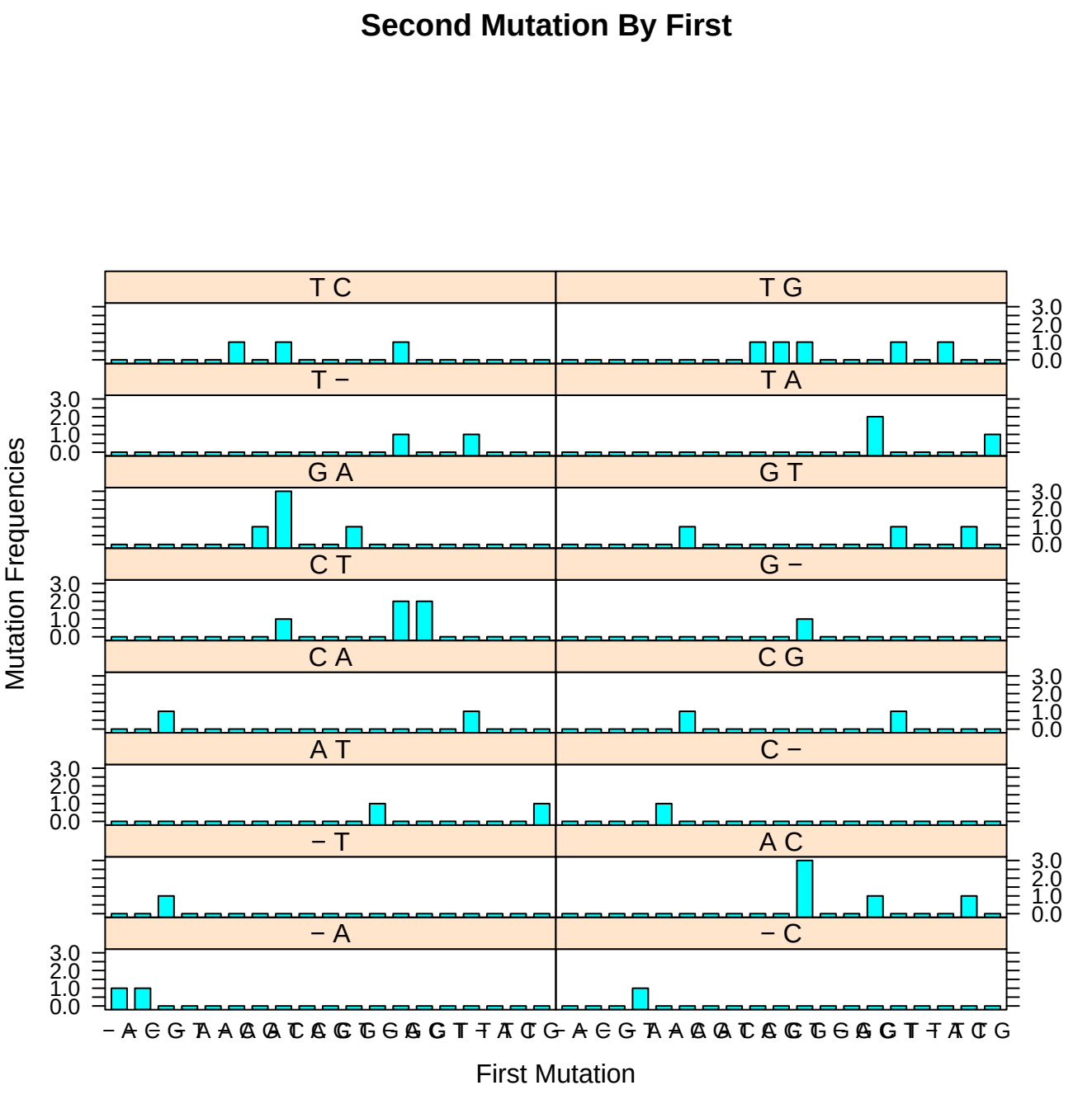
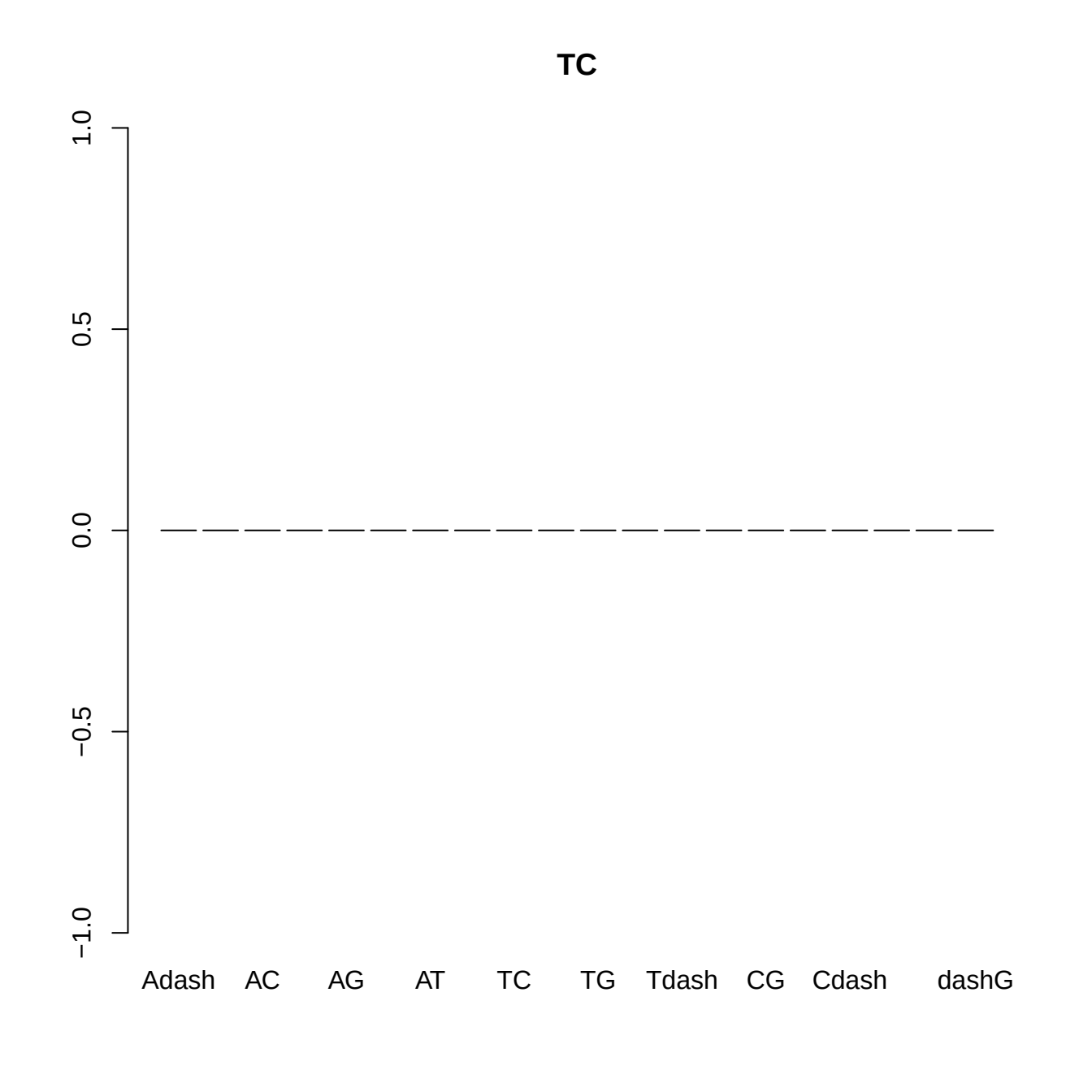

Second Mutation By First
T C
T G
T −
T A
G A
G T
C T
G −
C A
C G
A T
C −
− T
A C
− A
− C
Mutation Frequencies
0.0
1.0
2.0
3.0
First Mutation


TC
1.0
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0.0
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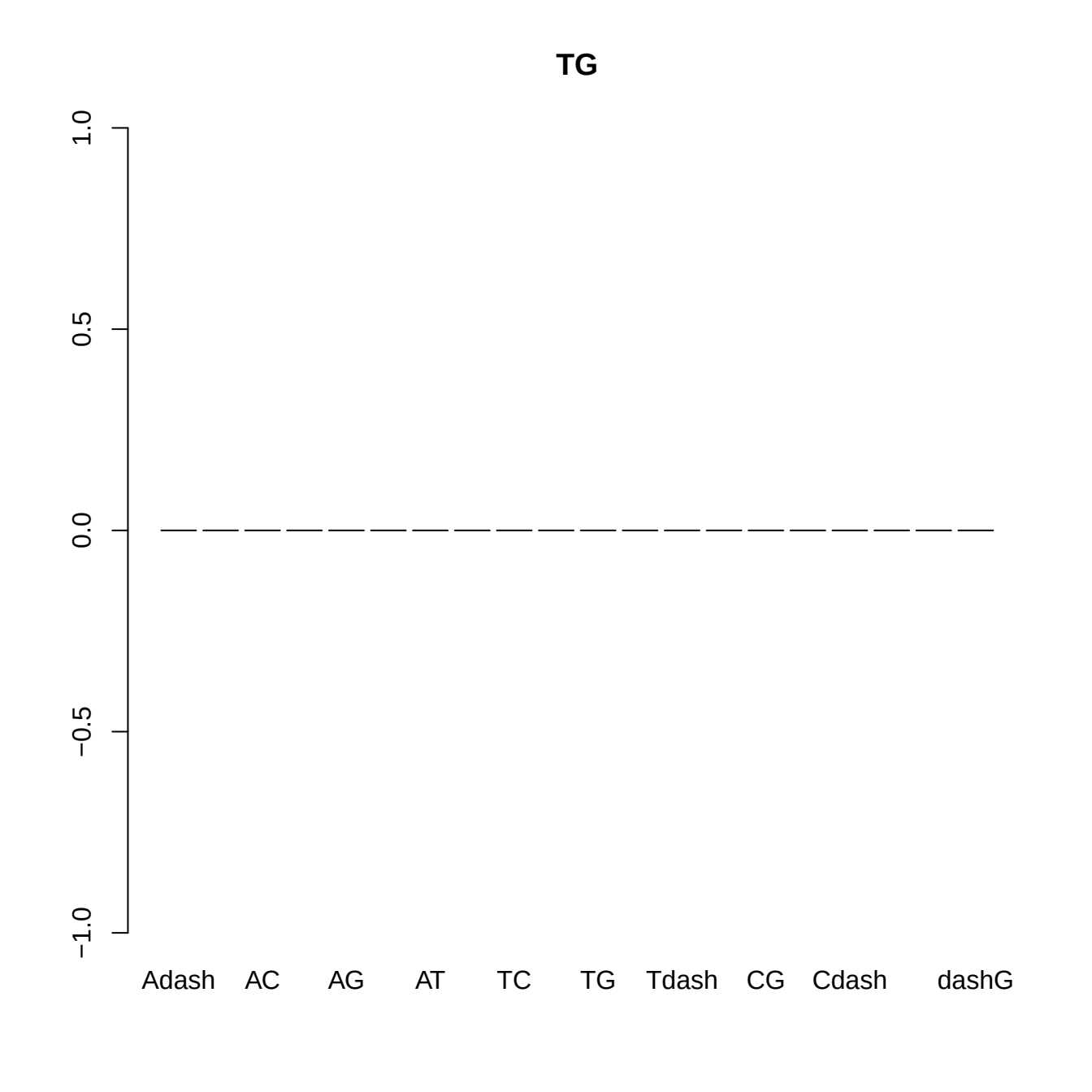
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


TG
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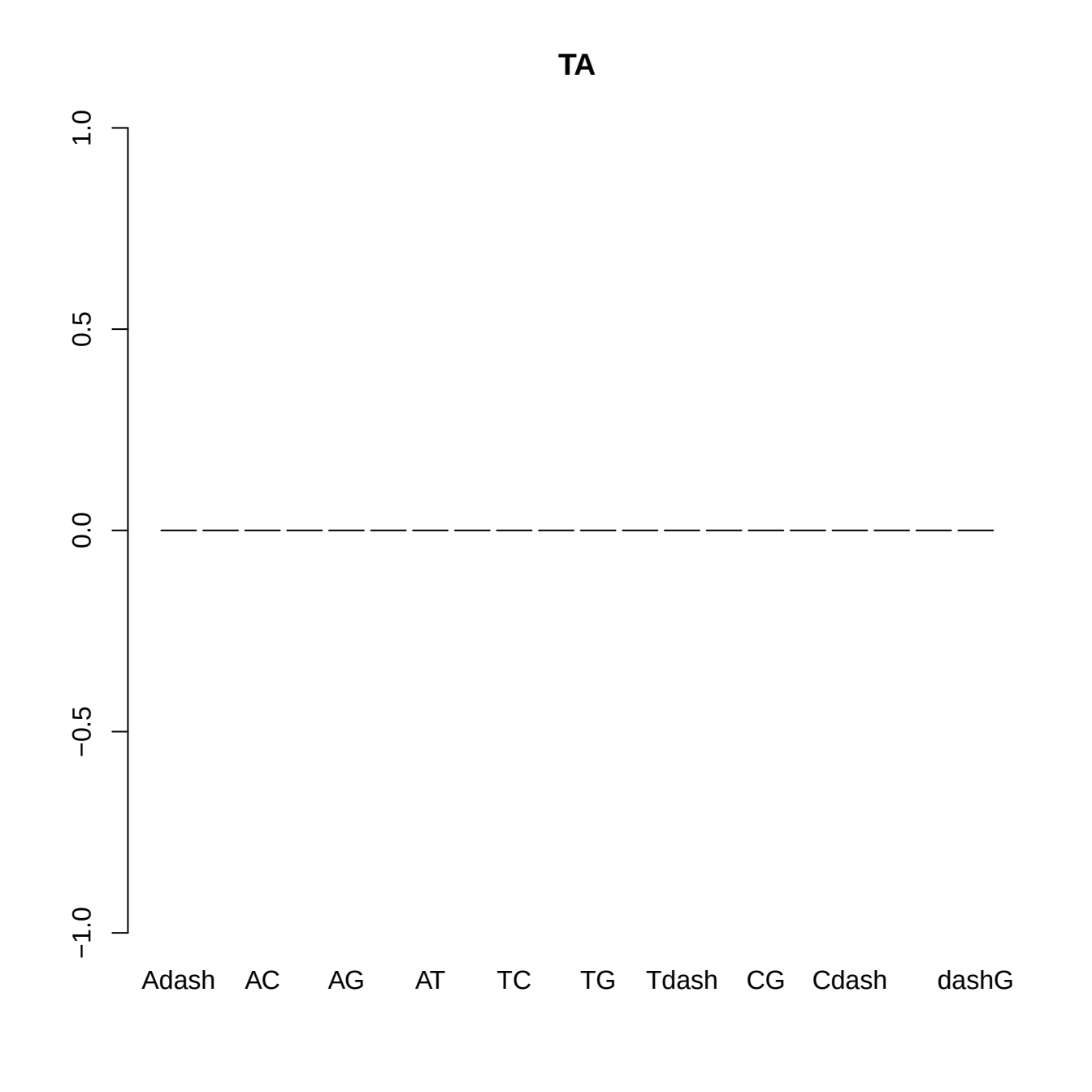
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


TA
1.0
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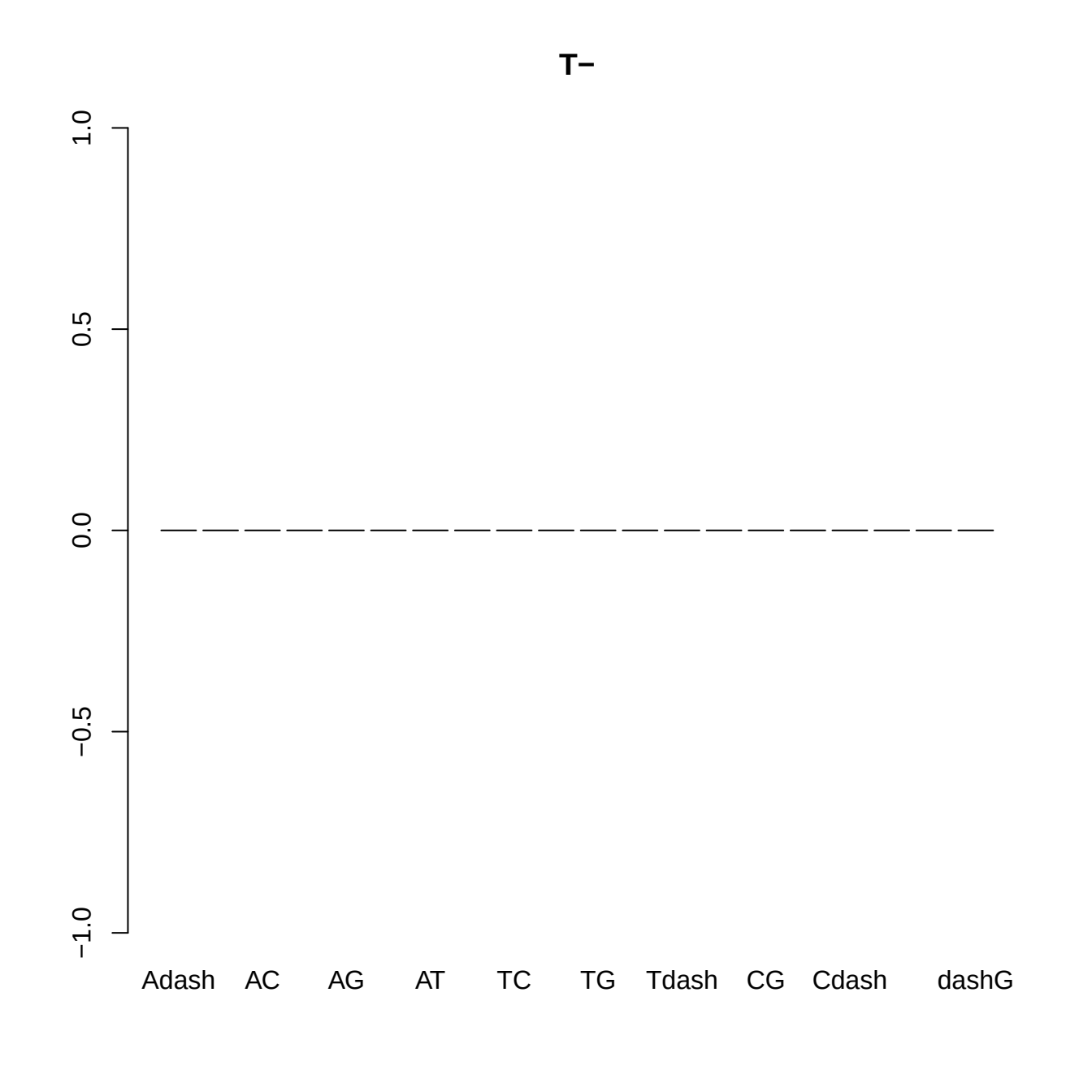
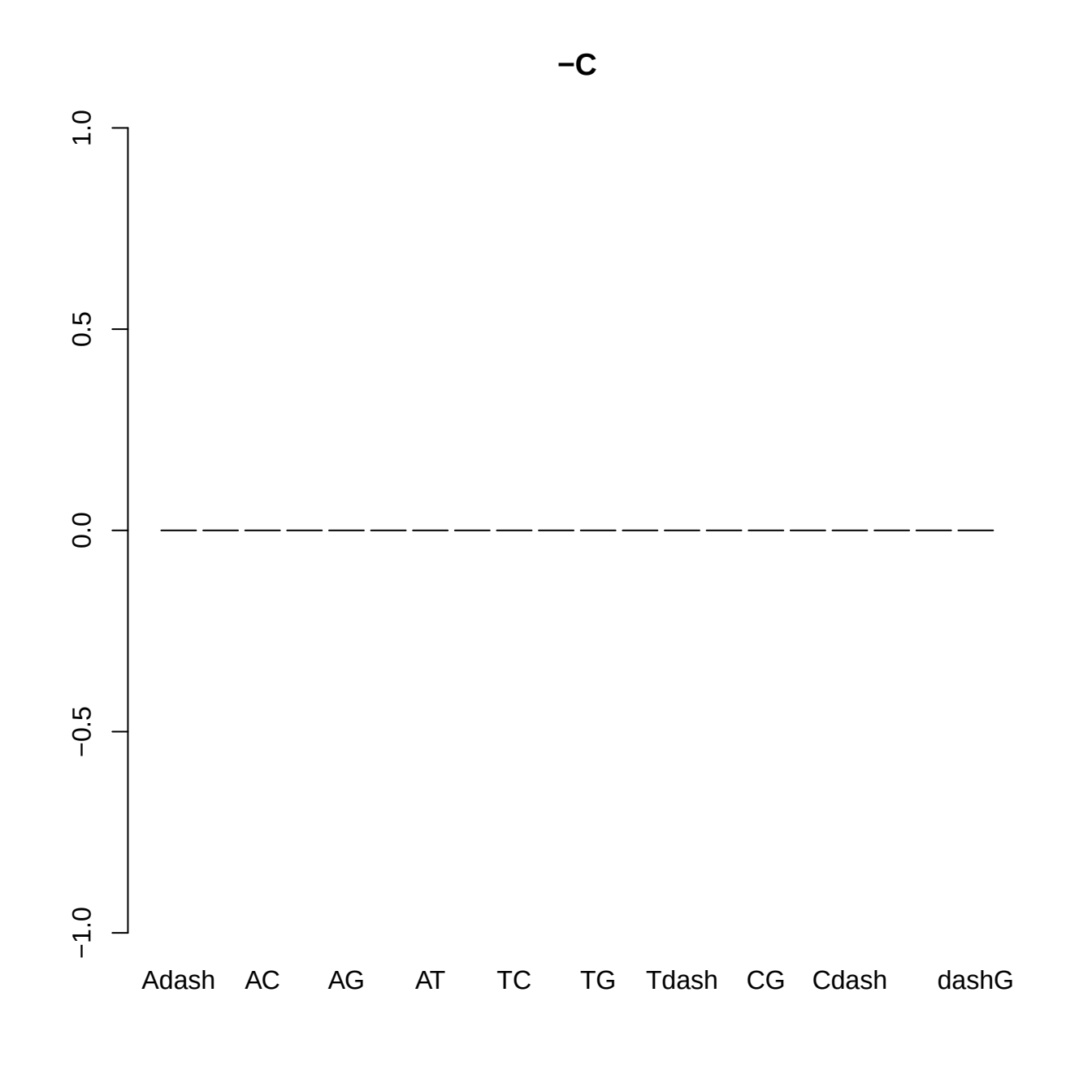
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


T−
1.0
0.5
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


−C
1.0
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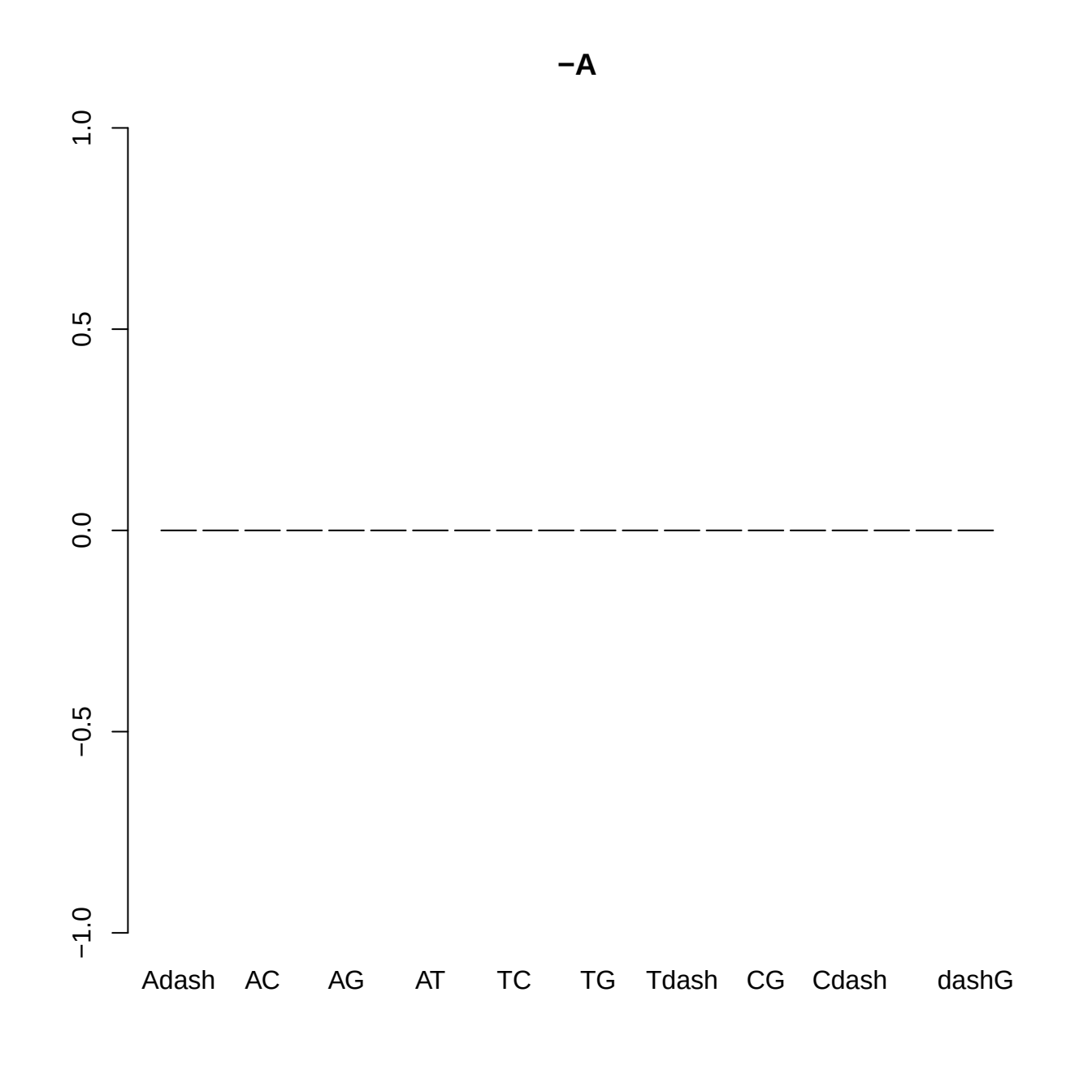
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


−A
1.0
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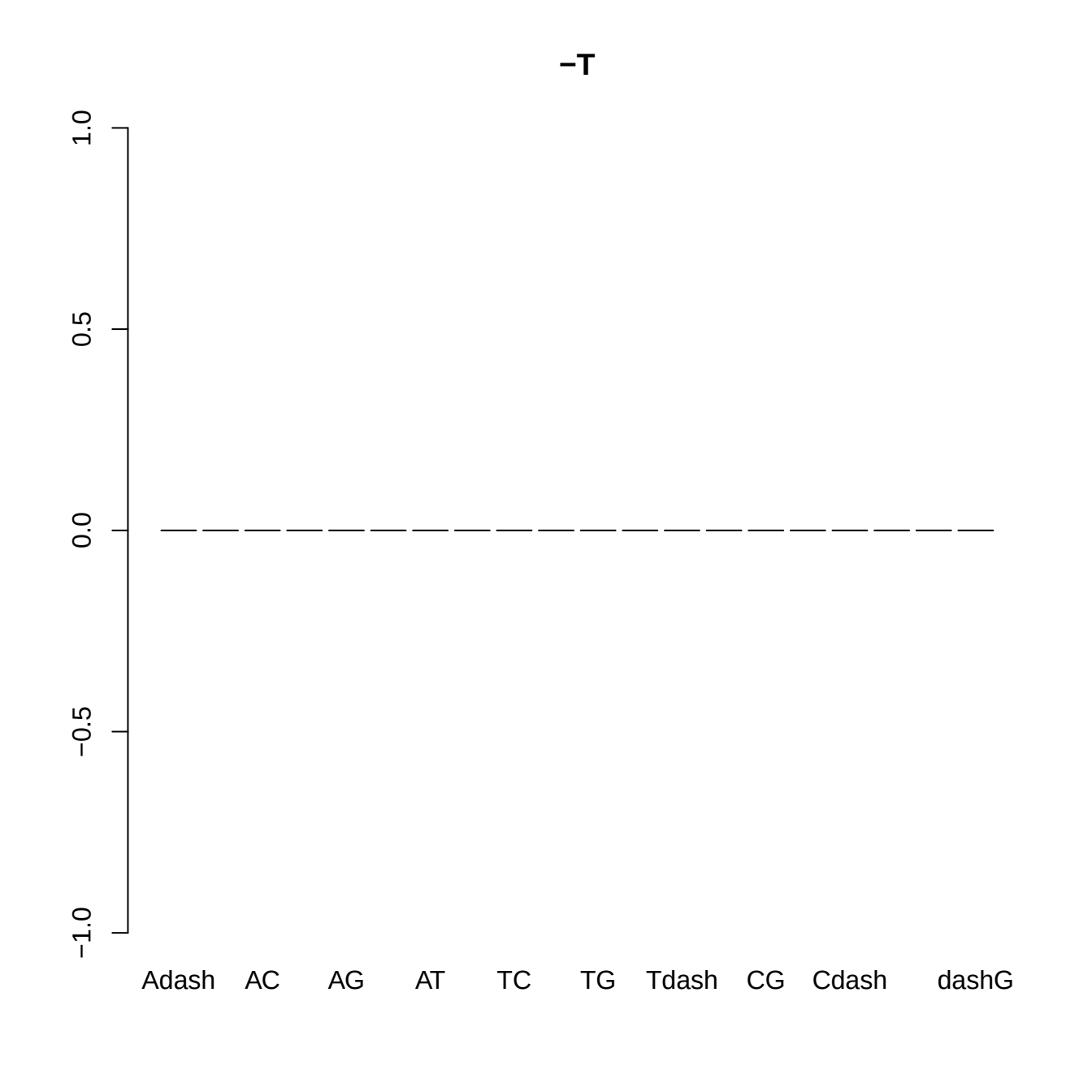
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


−T
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−1.0
Adash
AC
AG
AT
TC
TG
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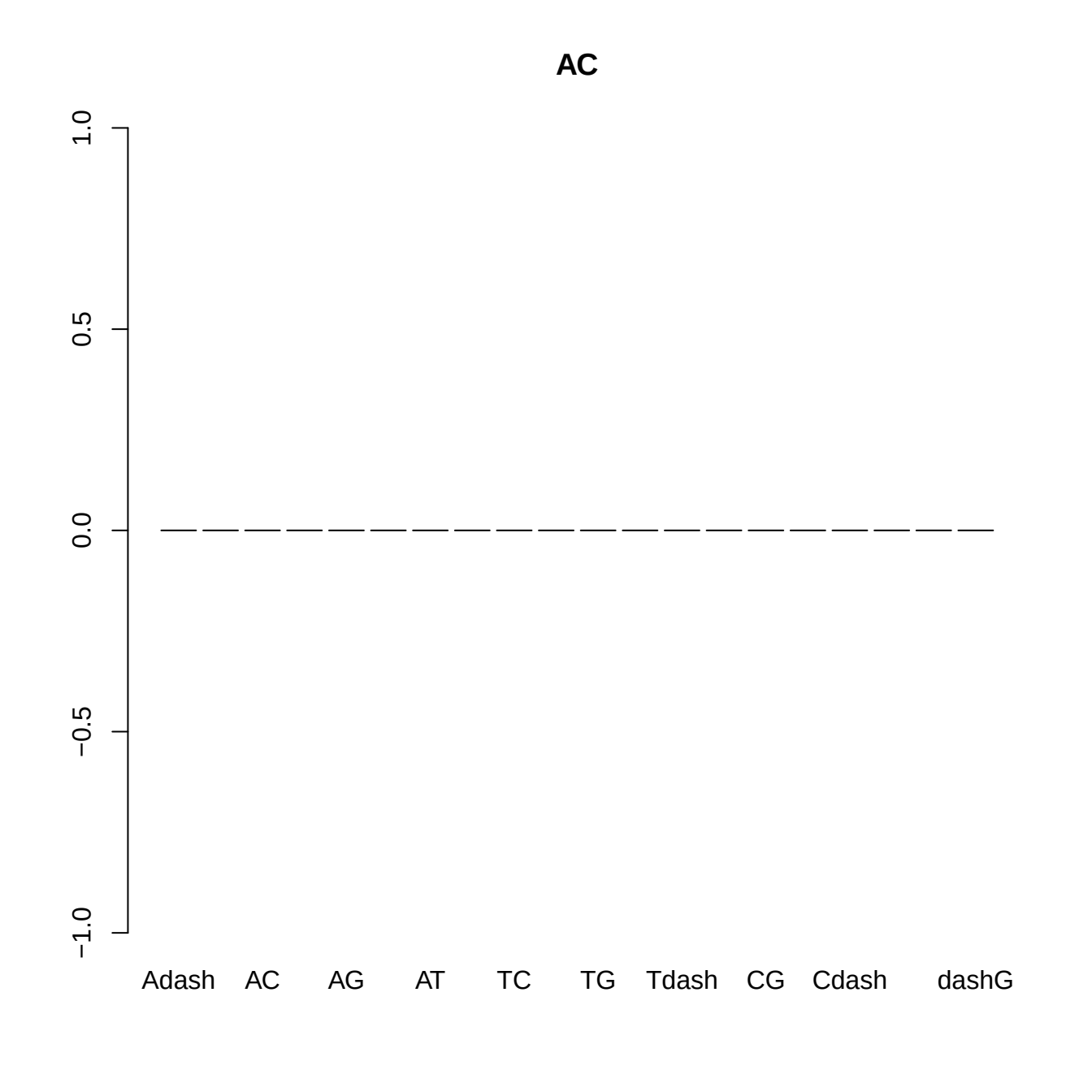
CG
Cdash
dashG


AC
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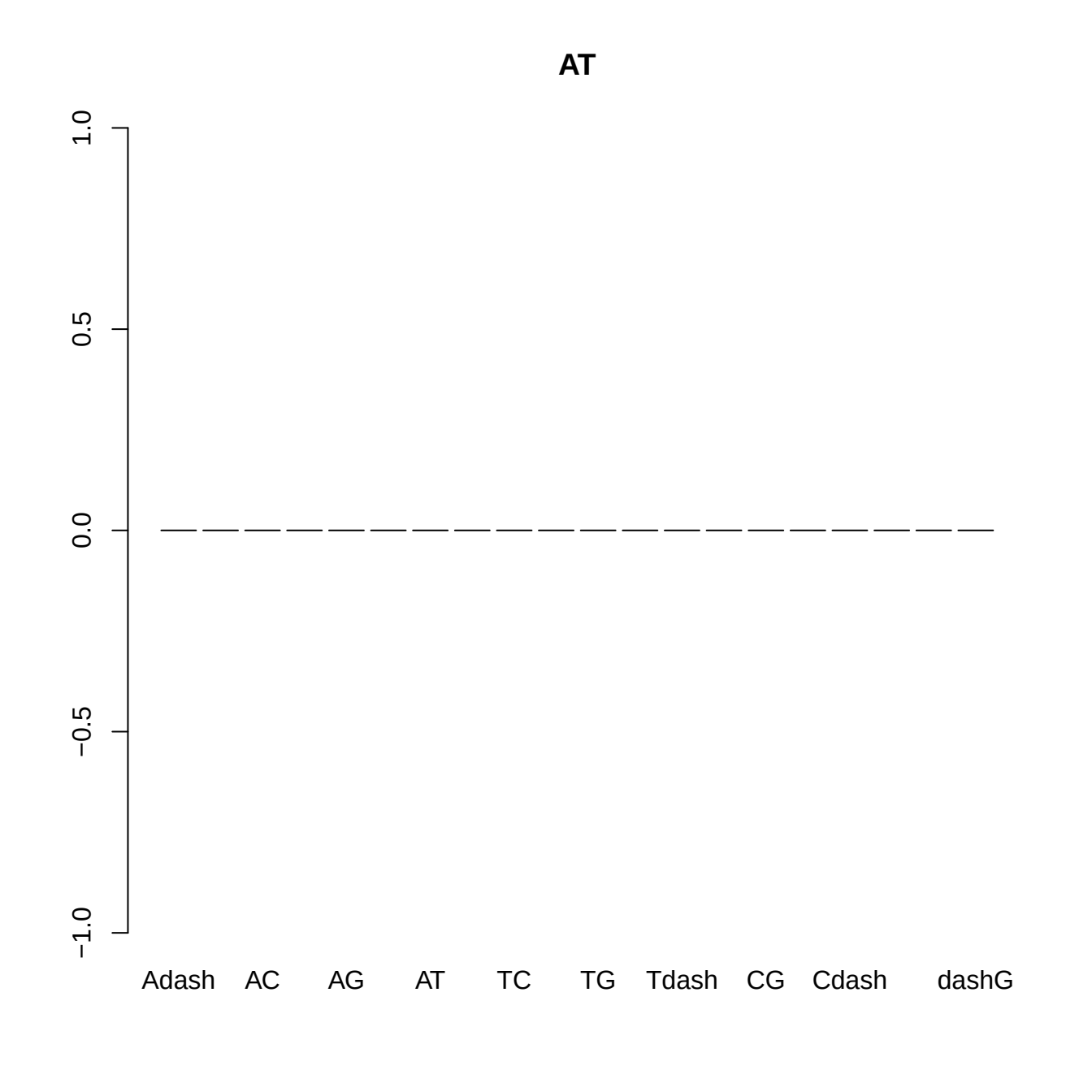
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


AT
1.0
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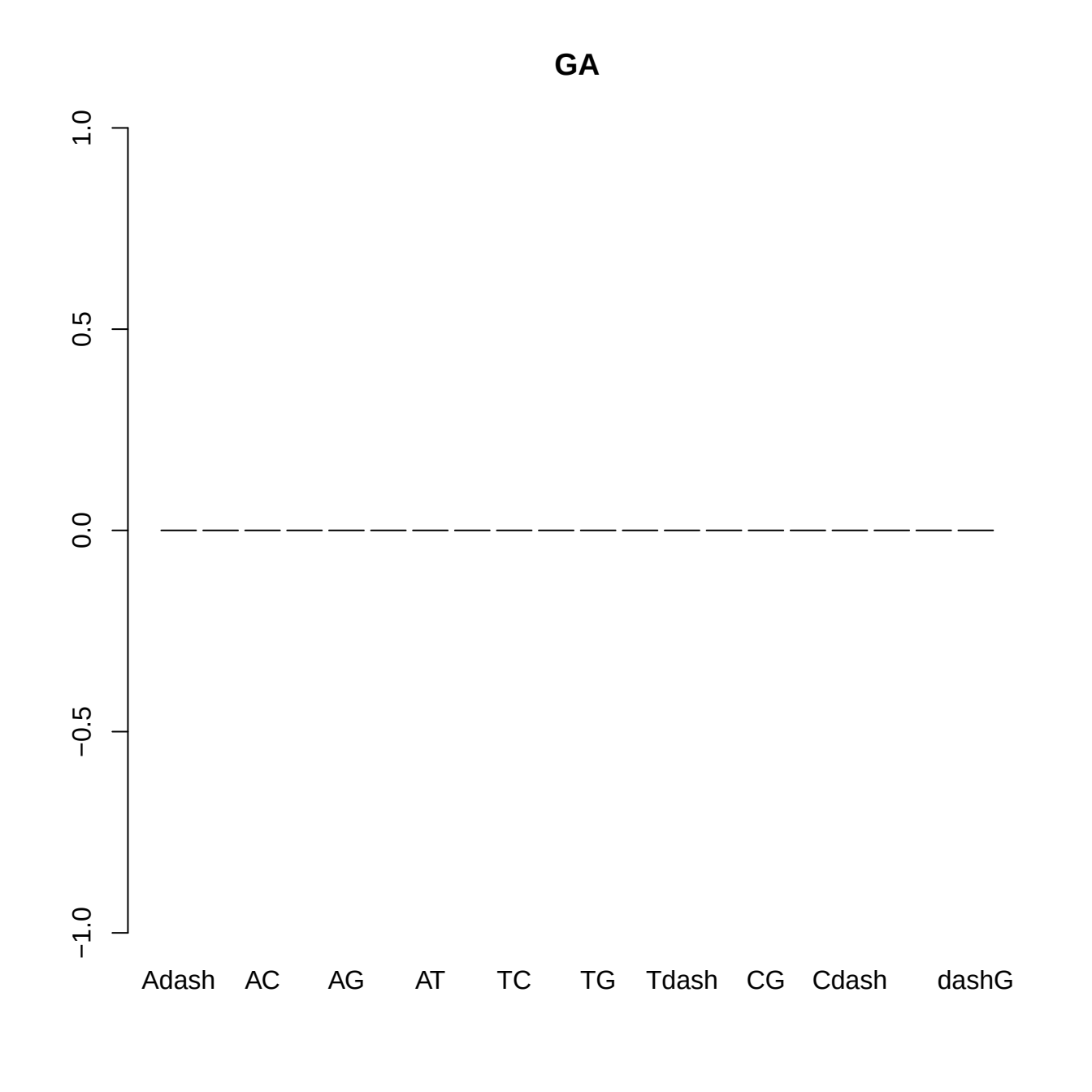
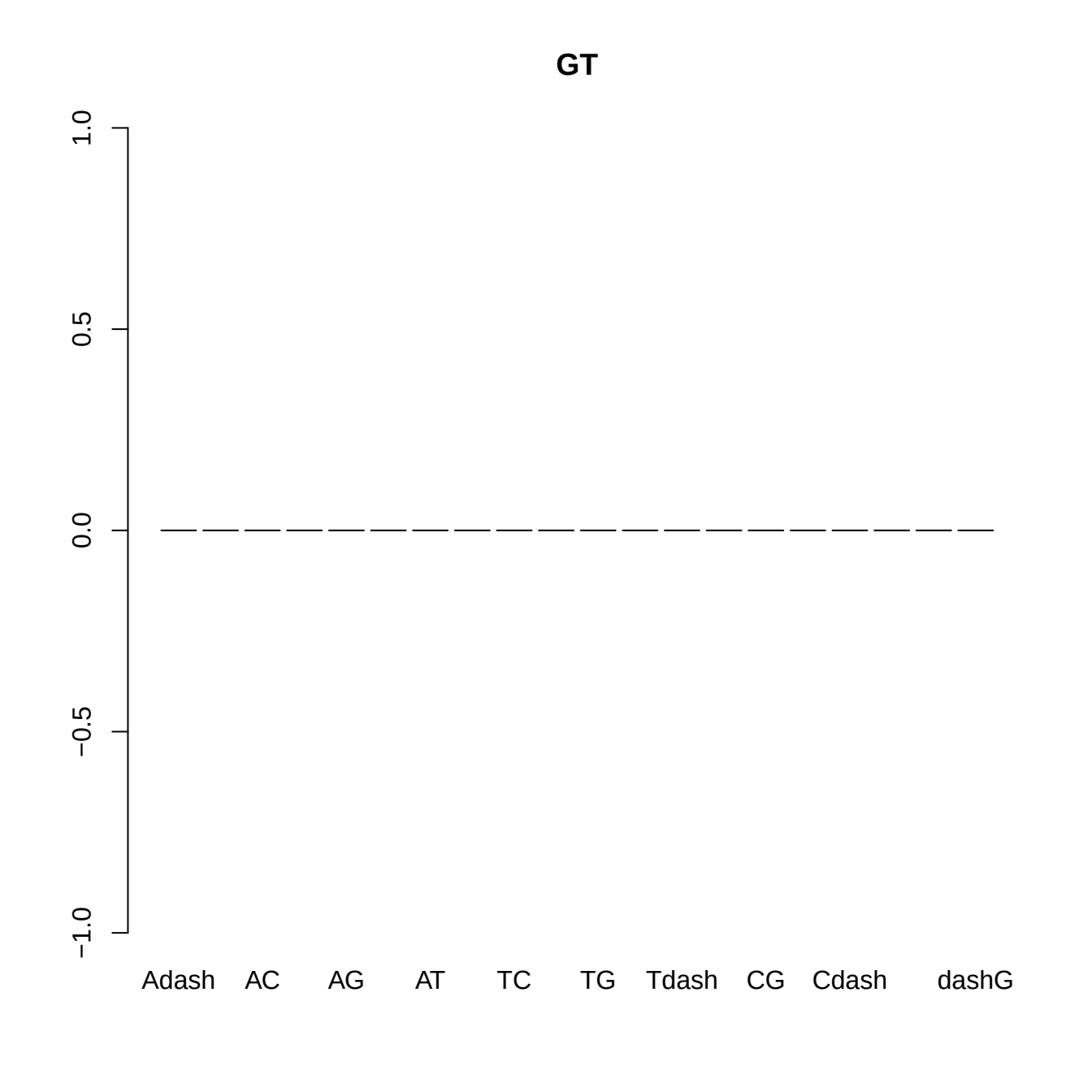
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


GA
1.0
0.5
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


GT
1.0
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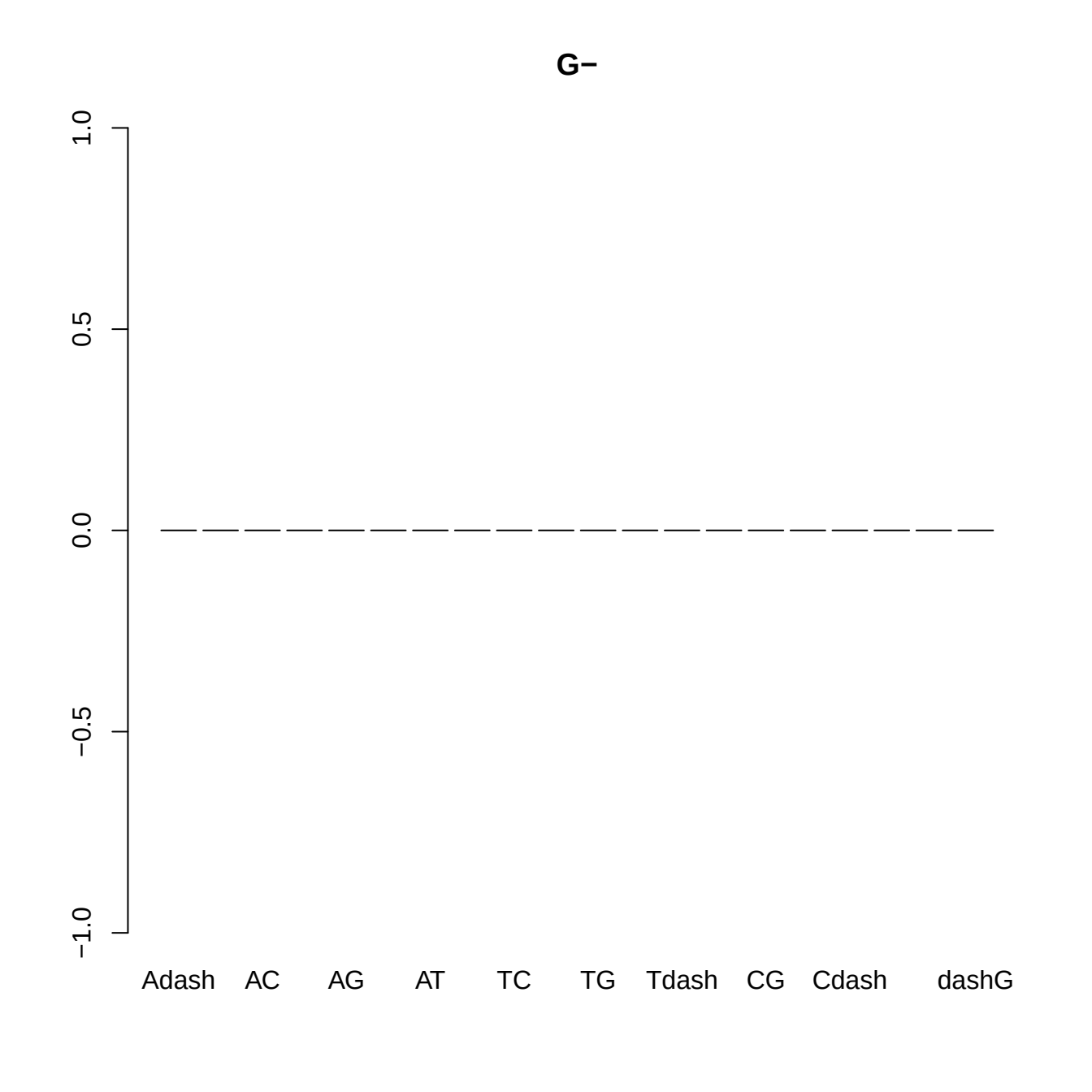
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


G−
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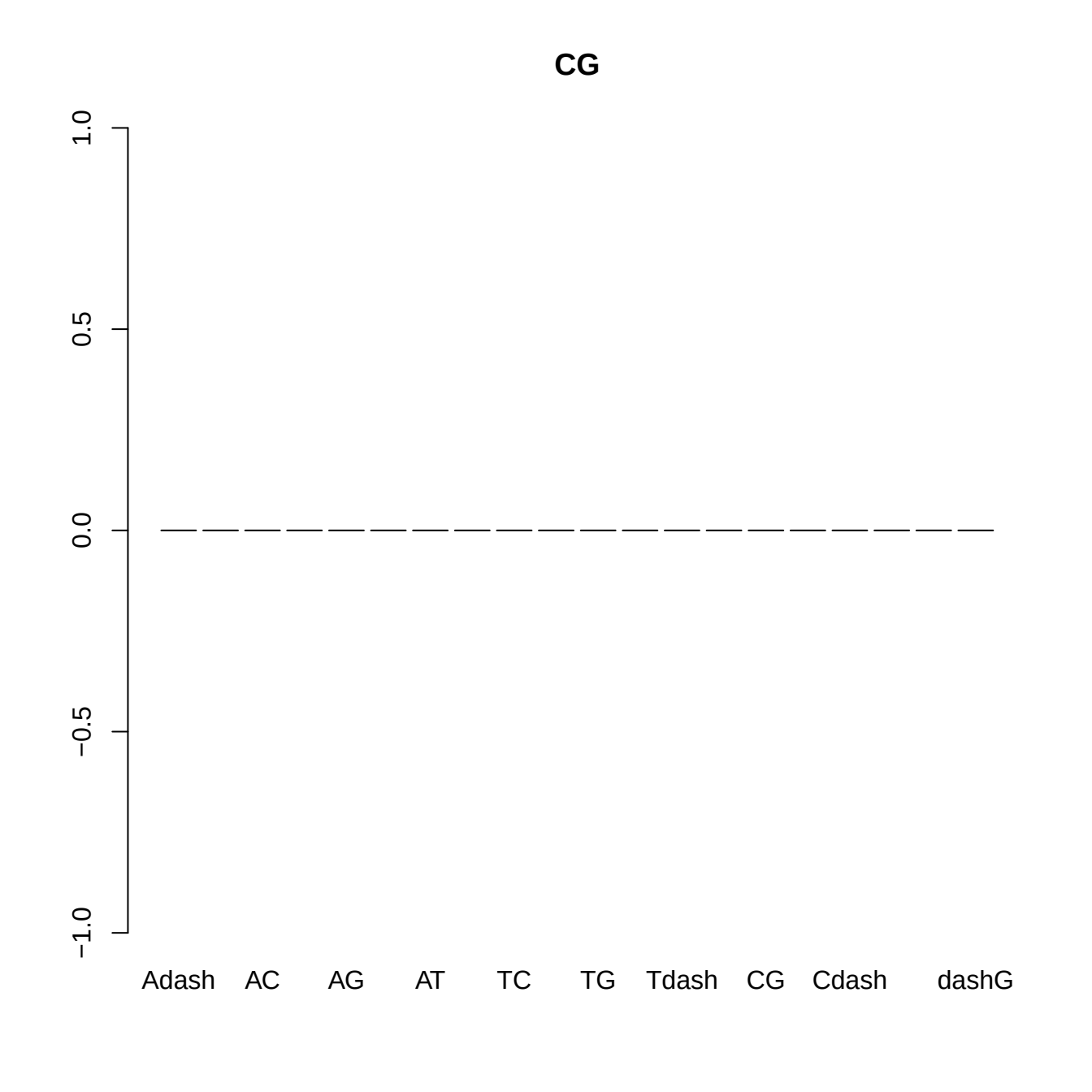
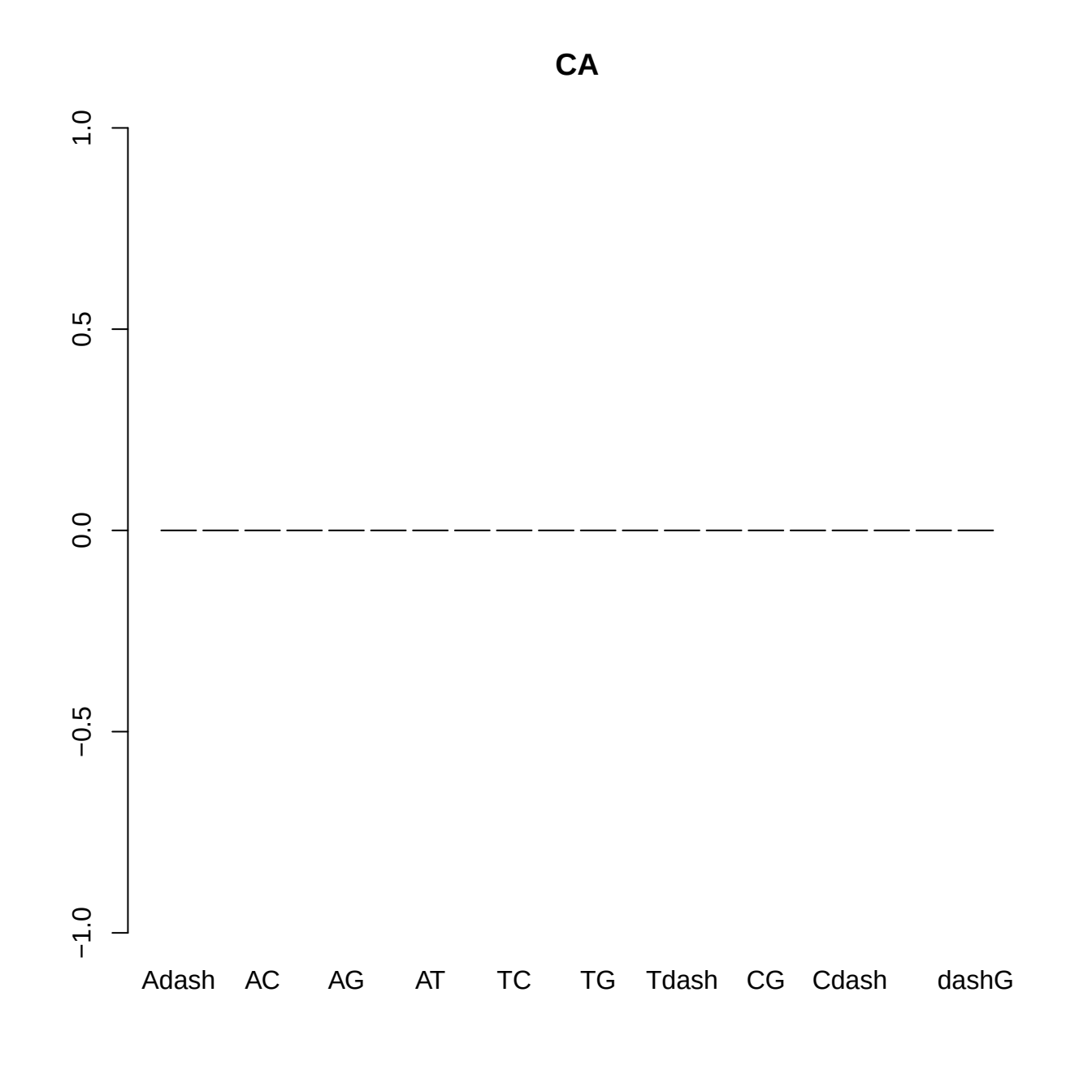
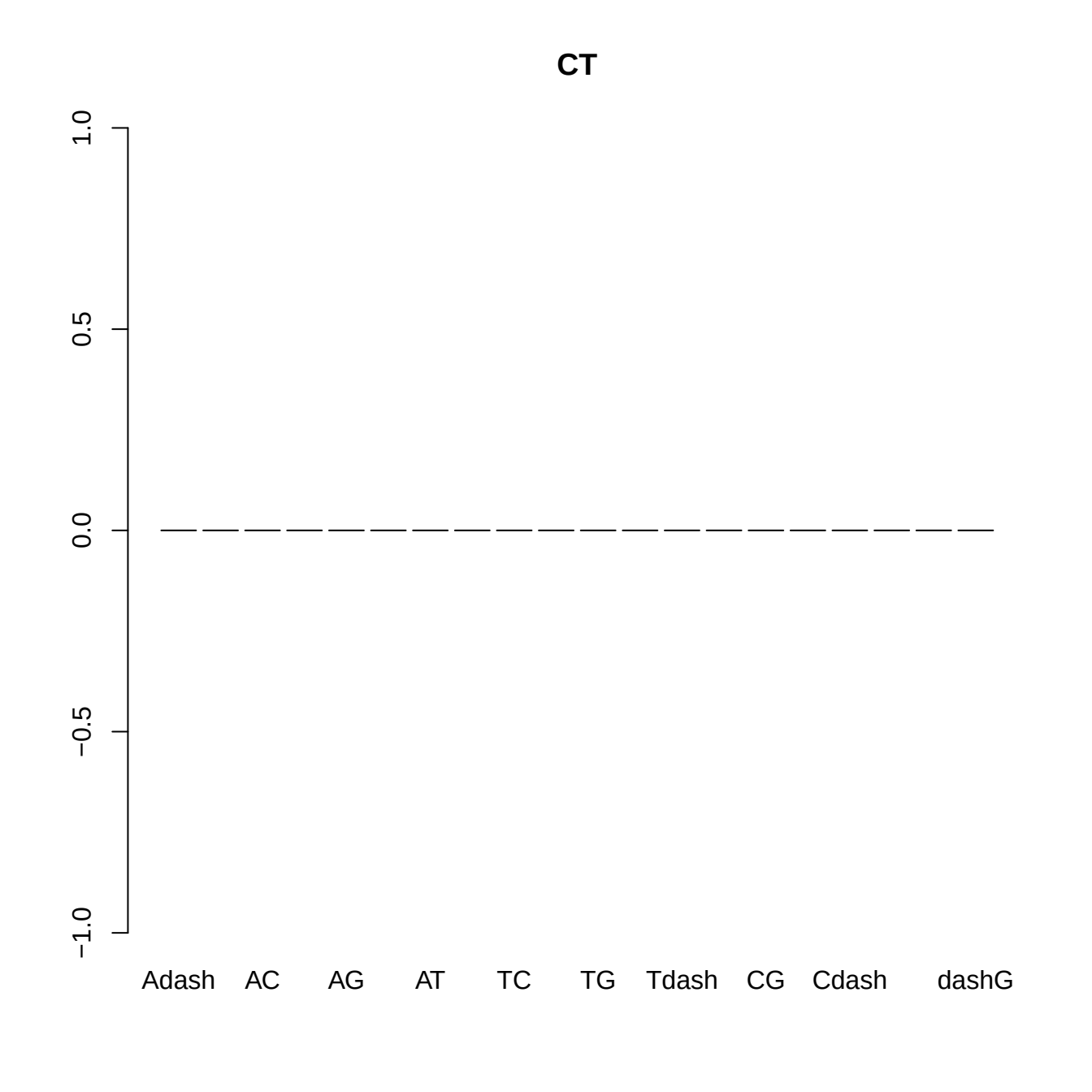
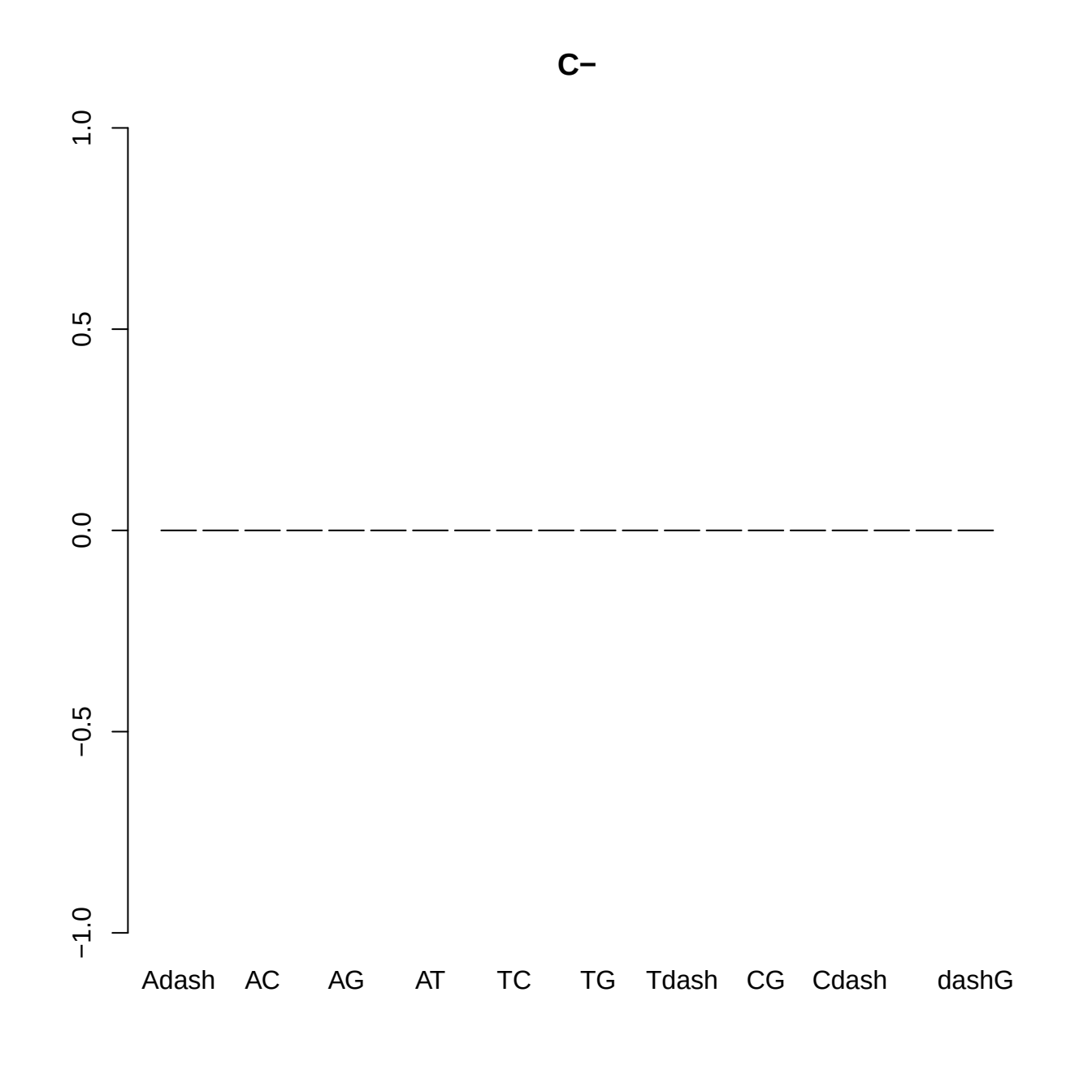
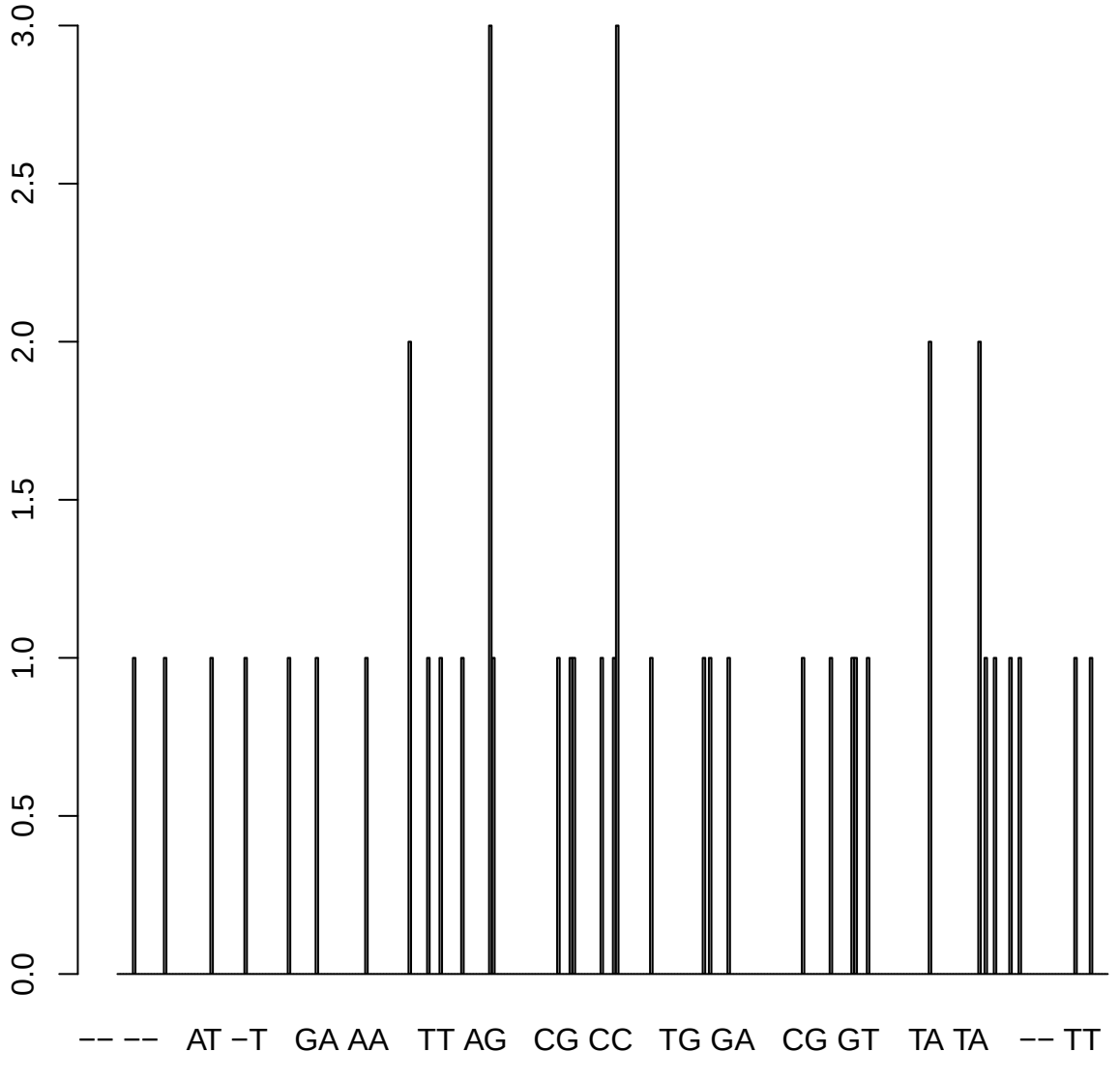
0.5
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


CG
1.0
0.5
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


CA
1.0
0.5
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


CT
1.0
0.5
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


C−
1.0
0.5
0.0
−0.5
−1.0
Adash
AC
AG
AT
TC
TG
Tdash
CG
Cdash
dashG


0.0
0.5
1.0
1.5
2.0
2.5
3.0
−− −− AT −T GA AA TT AG CG CC TG GA CG GT TA TA −− TT