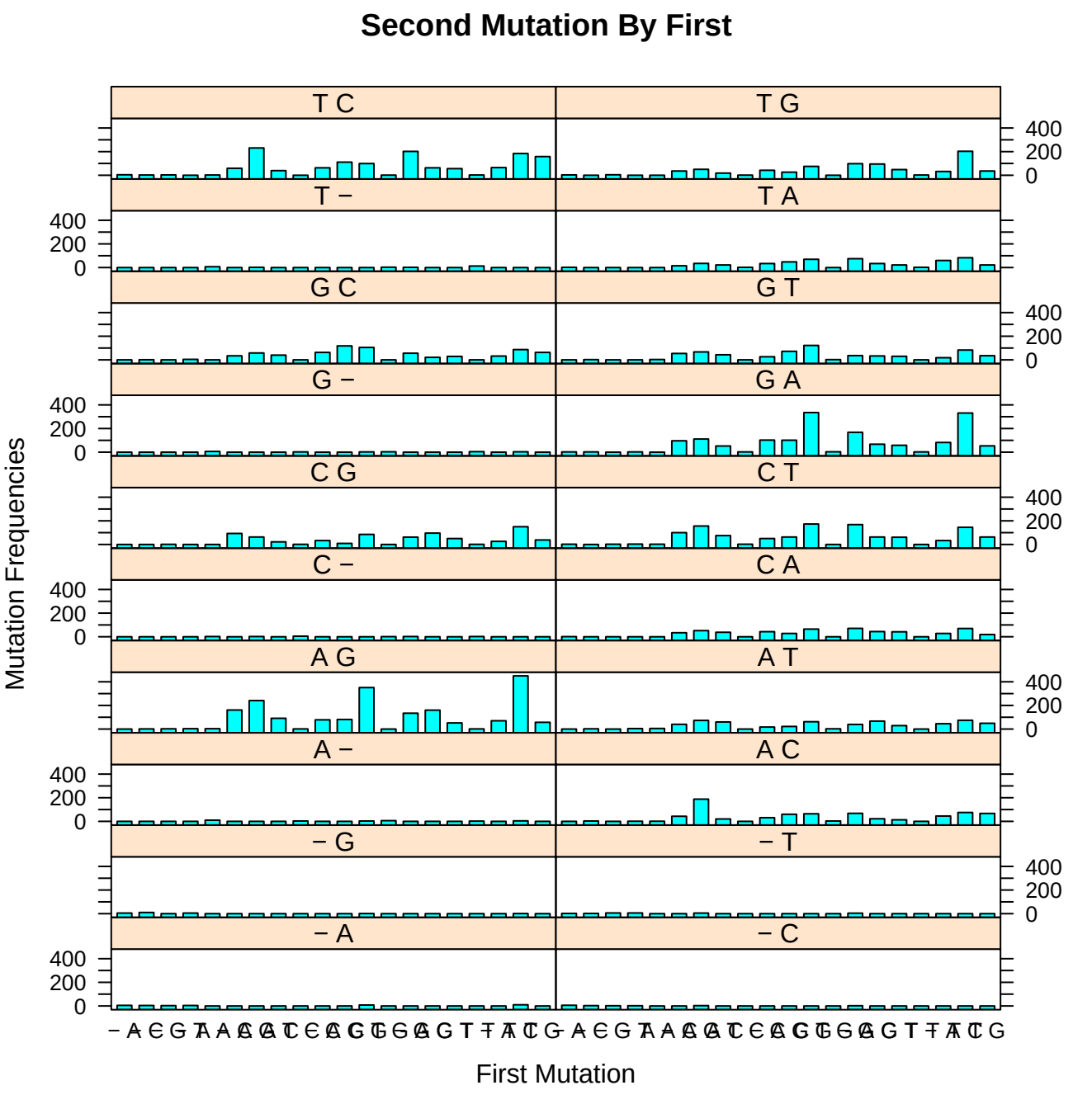
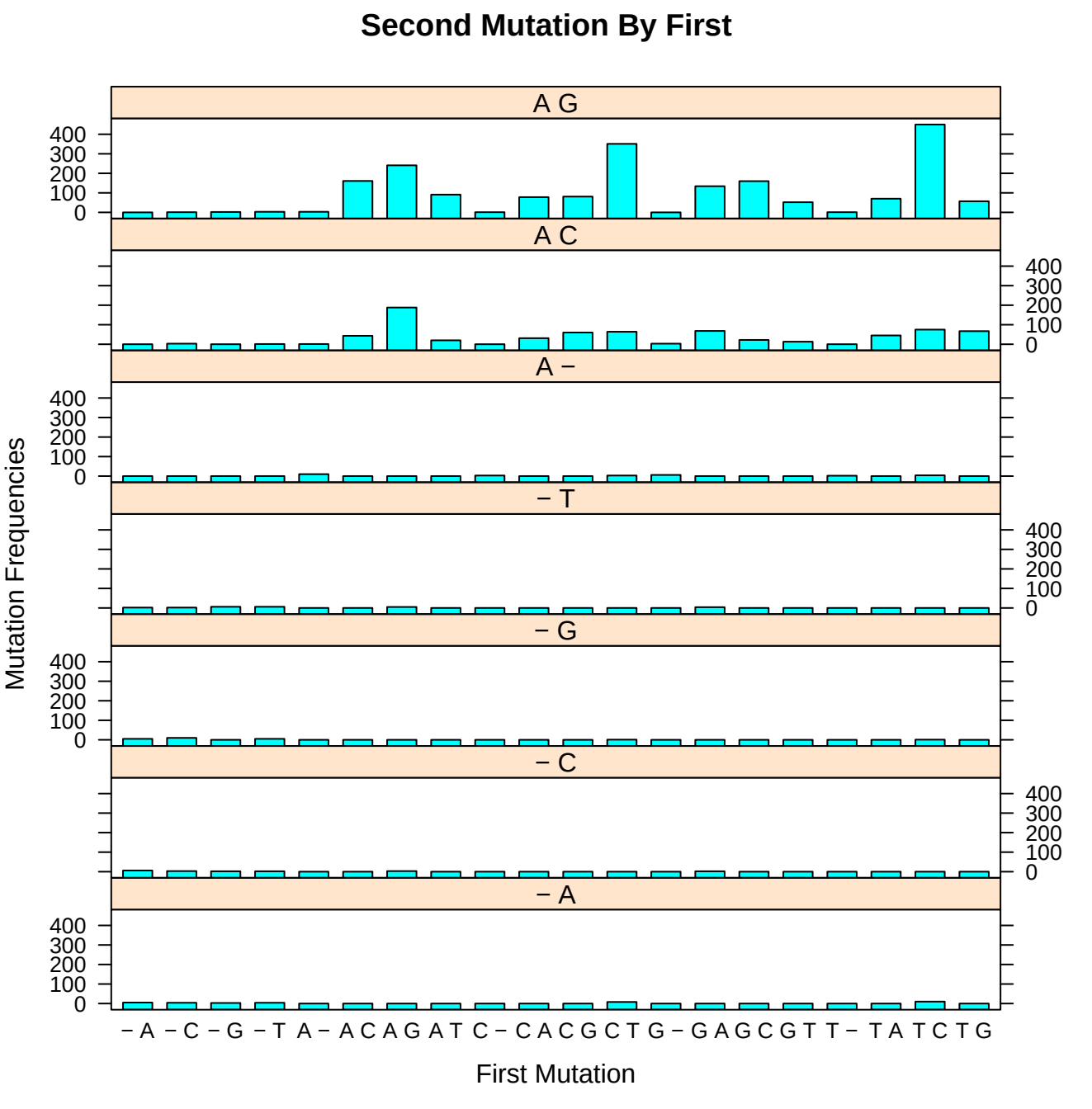
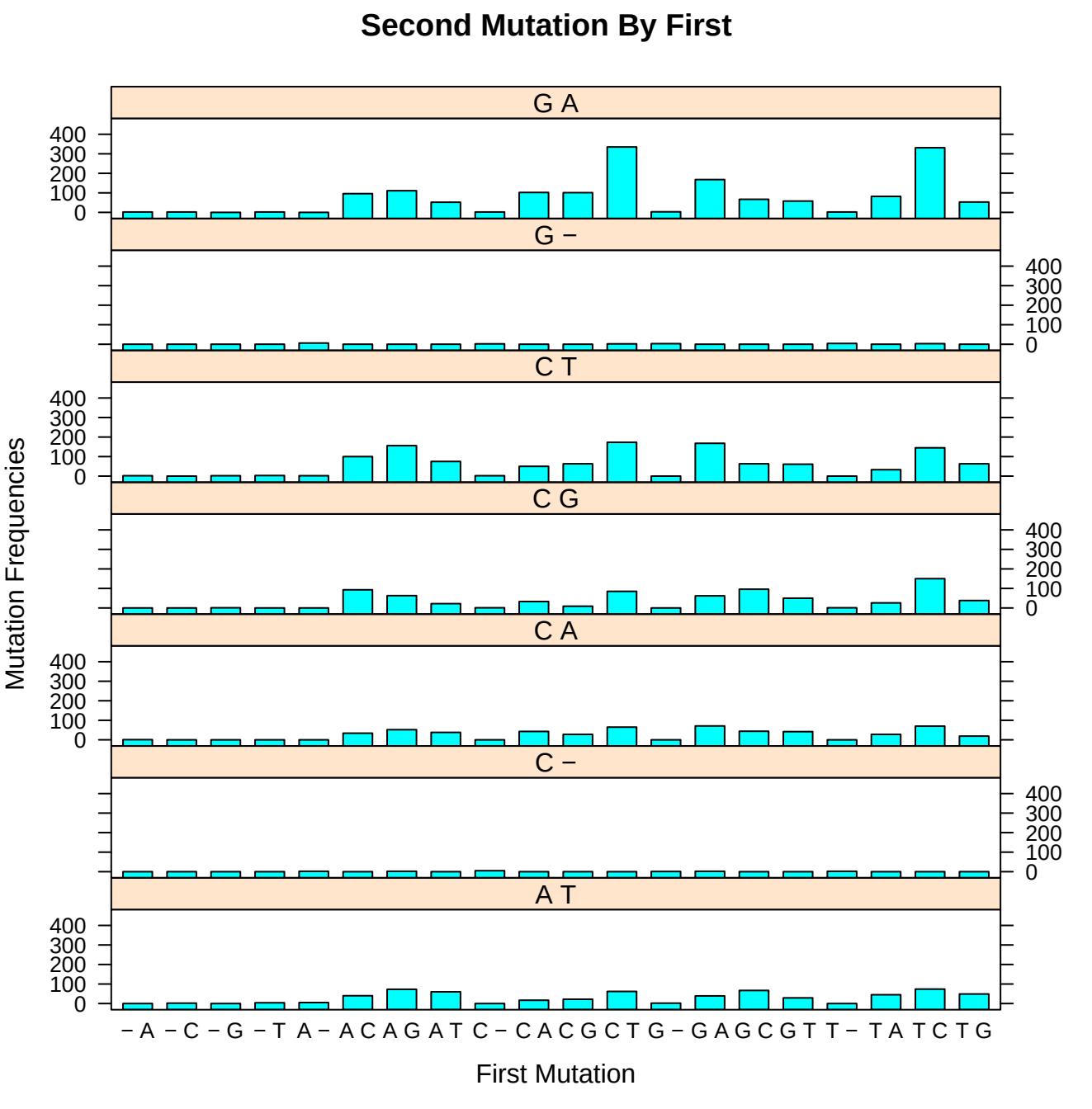
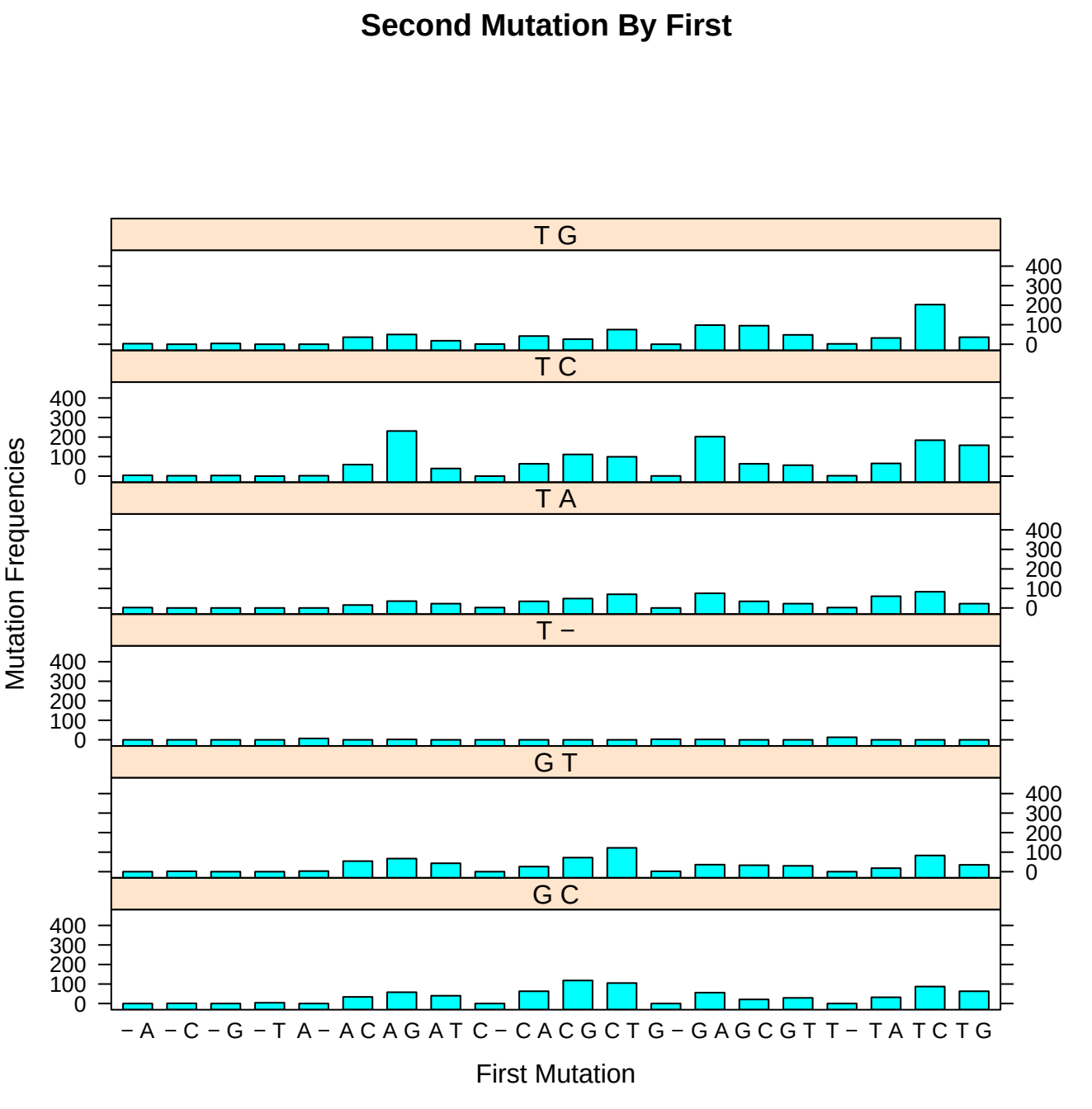
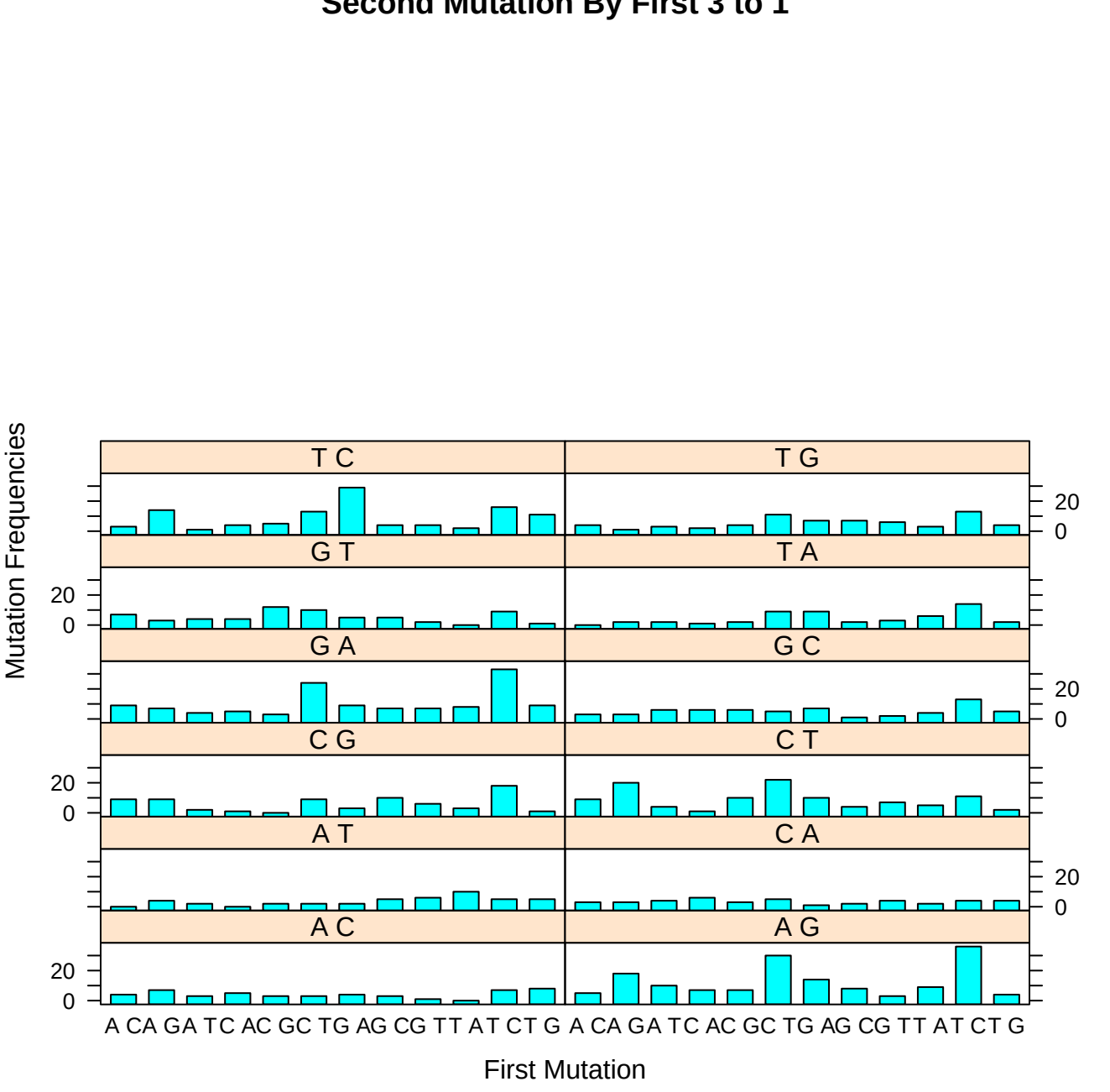
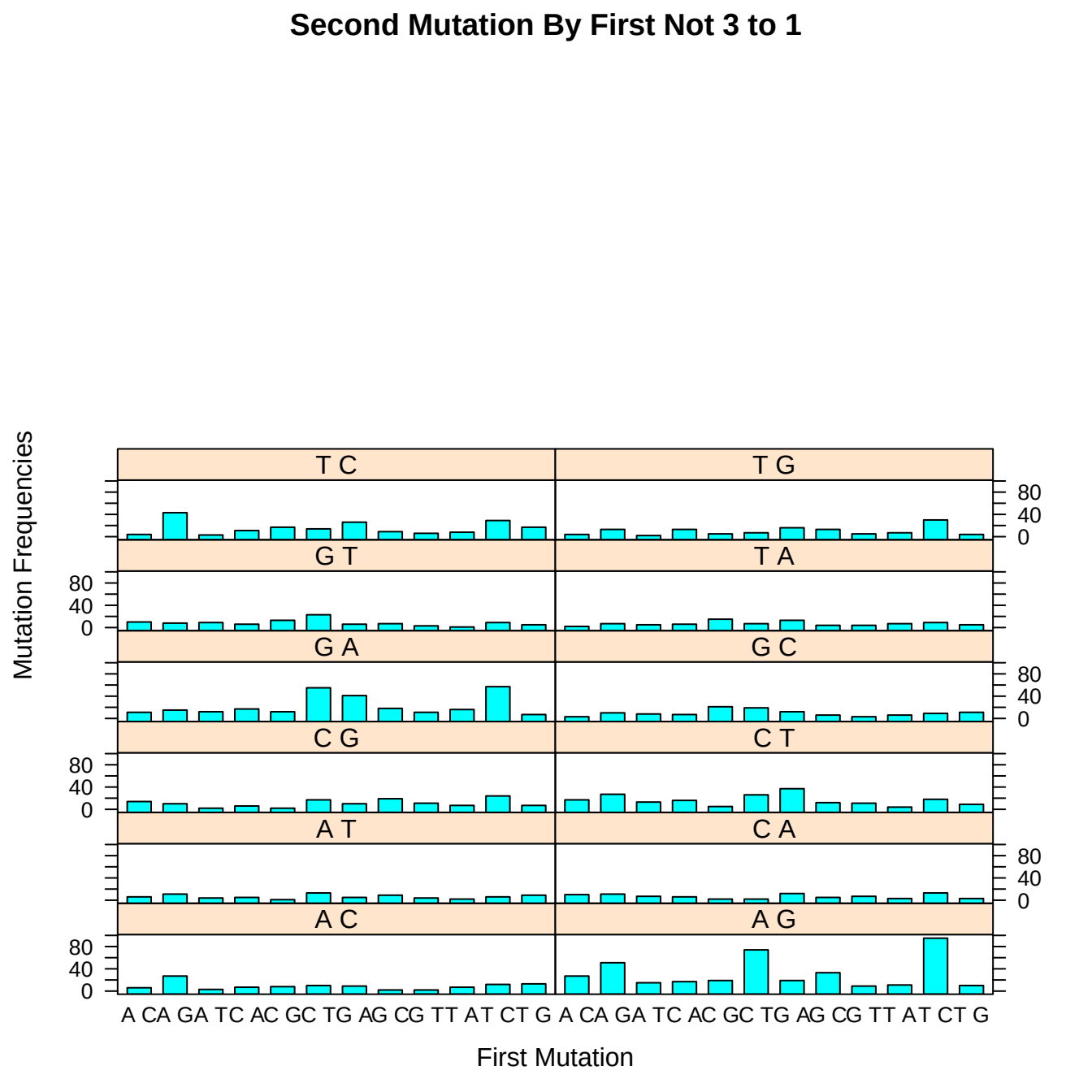

Second Mutation By First
T C
T G
T −
T A
G C
G T
G −
G A
C G
C T
C −
C A
A G
A T
A −
A C
− G
− T
− A
− C
400
200
0
Mutation Frequencies
First Mutation

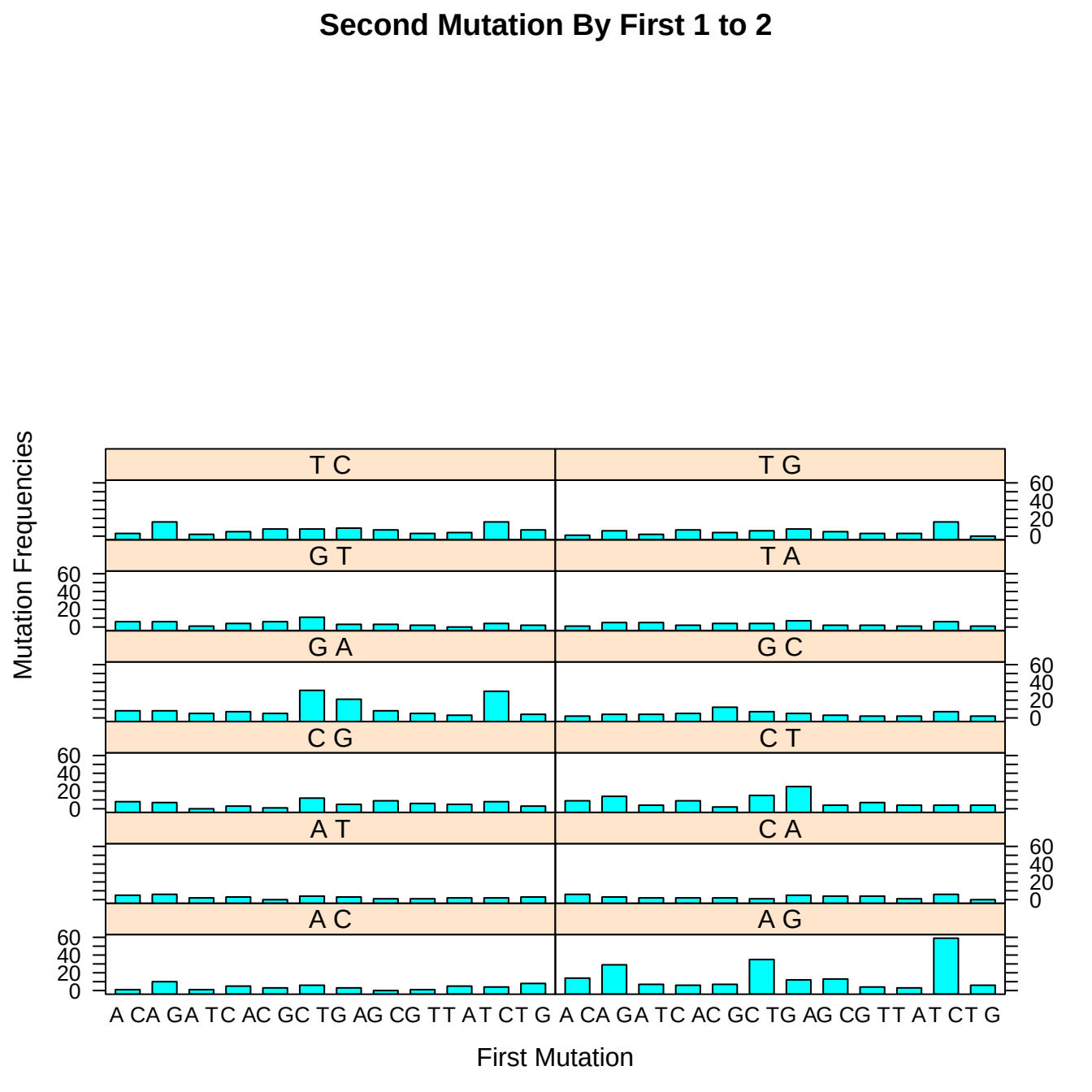

Second Mutation By First
A G
A C
A −
− T
− G
− C
− A
0
100
200
300
400
Mutation Frequencies
− A − C − G − T A − A C A G A T C − C A C G C T G − G A G C G T T − T A T C T G
First Mutation

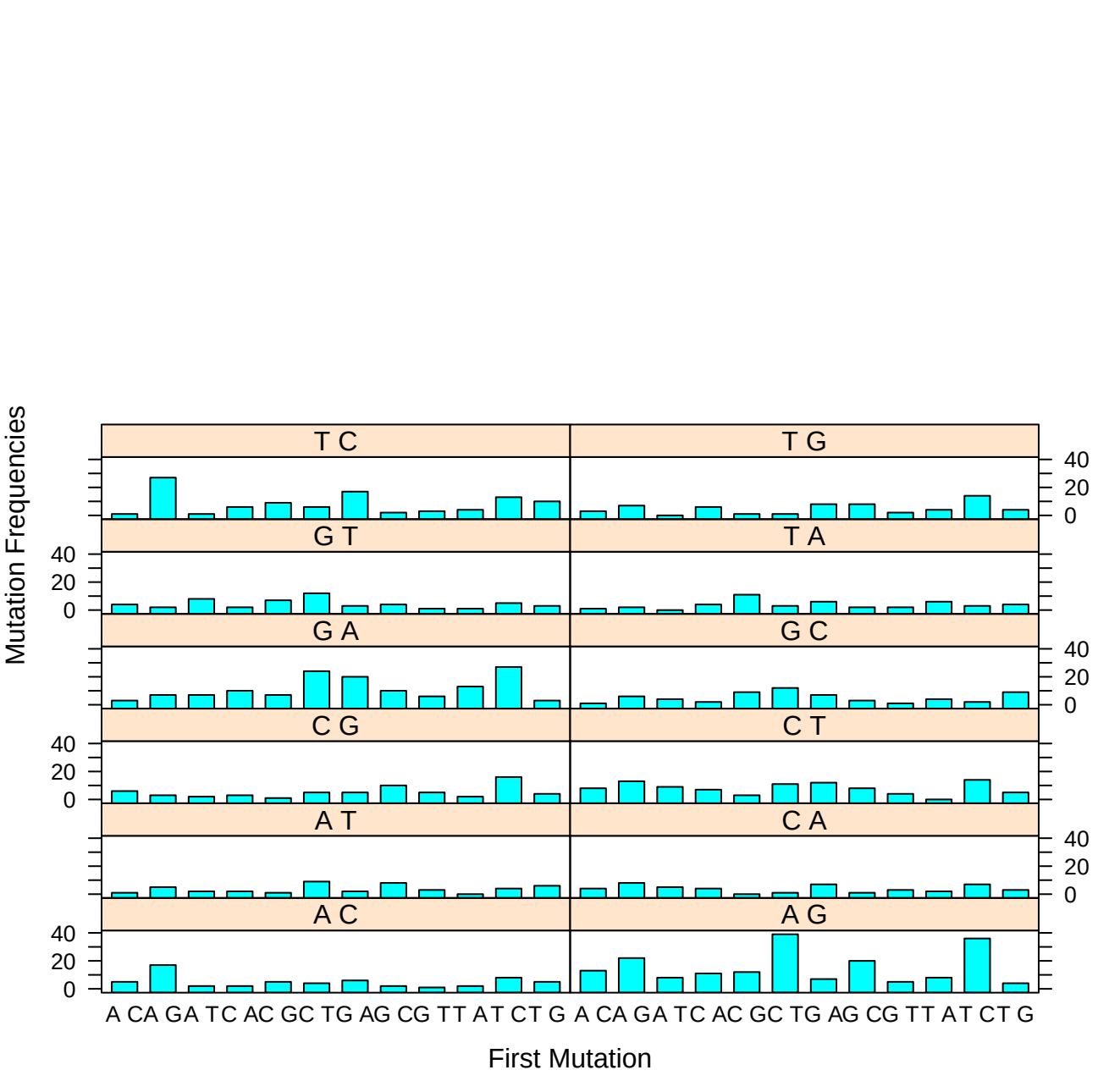

Second Mutation By First
G A
G −
C T
C G
C A
C −
A T
Mutation Frequencies
0
100
200
300
400
− A − C − G − T A − A C A G A T C − C A C G C T G − G A G C G T T − T A T C T G
First Mutation

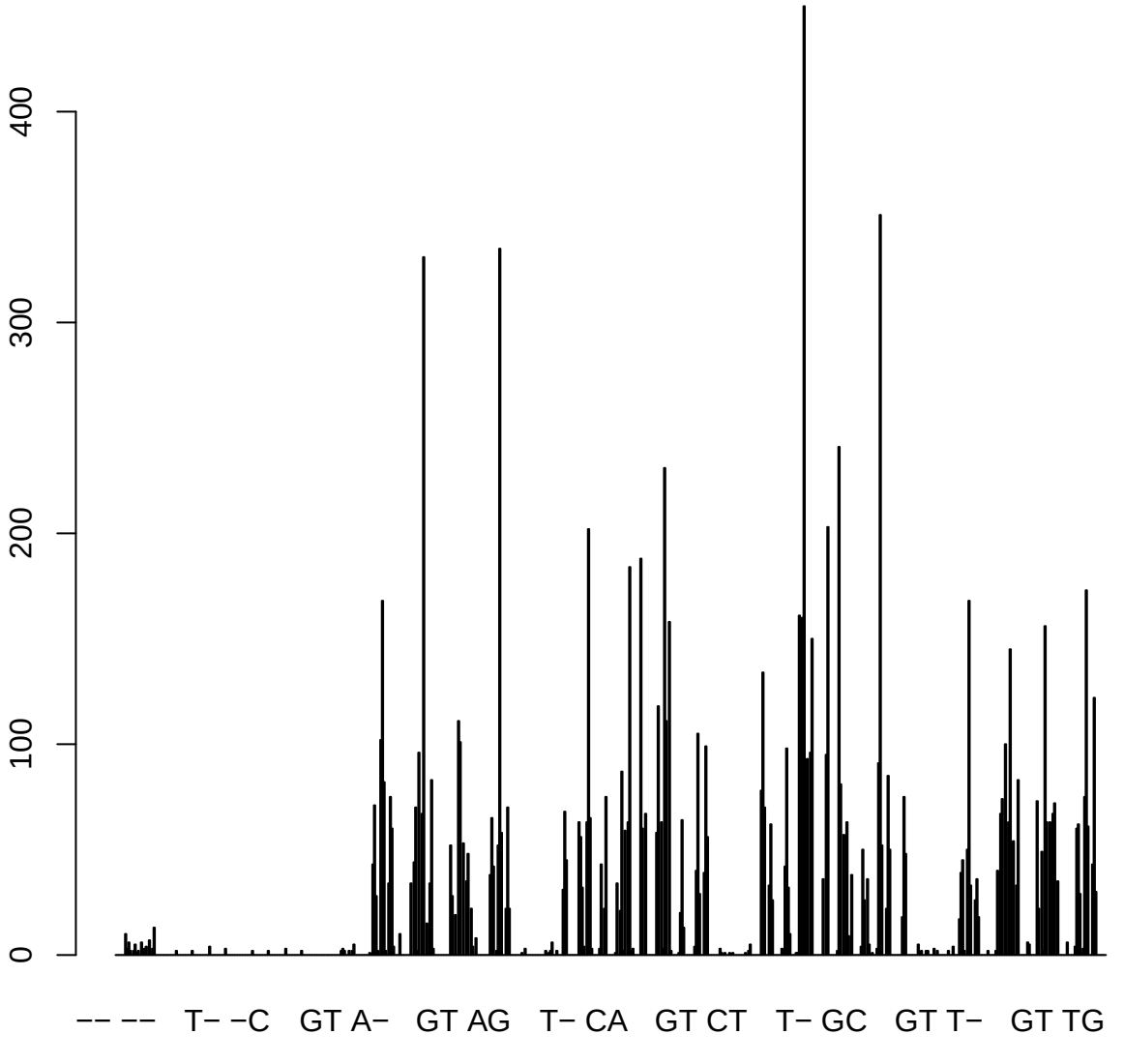

Second Mutation By First
T G
T C
T A
T −
G T
G C
Mutation Frequencies
0
100
200
300
400
− A − C − G − T A − A C A G A T C − C A C G C T G − G A G C G T T − T A T C T G
First Mutation


Second Mutation By First 3 to 1
Mutation Frequencies
T C
T G
G T
T A
G A
G C
C G
C T
A T
C A
A C
A G
20
0
A CA GA TC AC GC TG AG CG TT AT CT G
First Mutation


Second Mutation By First Not 3 to 1
Mutation Frequencies
T C
T G
G T
T A
G A
G C
C G
C T
A T
C A
A C
A G
80
40
0
A CA GA TC AC GC TG AG CG TT AT CT G
First Mutation


Second Mutation By First 1 to 2
Mutation Frequencies
T C
T G
G T
T A
G A
G C
C G
C T
A T
C A
A C
A G
0
20
40
60
A CA GA TC AC GC TG AG CG TT AT CT G
First Mutation


Second Mutation By First 2 to 3
Mutation Frequencies
T C
T G
G T
T A
G A
G C
C G
C T
A T
C A
A C
A G
0
20
40
A CA GA TC AC GC TG AG CG TT AT CT G
First Mutation


0
100
200
300
400
−− −− T− −C GT A− GT AG T− CA GT CT T− GC GT T− GT TG