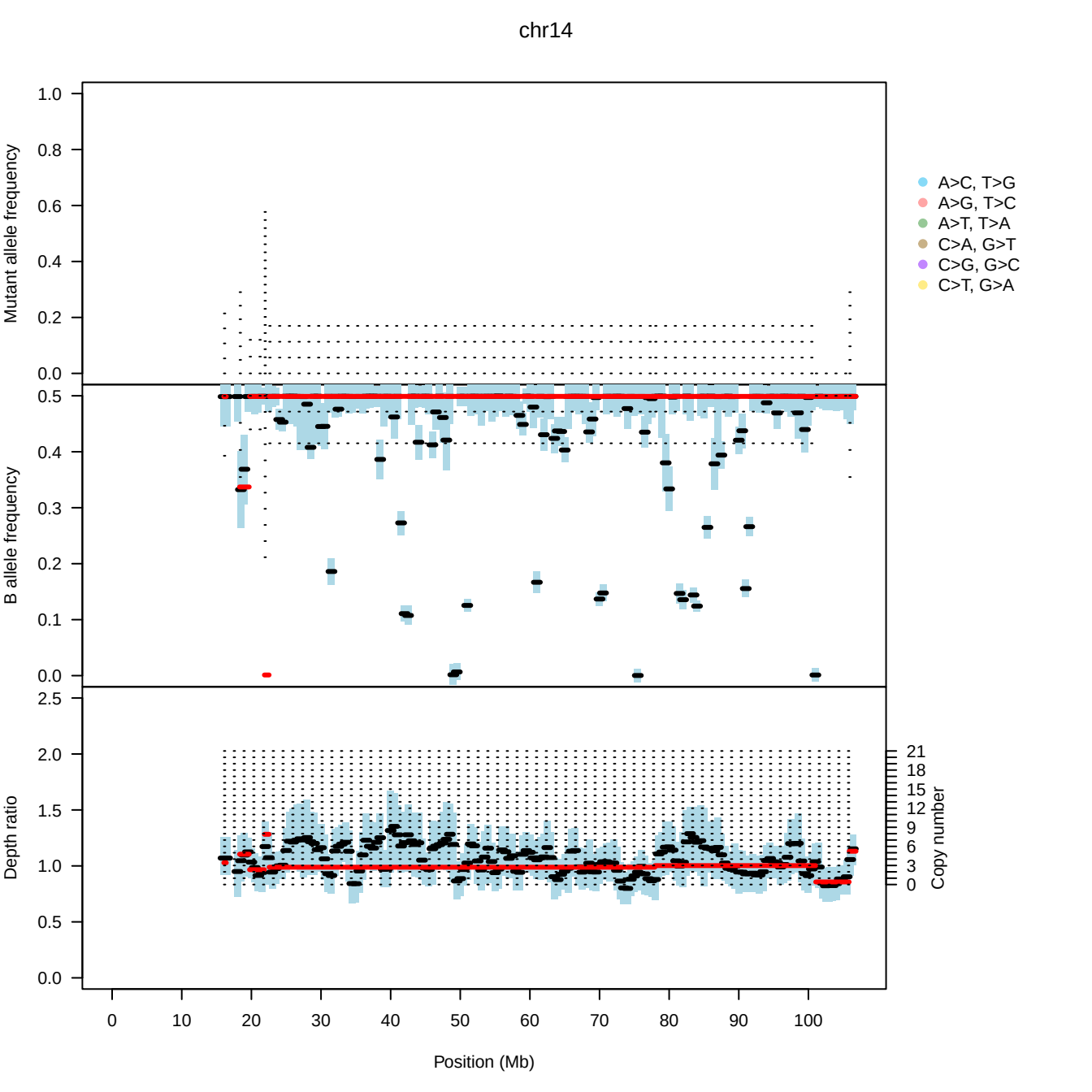

chr9
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
3
0
0
10
20
30
40
50
60
70
80
90
100
110
120
130
Position (Mb)

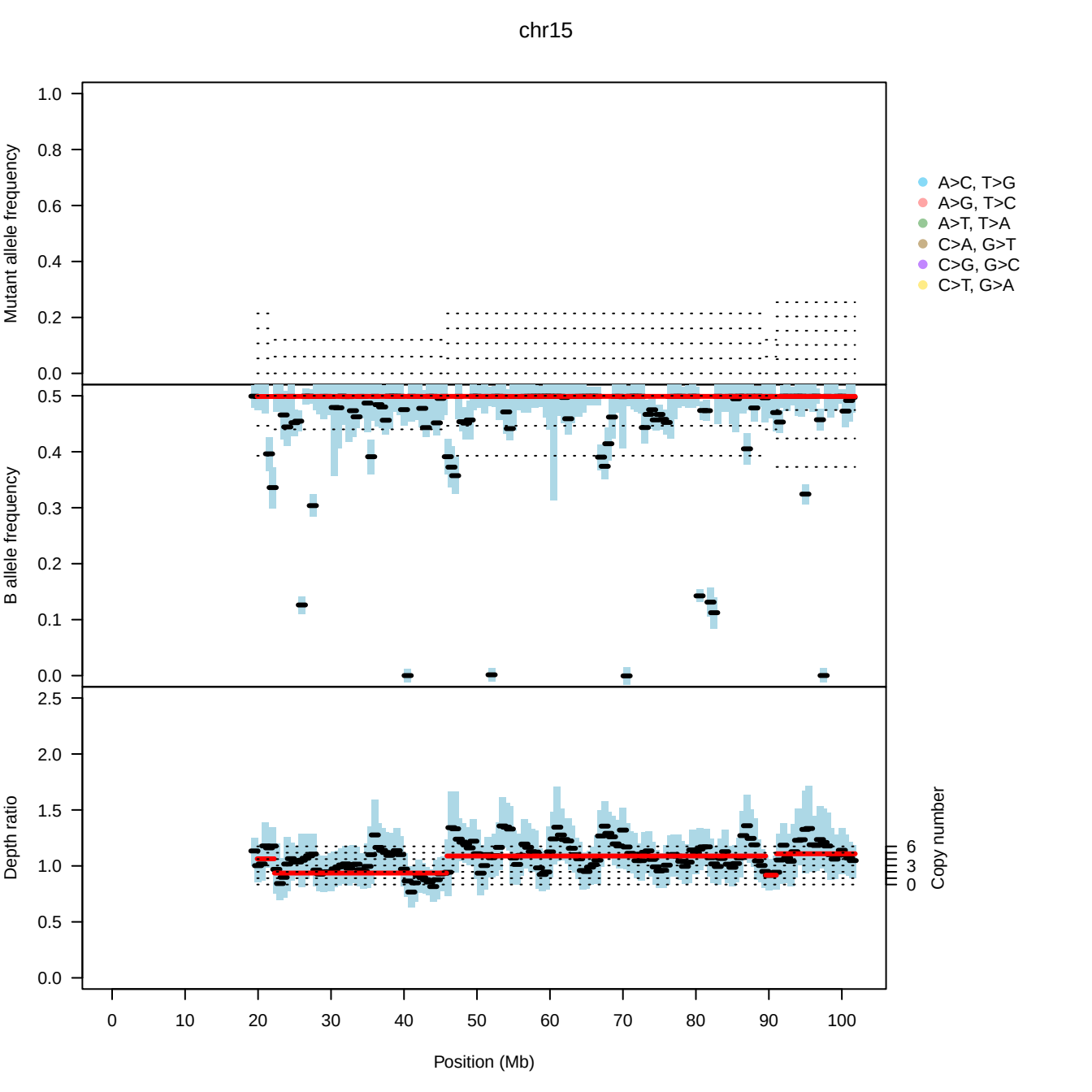

chr10
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
3
0
0
10
20
30
40
50
60
70
80
90
100
110
120
130
Position (Mb)

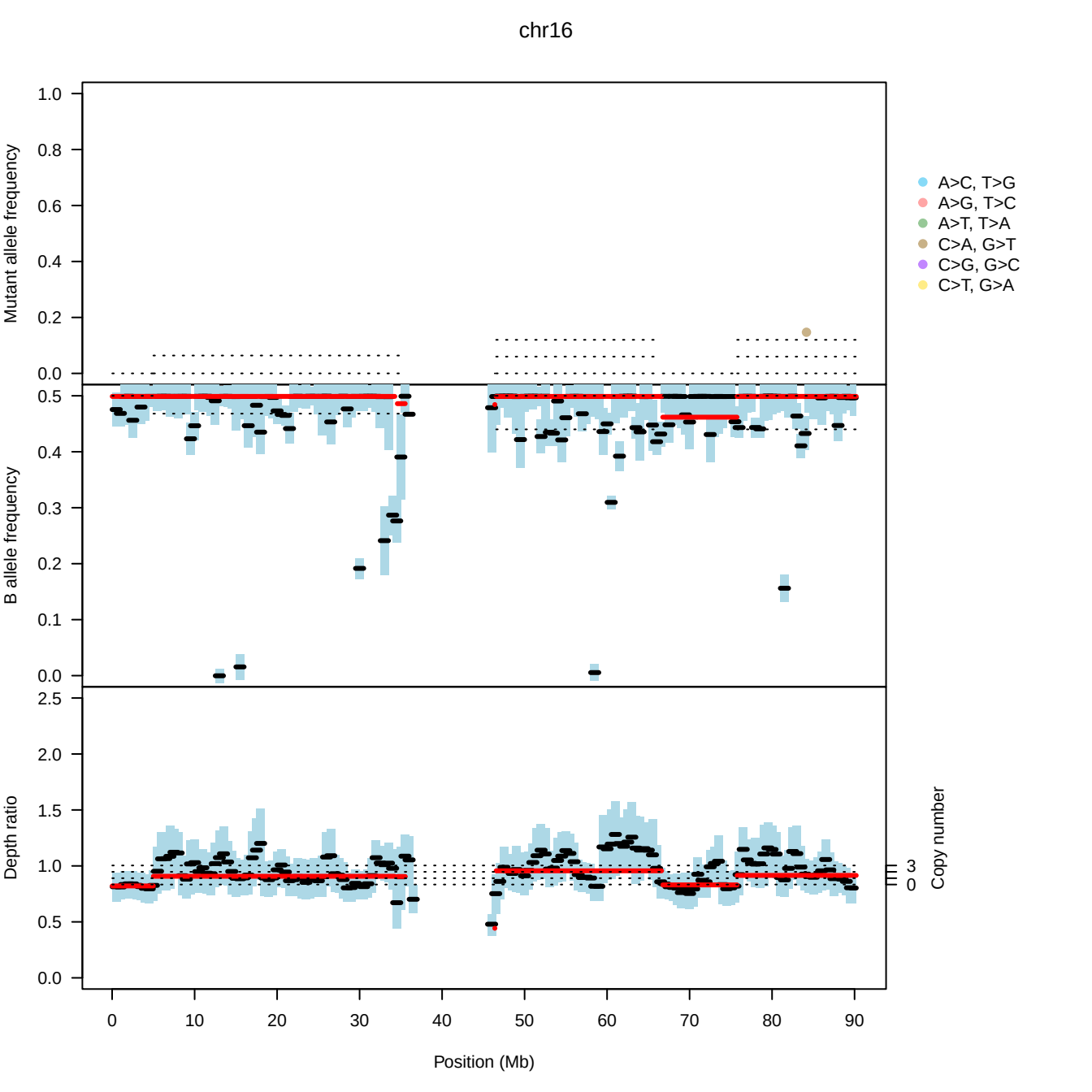

chr11
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
Position (Mb)

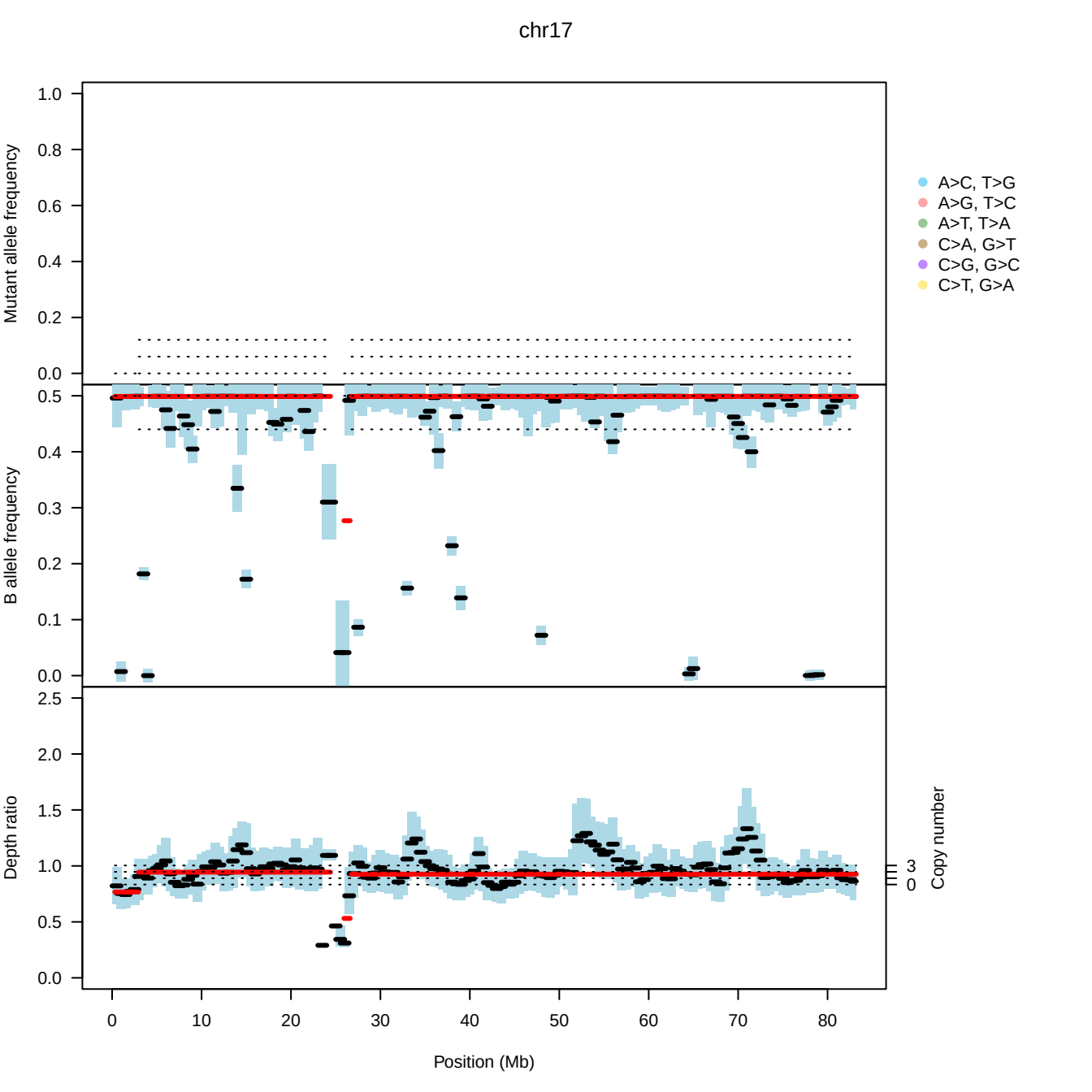

chr12
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
Position (Mb)
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A

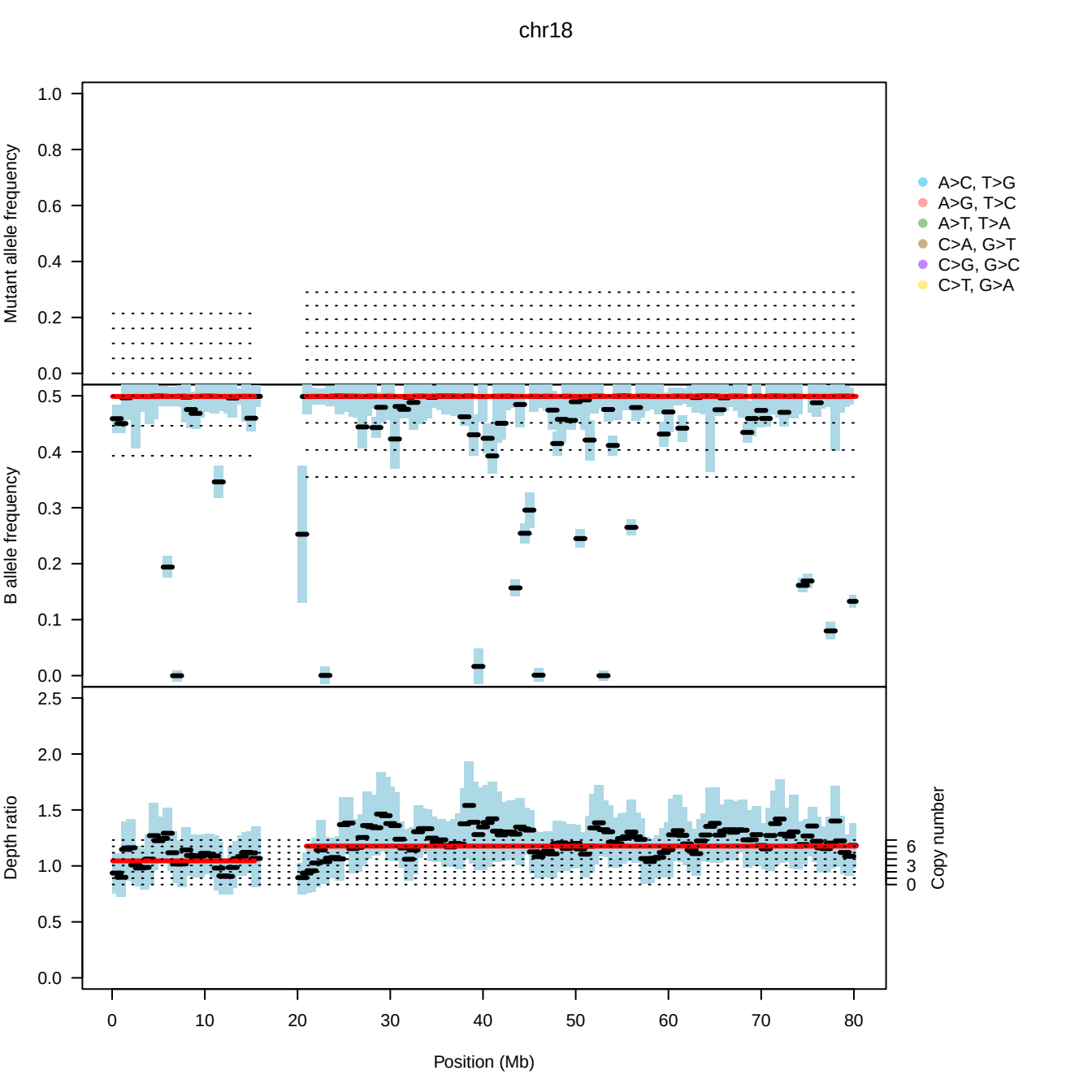

chr13
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
3
0
0
10
20
30
40
50
60
70
80
90
100
110
Position (Mb)

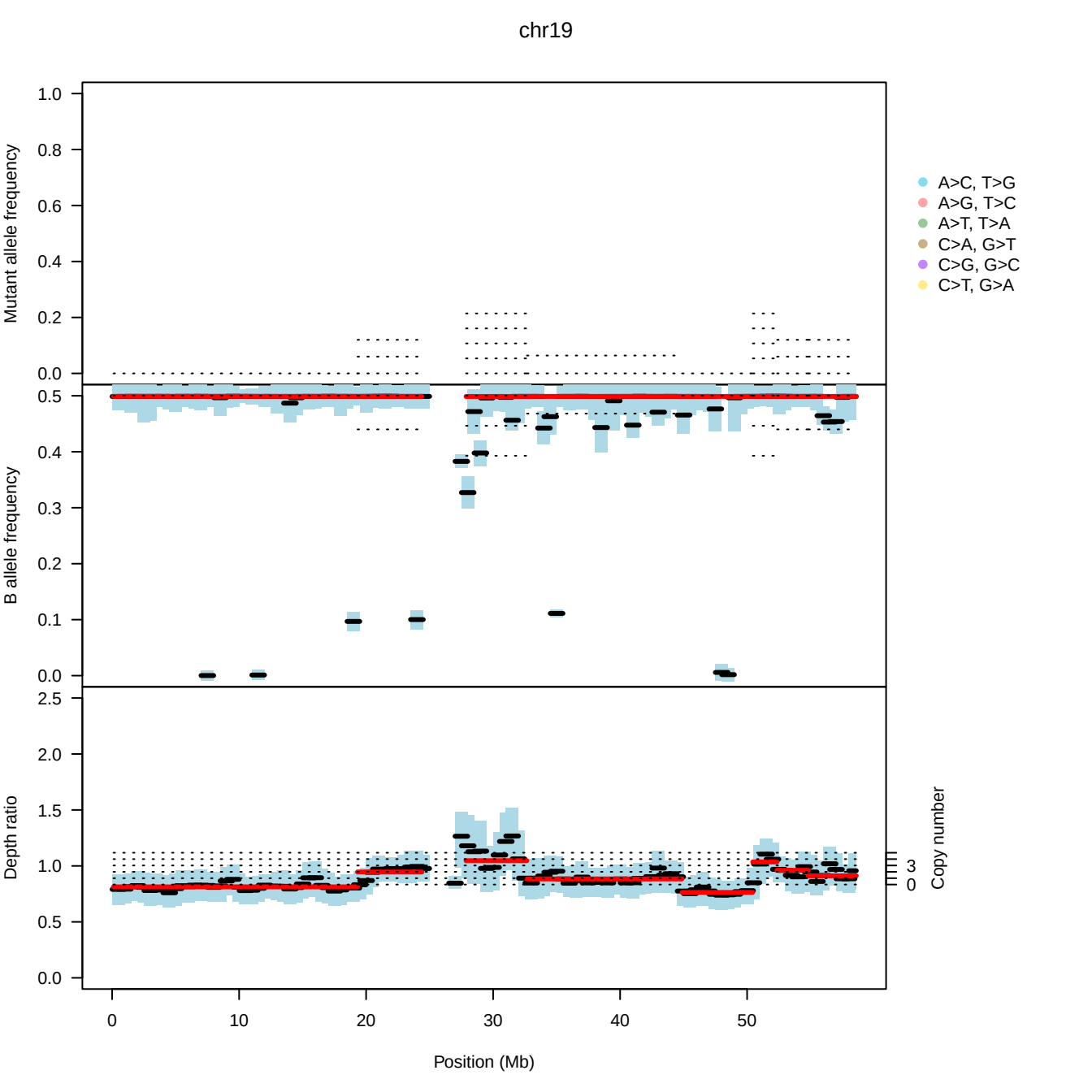

chr14
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
Position (Mb)
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A

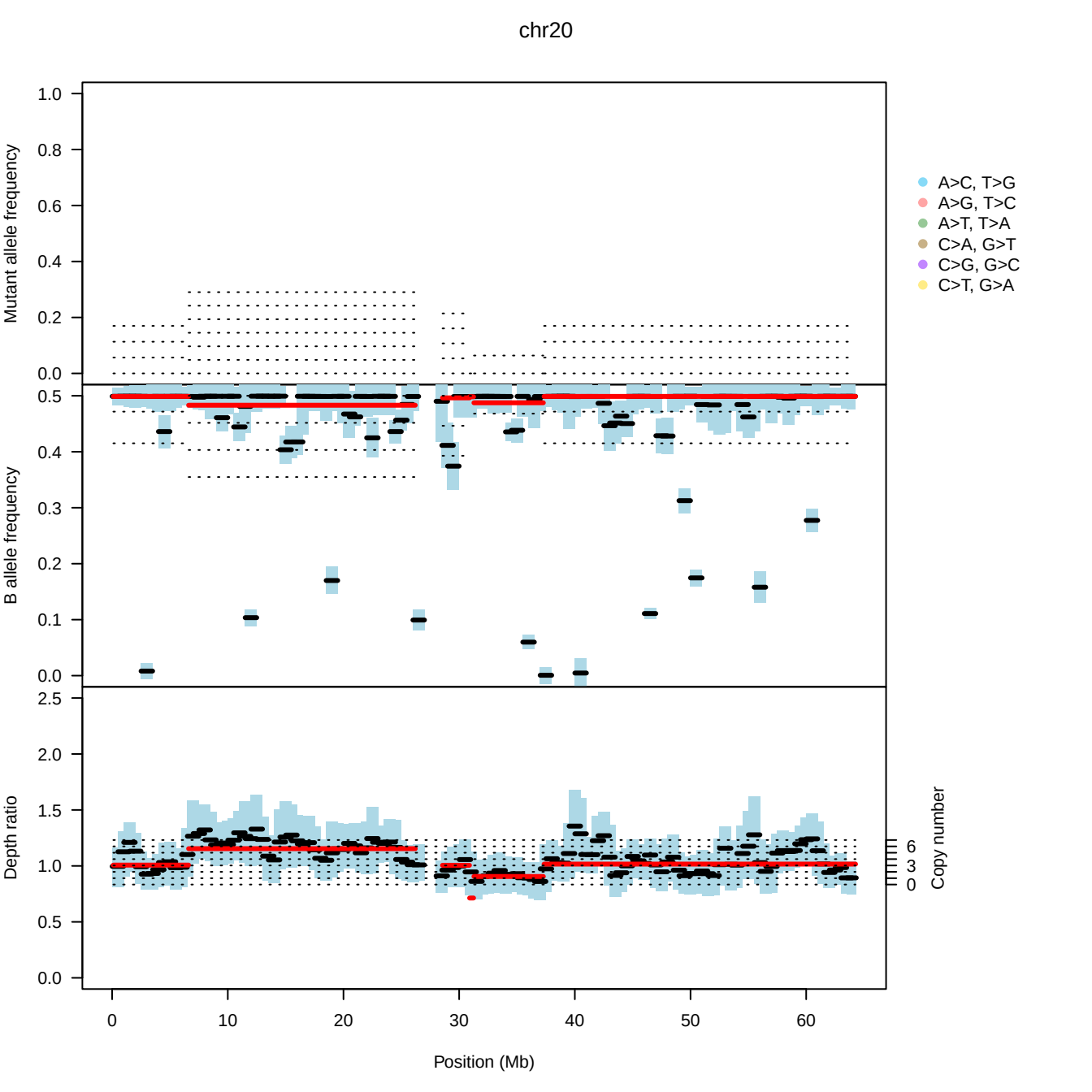

chr15
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
Position (Mb)
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A

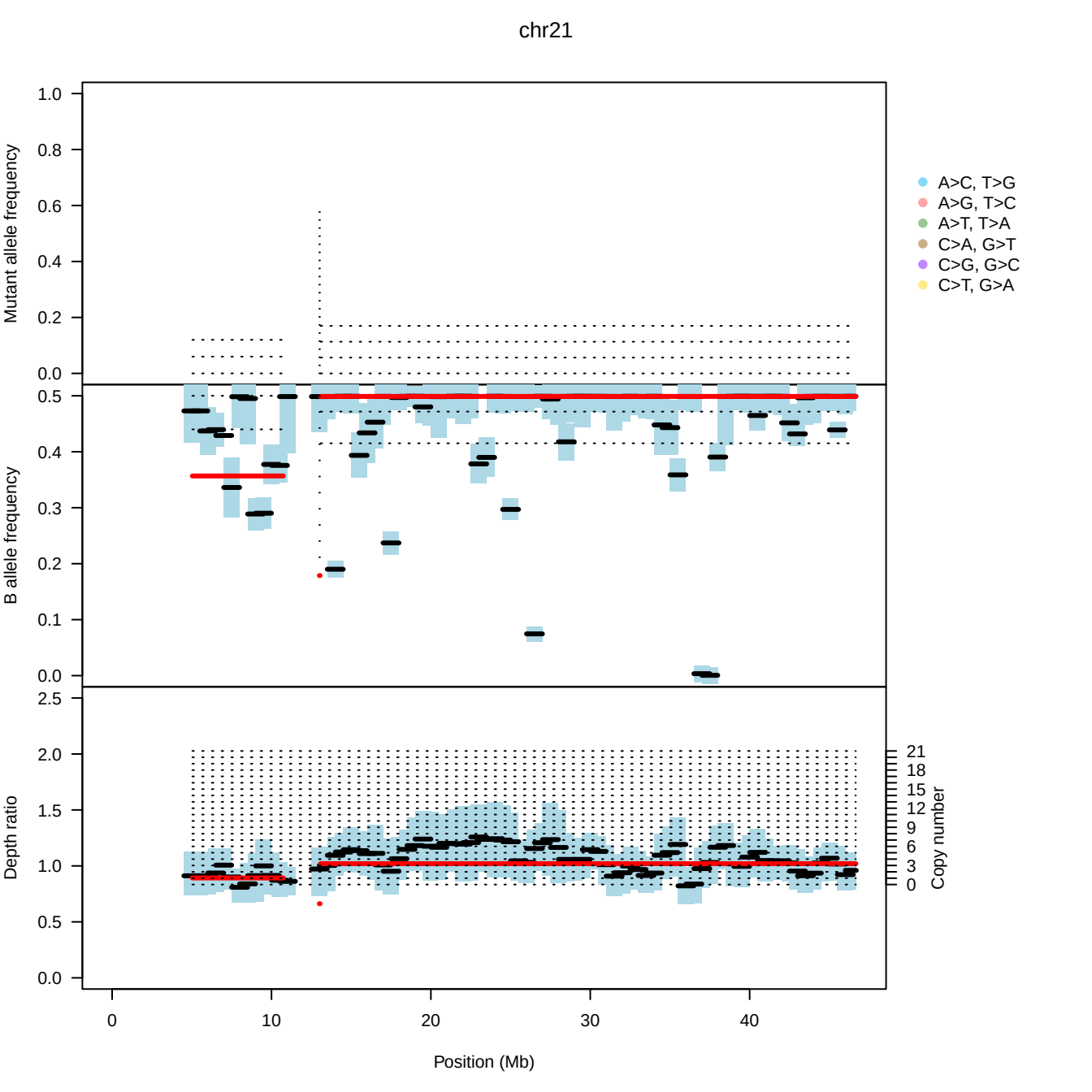

chr16
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
3
0
0
10
20
30
40
50
60
70
80
90
Position (Mb)

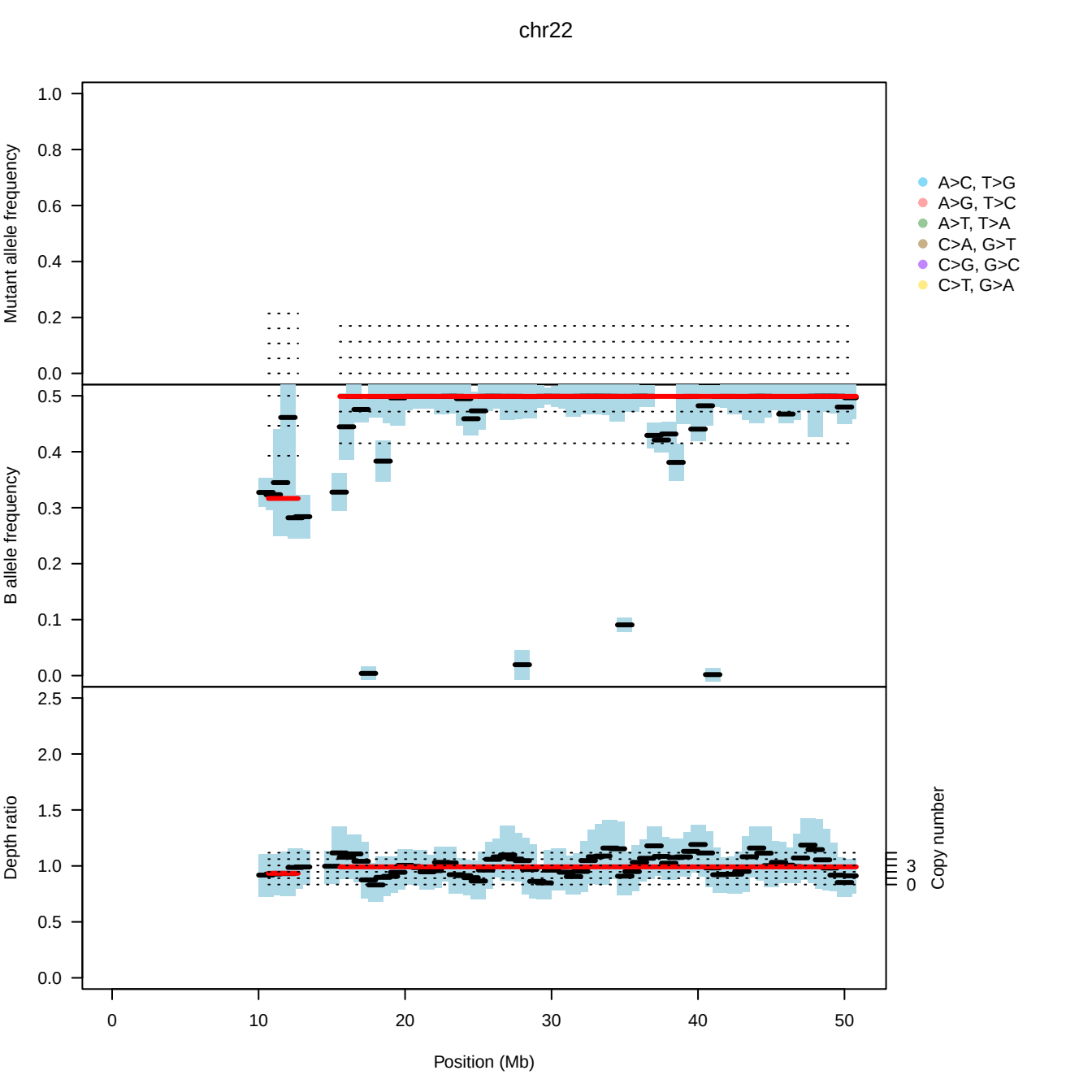

chr17
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
3
0
Copy number
0
10
20
30
40
50
60
70
80
Position (Mb)

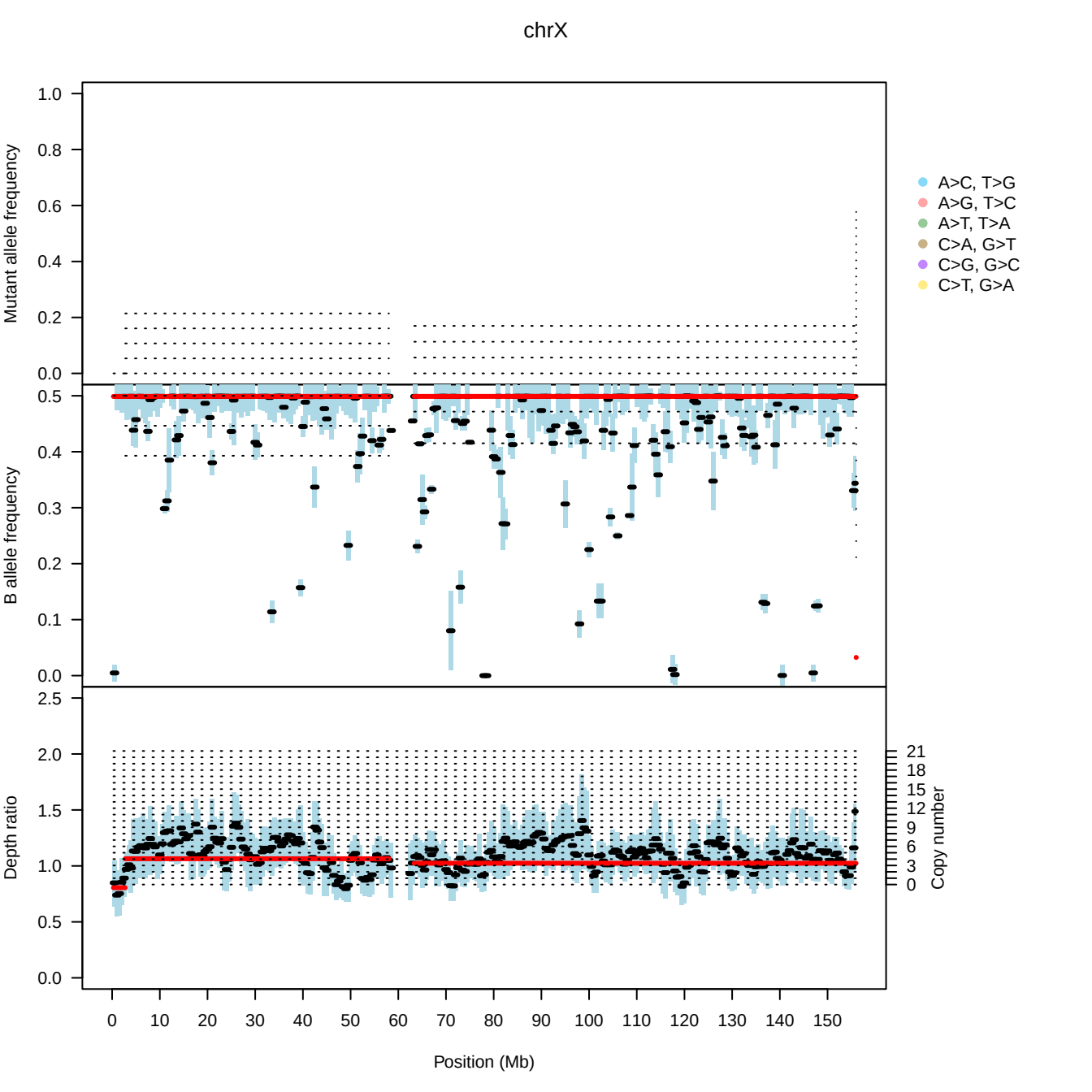

chr18
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
Position (Mb)

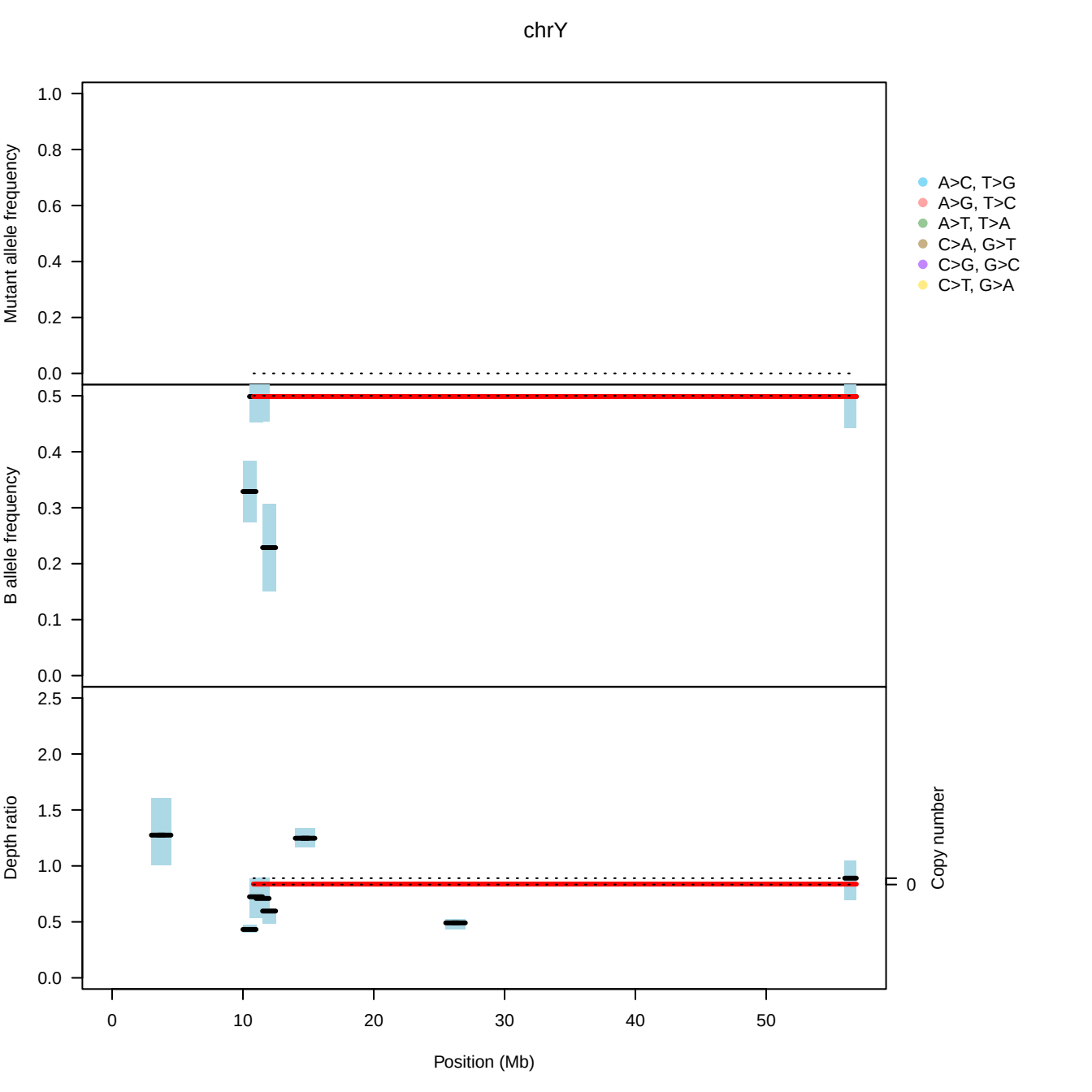

chr19
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
3
0
0
10
20
30
40
50
Position (Mb)


chr20
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
Position (Mb)


chr21
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
21
18
15
12
9
6
3
0
Copy number
0
10
20
30
40
Position (Mb)


chr22
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
3
0
Copy number
0
10
20
30
40
50
Position (Mb)


chrX
Mutant allele frequency
B allele frequency
Depth ratio
Copy number
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
Position (Mb)


chrY
Mutant allele frequency
1.0
0.8
0.6
0.4
0.2
0.0
A>C, T>G
A>G, T>C
A>T, T>A
C>A, G>T
C>G, G>C
C>T, G>A
B allele frequency
0.5
0.4
0.3
0.2
0.1
0.0
Depth ratio
2.5
2.0
1.5
1.0
0.5
0.0
Copy number
0
0
10
20
30
40
50
Position (Mb)