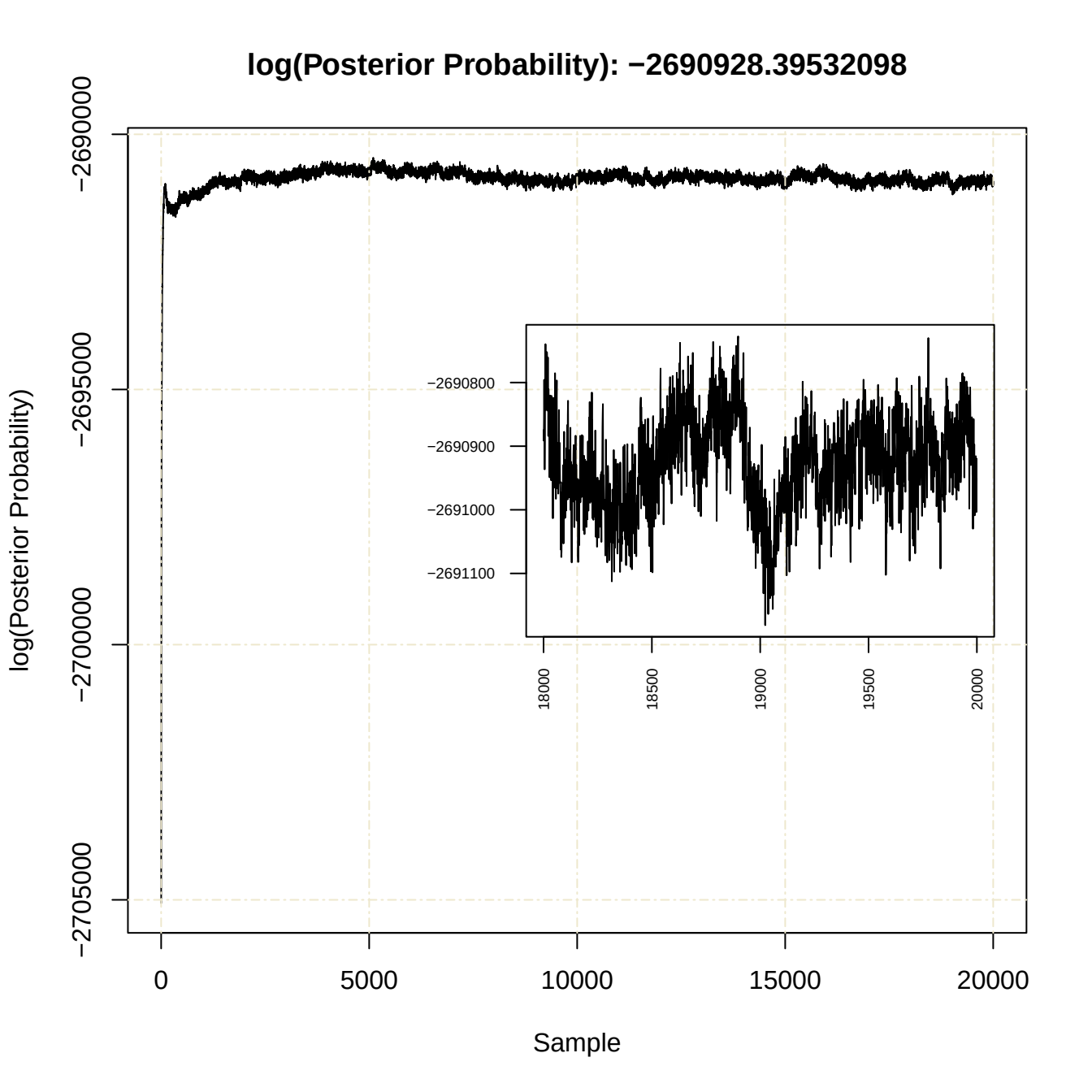
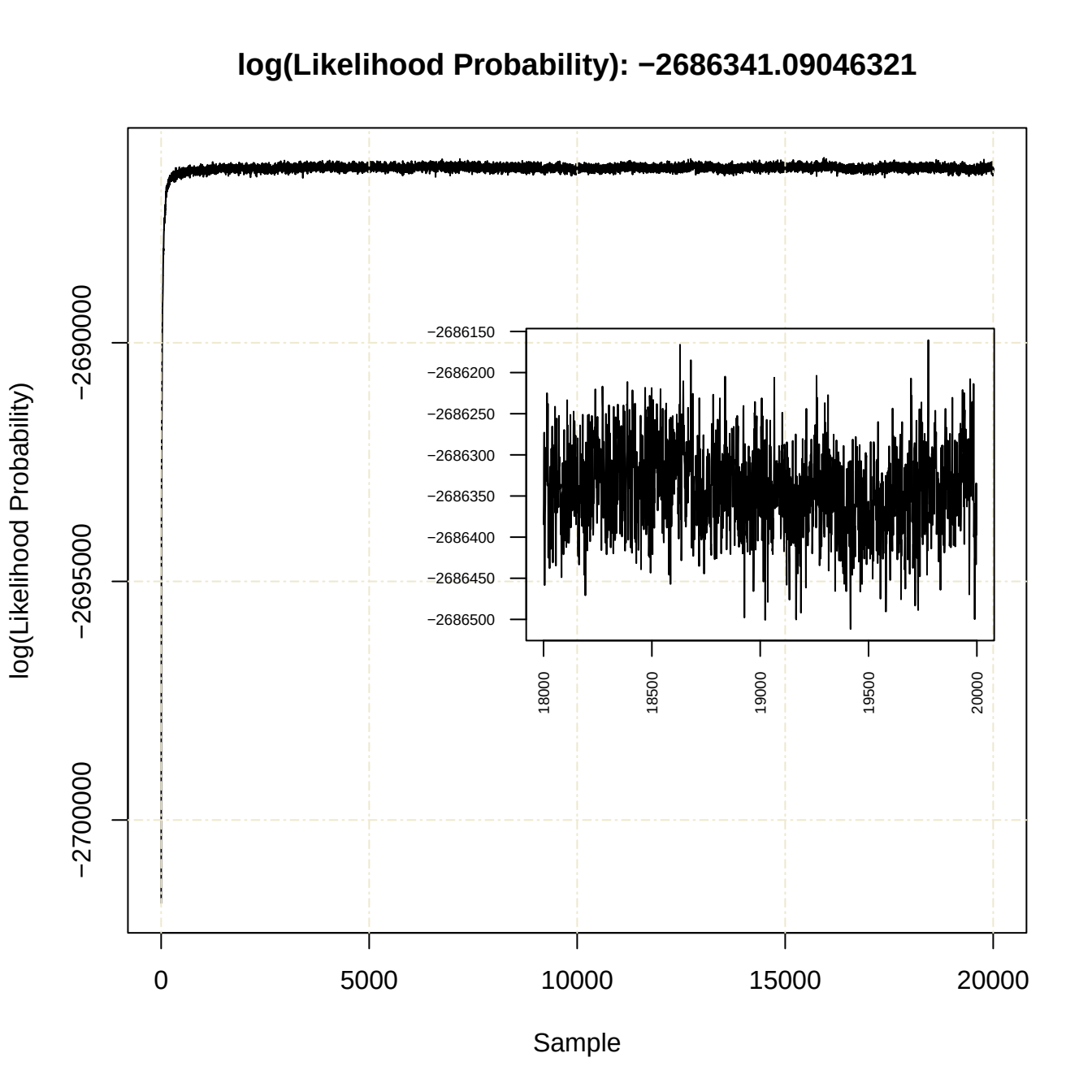
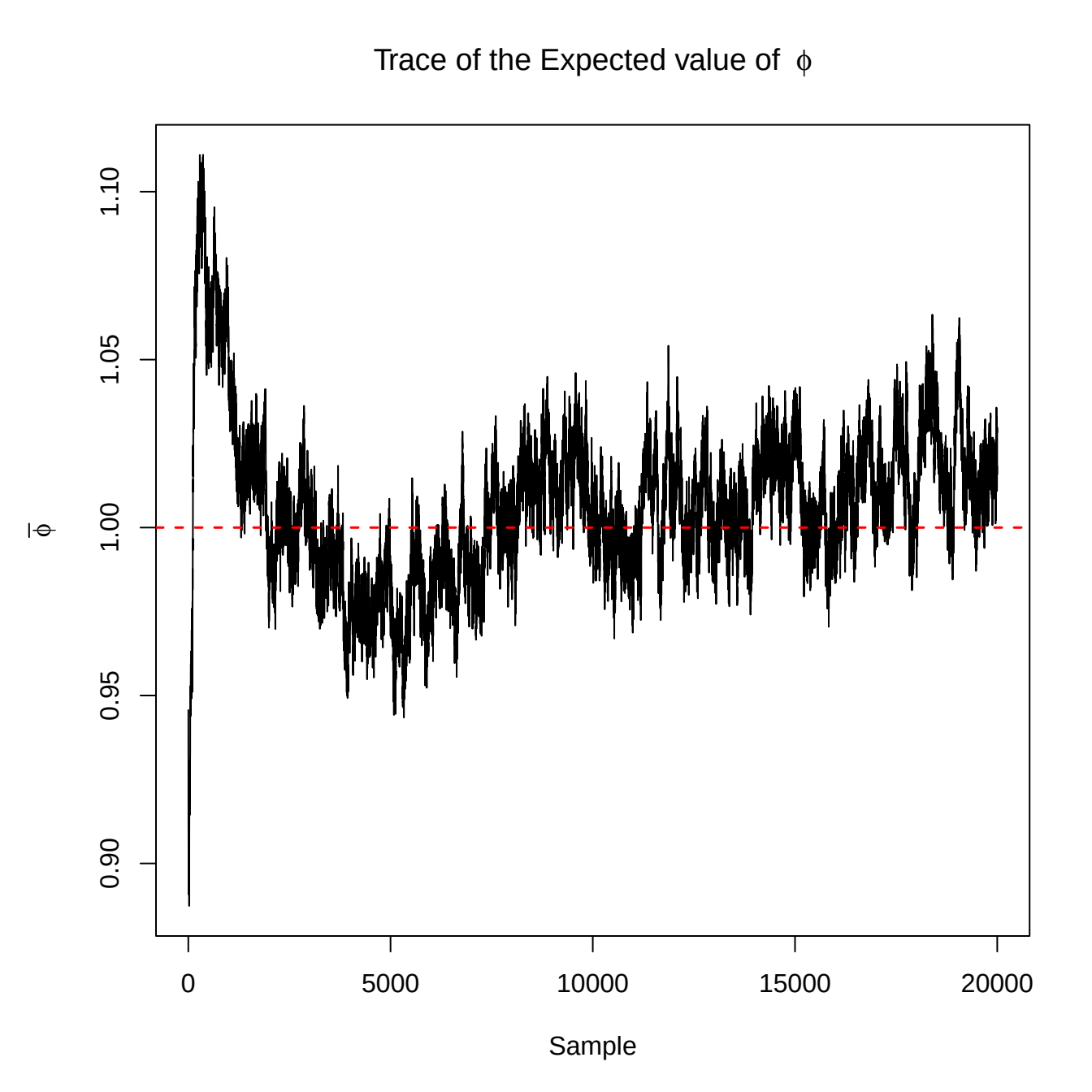
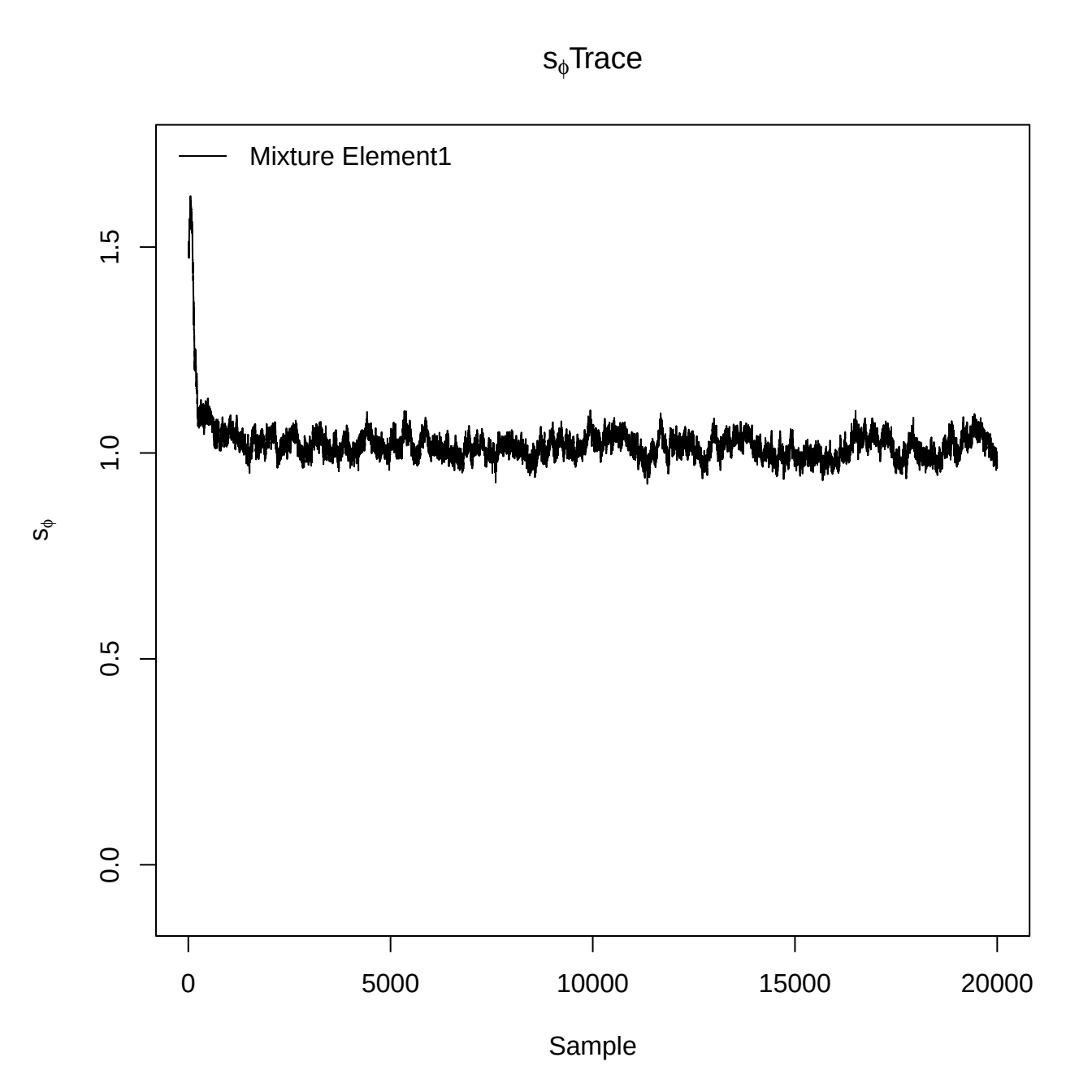
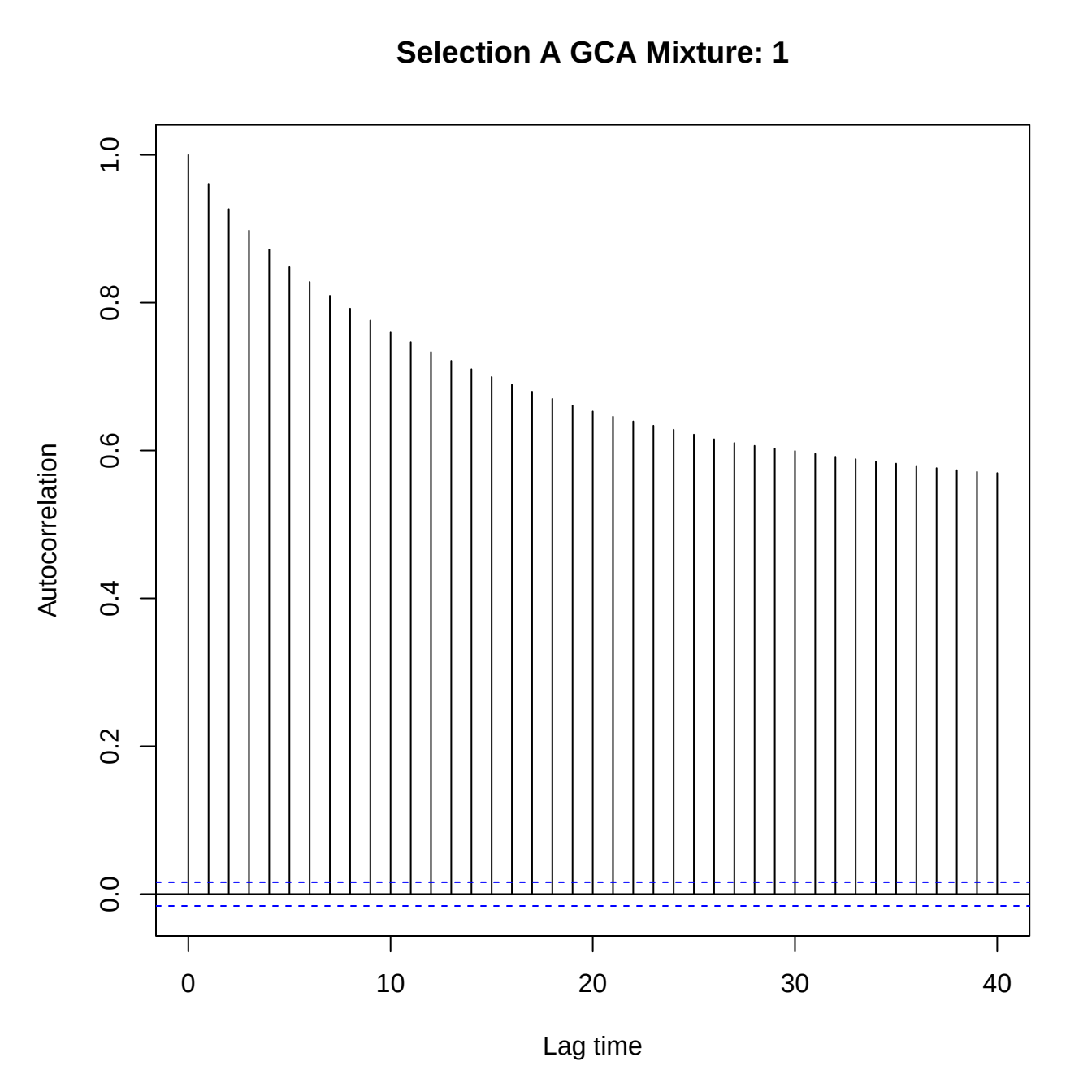
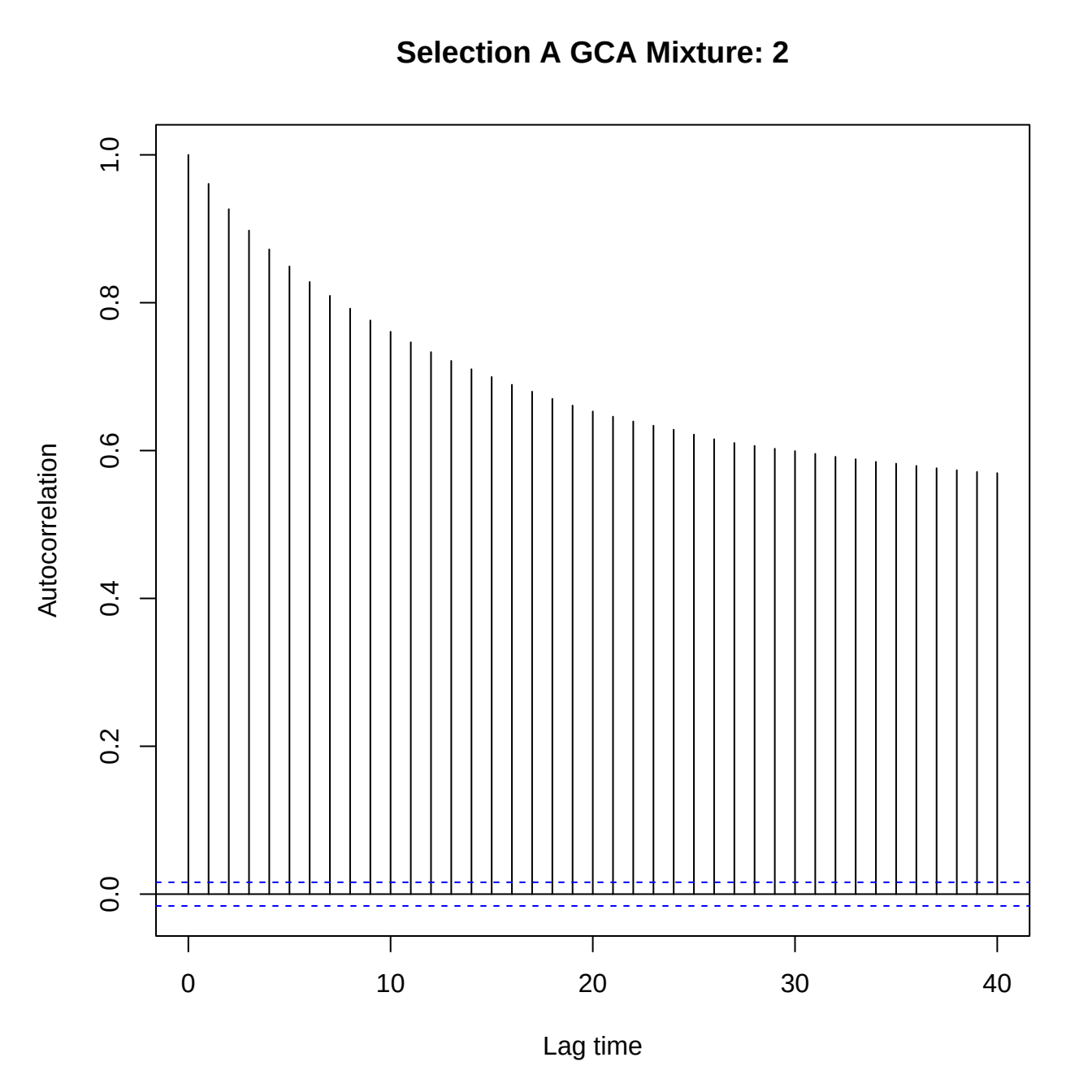

log(Posterior Probability): −2690928.39532098
log(Posterior Probability)
−2690000
−2695000
−2700000
−2705000
0
5000
10000
15000
20000
Sample
−2690800
−2690900
−2691000
−2691100
18000
18500
19000
19500
20000

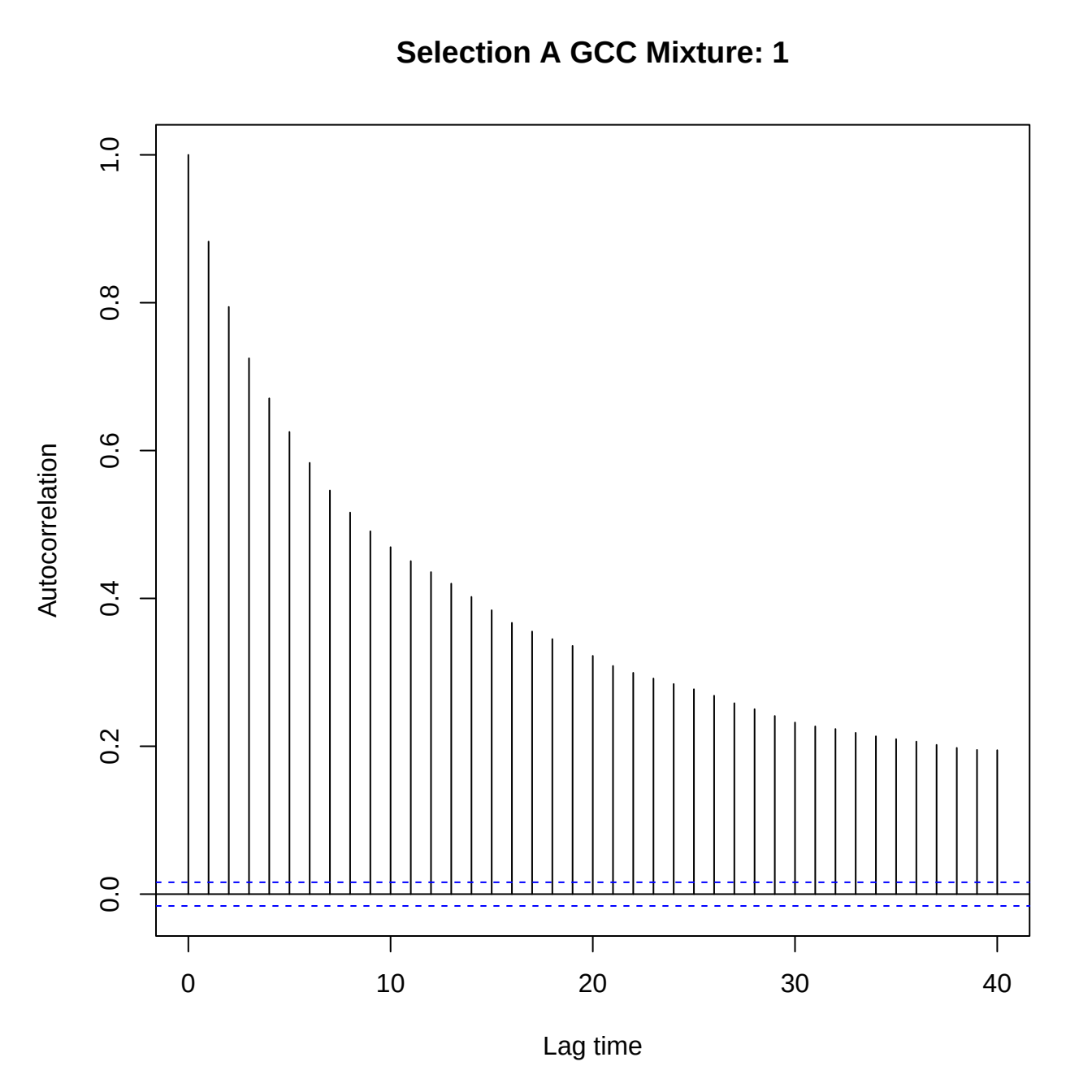

log(Likelihood Probability): −2686341.09046321
log(Likelihood Probability)
−2690000
−2695000
−2700000
0
5000
10000
15000
20000
Sample
−2686150
−2686200
−2686250
−2686300
−2686350
−2686400
−2686450
−2686500
18000
18500
19000
19500
20000

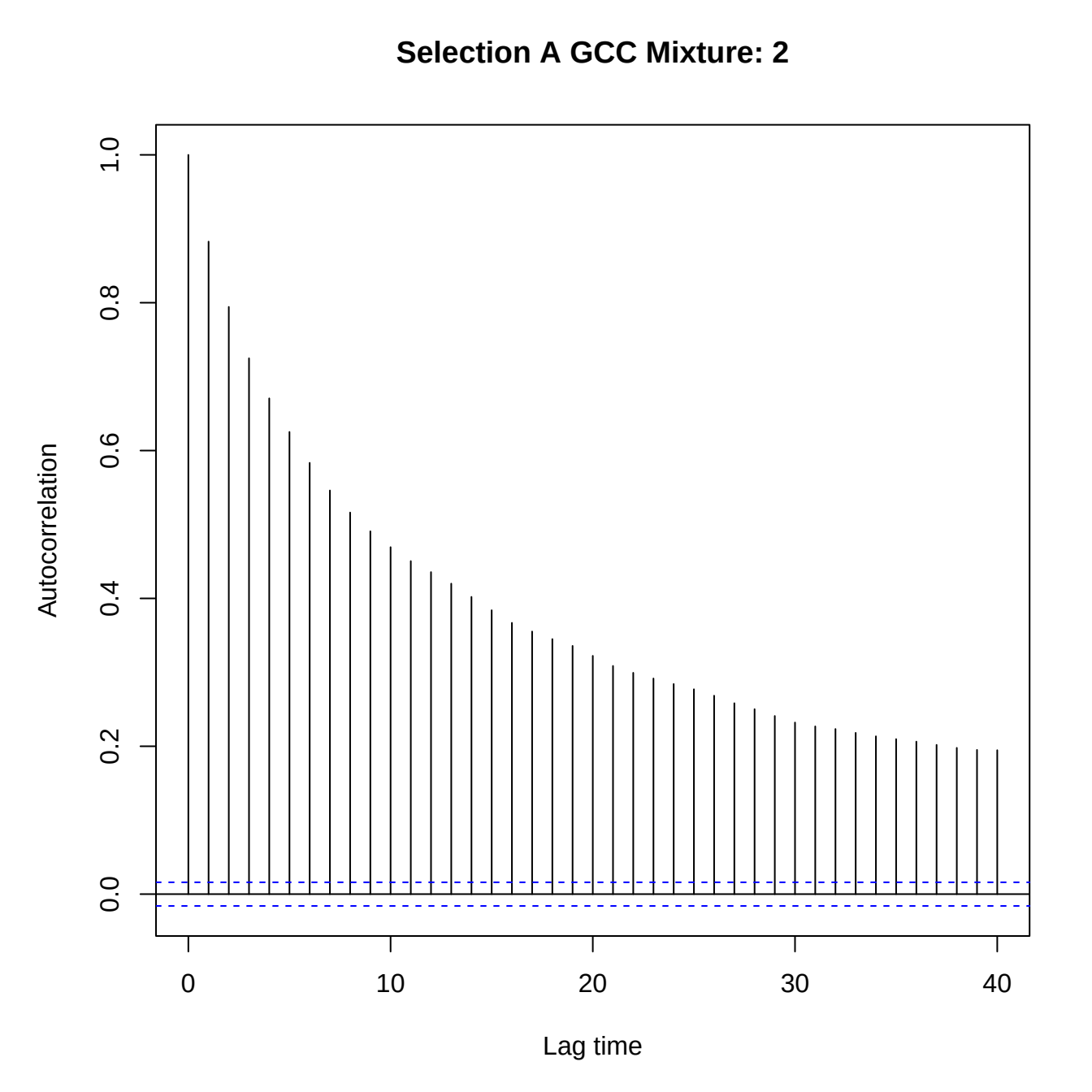

Trace of the Expected value of ϕ
$\bar{\phi}$
1.10
1.05
1.00
0.95
0.90
0
5000
10000
15000
20000
Sample

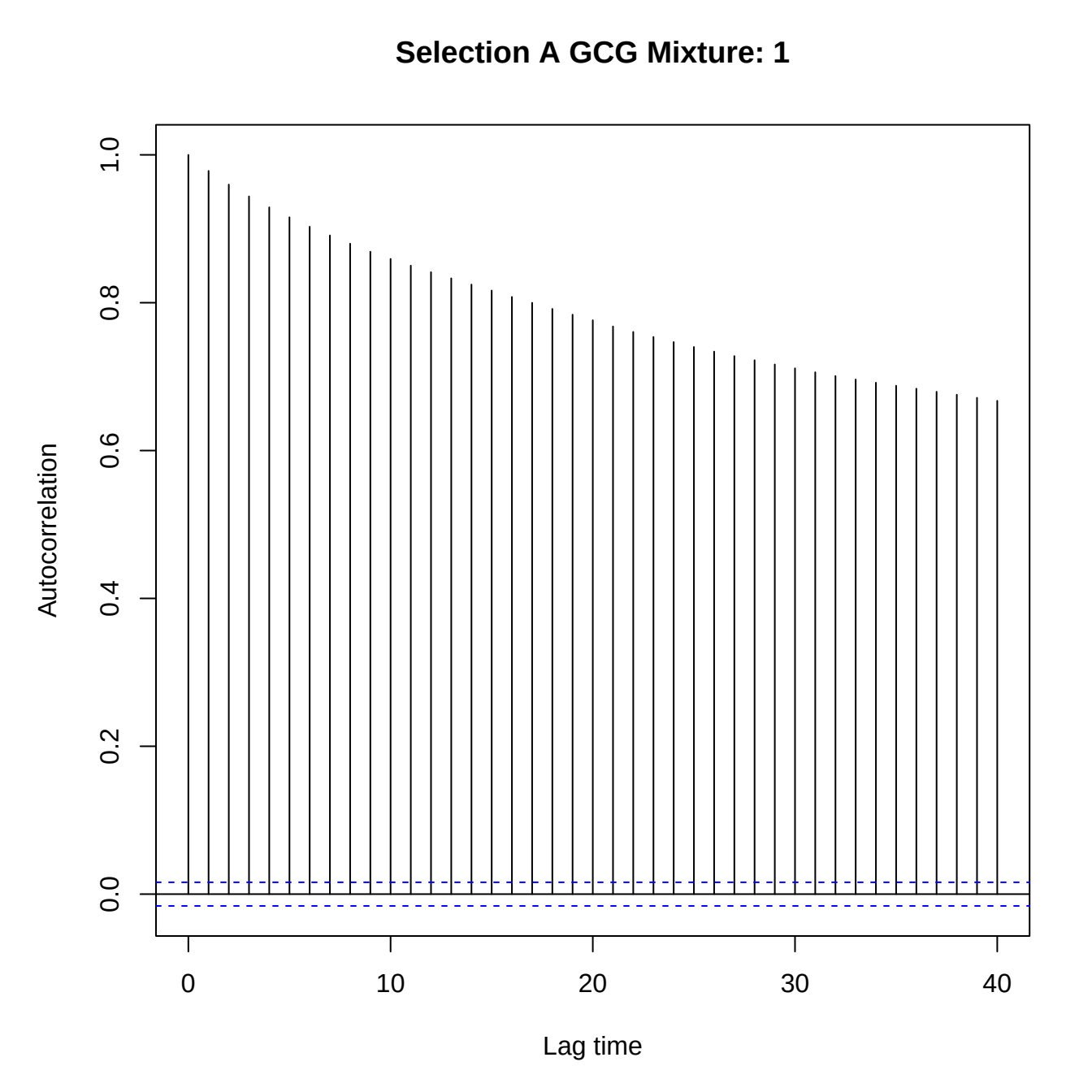

s_ϕTrace
Mixture Element1
1.5
1.0
0.5
0.0
s_ϕ
0
5000
10000
15000
20000
Sample


Selection A GCA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection A GCA Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection A GCC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection A GCC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection A GCG Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
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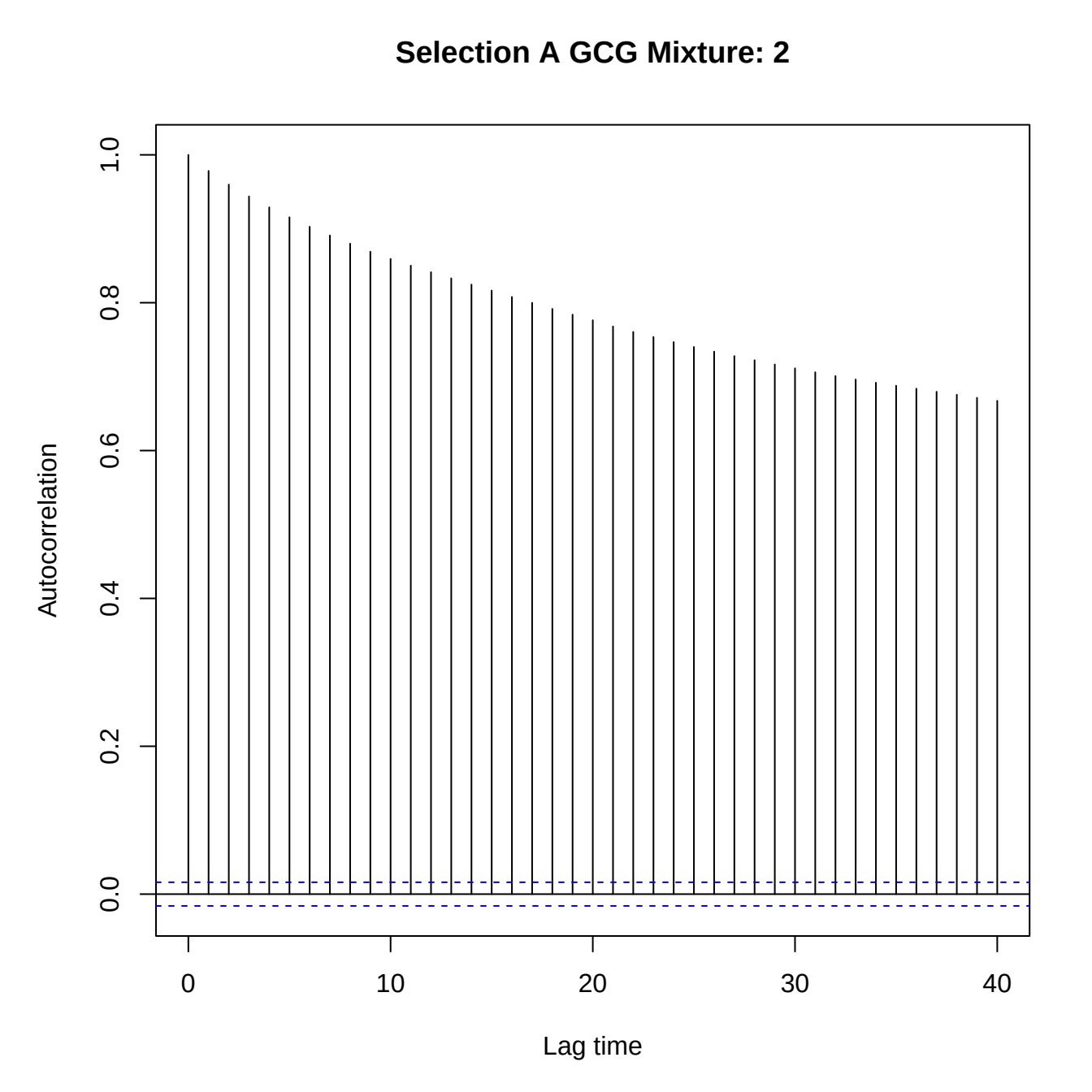
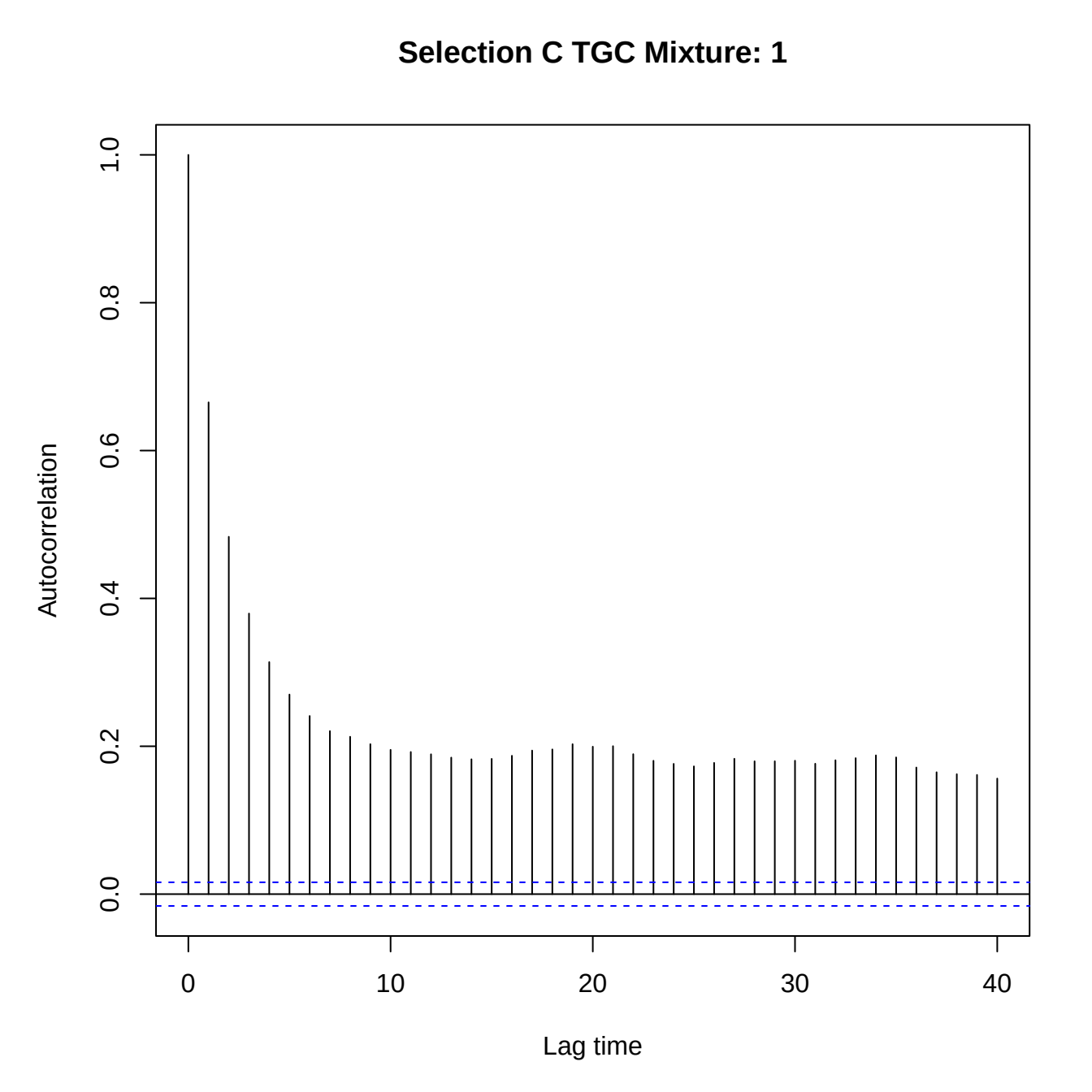
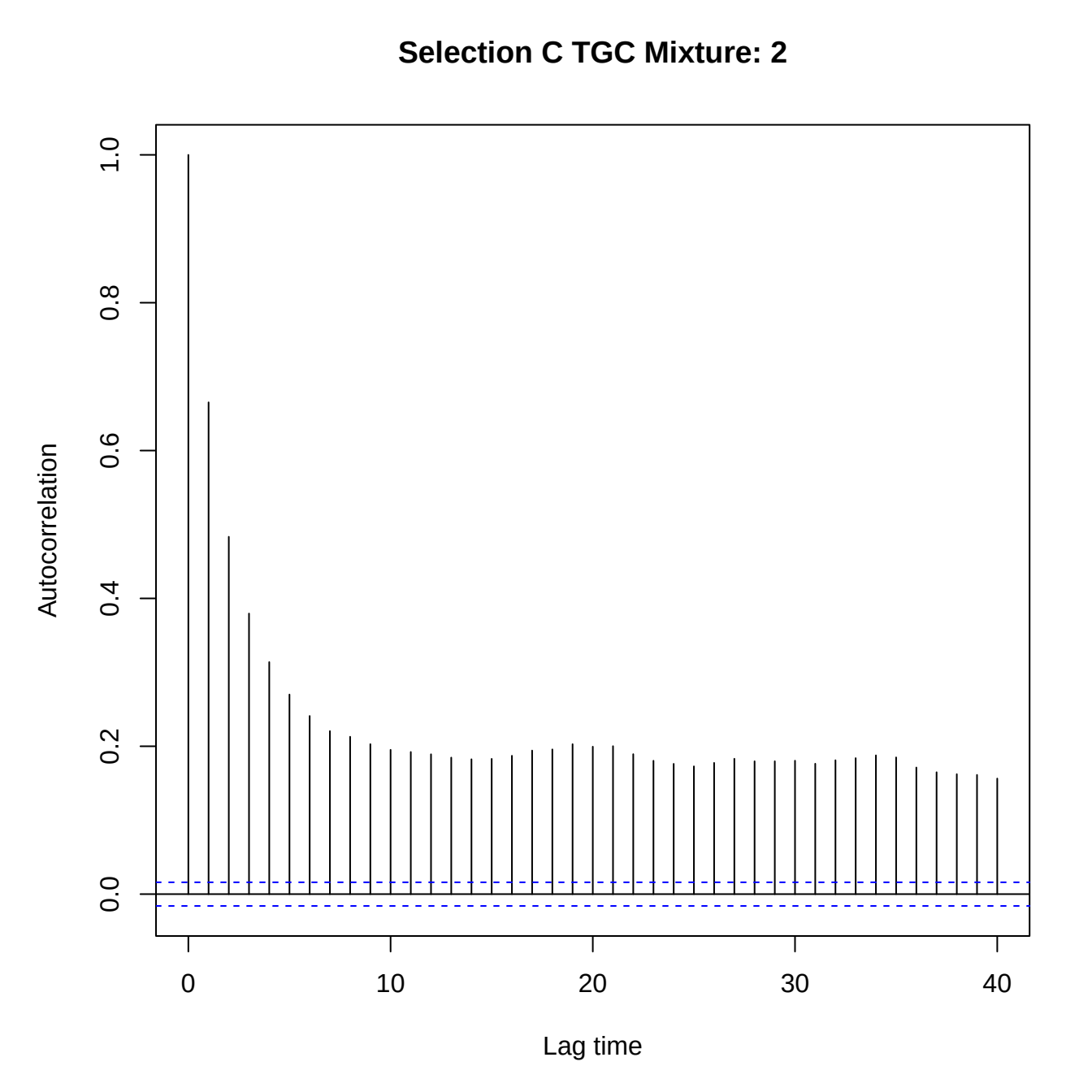
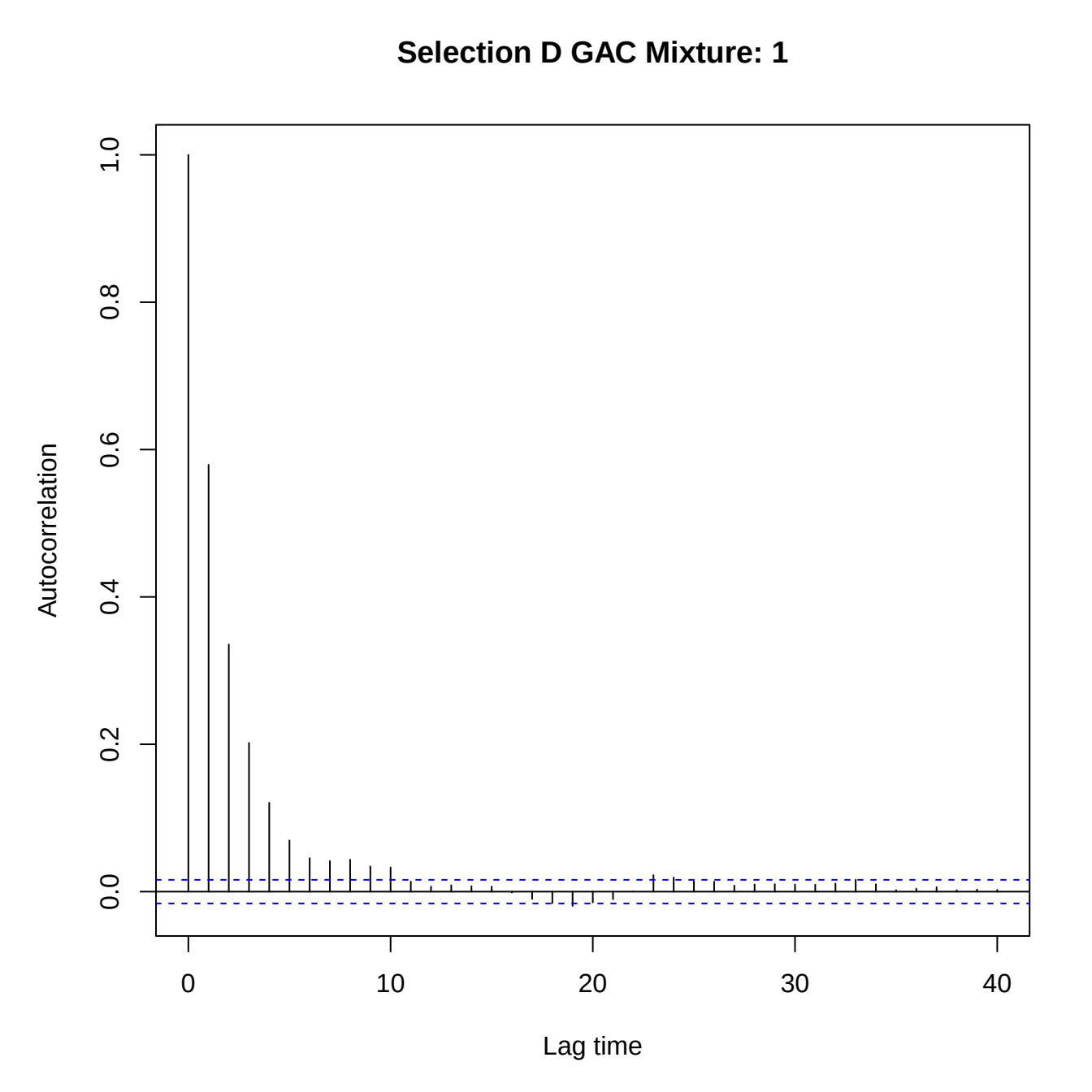
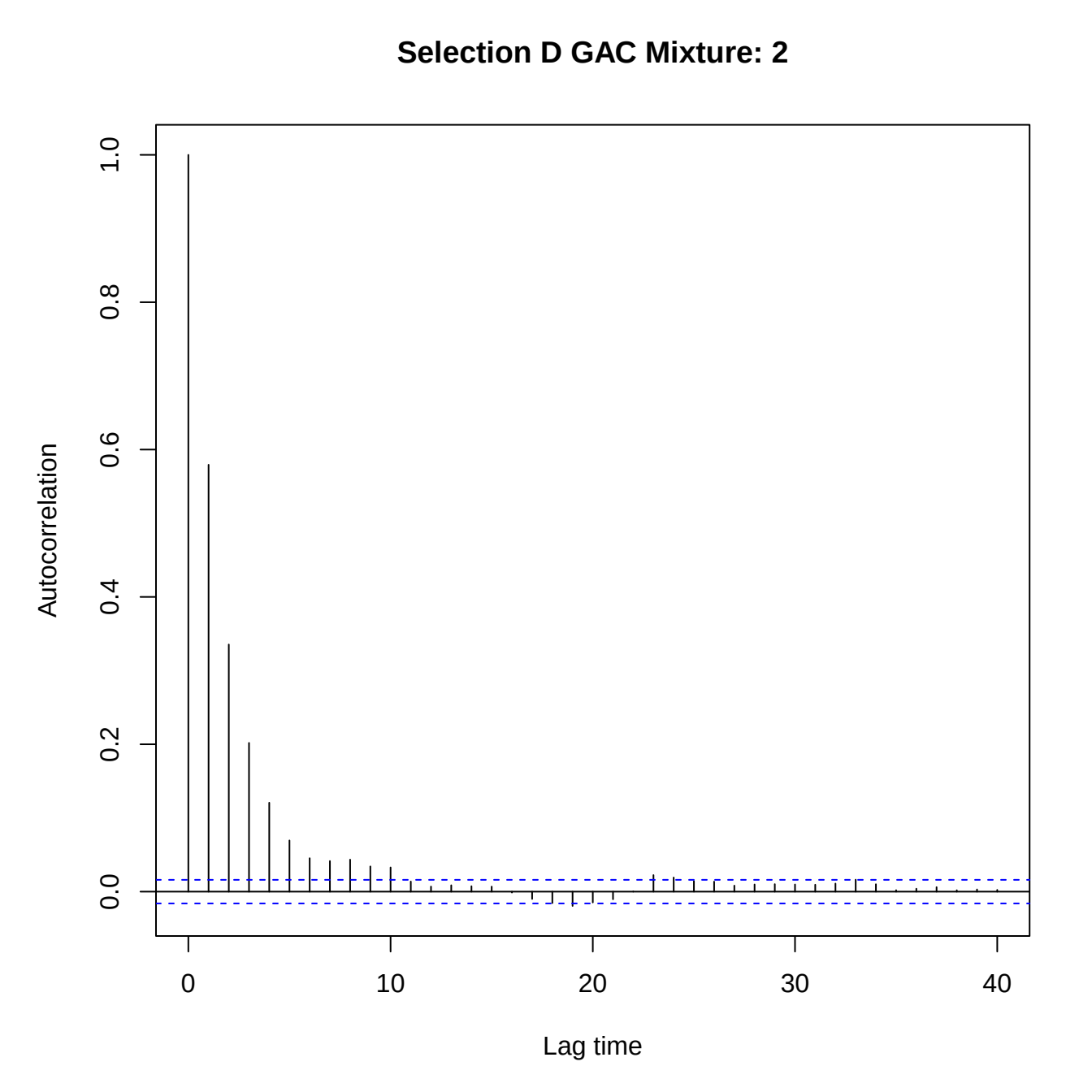
20
30
40
Lag time

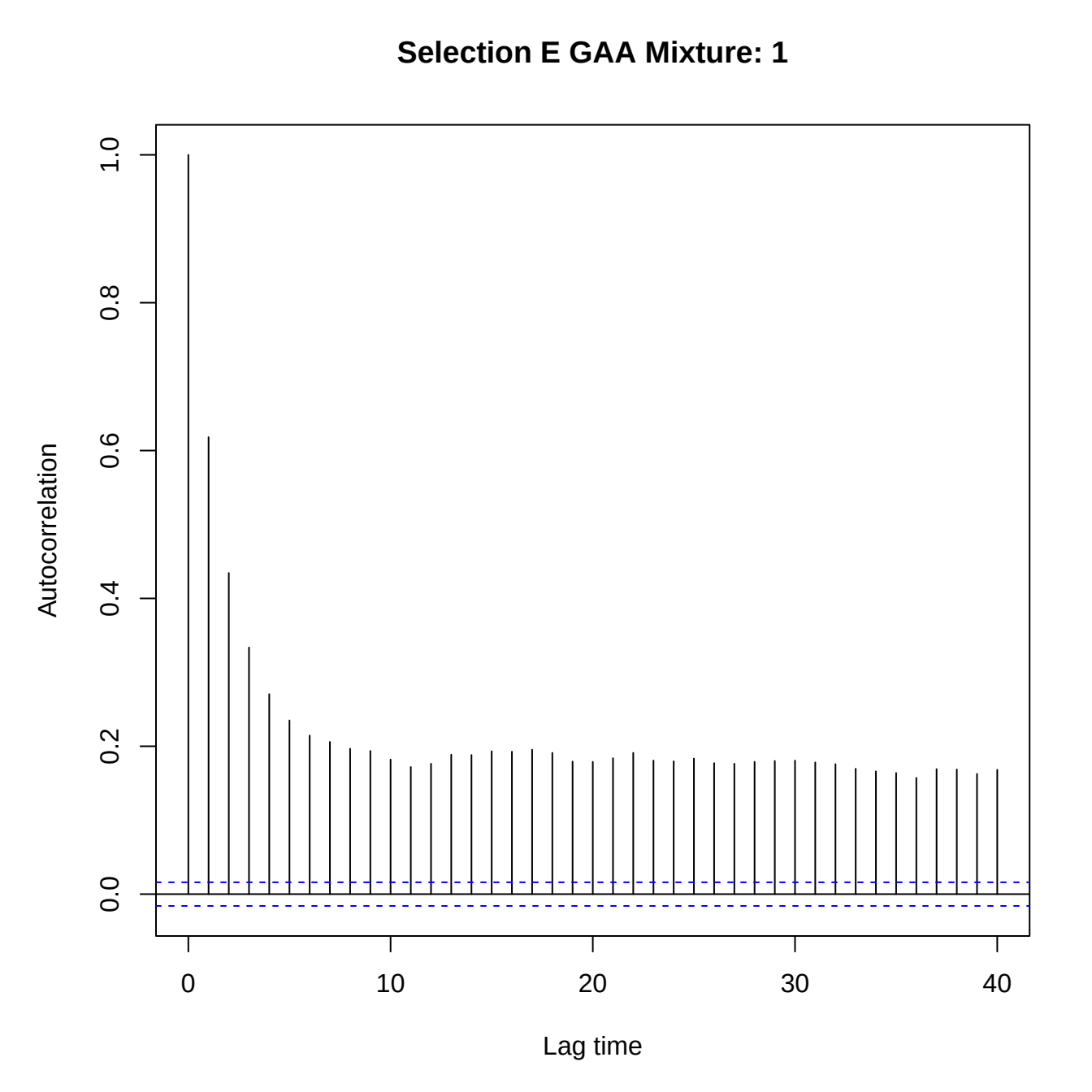

Selection A GCG Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

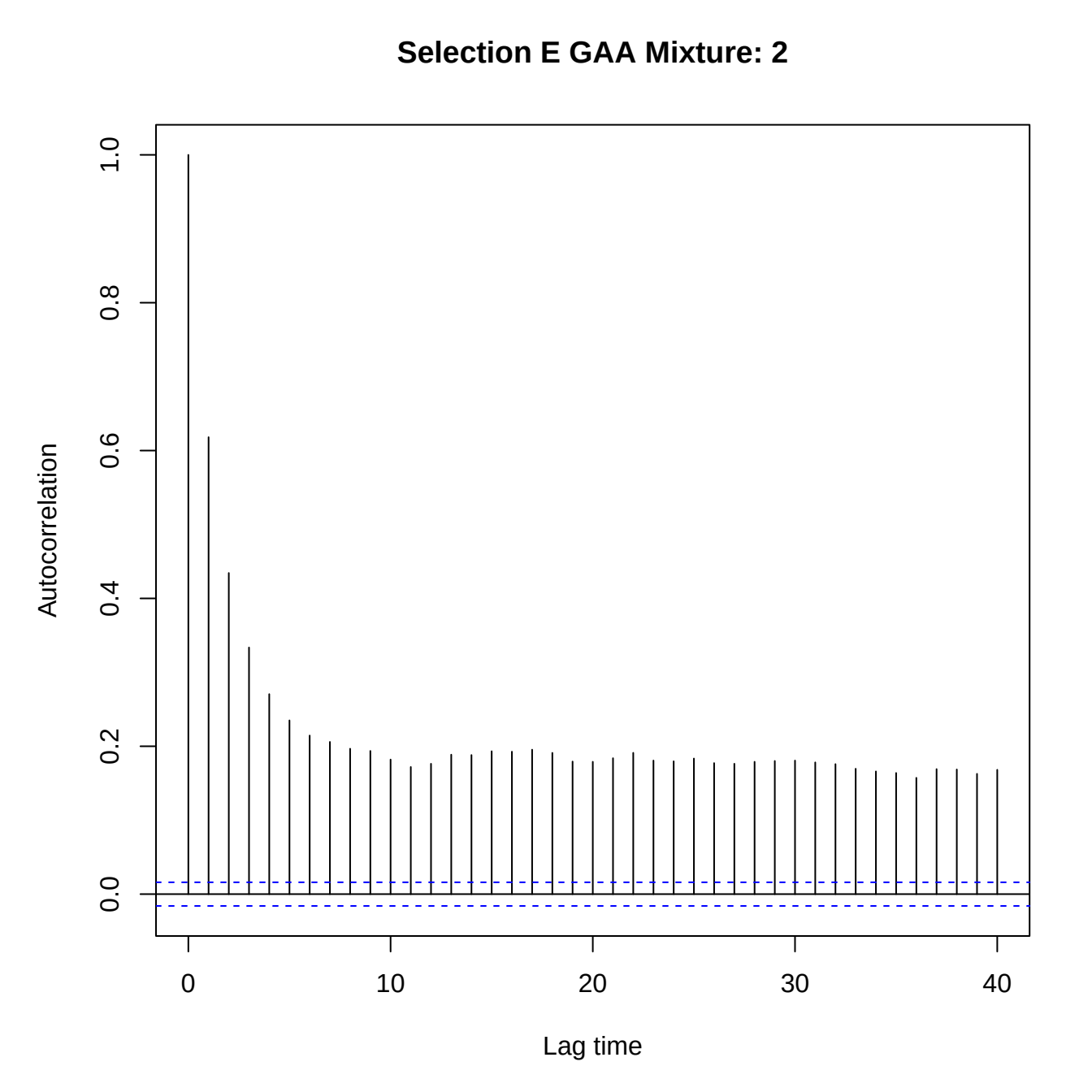

Selection C TGC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

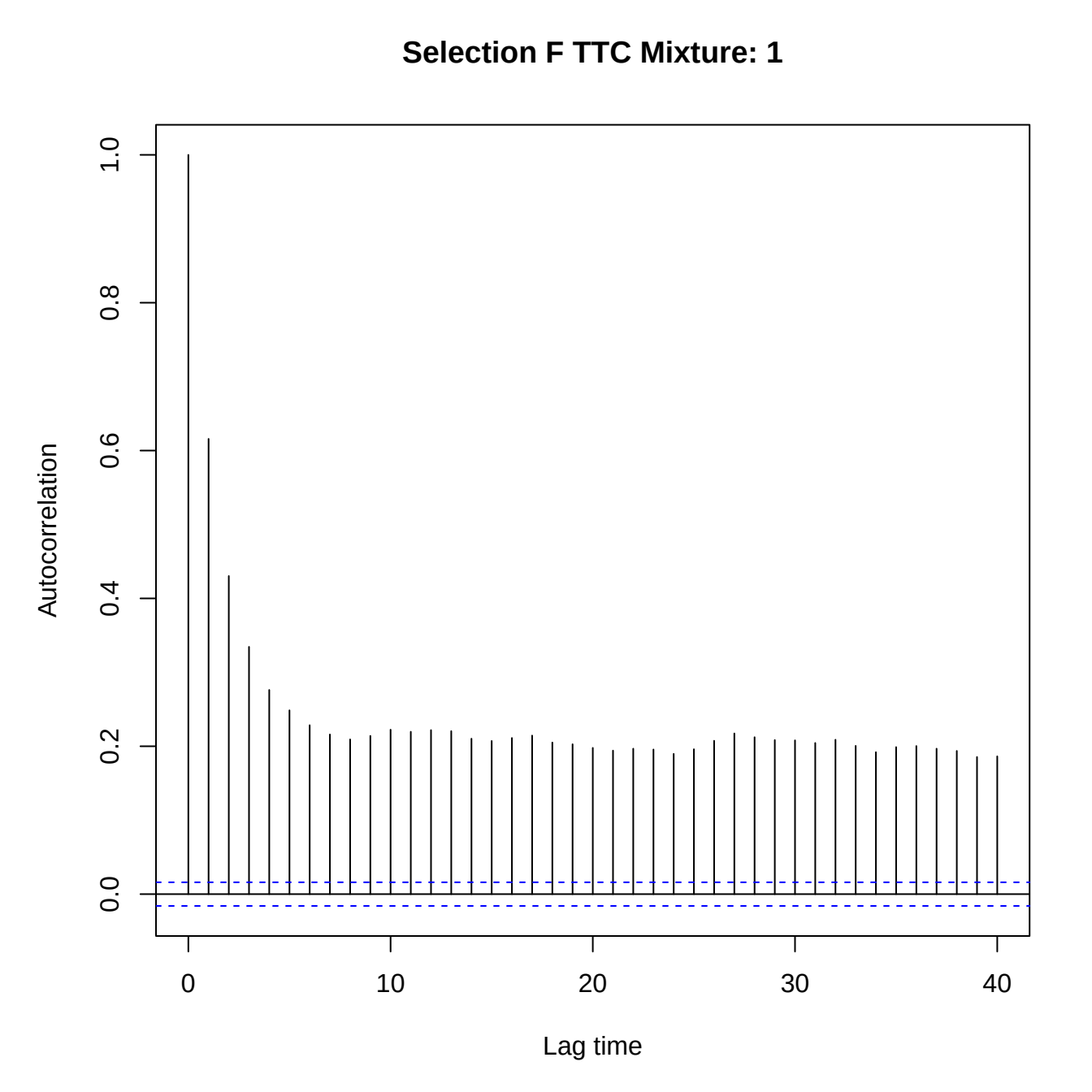

Selection C TGC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

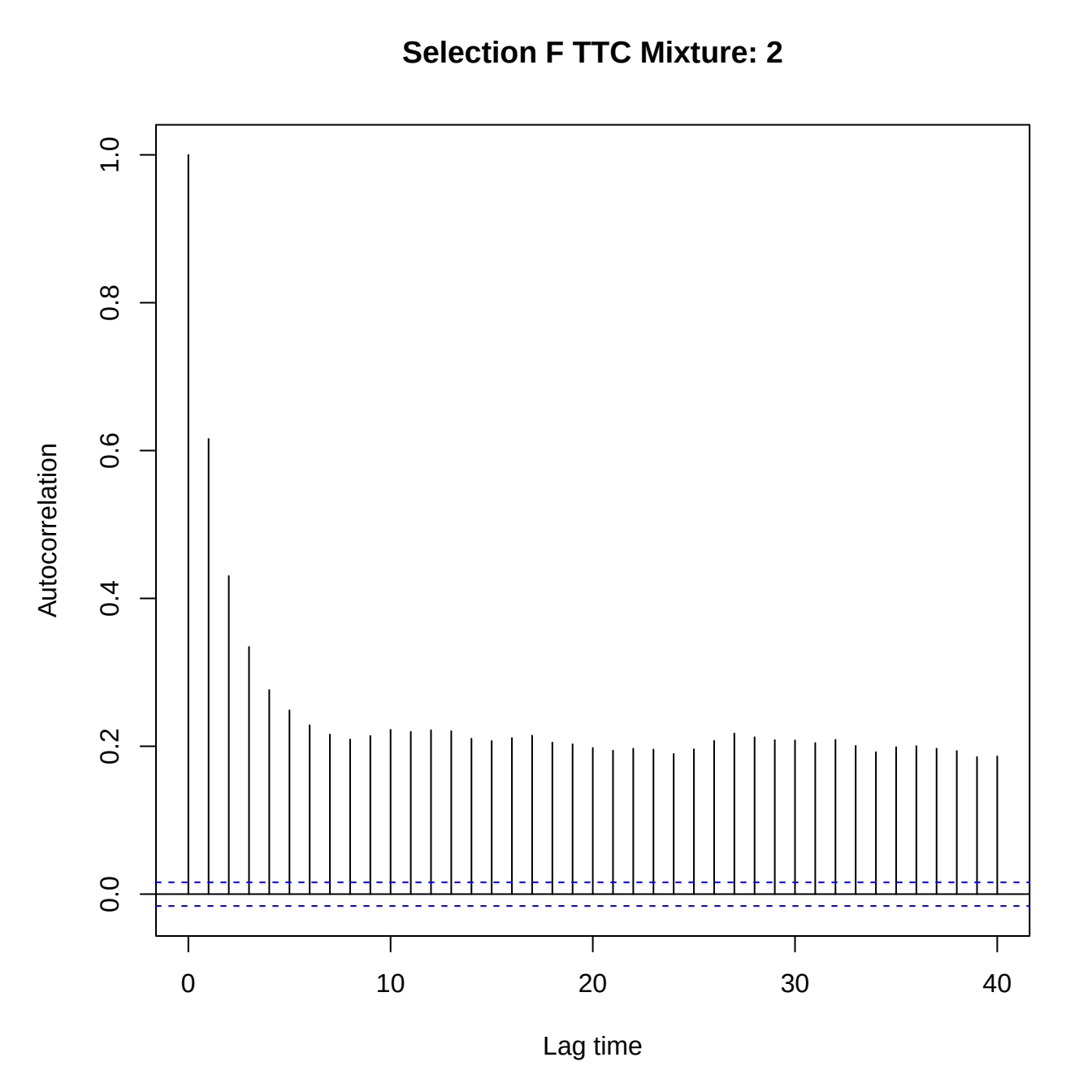

Selection D GAC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

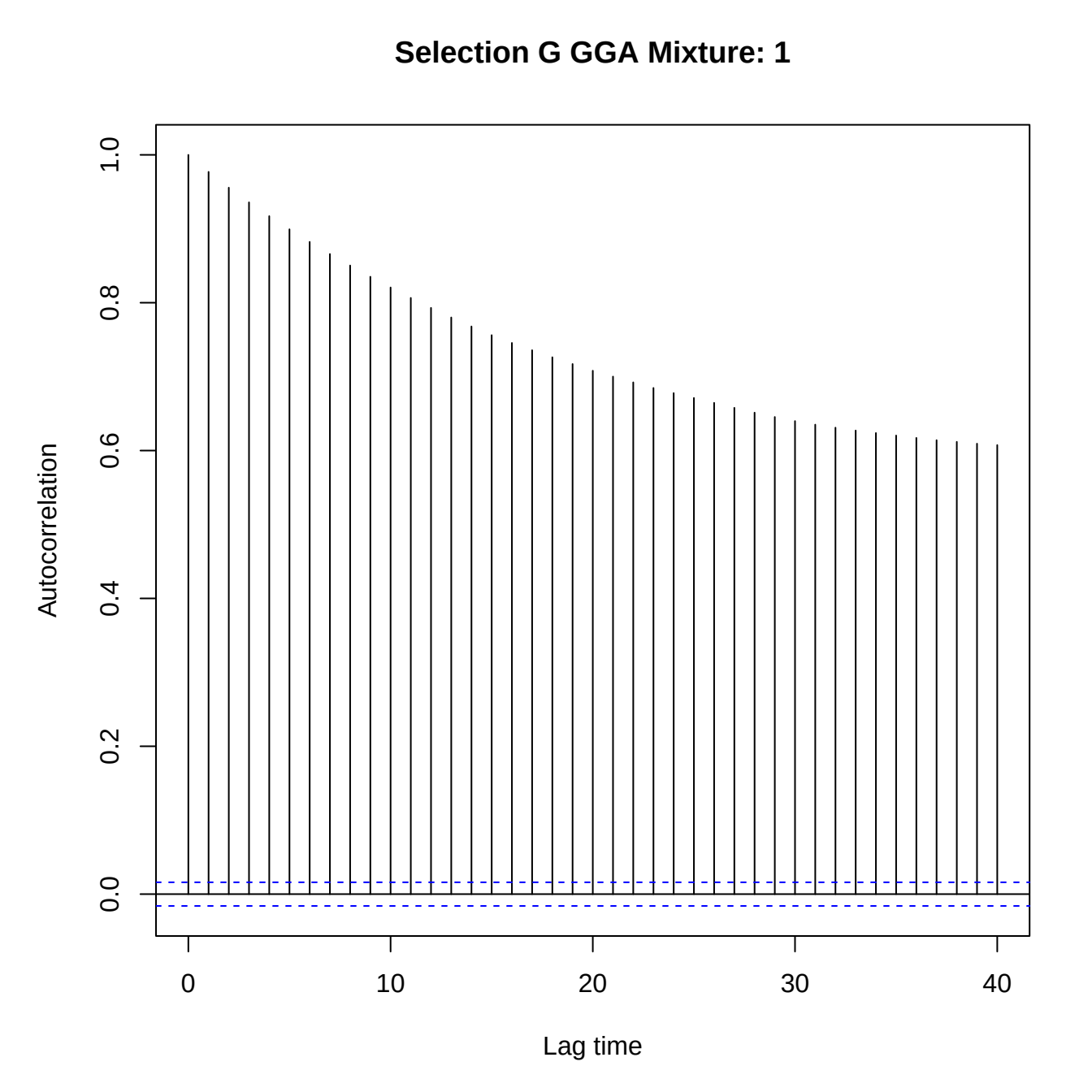

Selection D GAC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

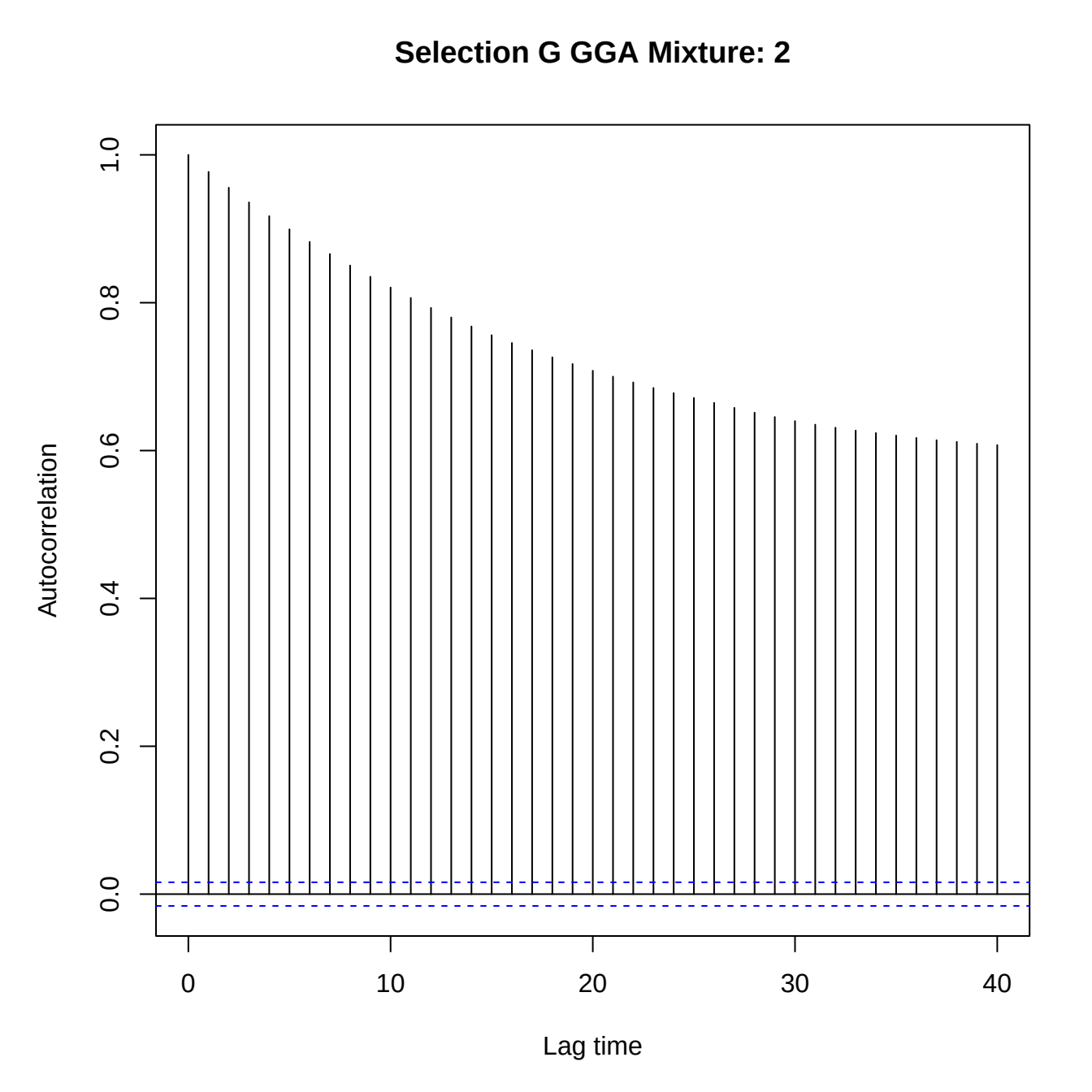

Selection E GAA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

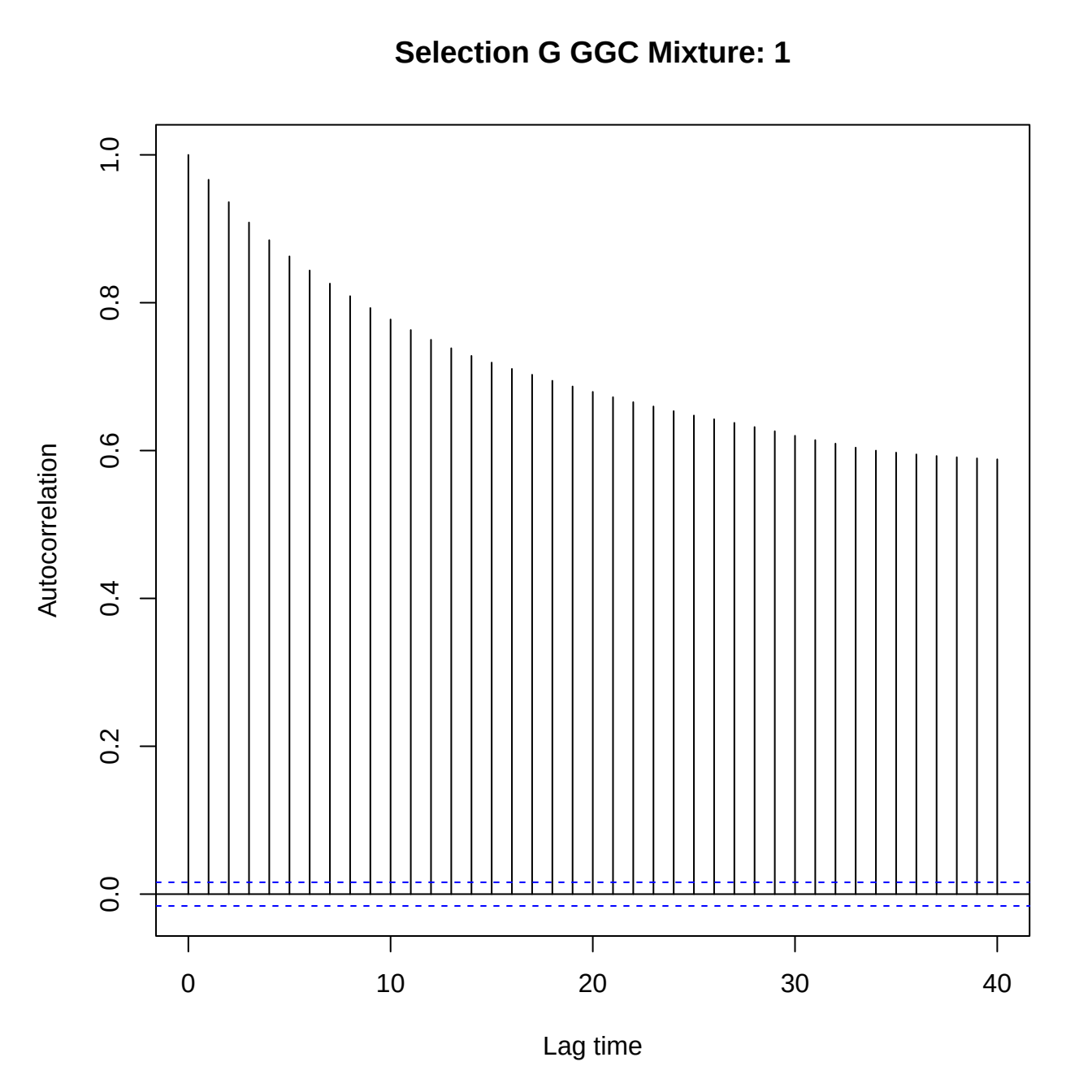

Selection E GAA Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

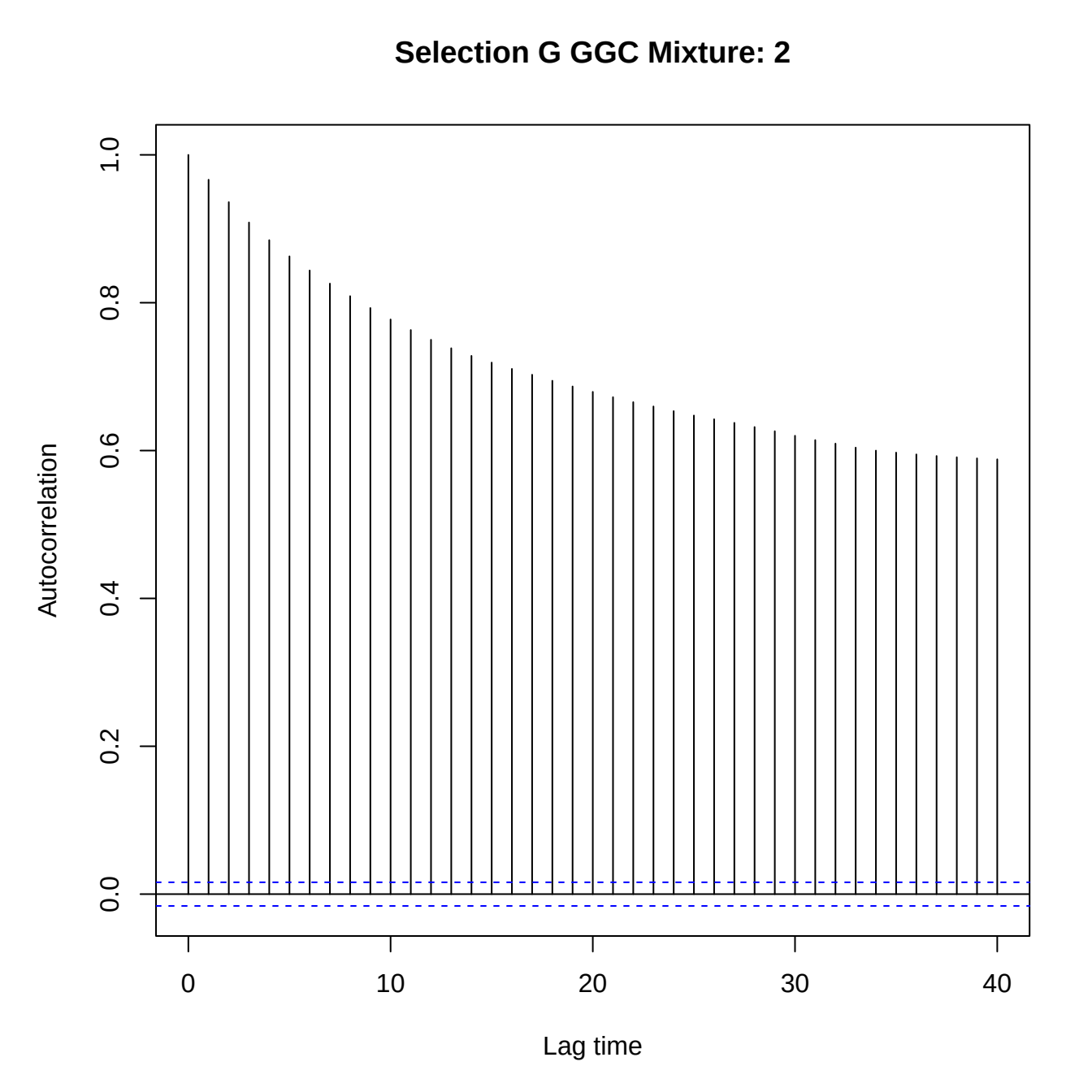

Selection F TTC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

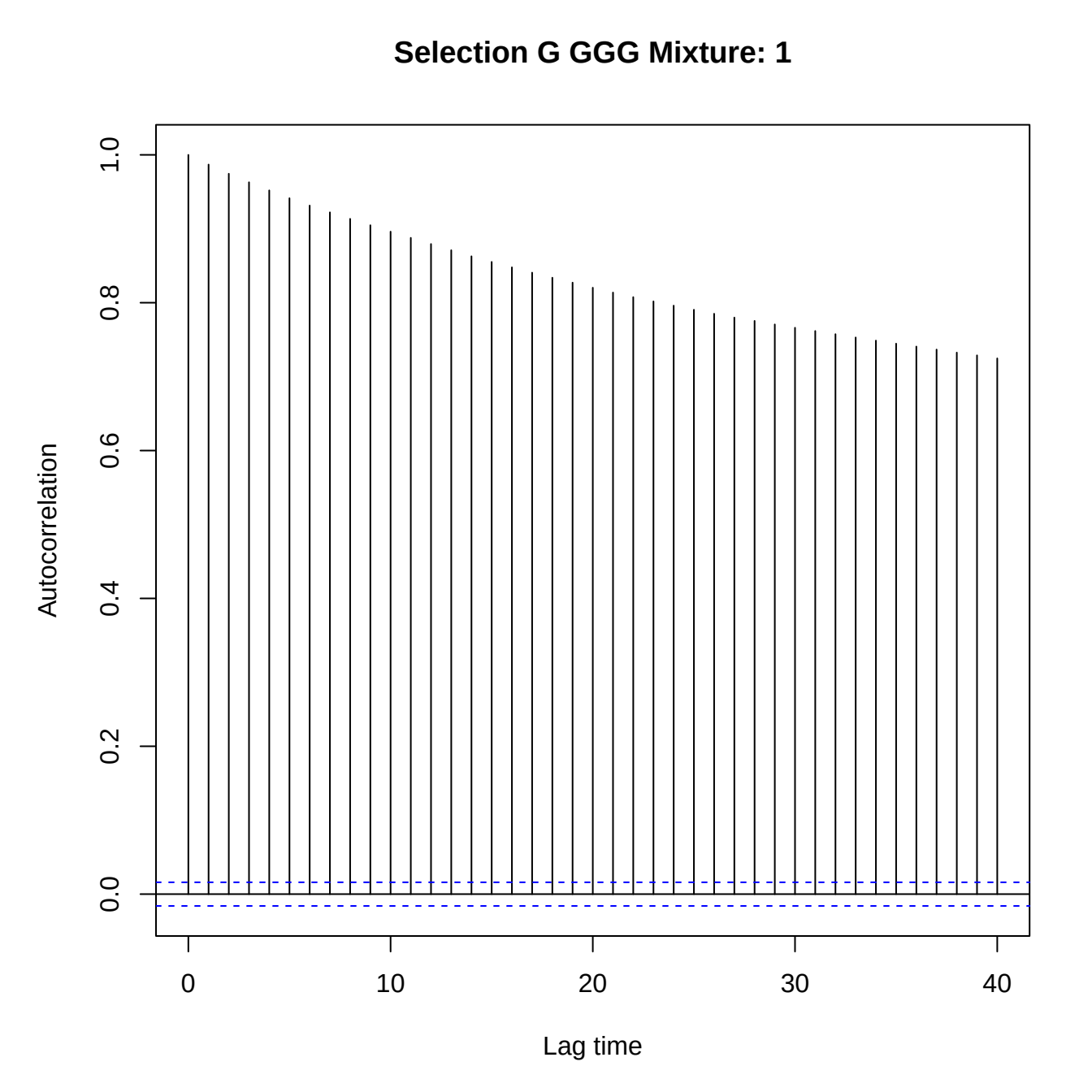

Selection F TTC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection G GGA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection G GGA Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection G GGC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection G GGC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection G GGG Mixture: 1
Autocorrelation
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0.2
0.4
0.6
0.8
1.0
0
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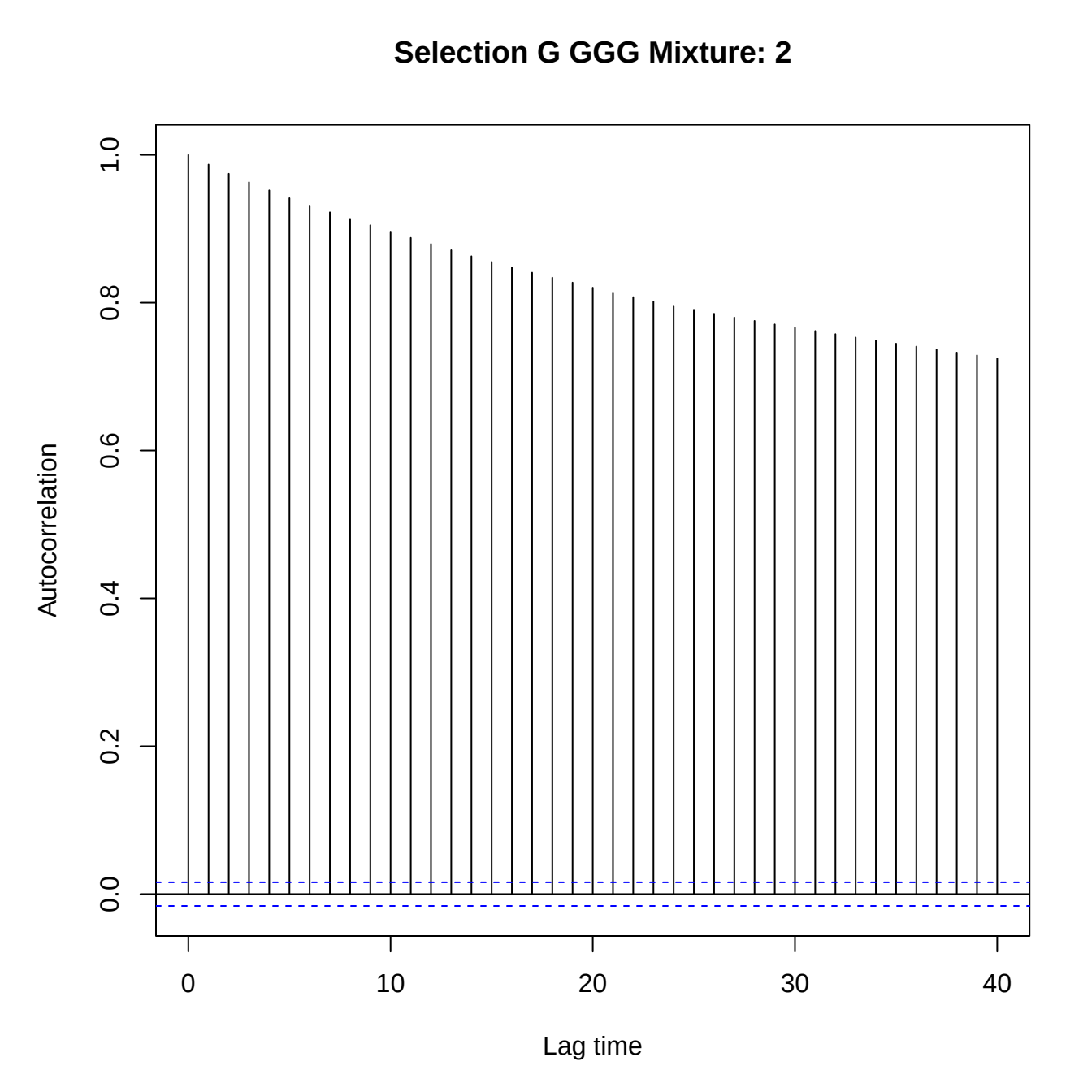
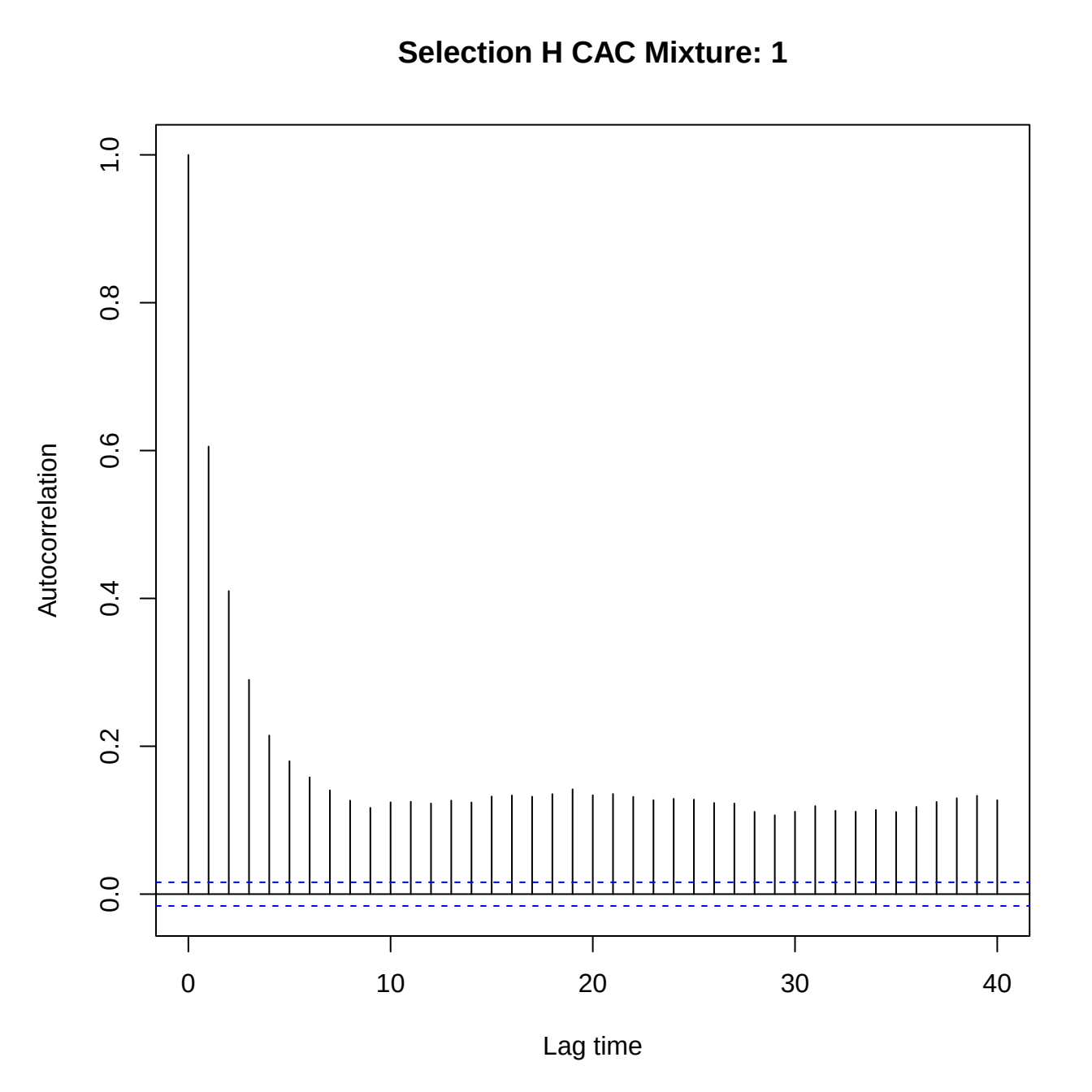
20
30
40
Lag time


Selection G GGG Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection H CAC Mixture: 1
Autocorrelation
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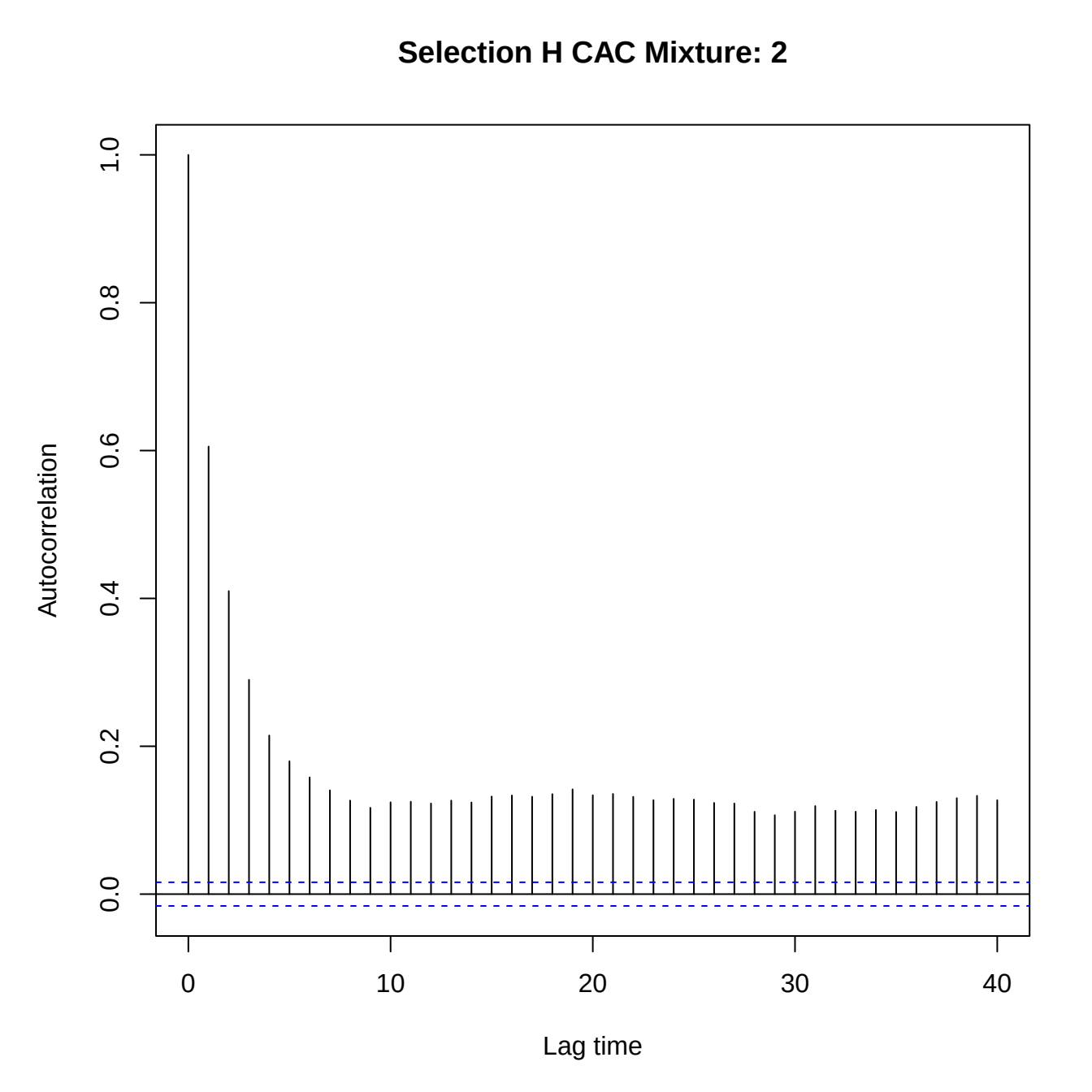
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection H CAC Mixture: 2
Autocorrelation
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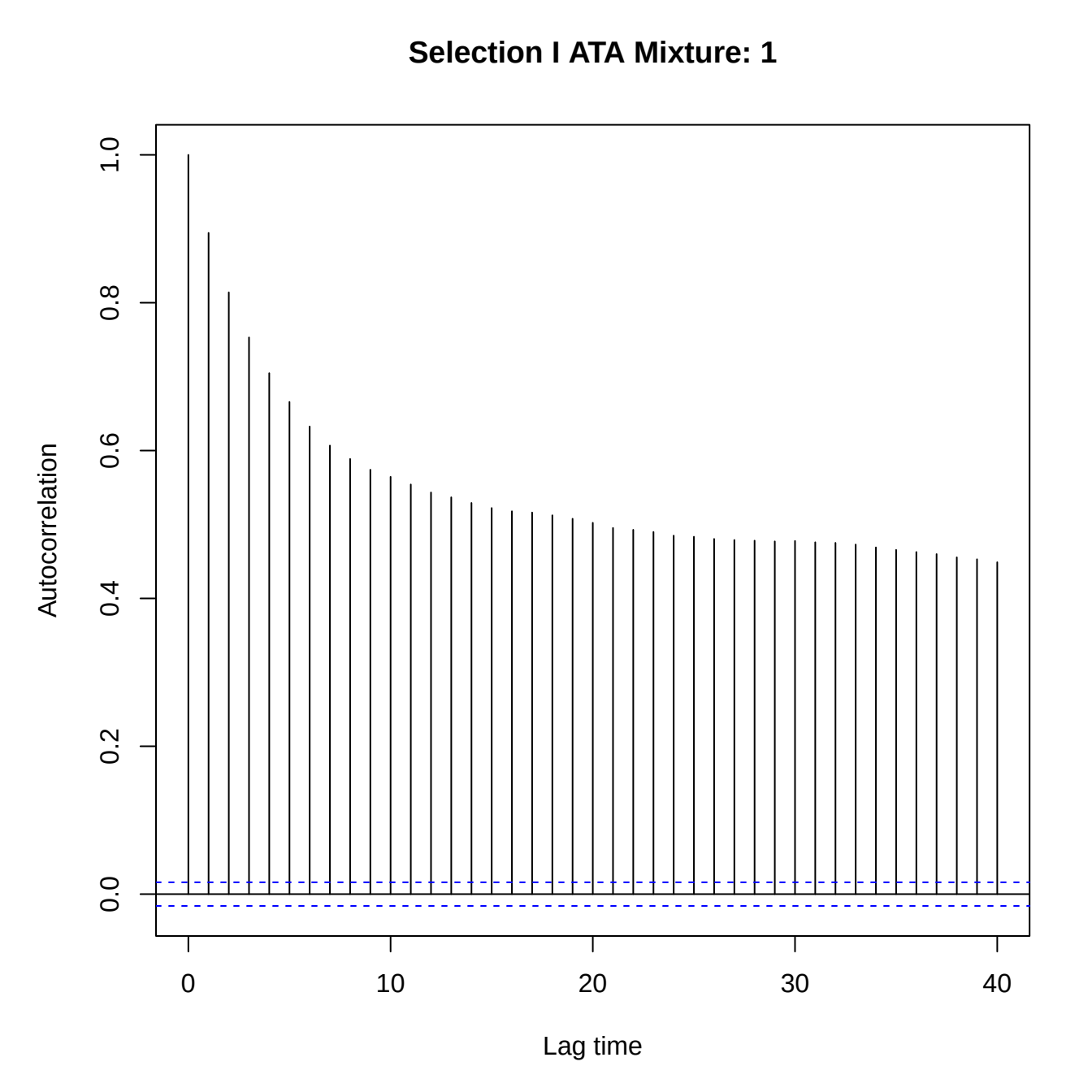
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection I ATA Mixture: 1
Autocorrelation
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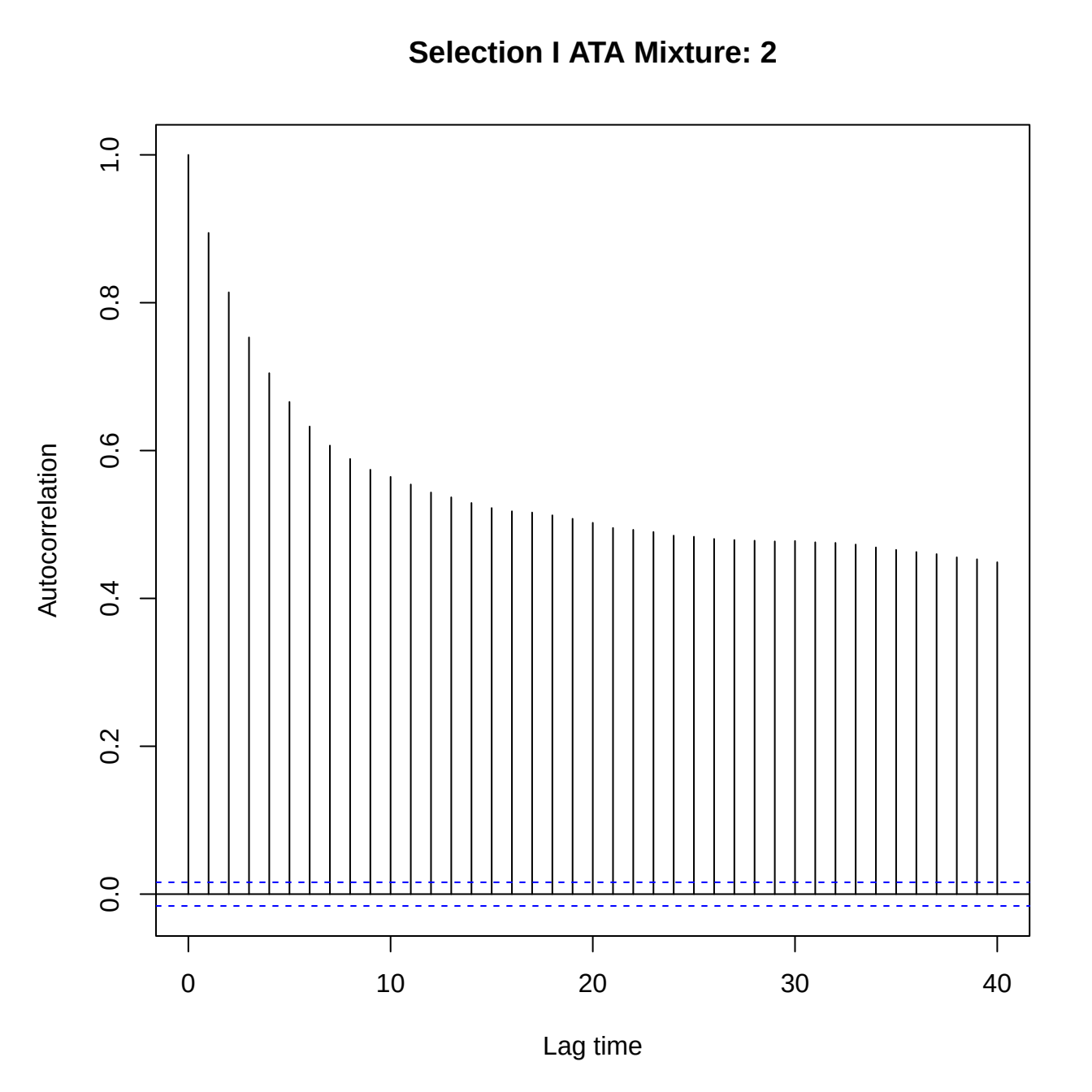
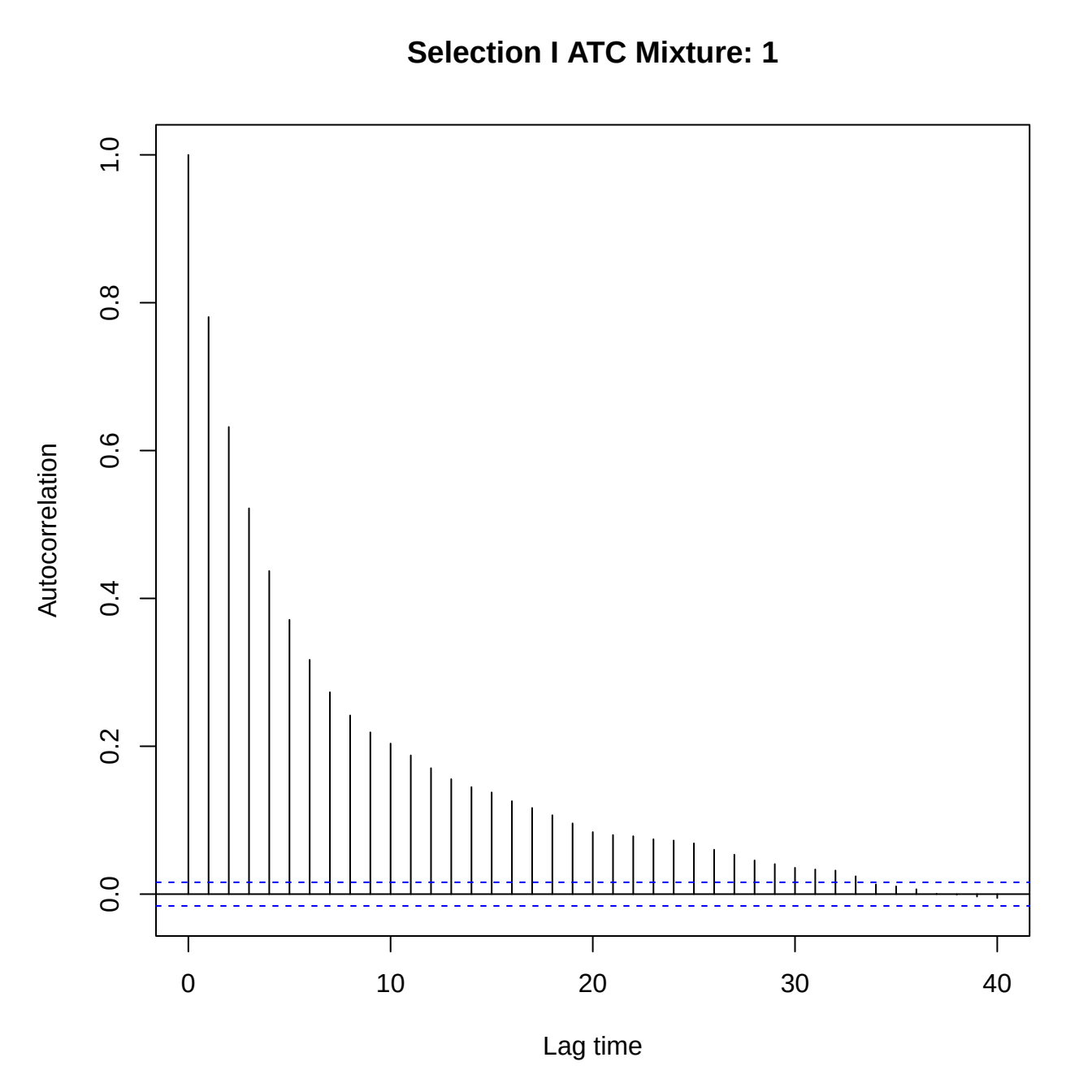
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection I ATA Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection I ATC Mixture: 1
Autocorrelation
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0.4
0.6
0.8
1.0
0
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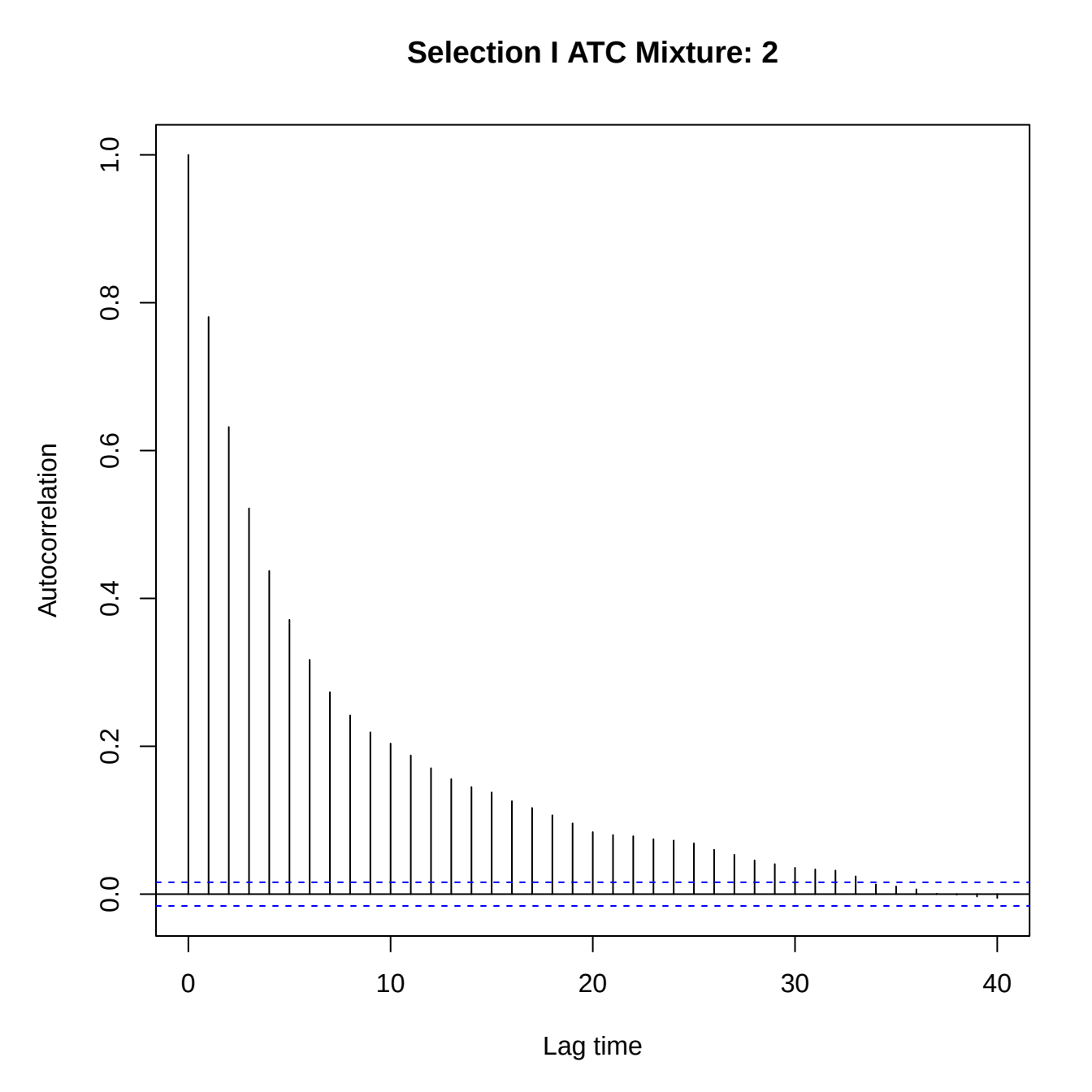
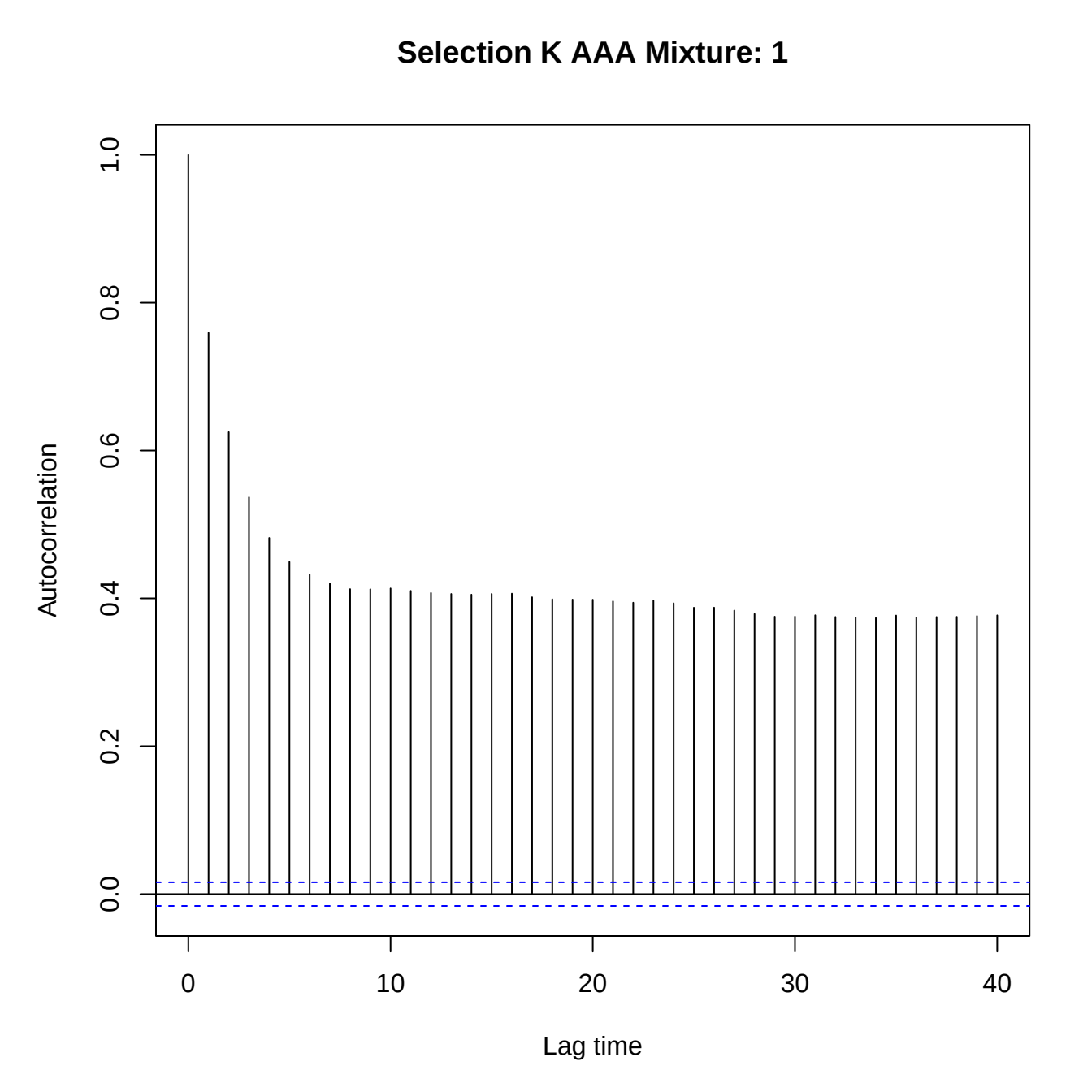
20
30
40
Lag time


Selection I ATC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection K AAA Mixture: 1
Autocorrelation
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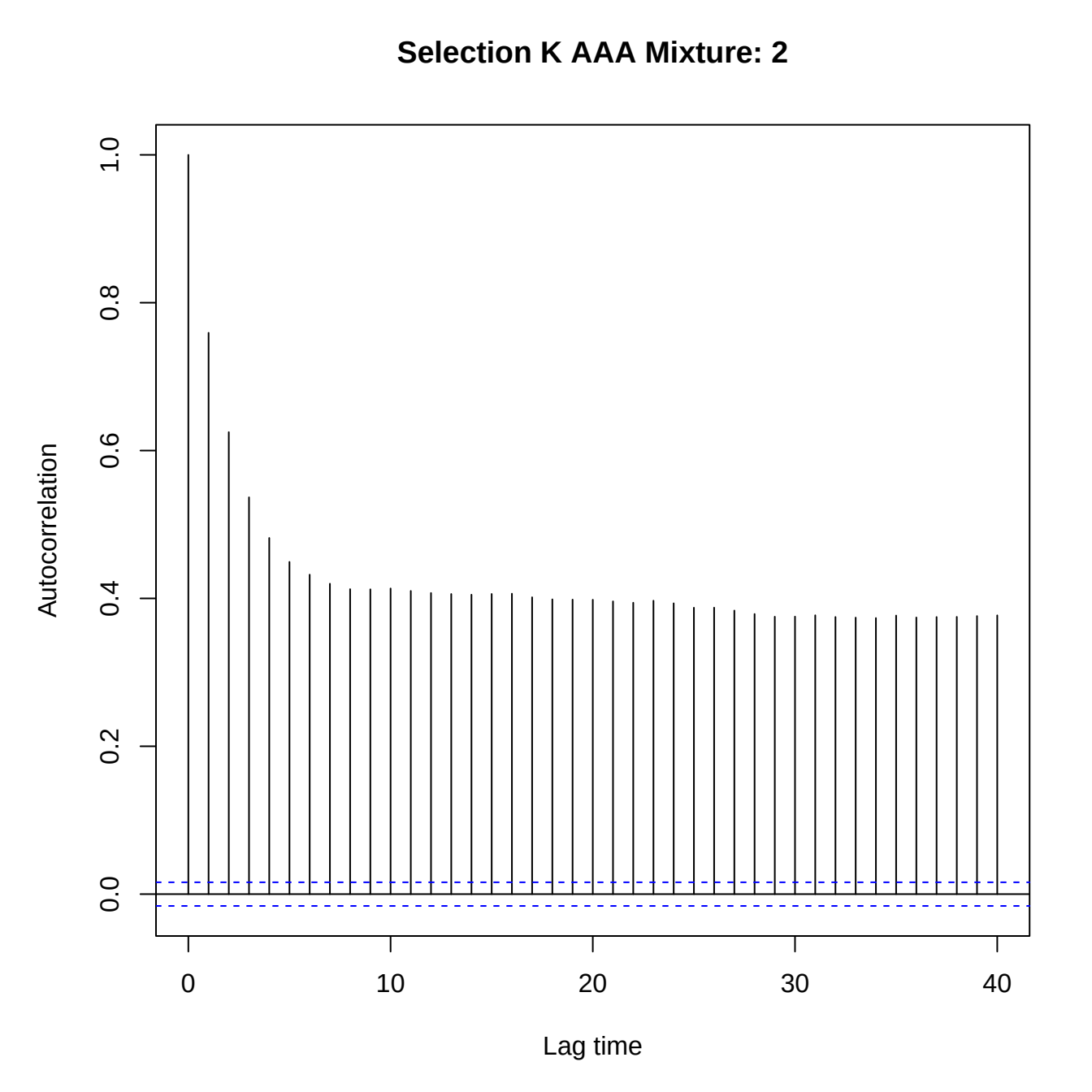
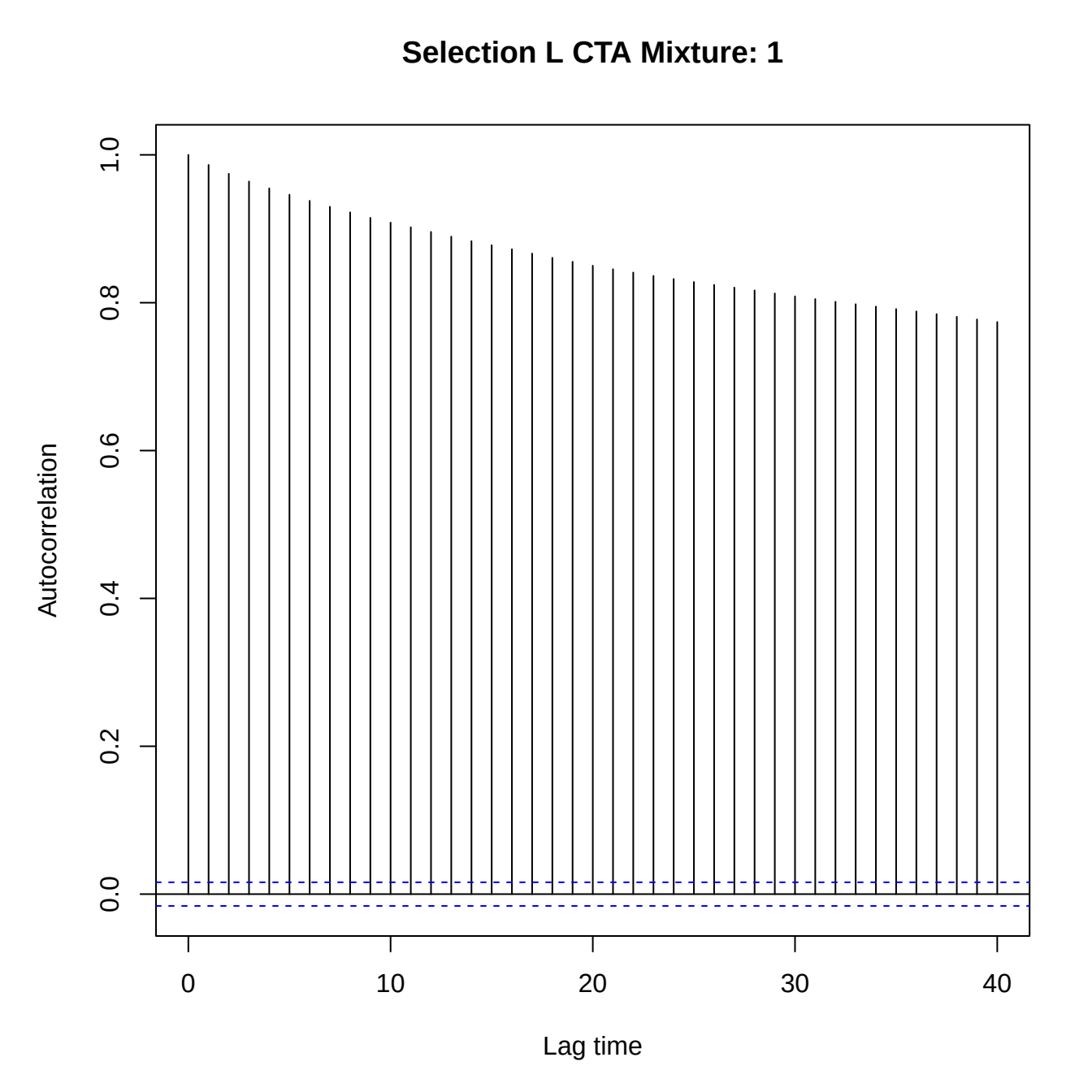
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection K AAA Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection L CTA Mixture: 1
Autocorrelation
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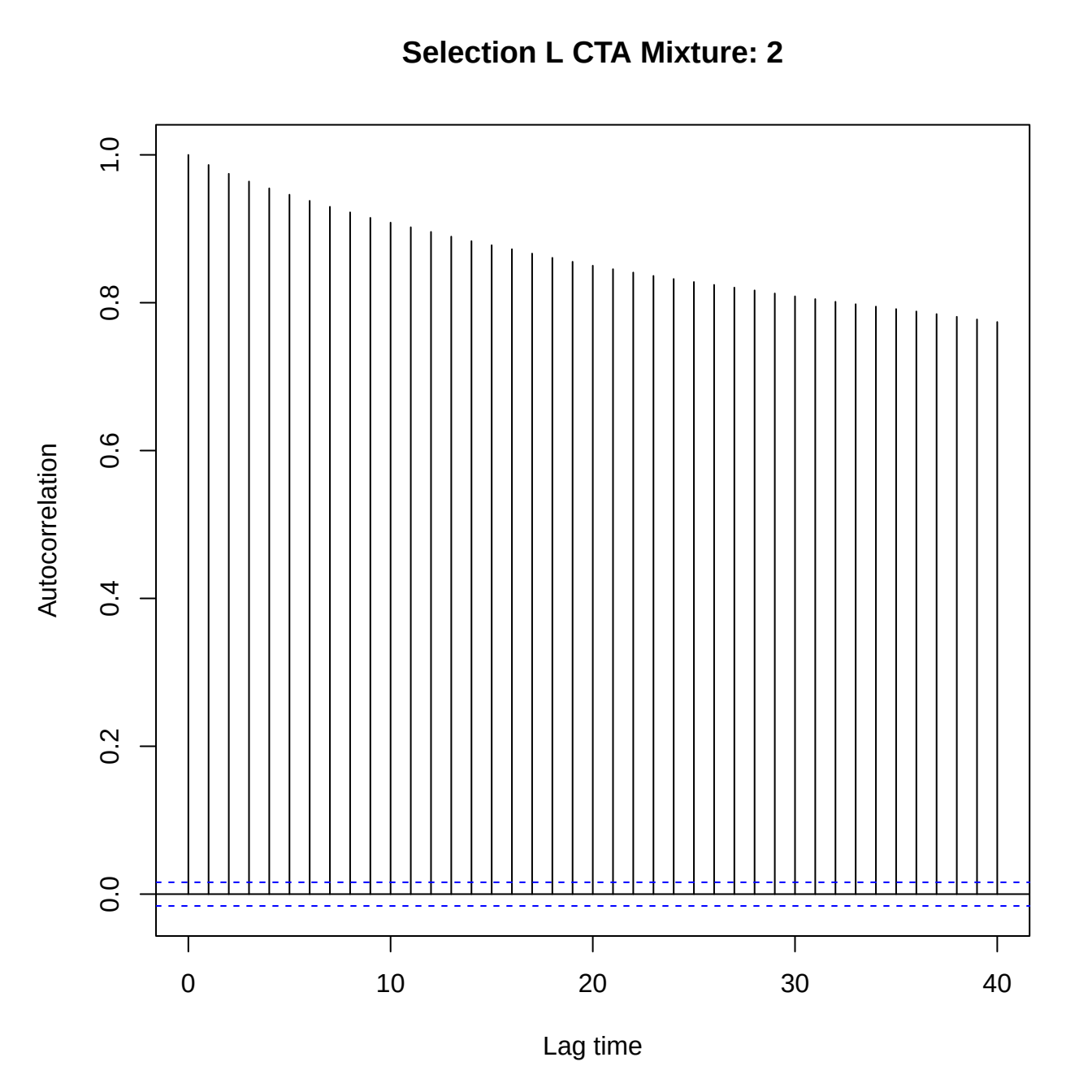
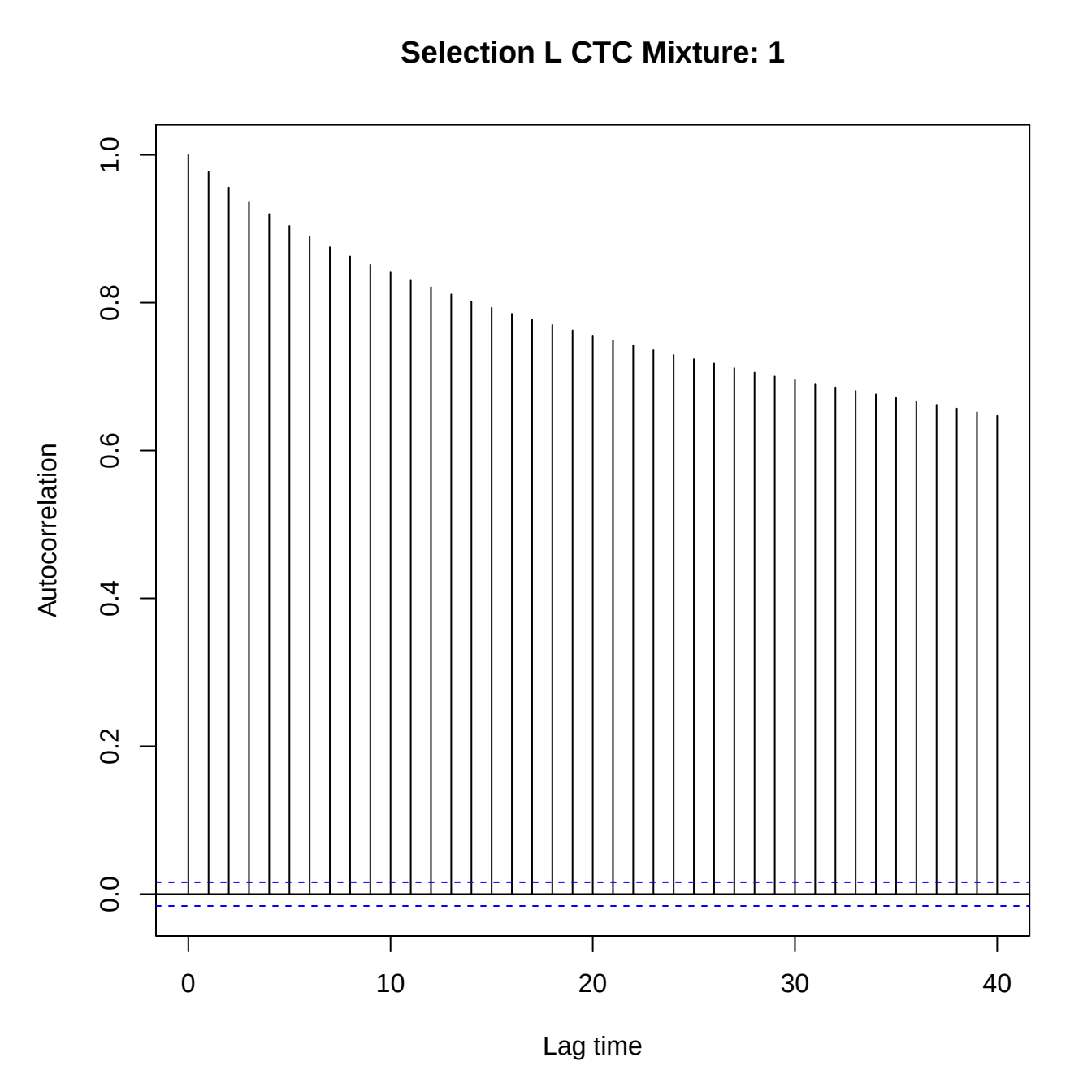
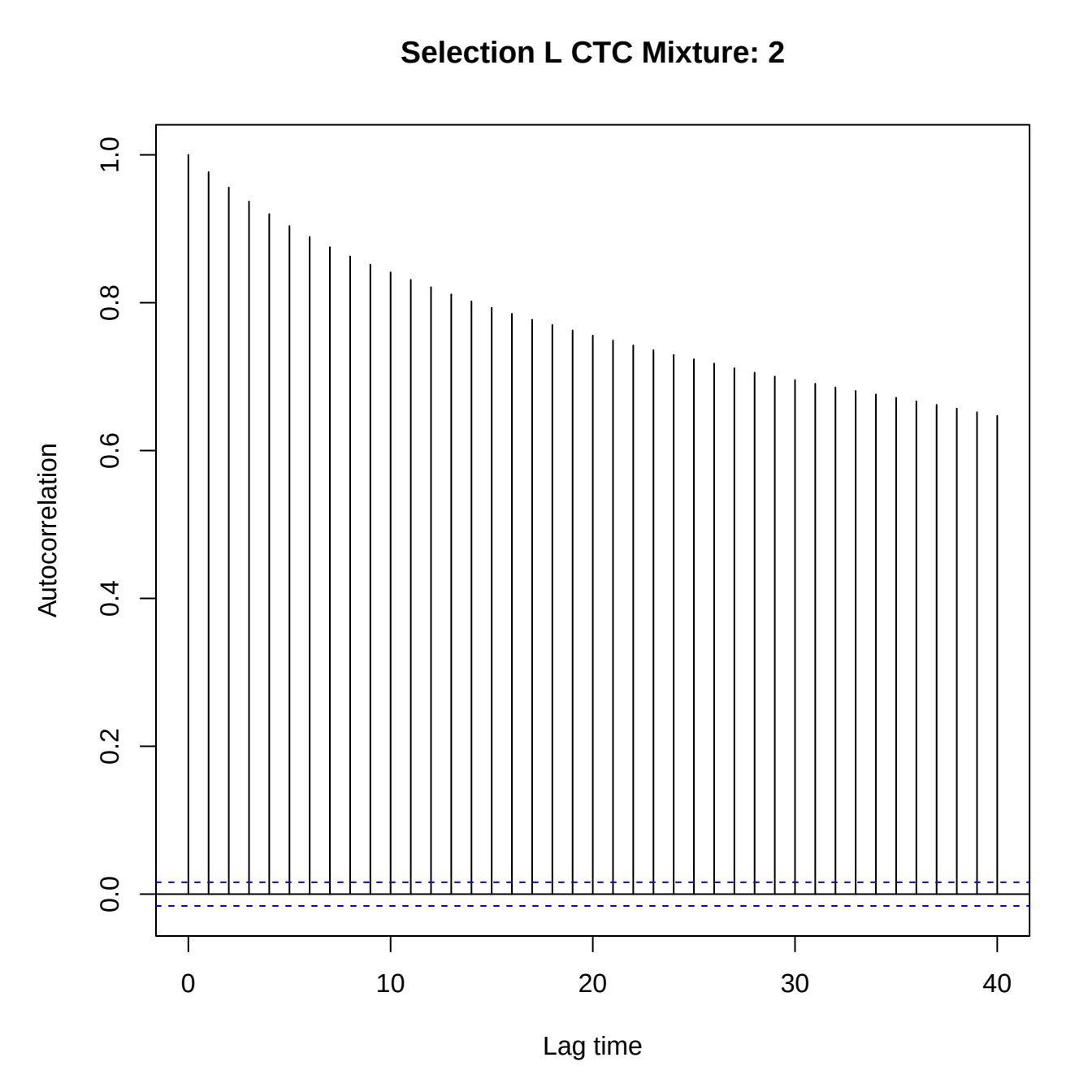
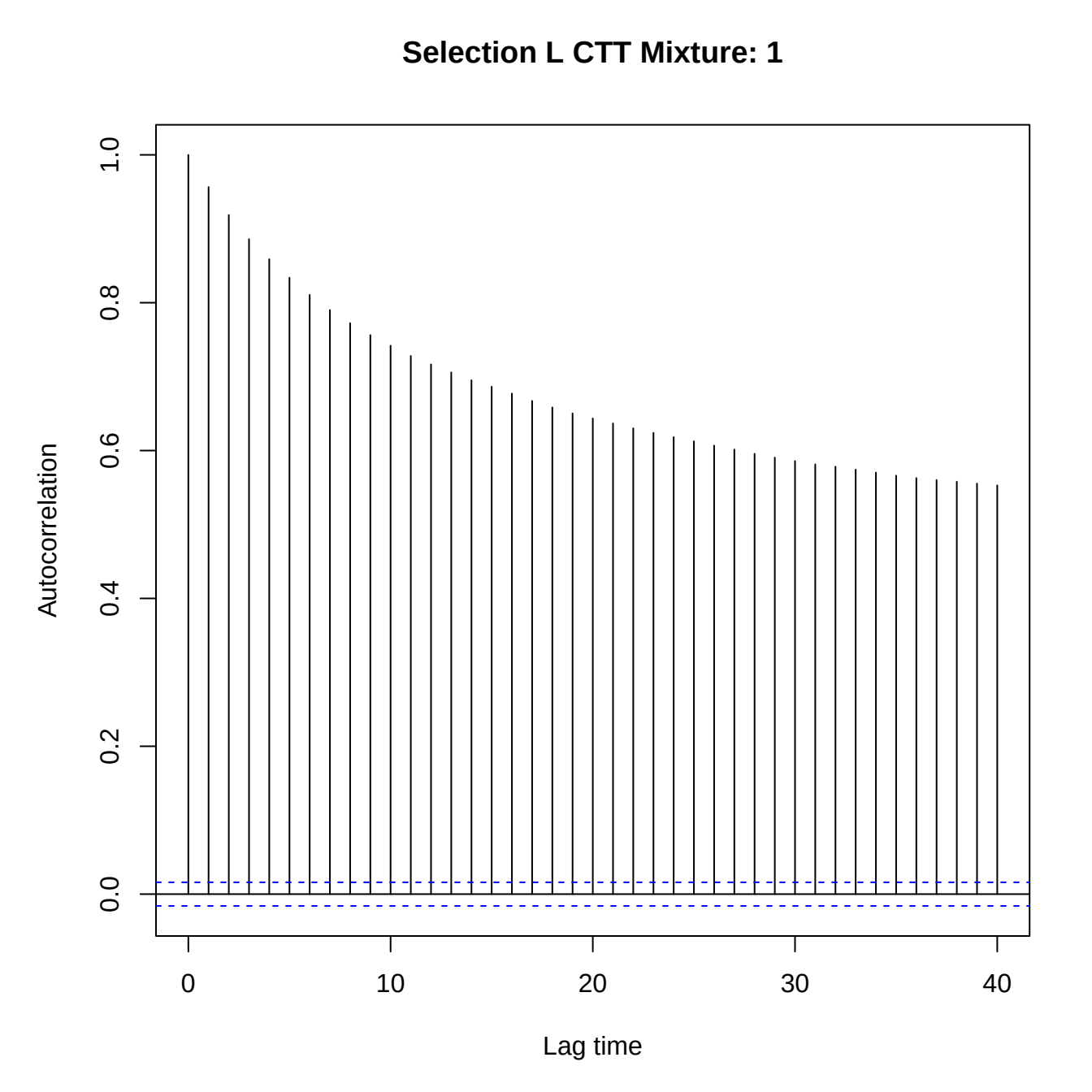
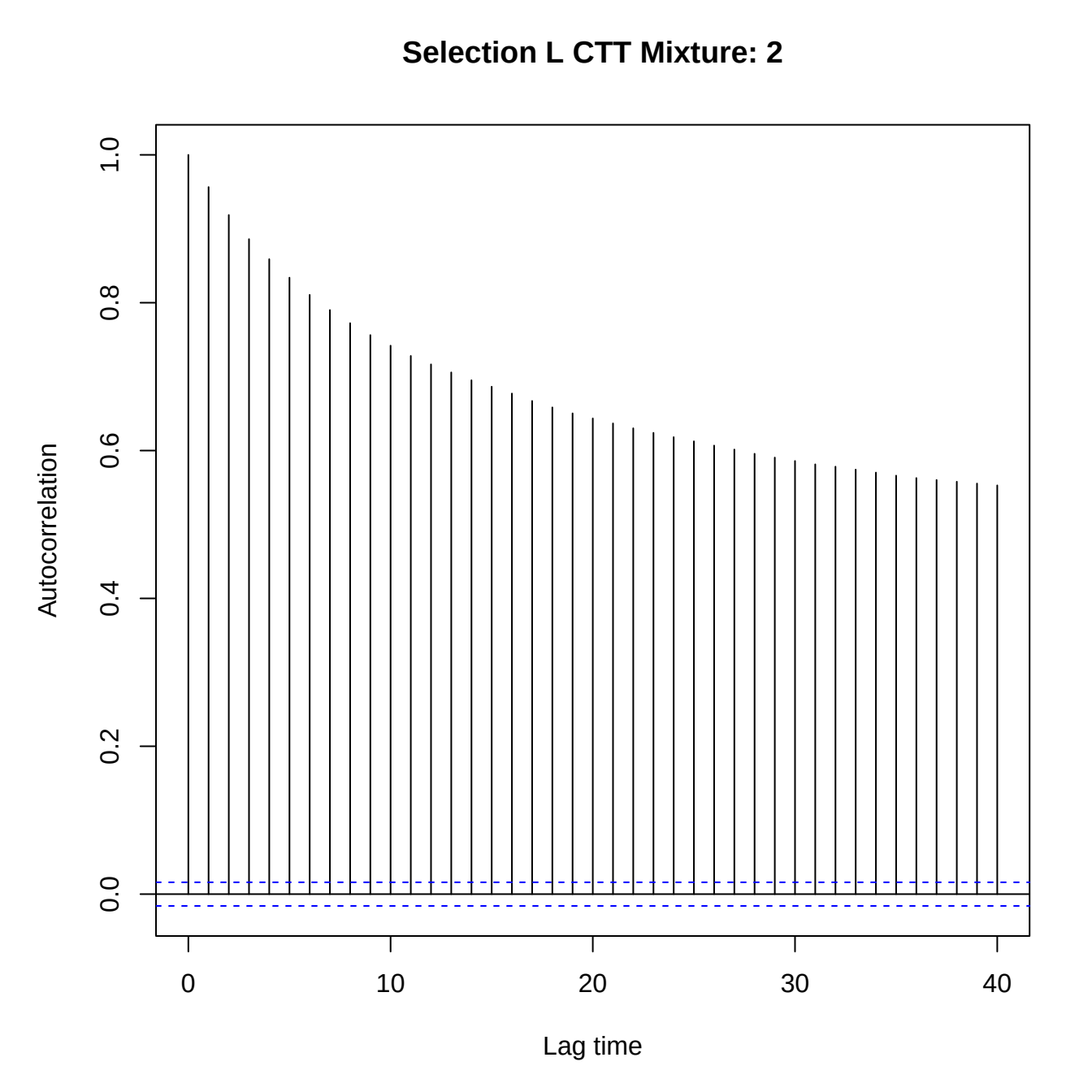
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

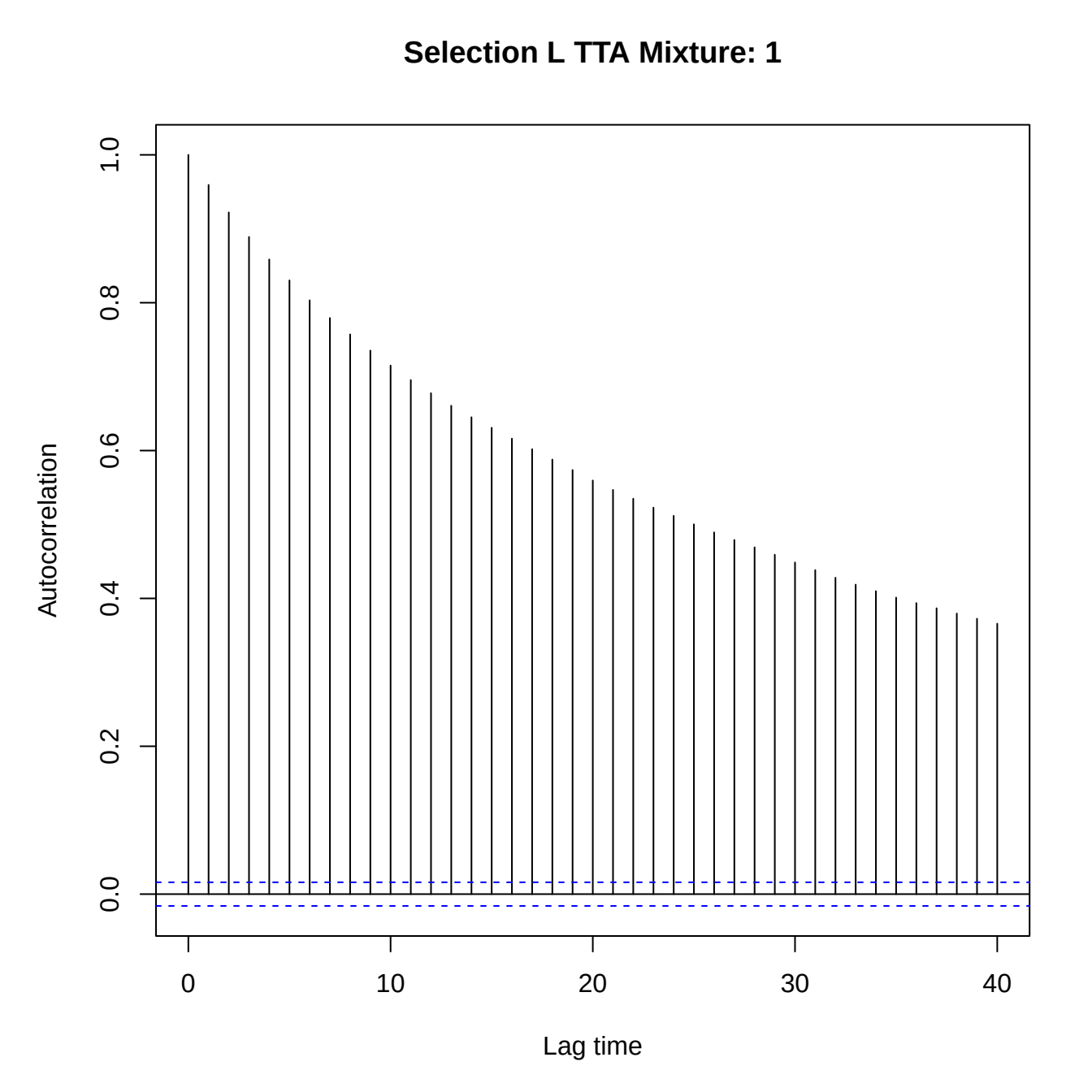

Selection L CTA Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time

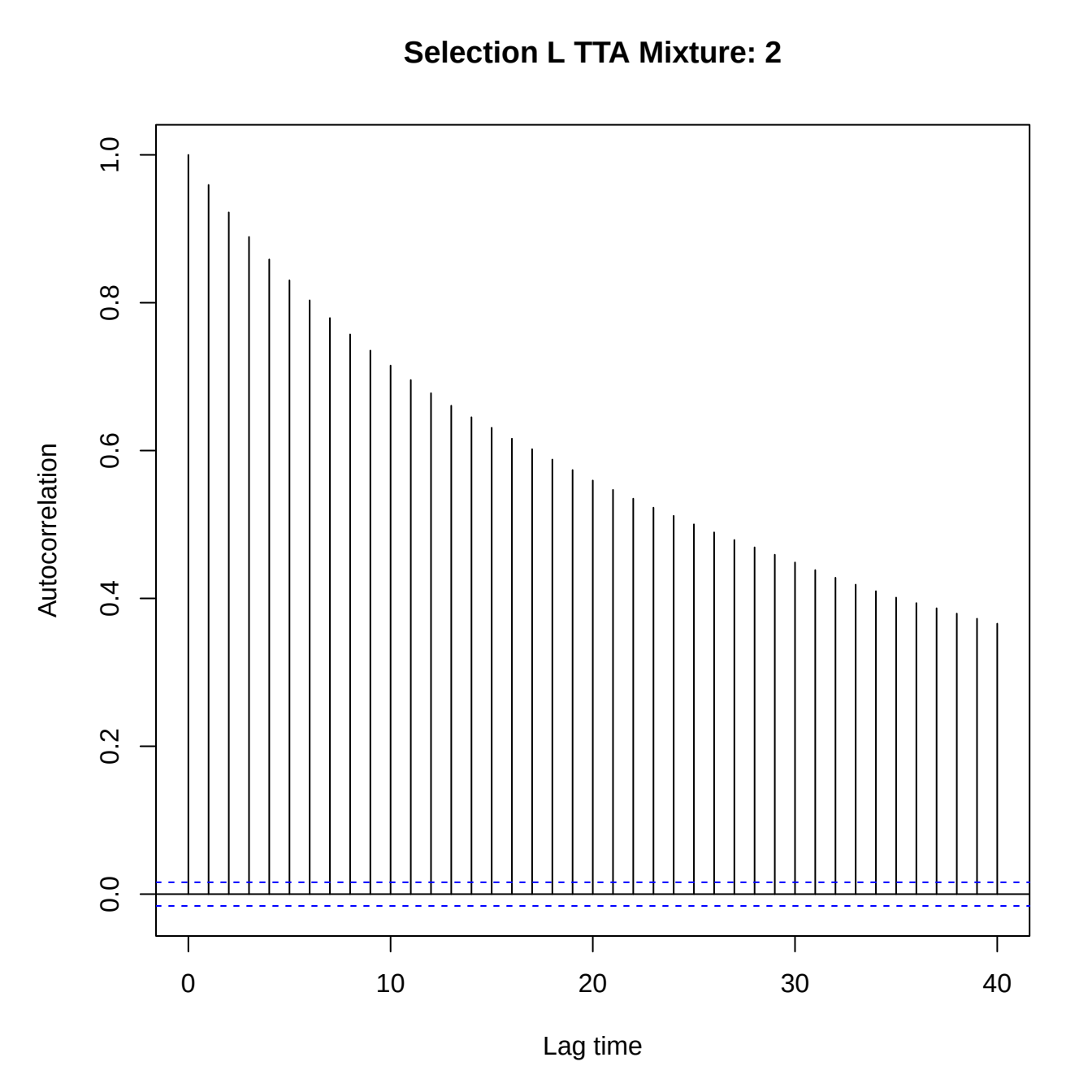

Selection L CTC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection L CTC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection L CTT Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection L CTT Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection L TTA Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Selection L TTA Mixture: 2
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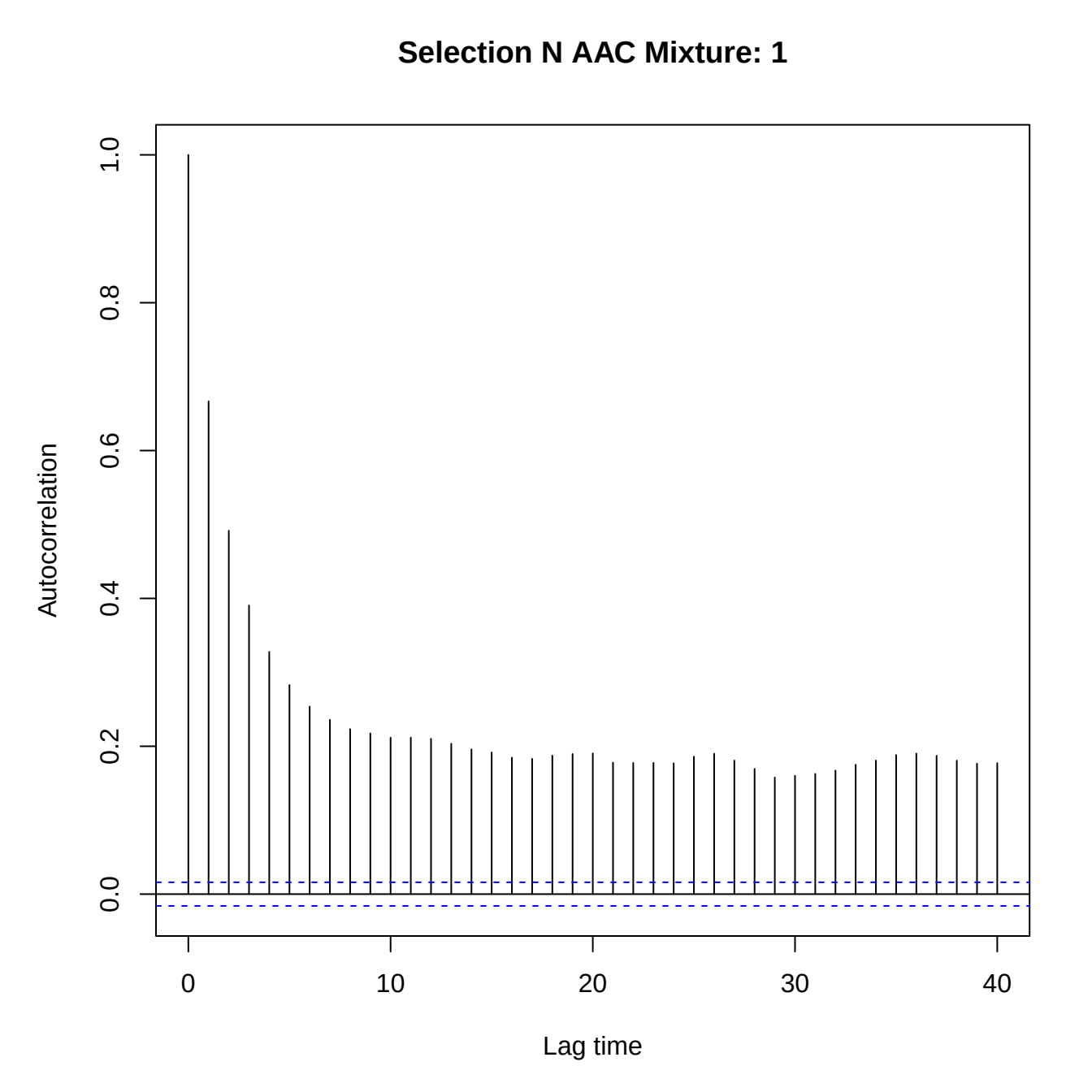
Lag time


Selection N AAC Mixture: 1
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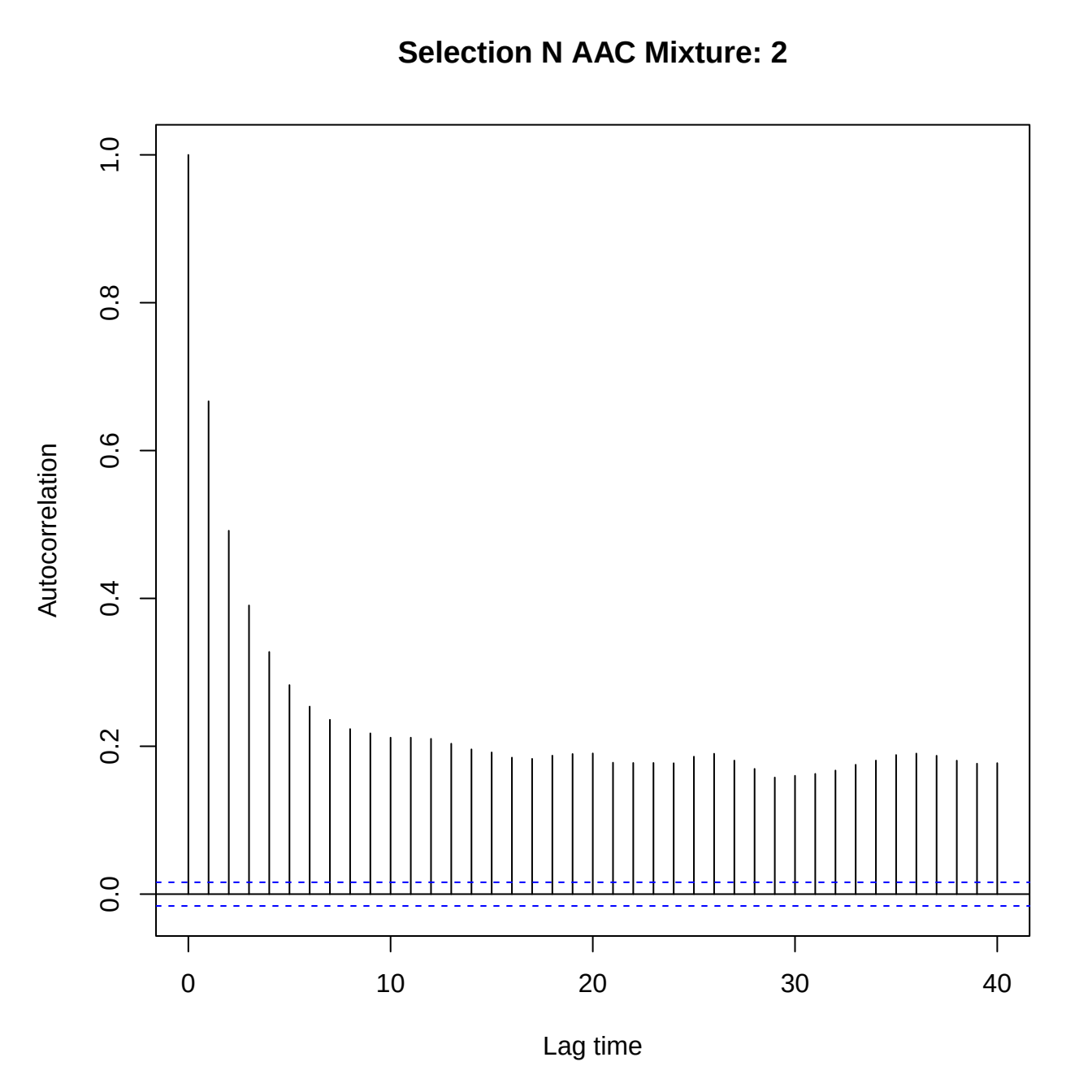
Lag time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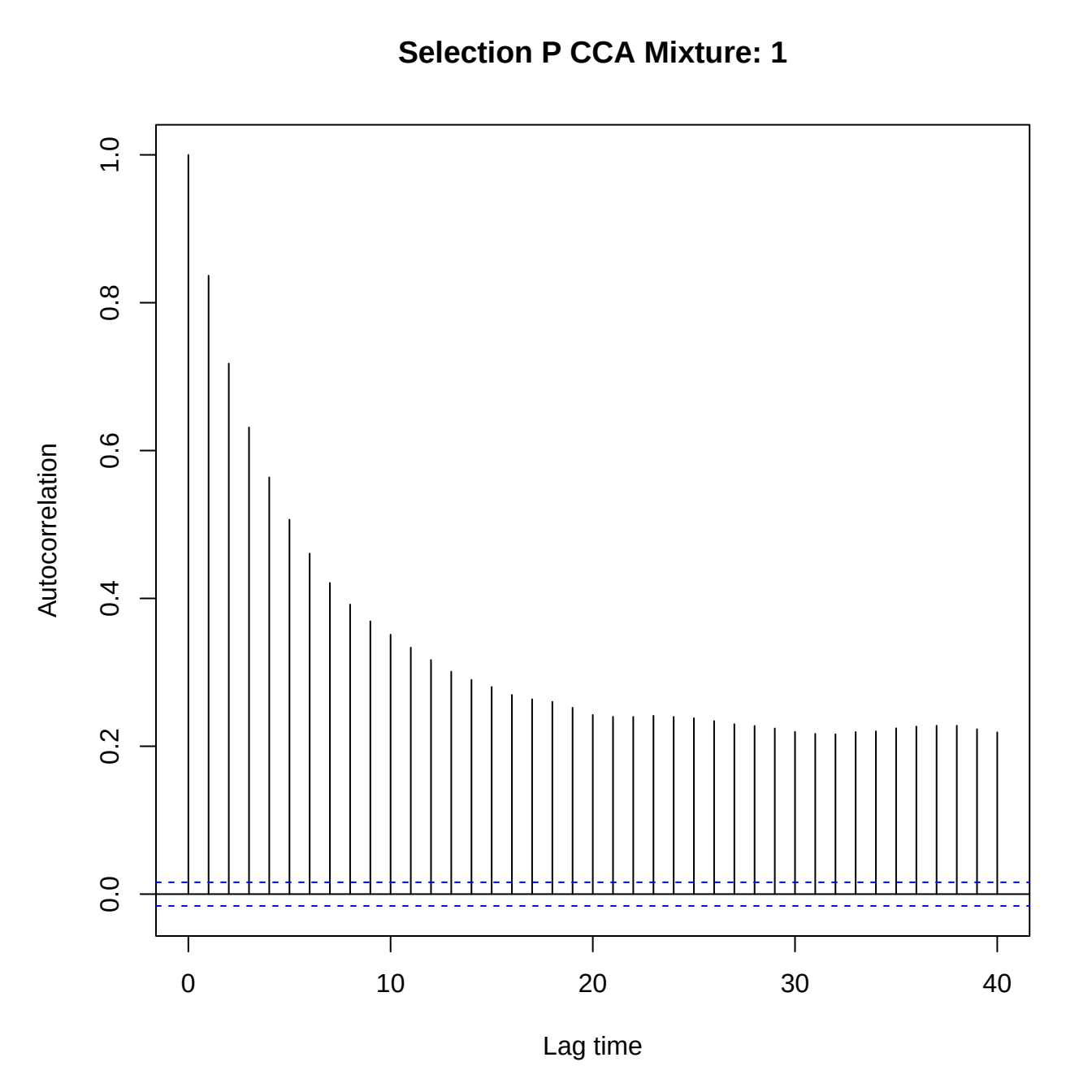
Lag time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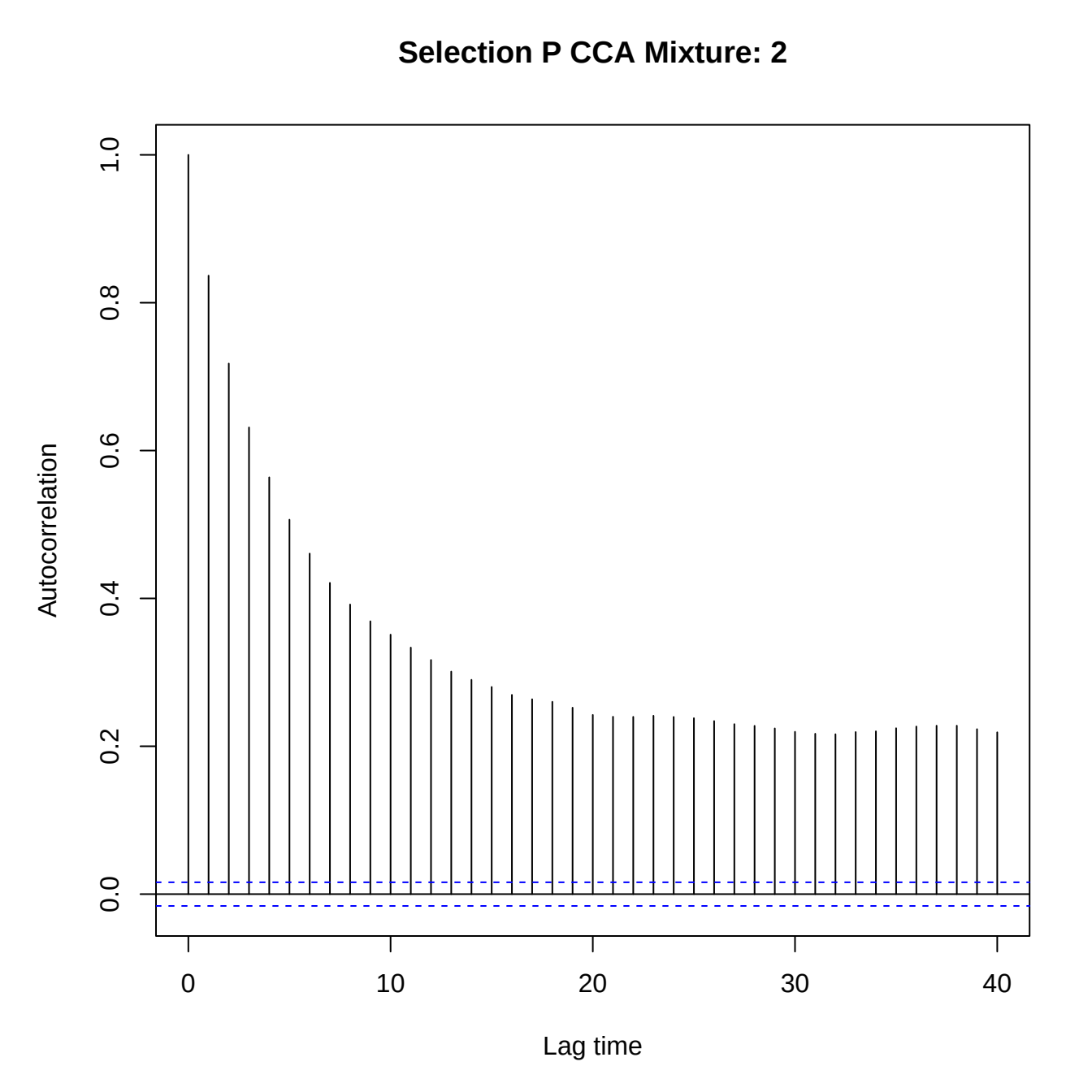
Lag time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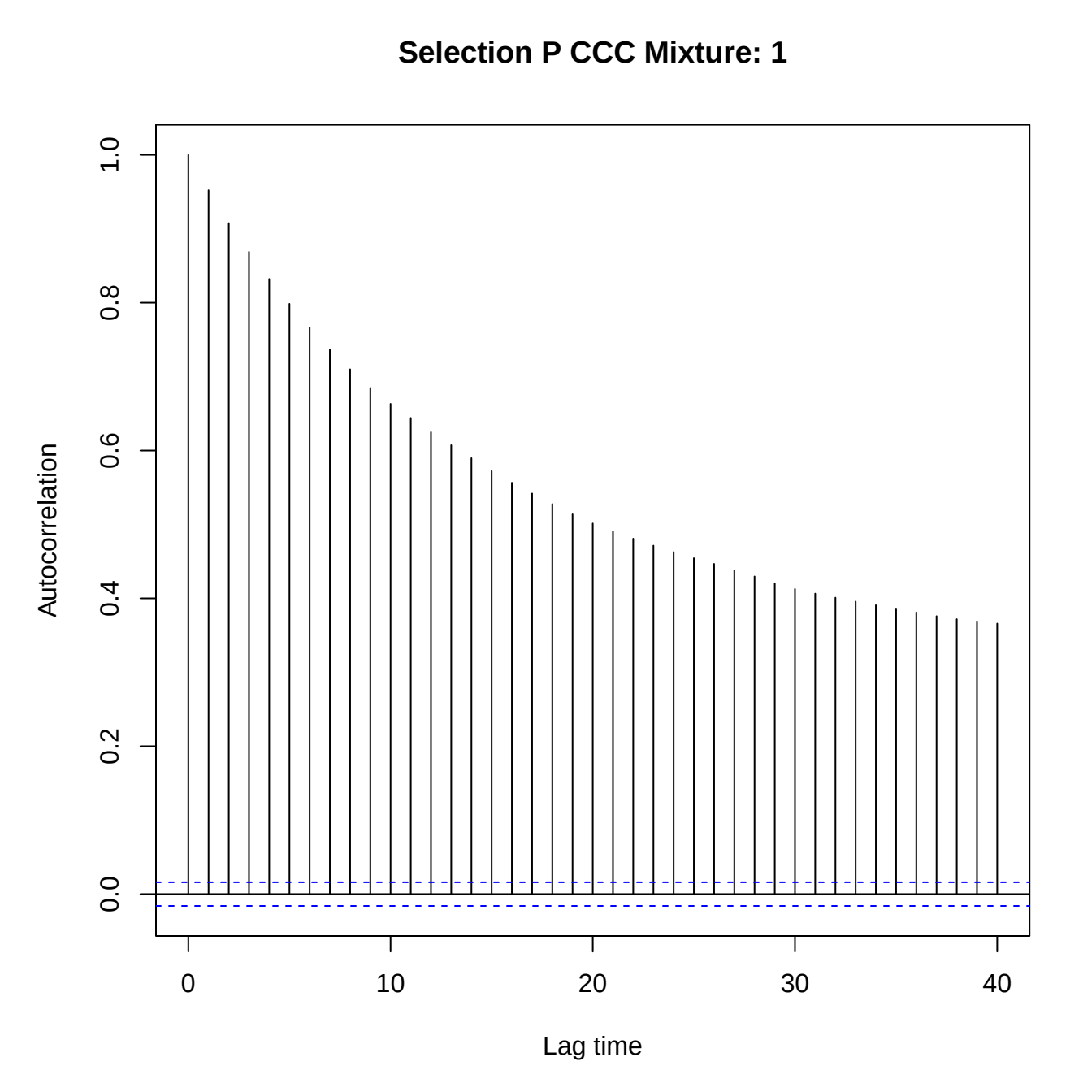
Lag time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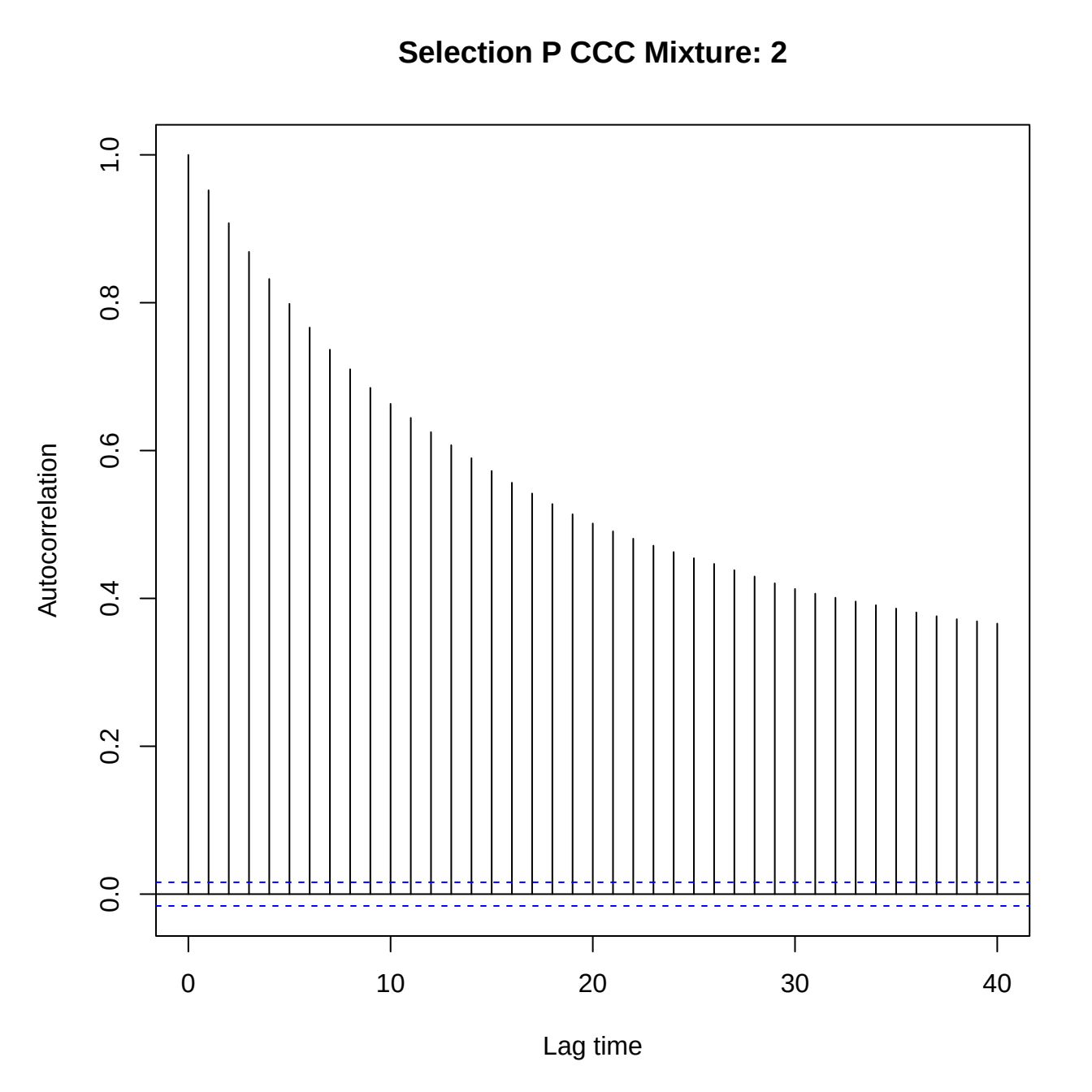
Lag time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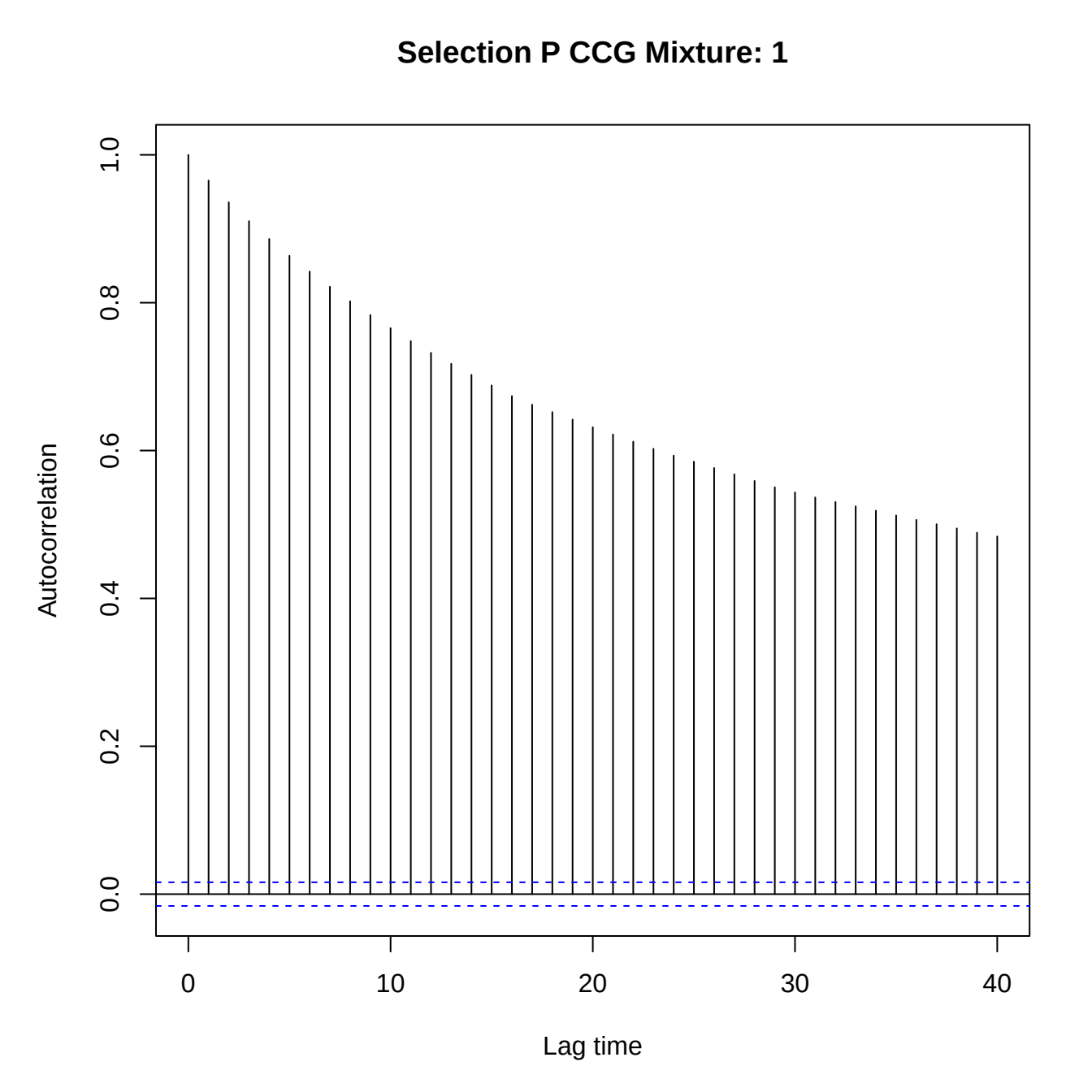
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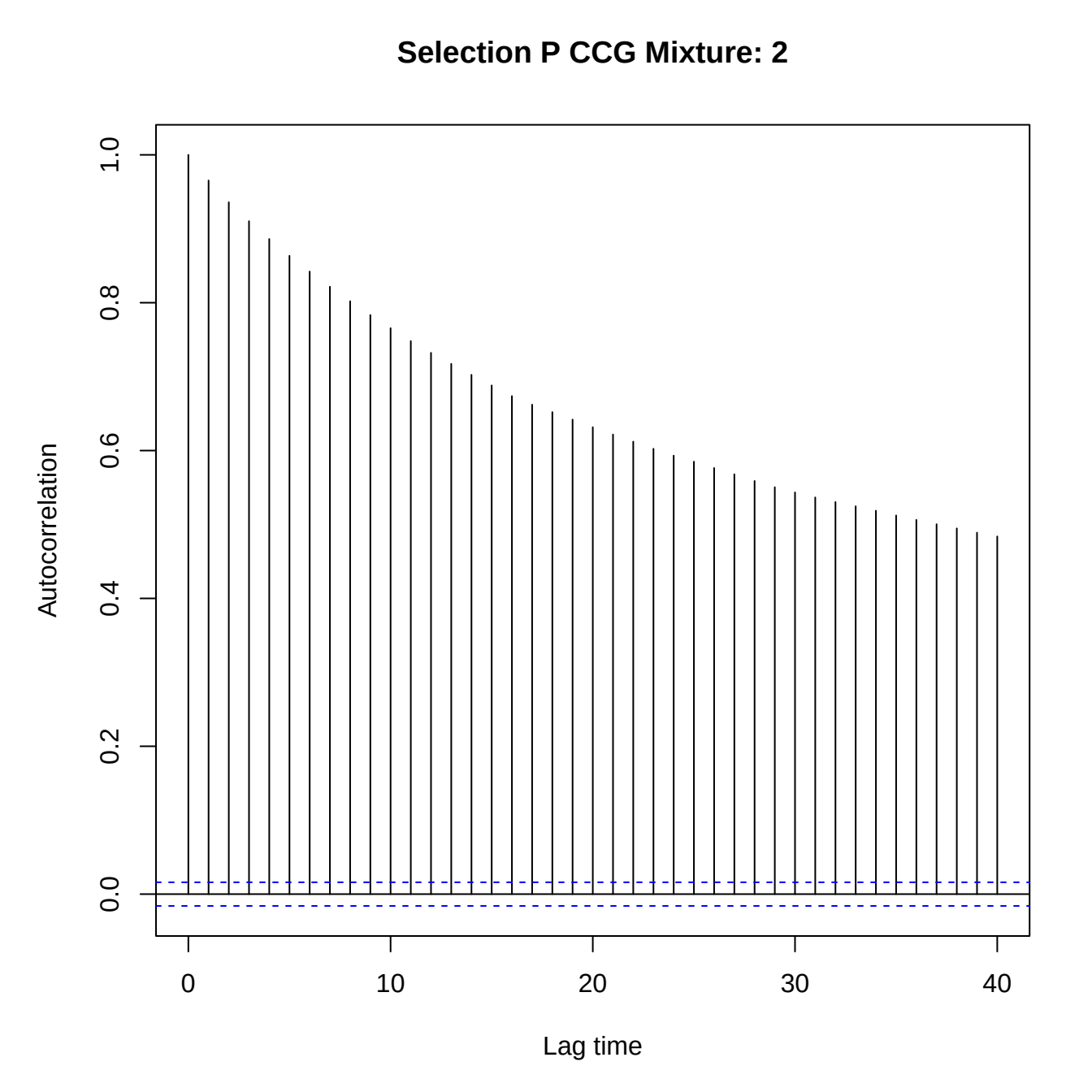
Lag time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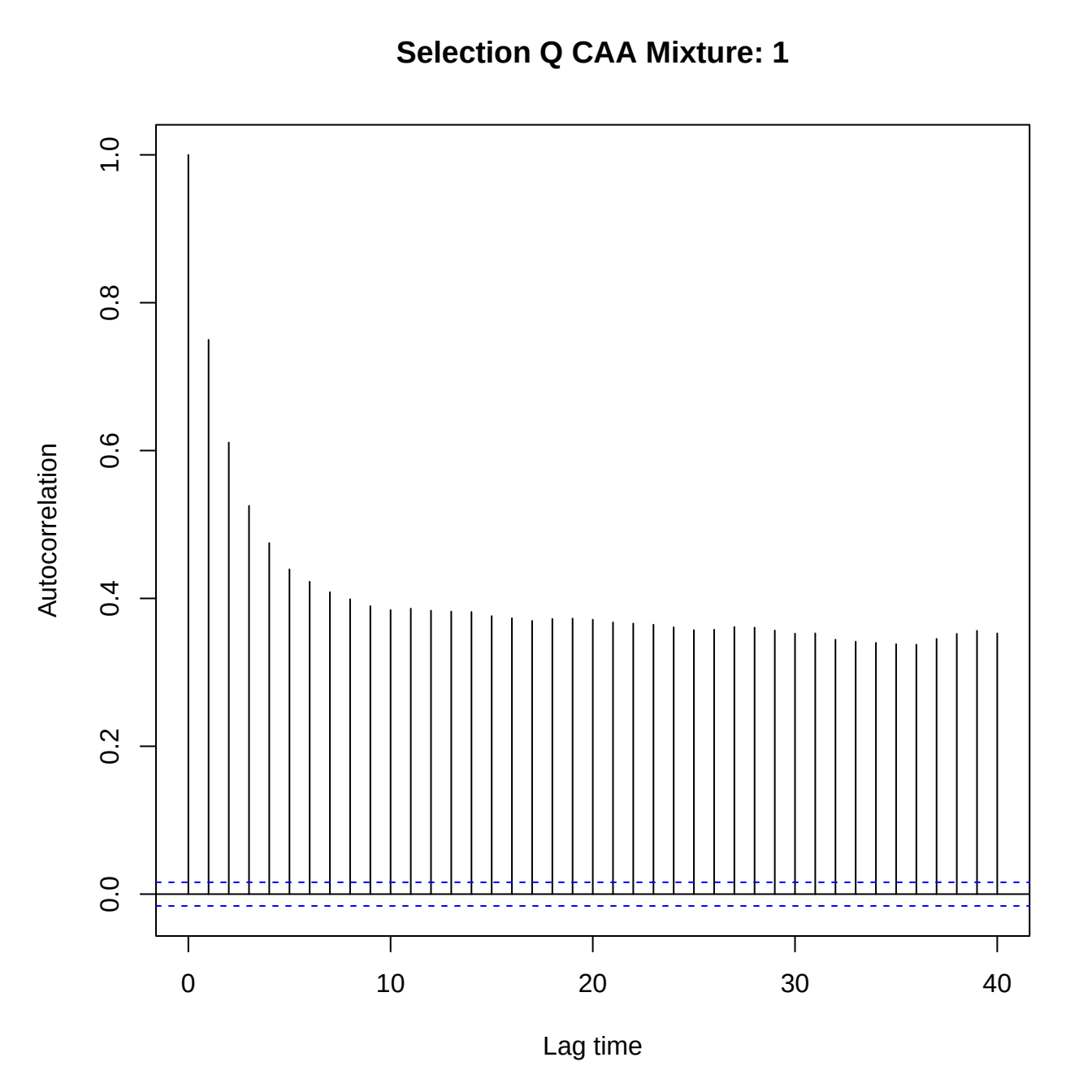
Lag time


Selection Q CAA Mixture: 1
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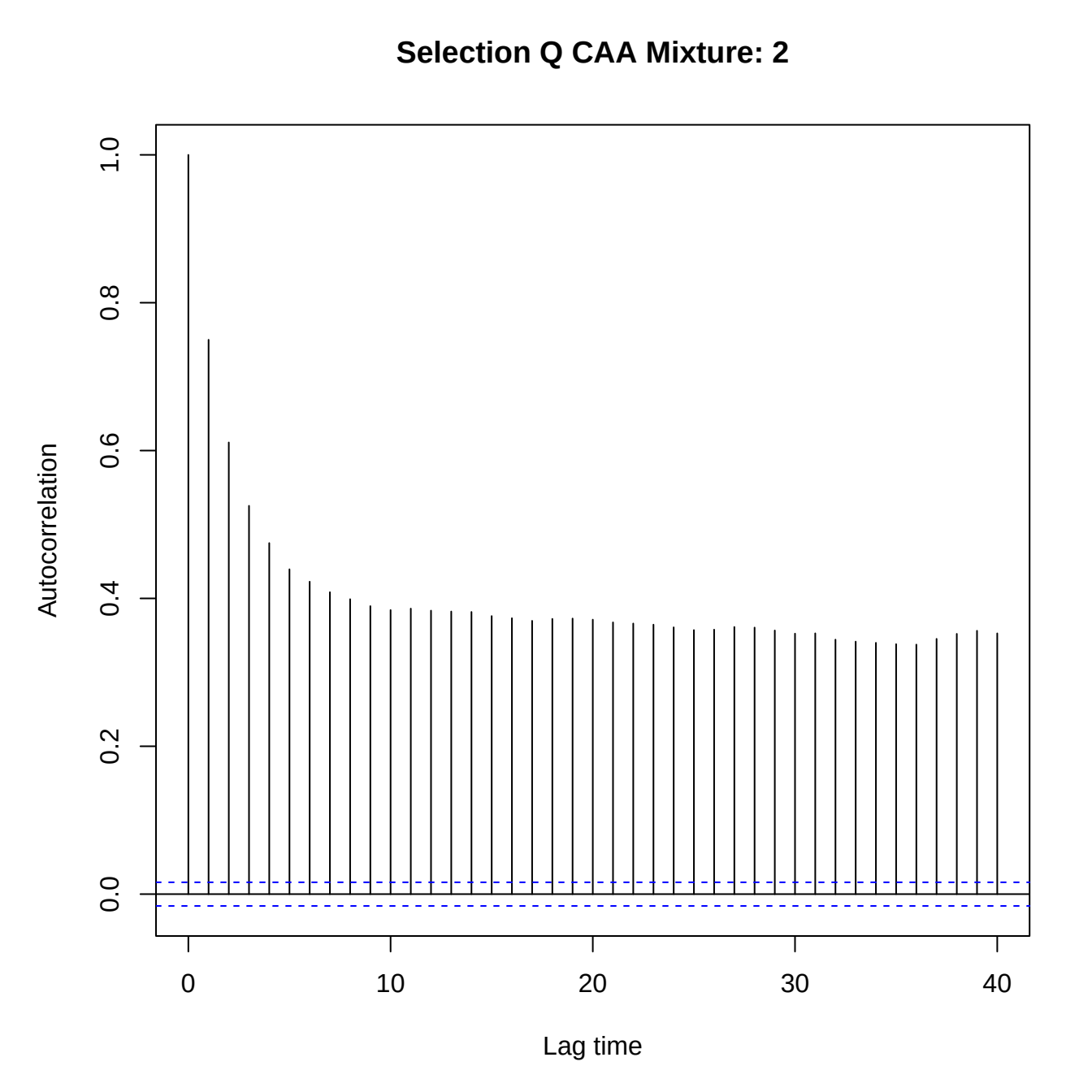
Lag time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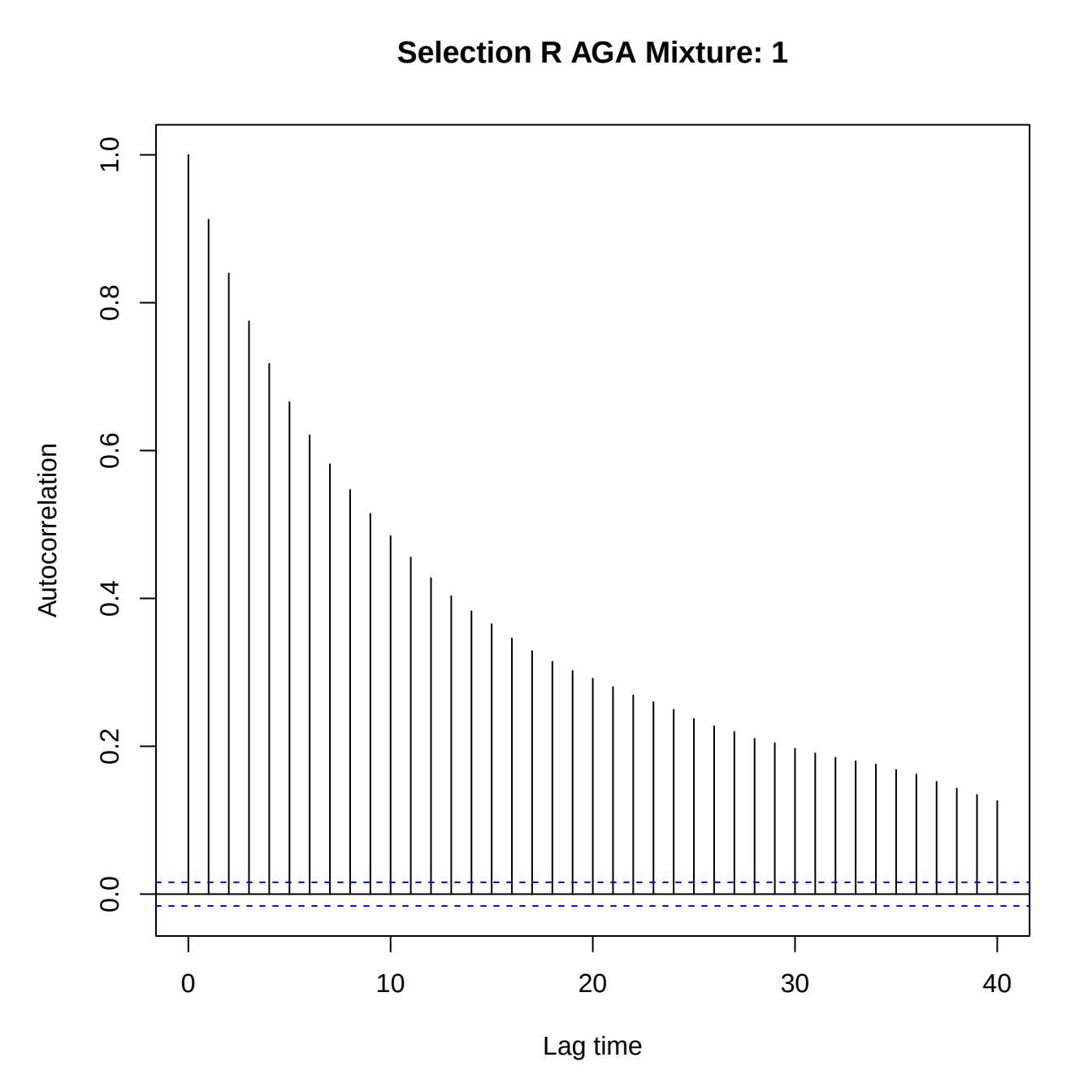
Lag time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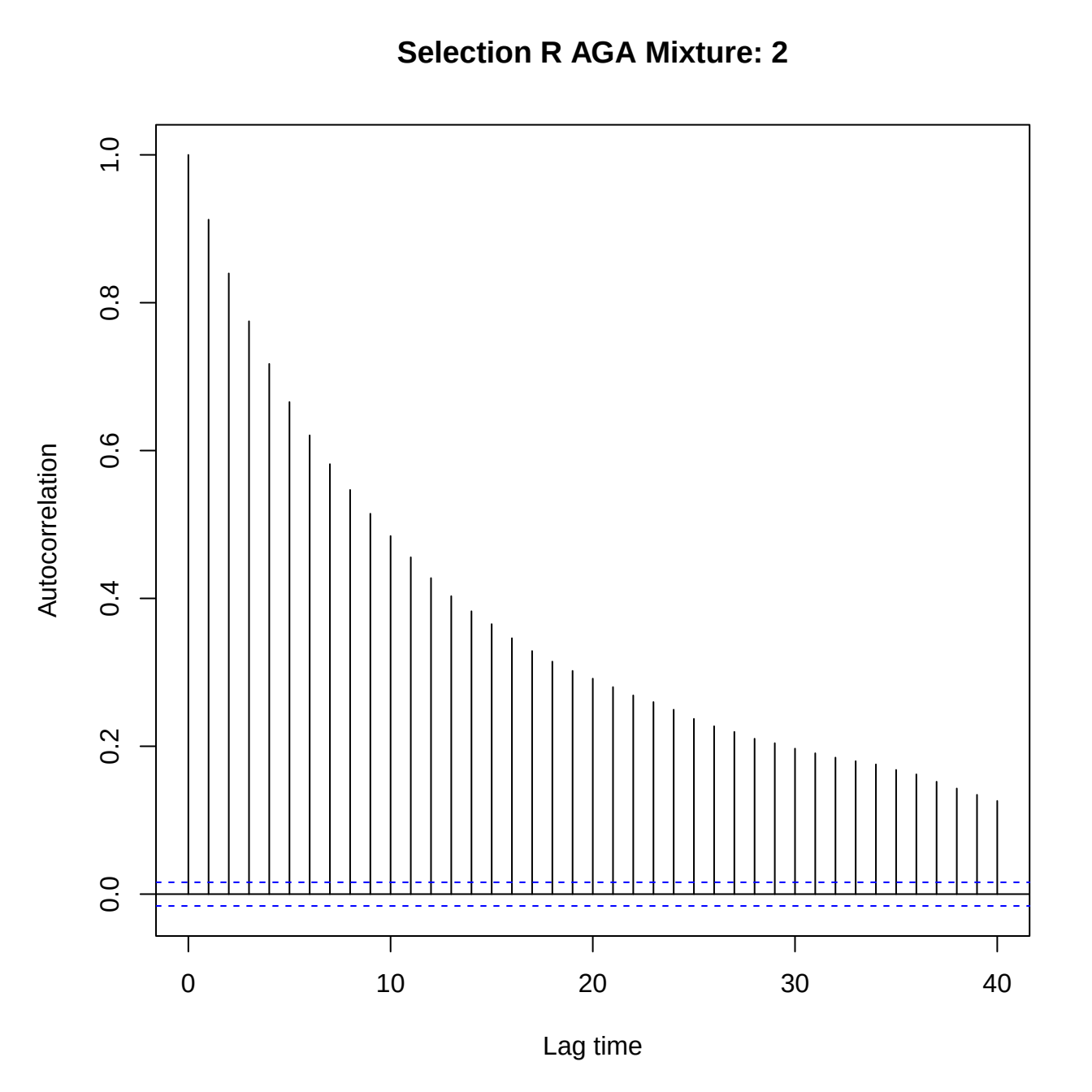
Lag time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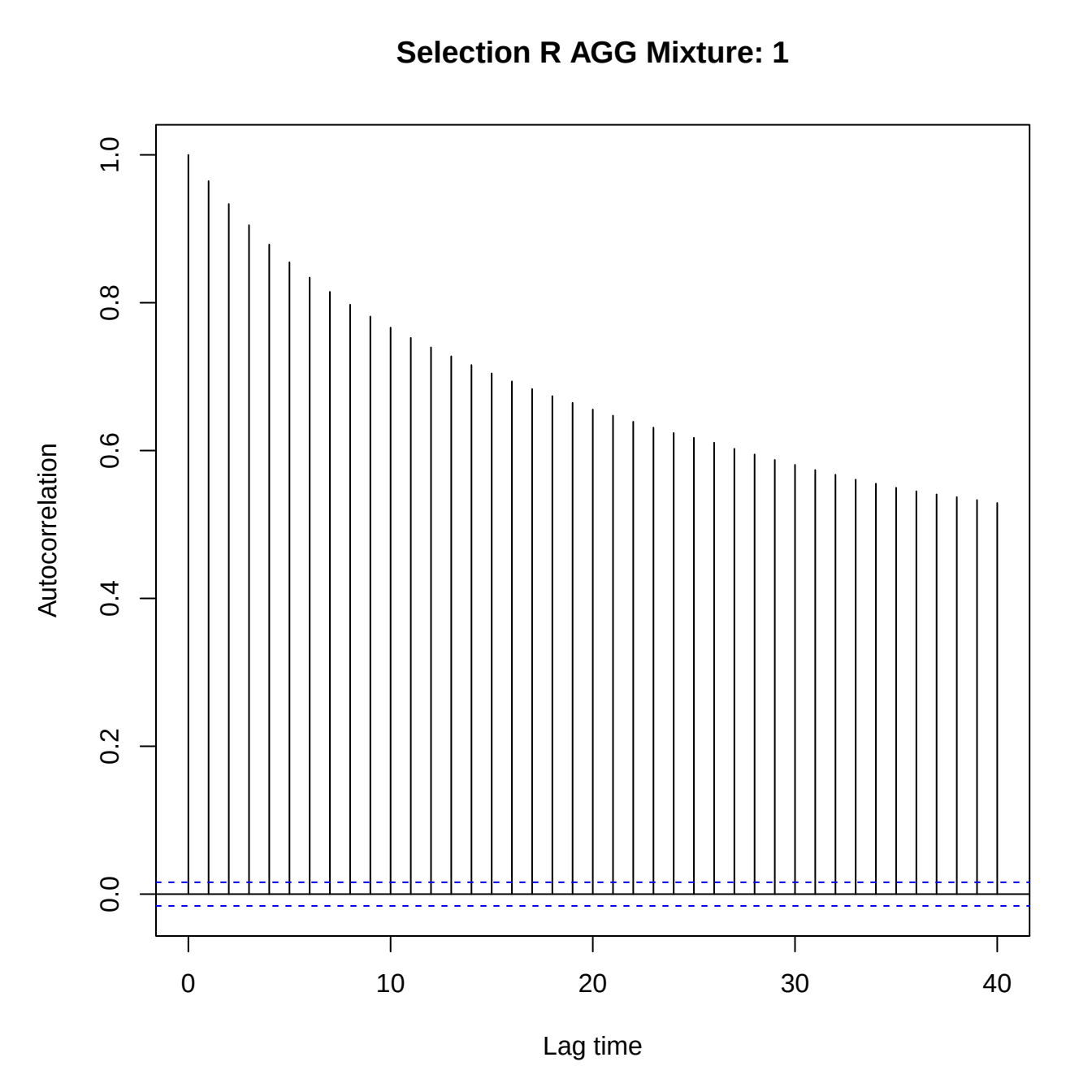
Lag time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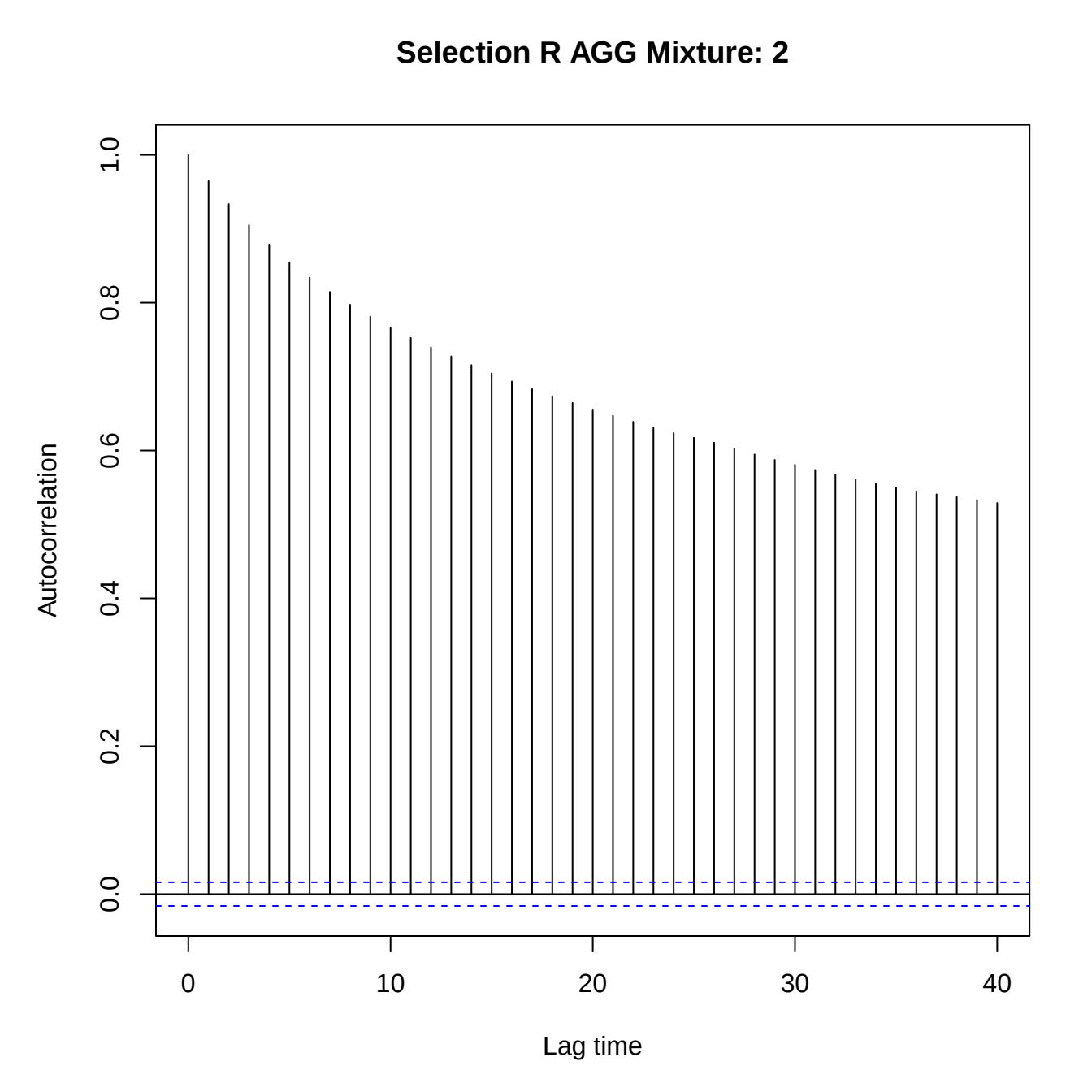
Lag time


Selection R AGG Mixture: 2
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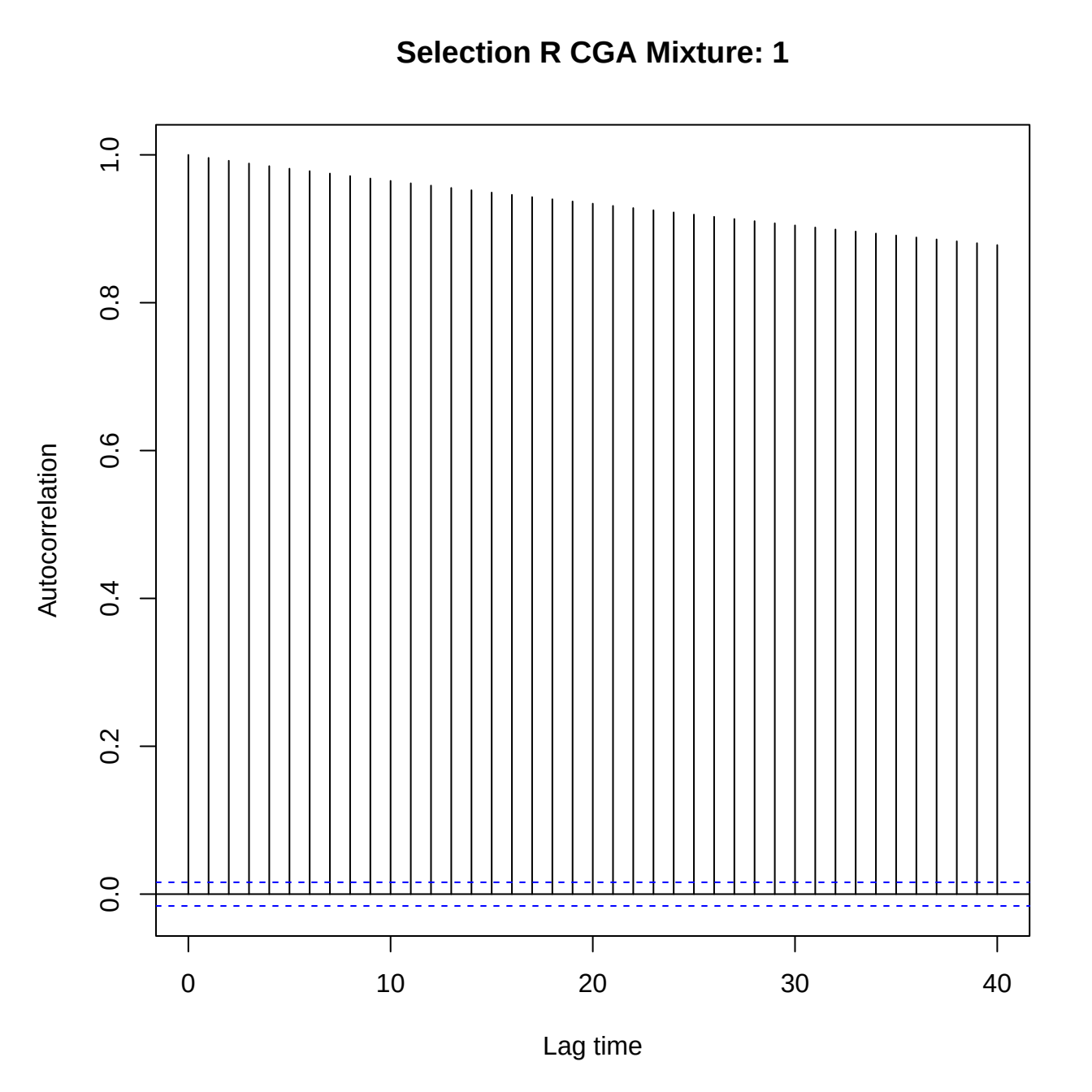
Lag time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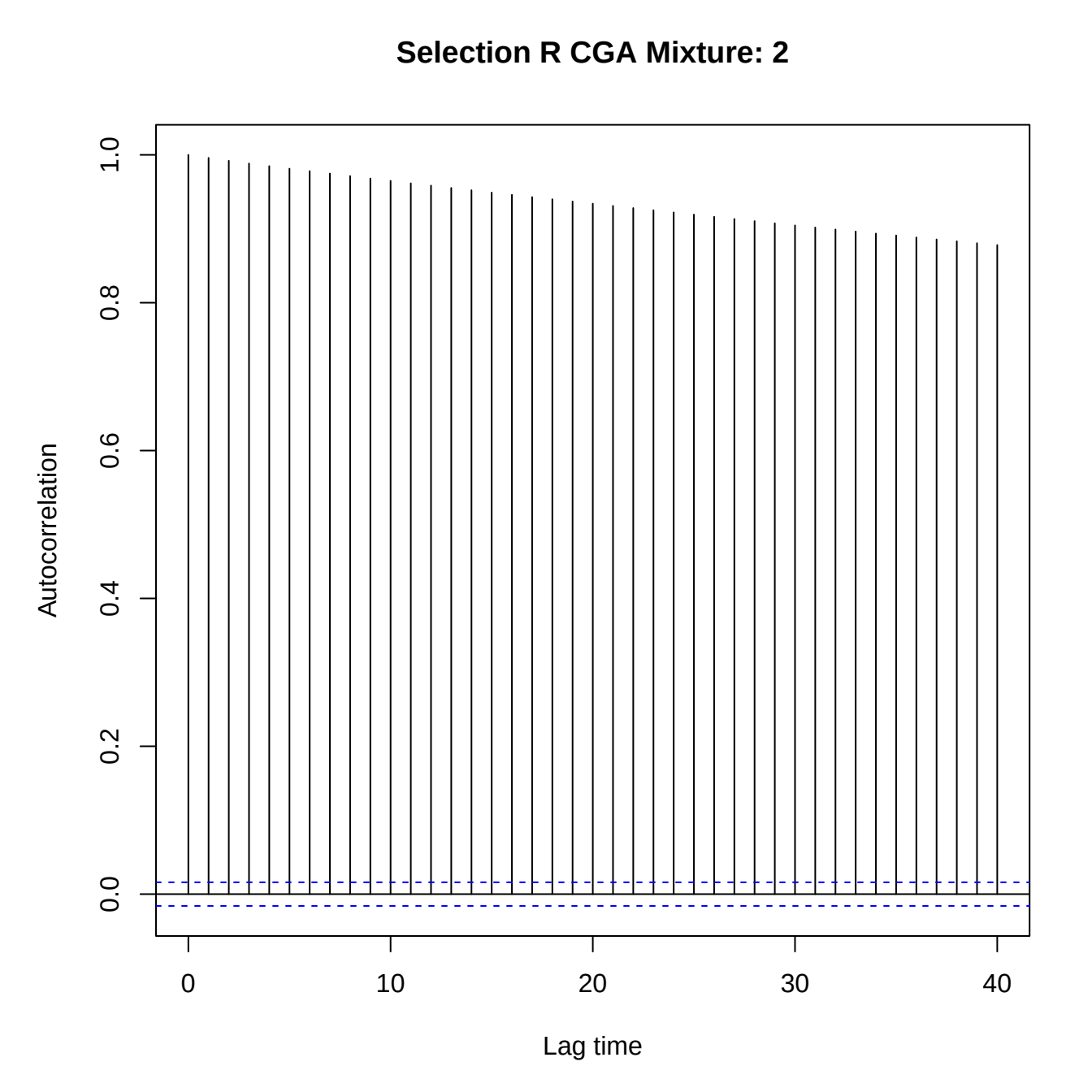
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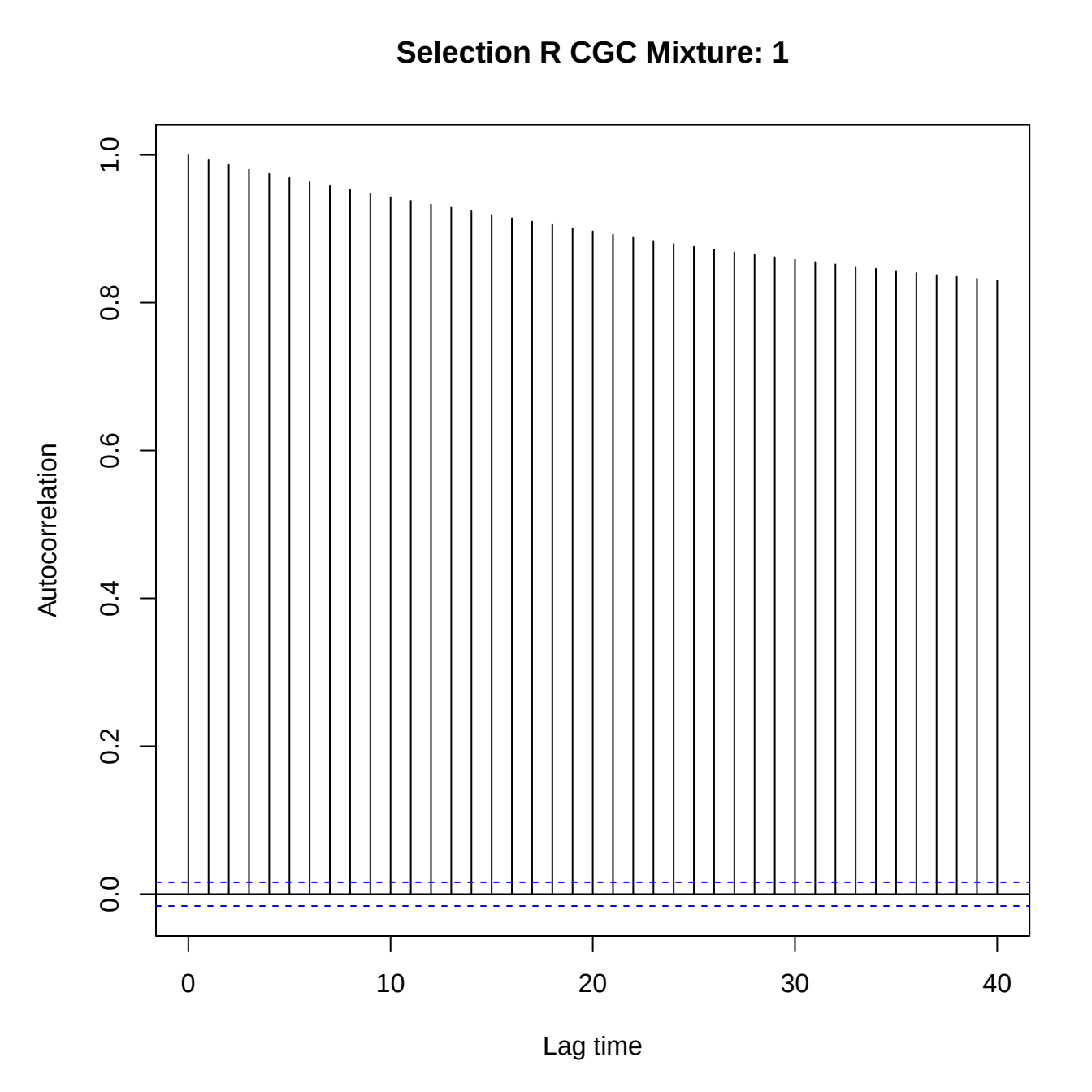
Lag time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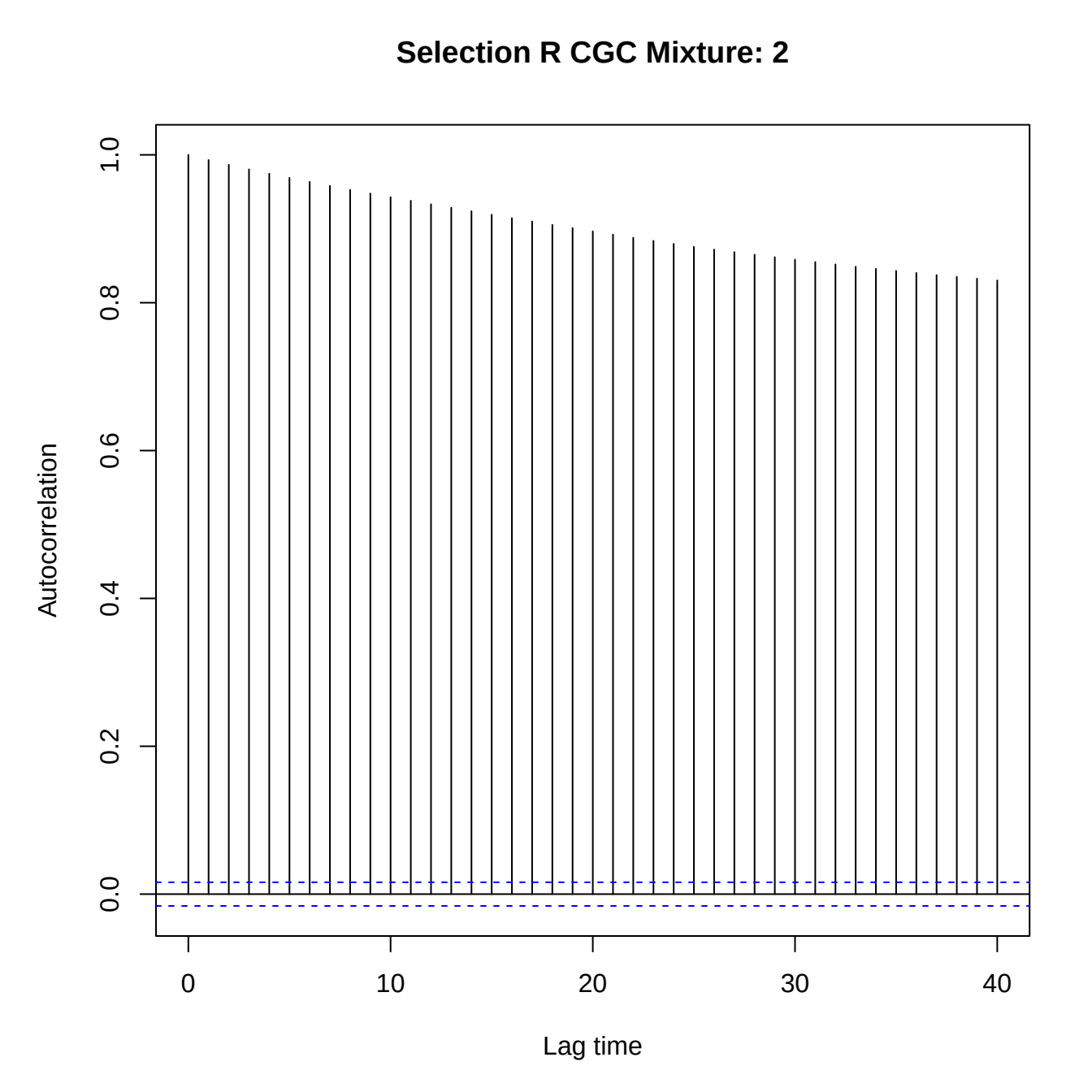
Lag time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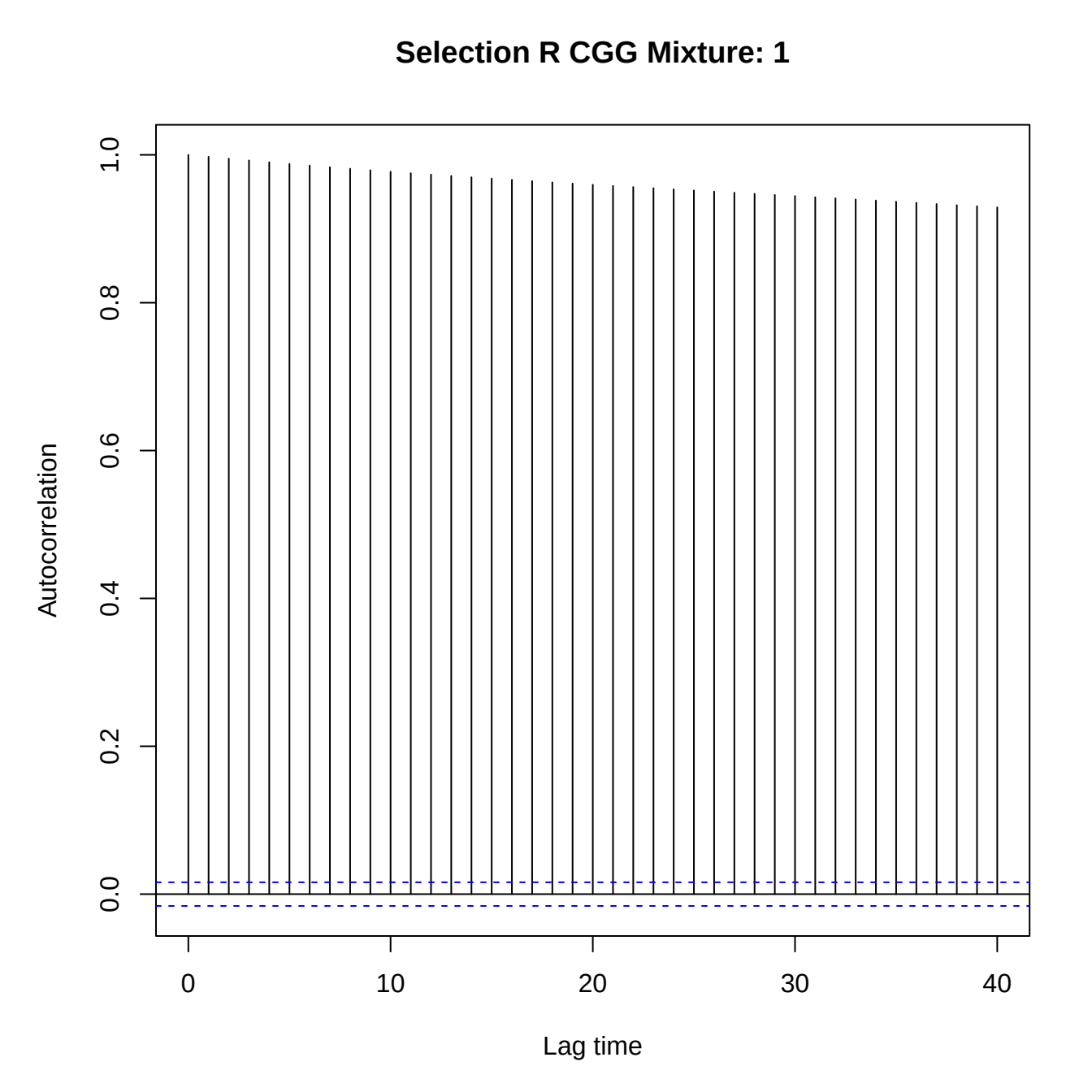
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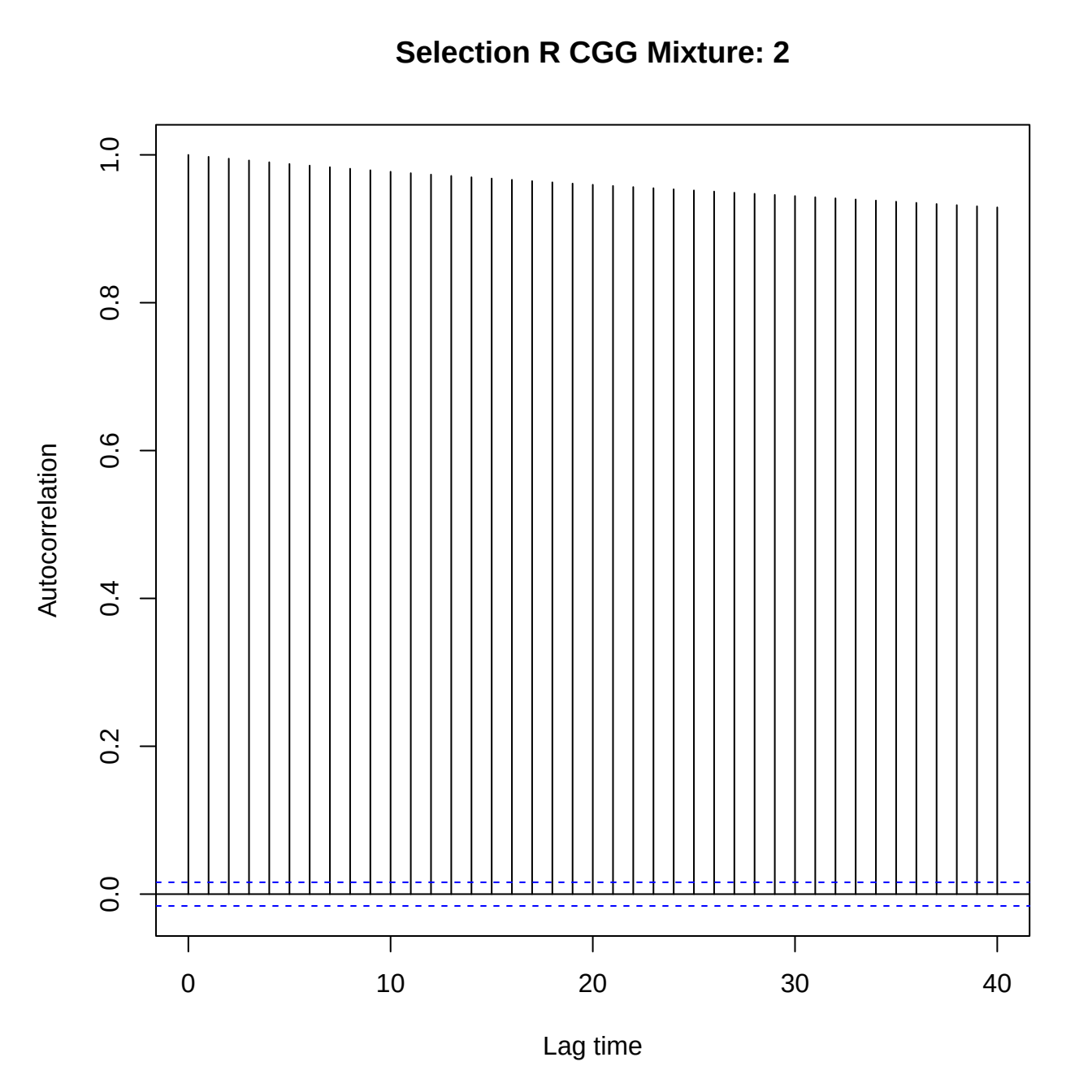
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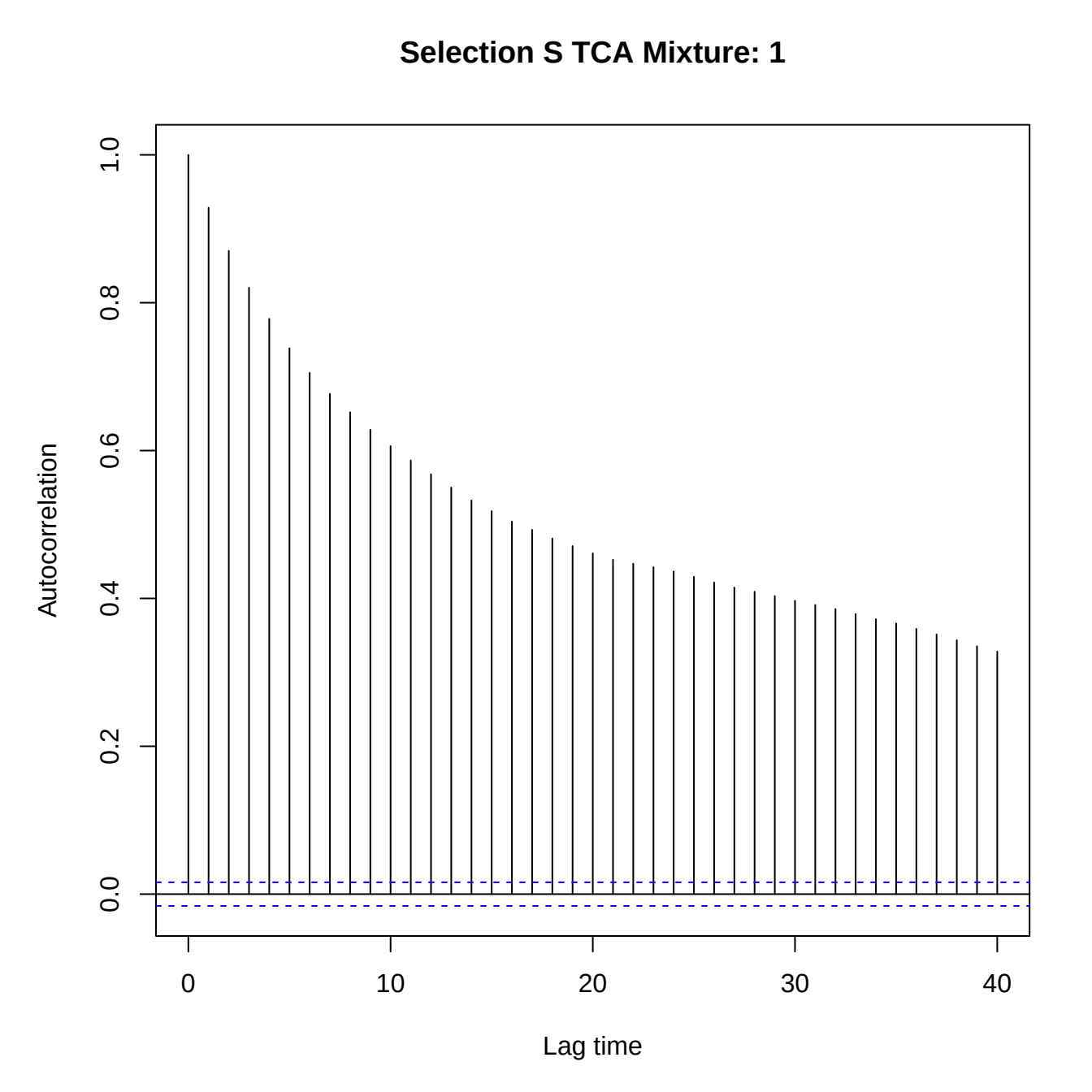
Lag time


Selection S TCA Mixture: 1
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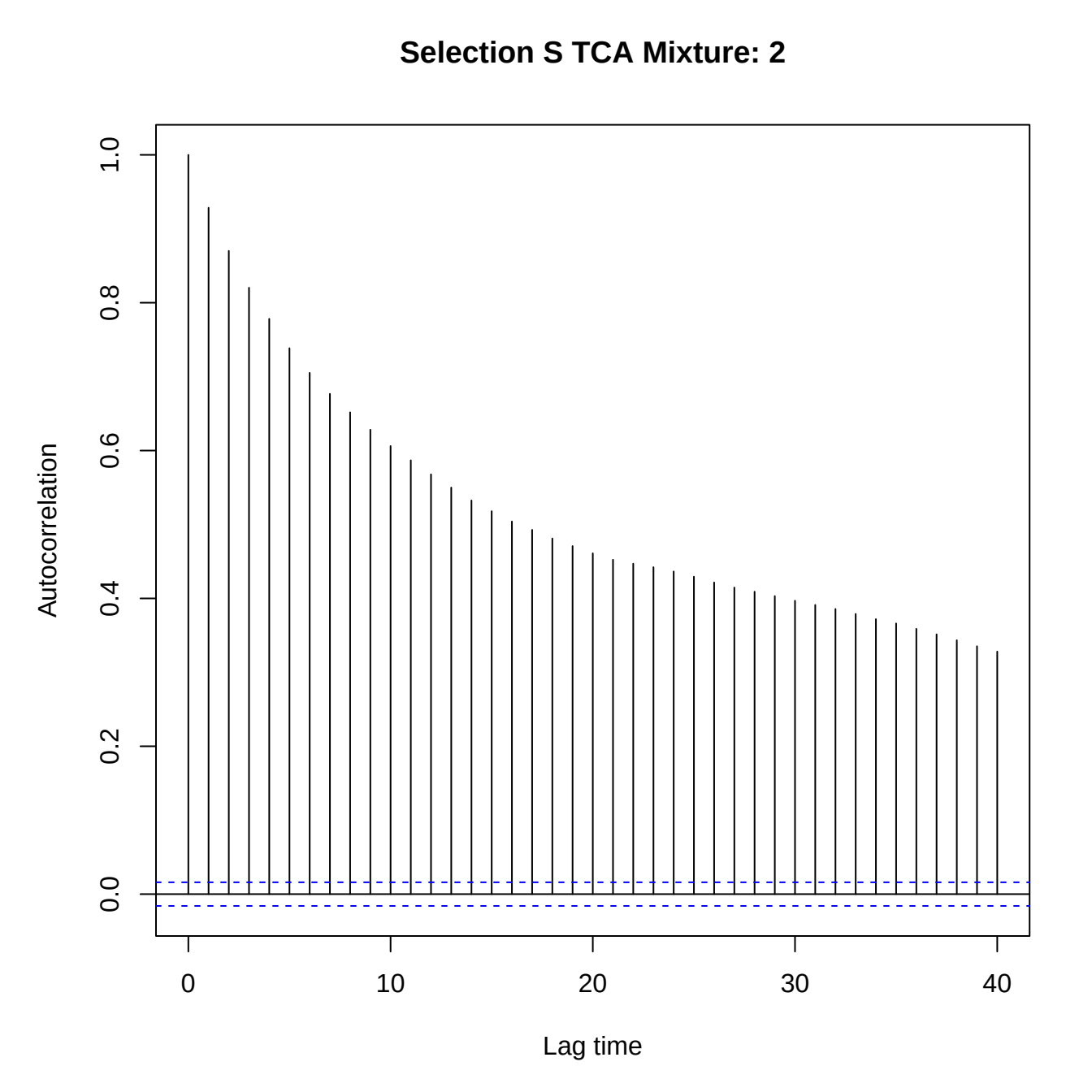
Lag time


Selection S TCA Mixture: 2
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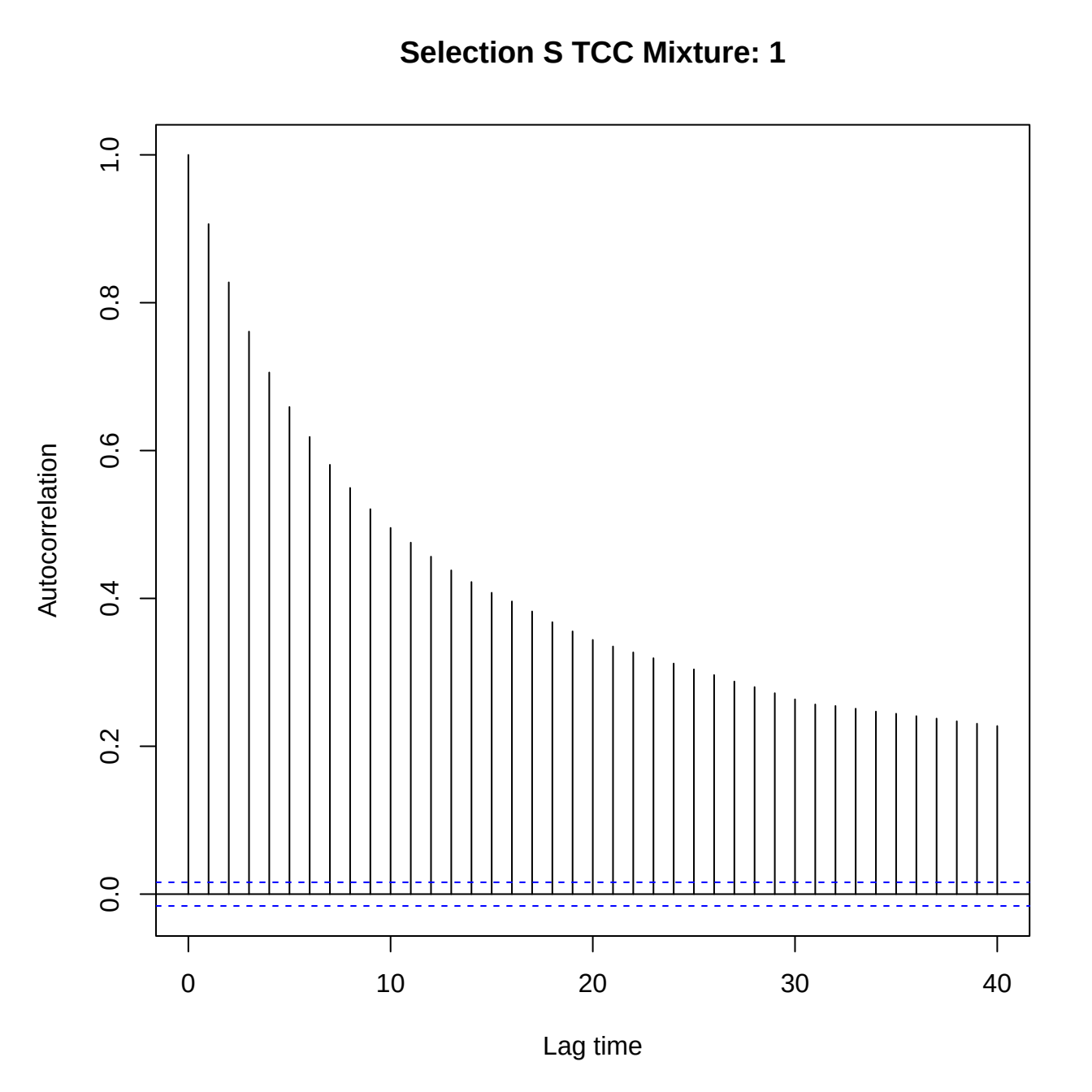
Lag time


Selection S TCC Mixture: 1
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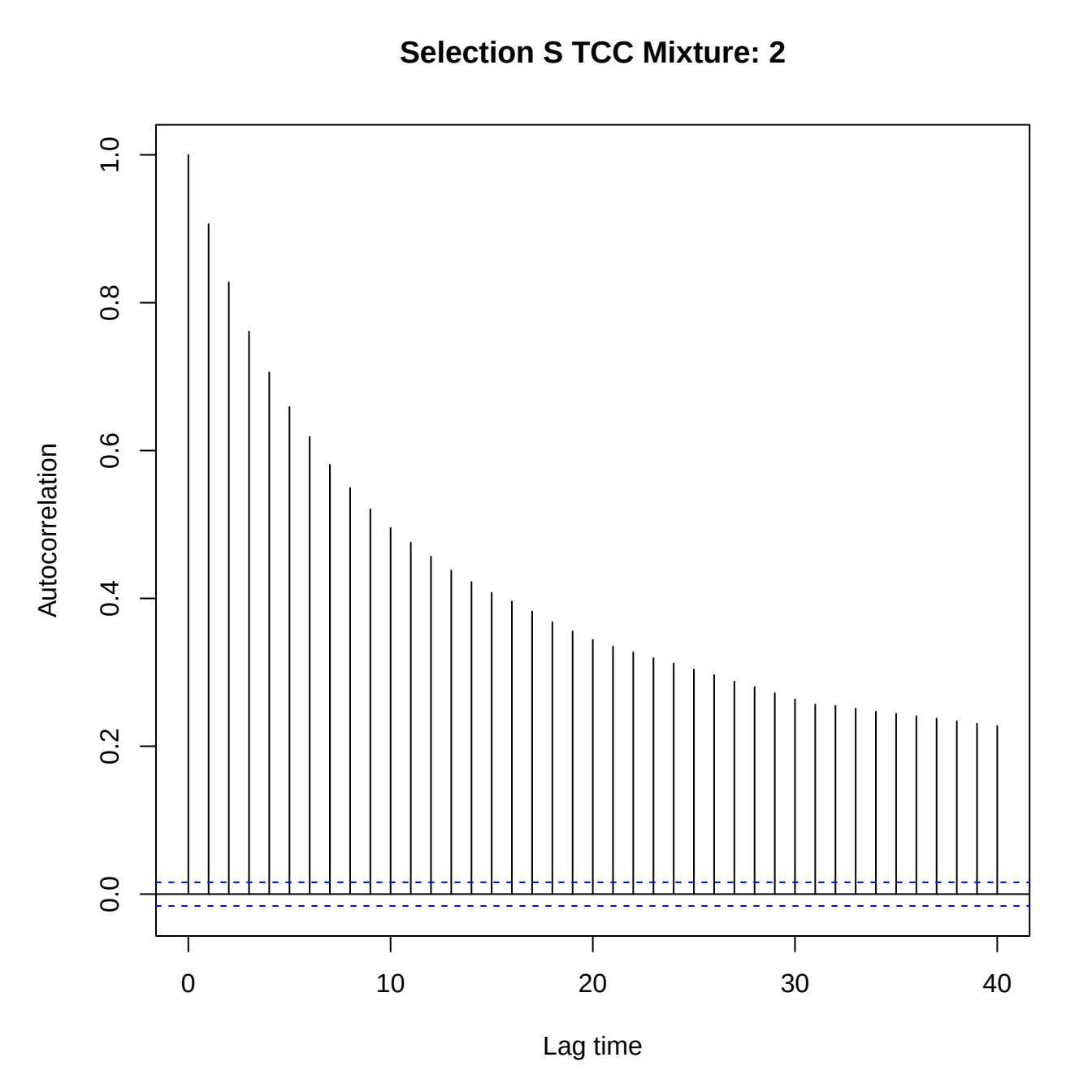
Lag time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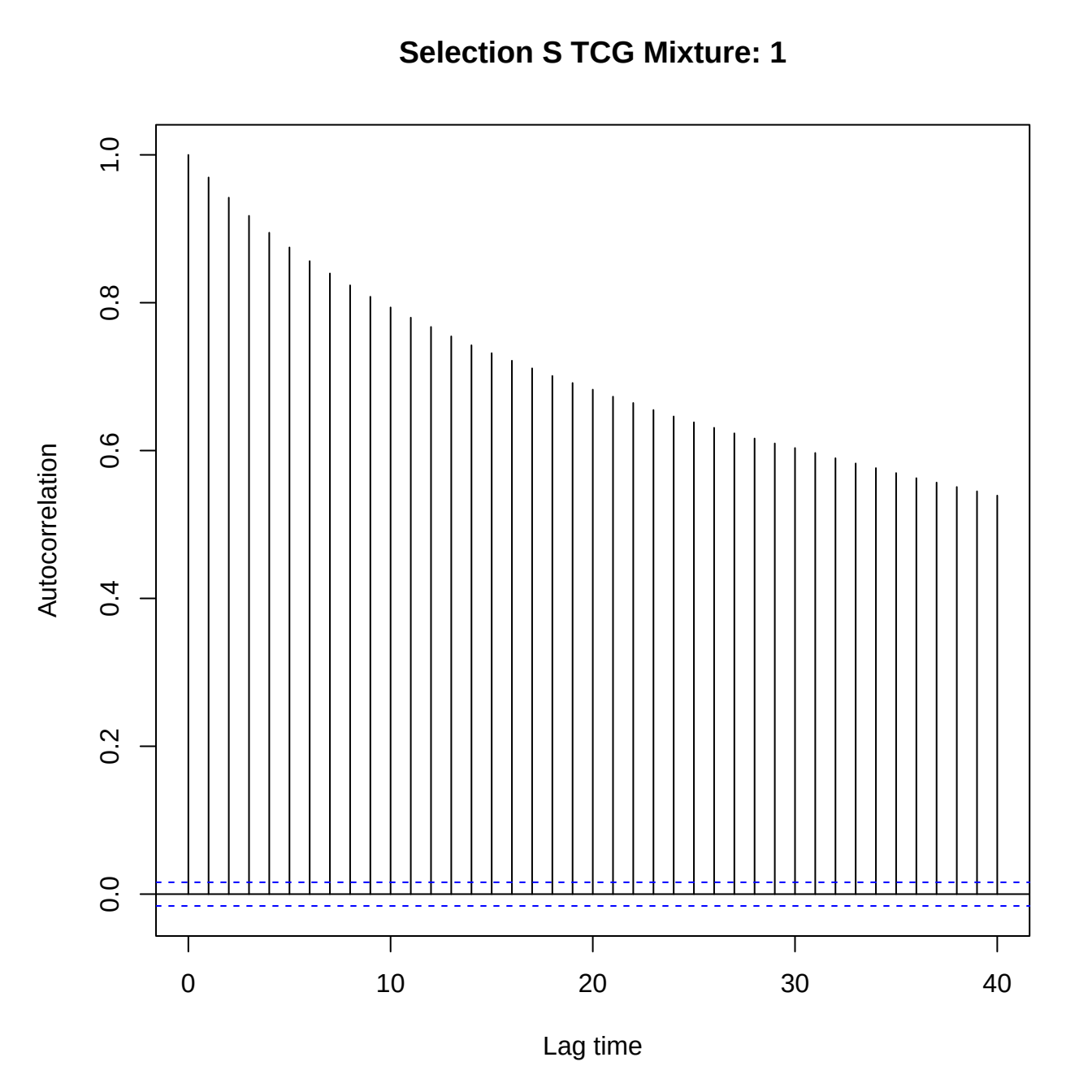
Lag time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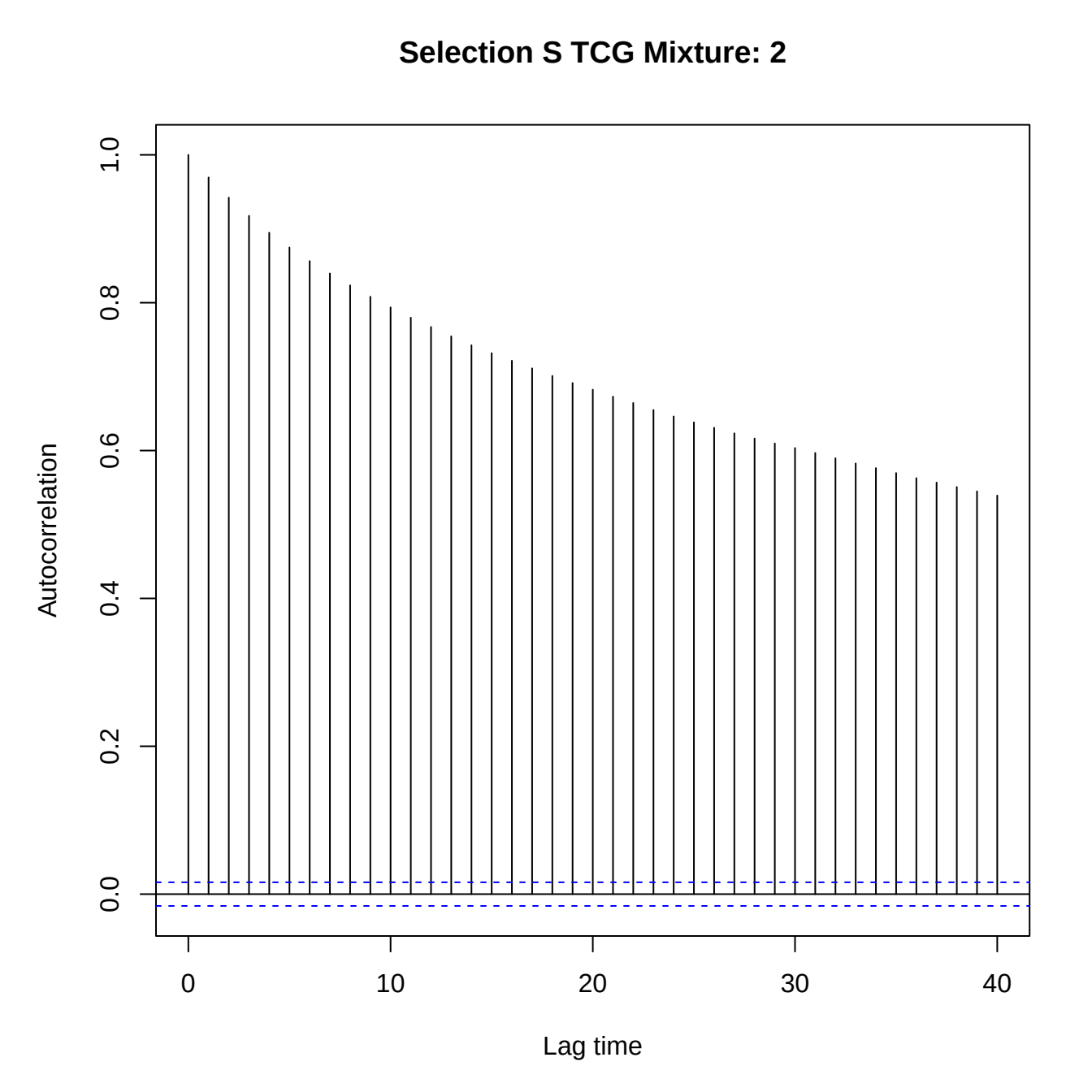
Lag time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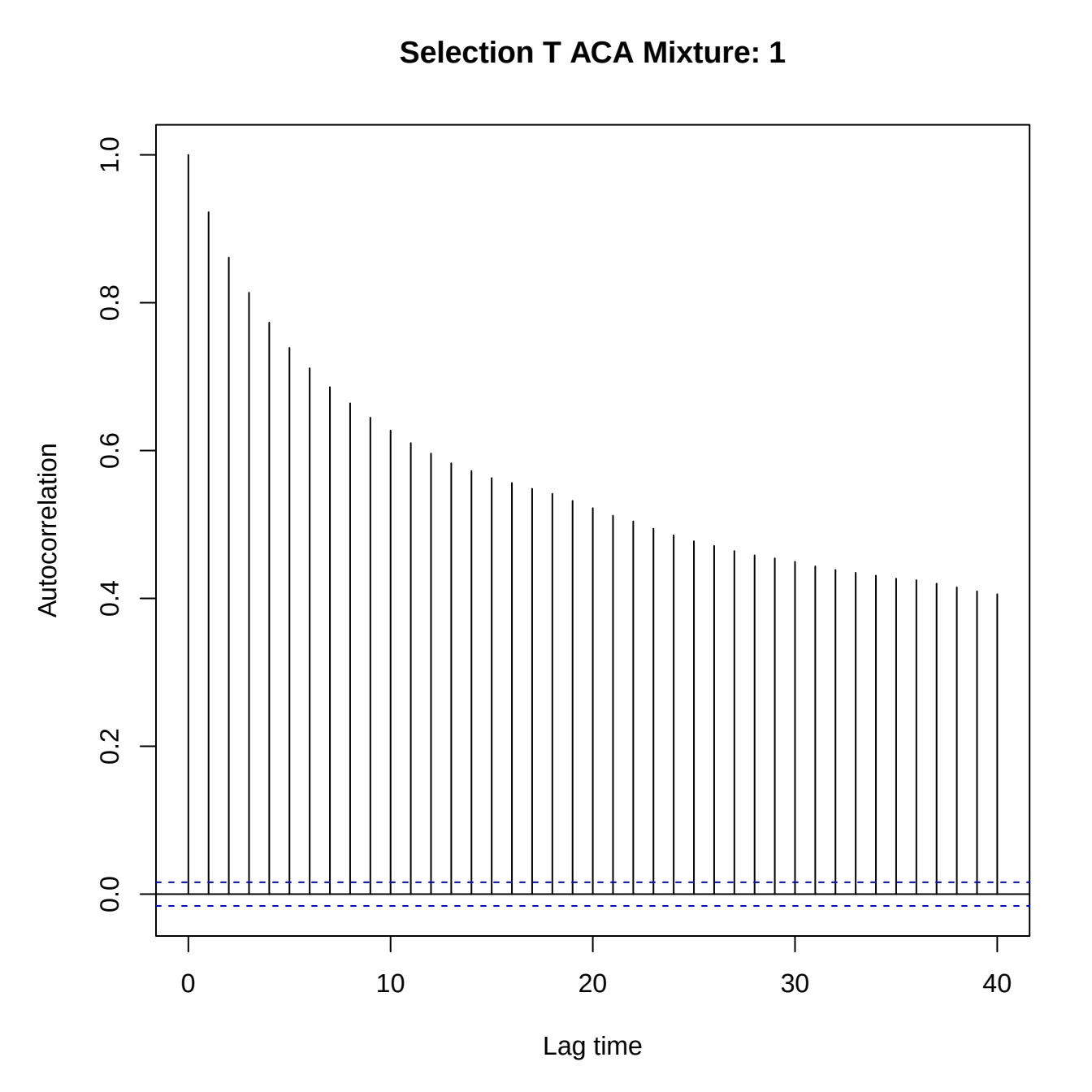
Lag time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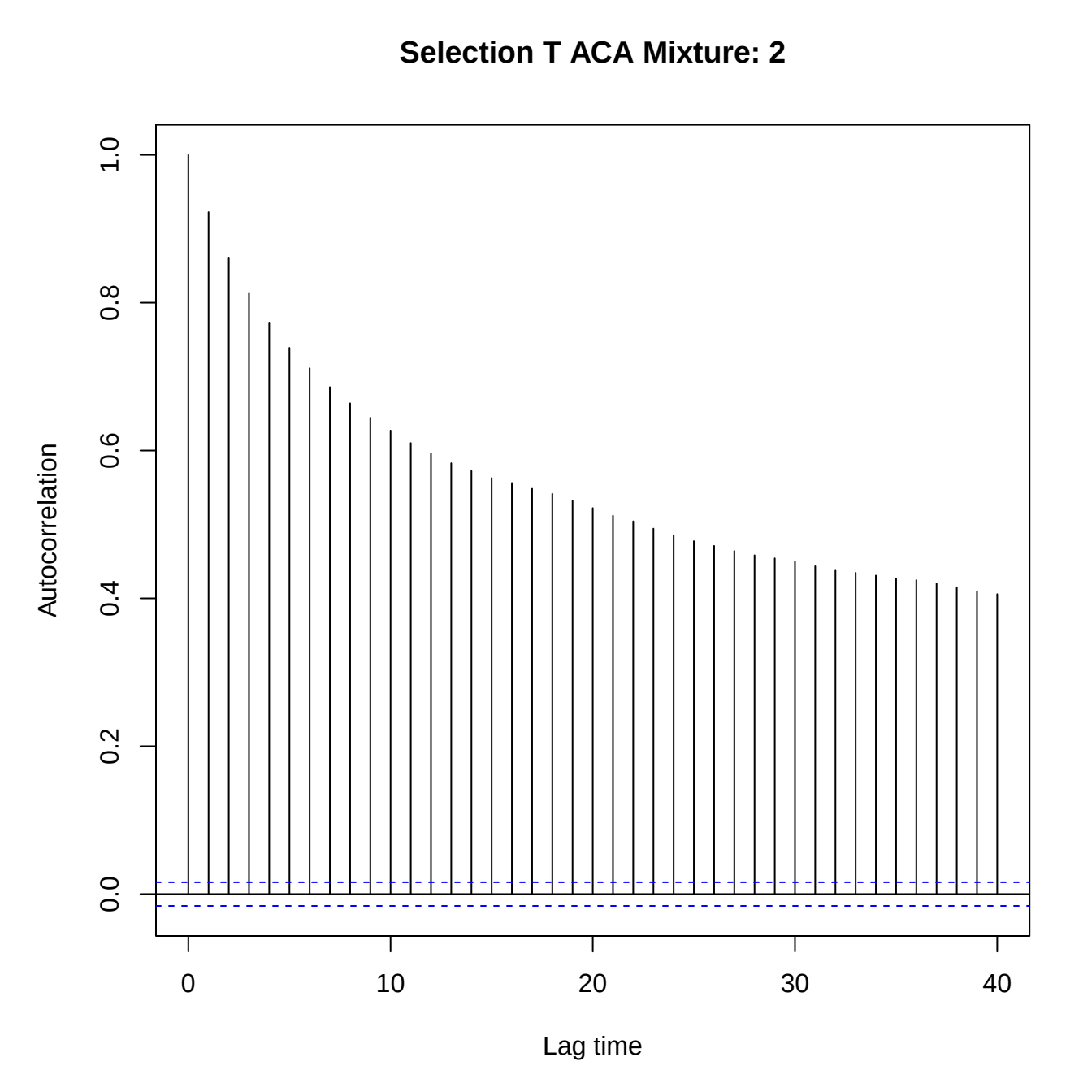
Lag time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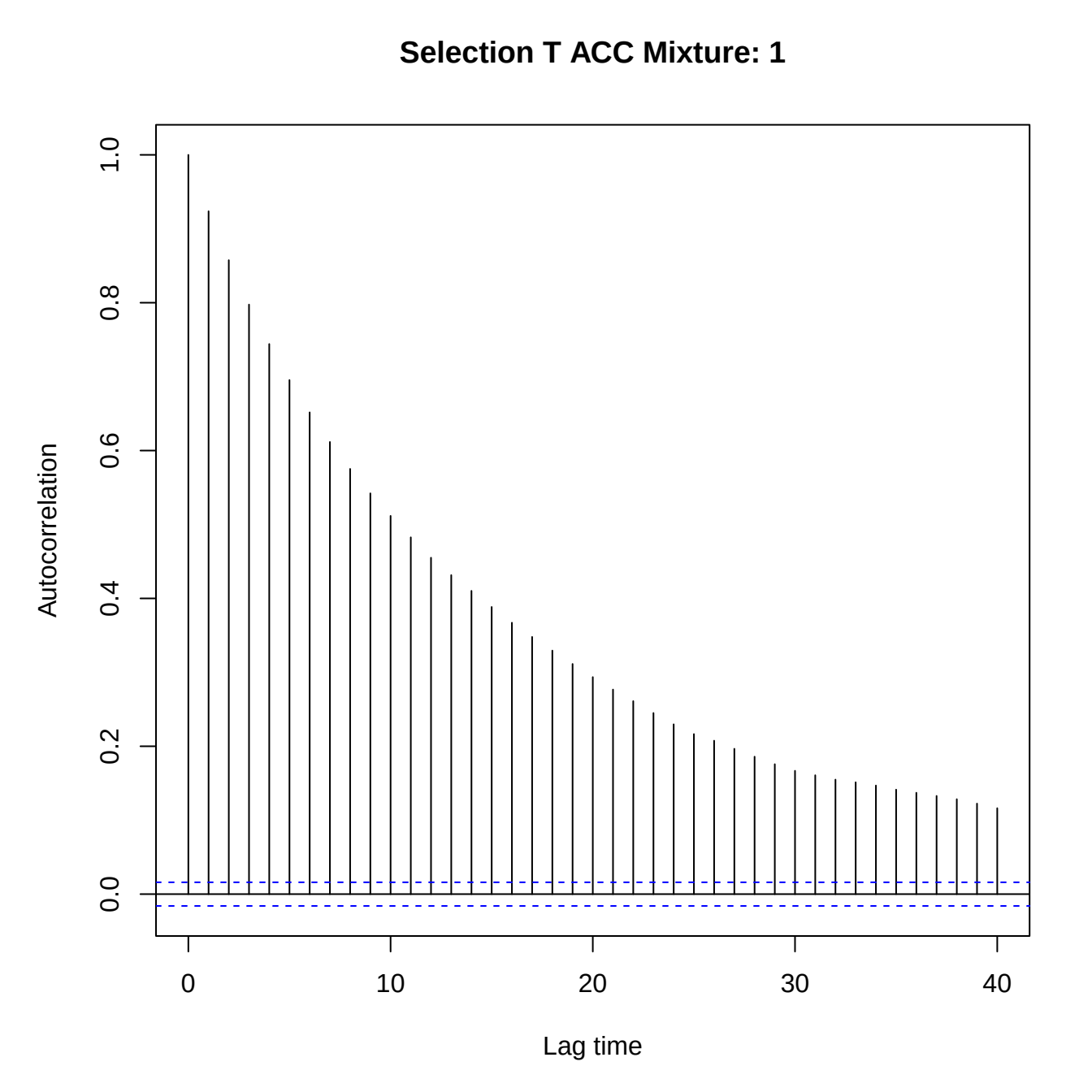
Lag time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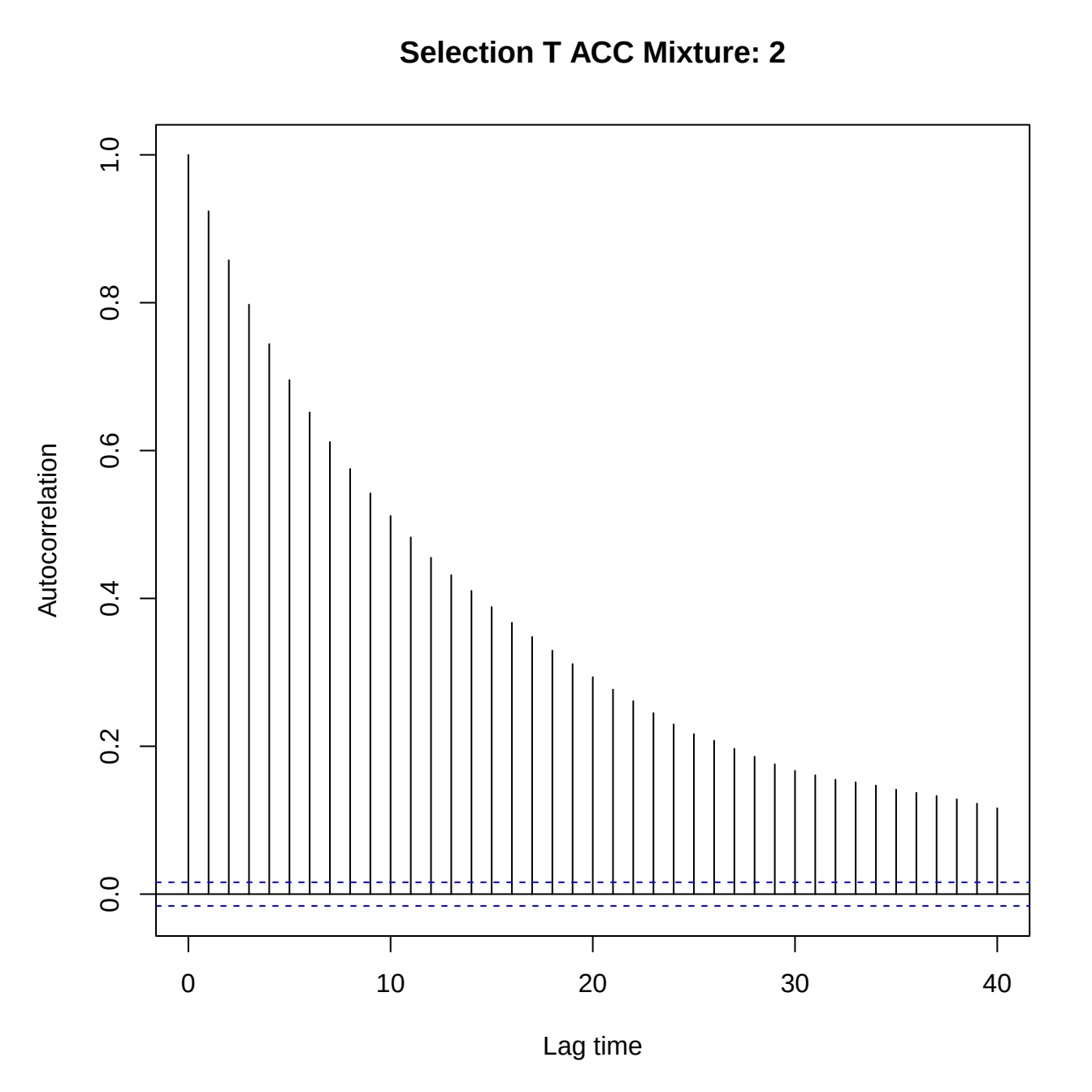
Lag time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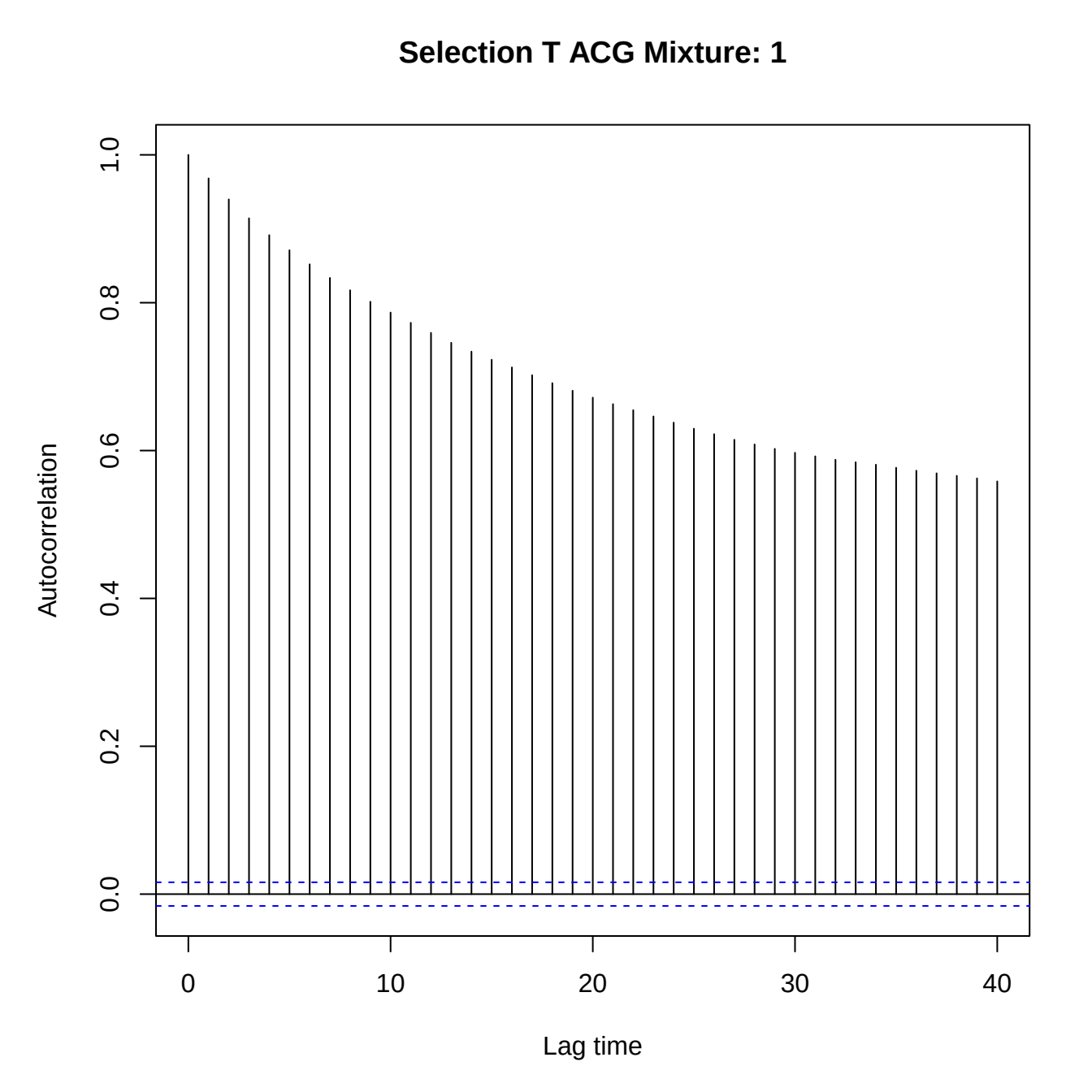
Lag time


Selection T ACG Mixture: 1
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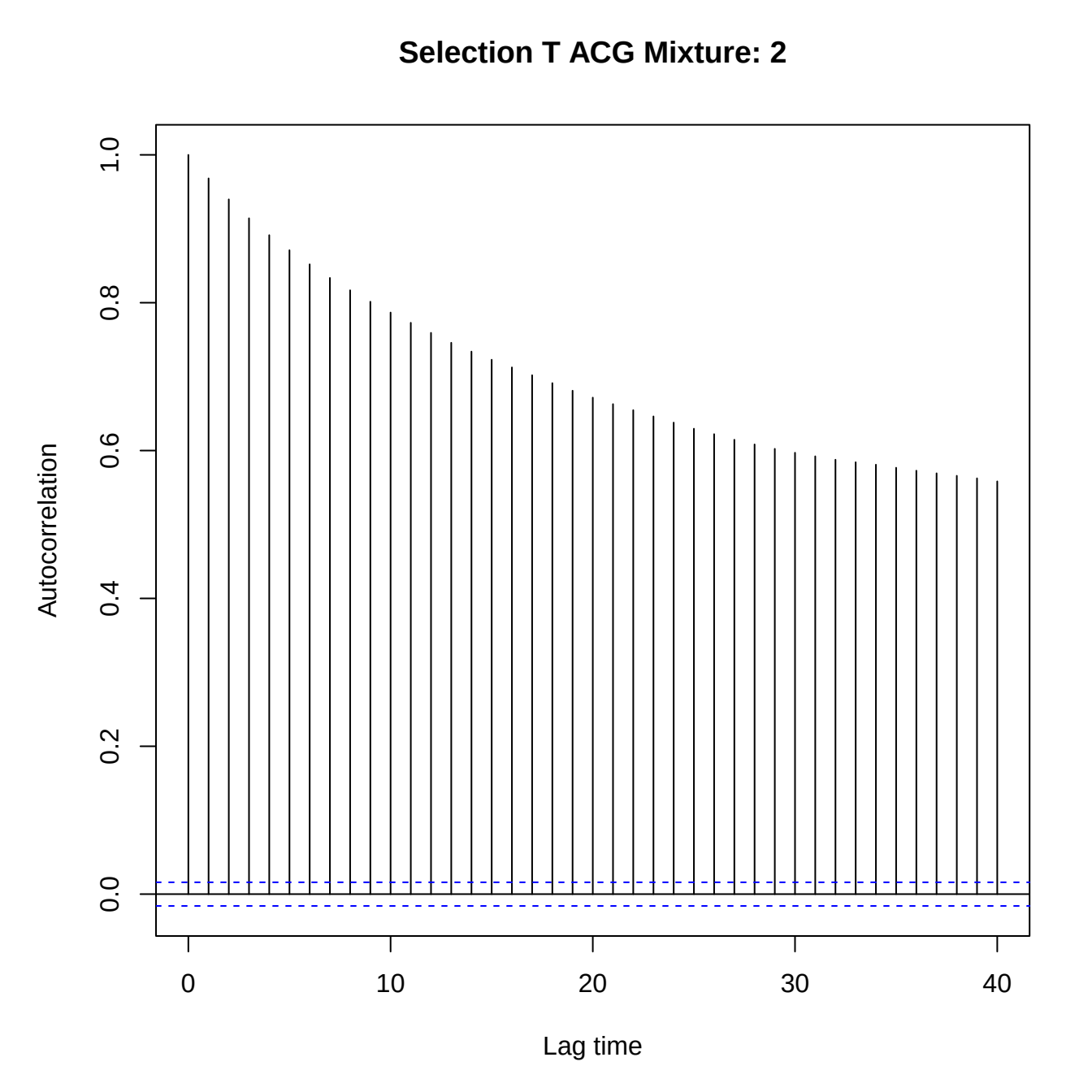
Lag time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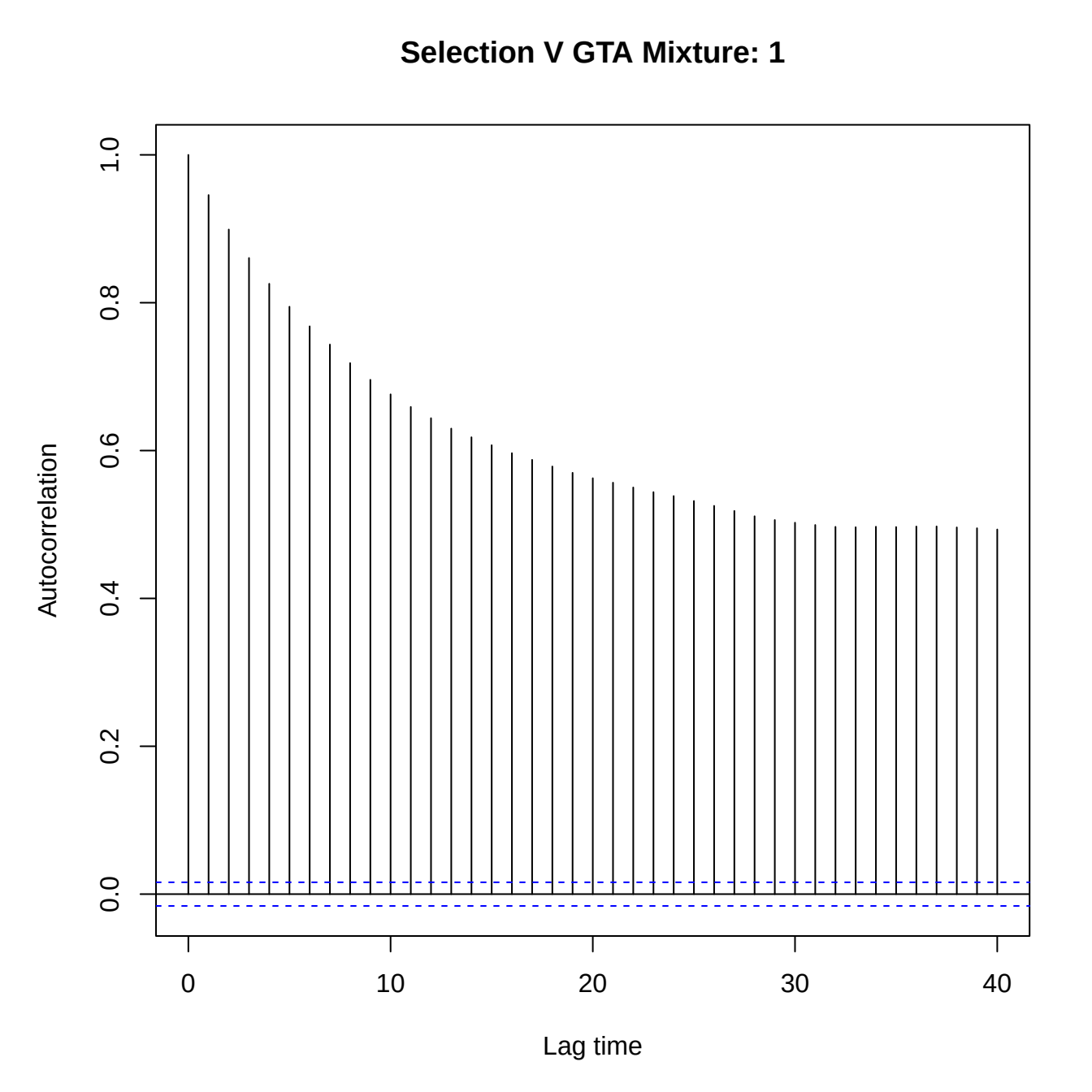
Lag time


Selection V GTA Mixture: 1
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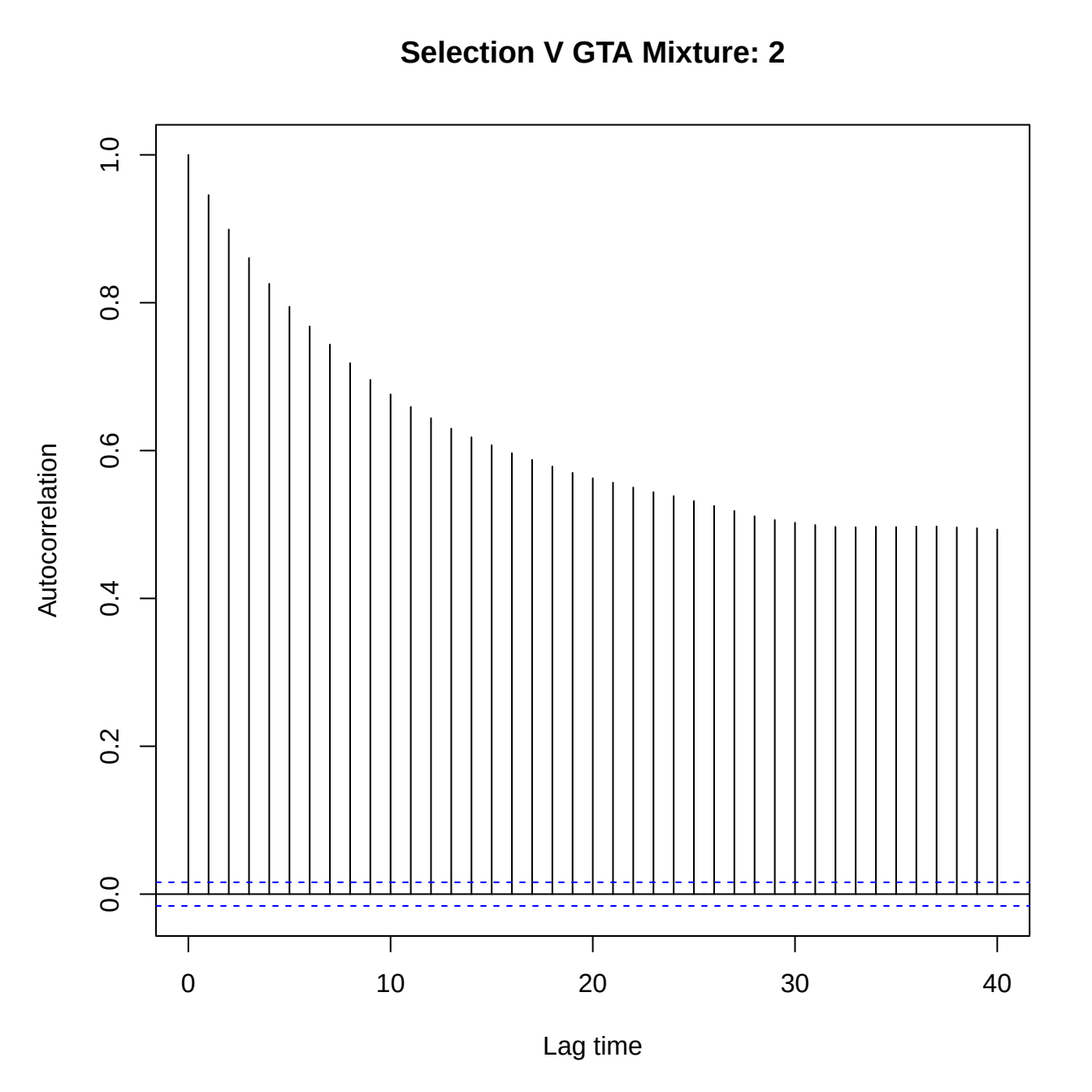
Lag time


Selection V GTA Mixture: 2
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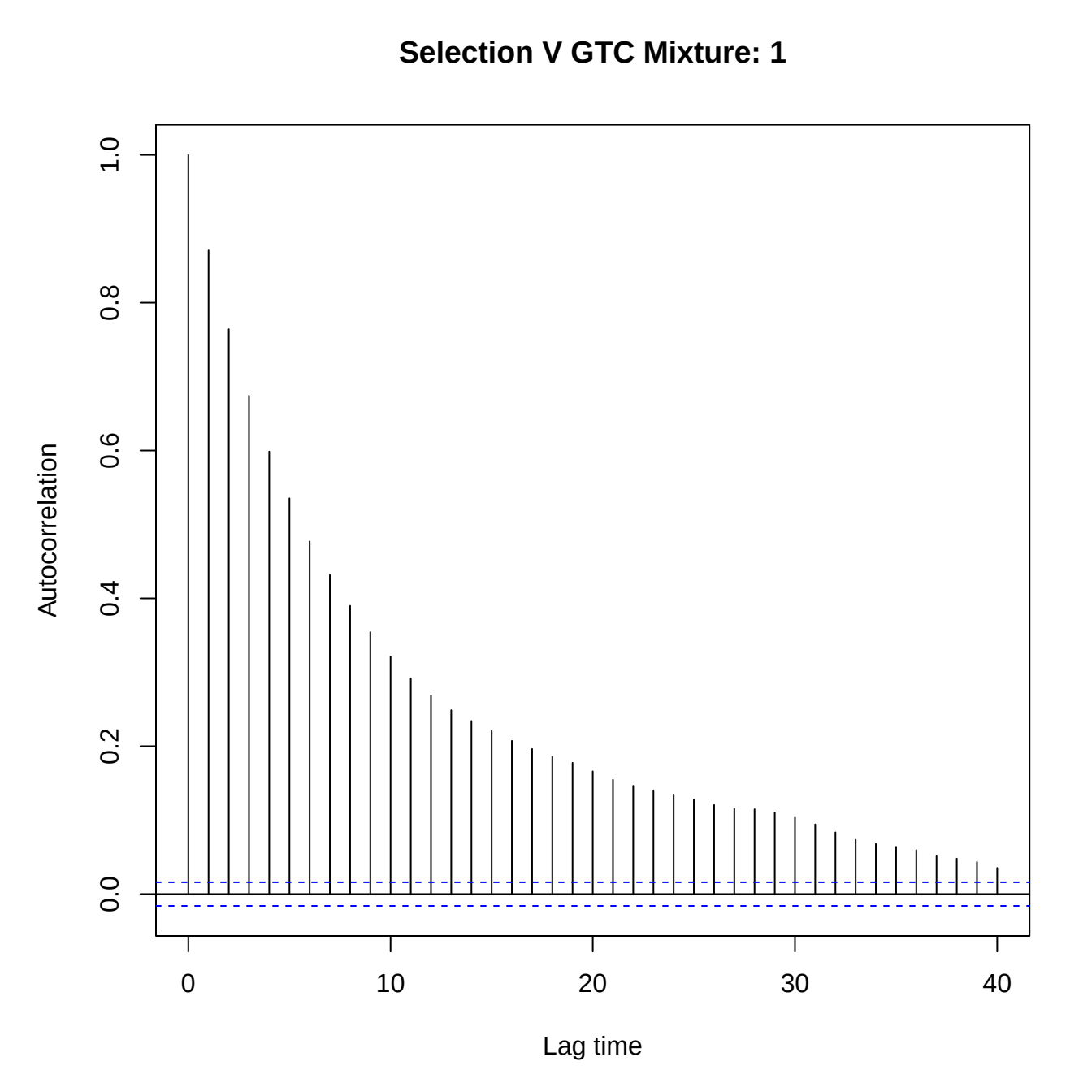
Lag time


Selection V GTC Mixture: 1
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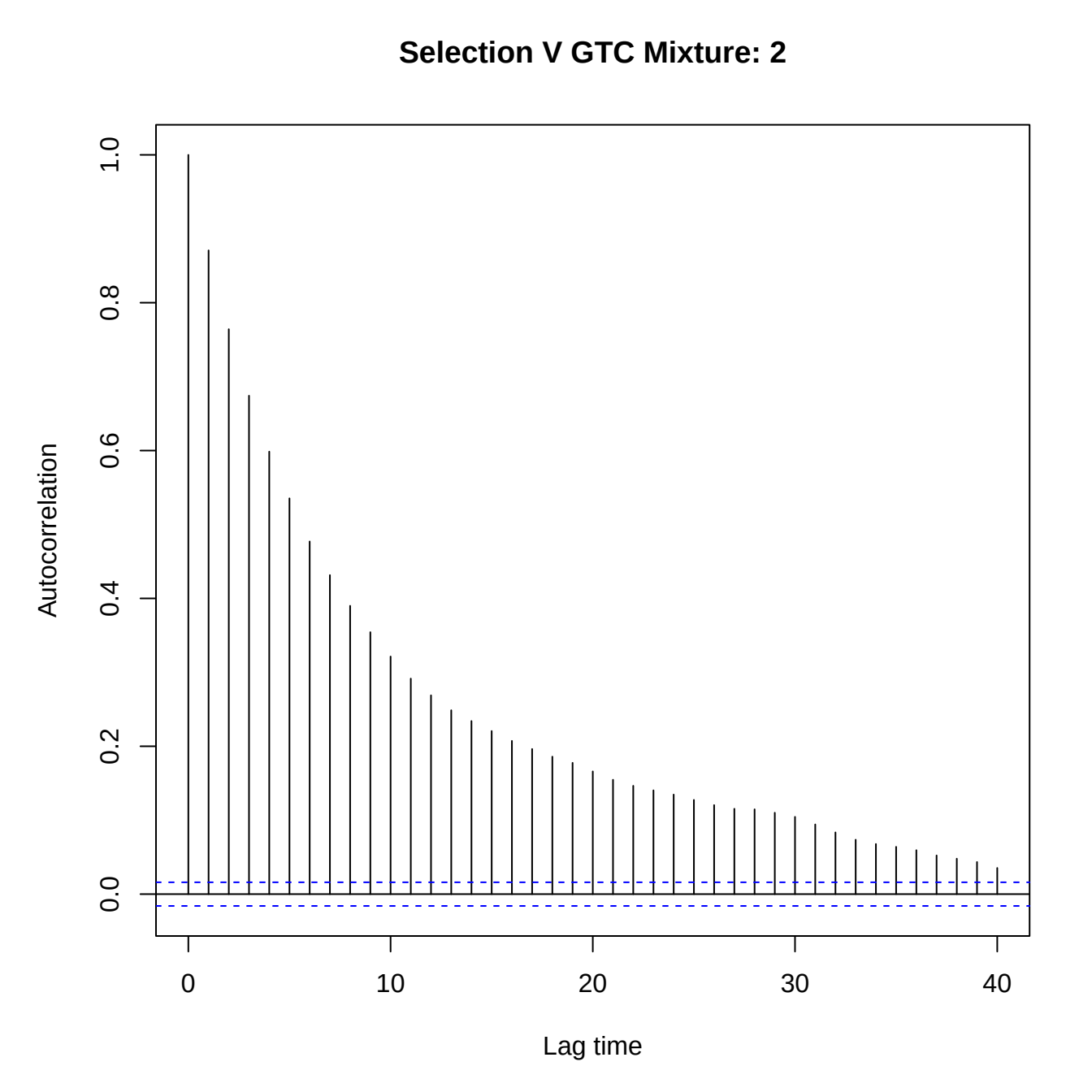
Lag time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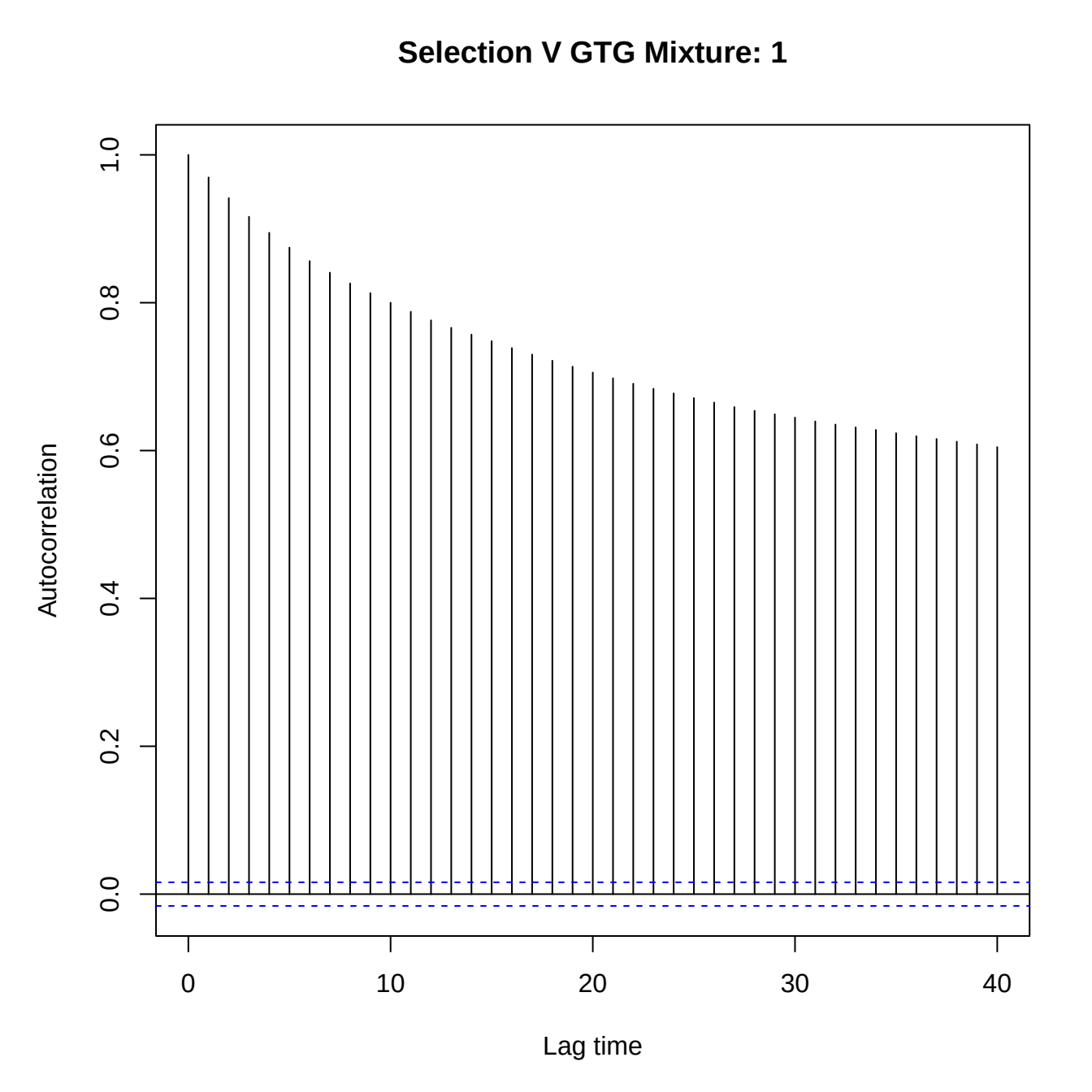
Lag time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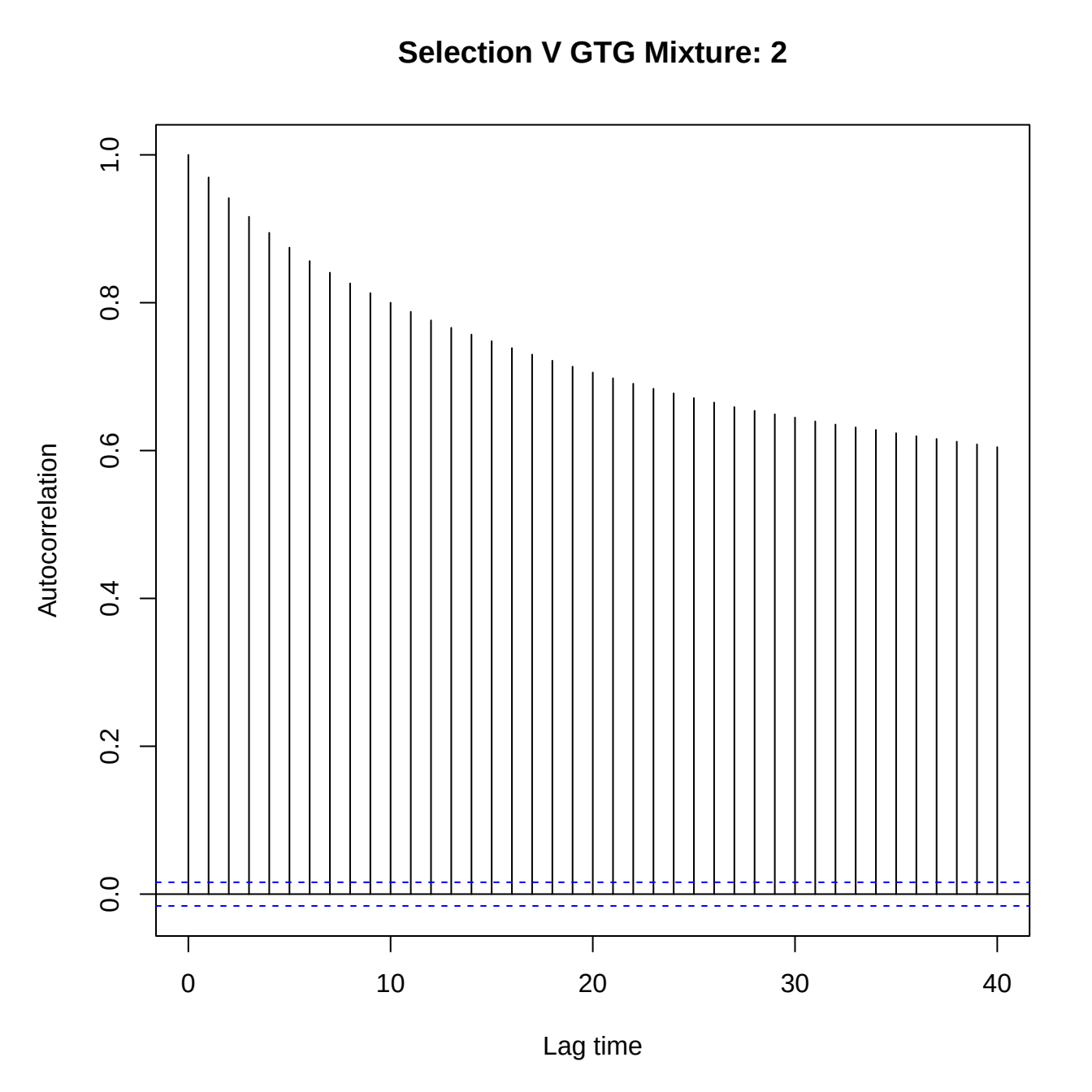
Lag time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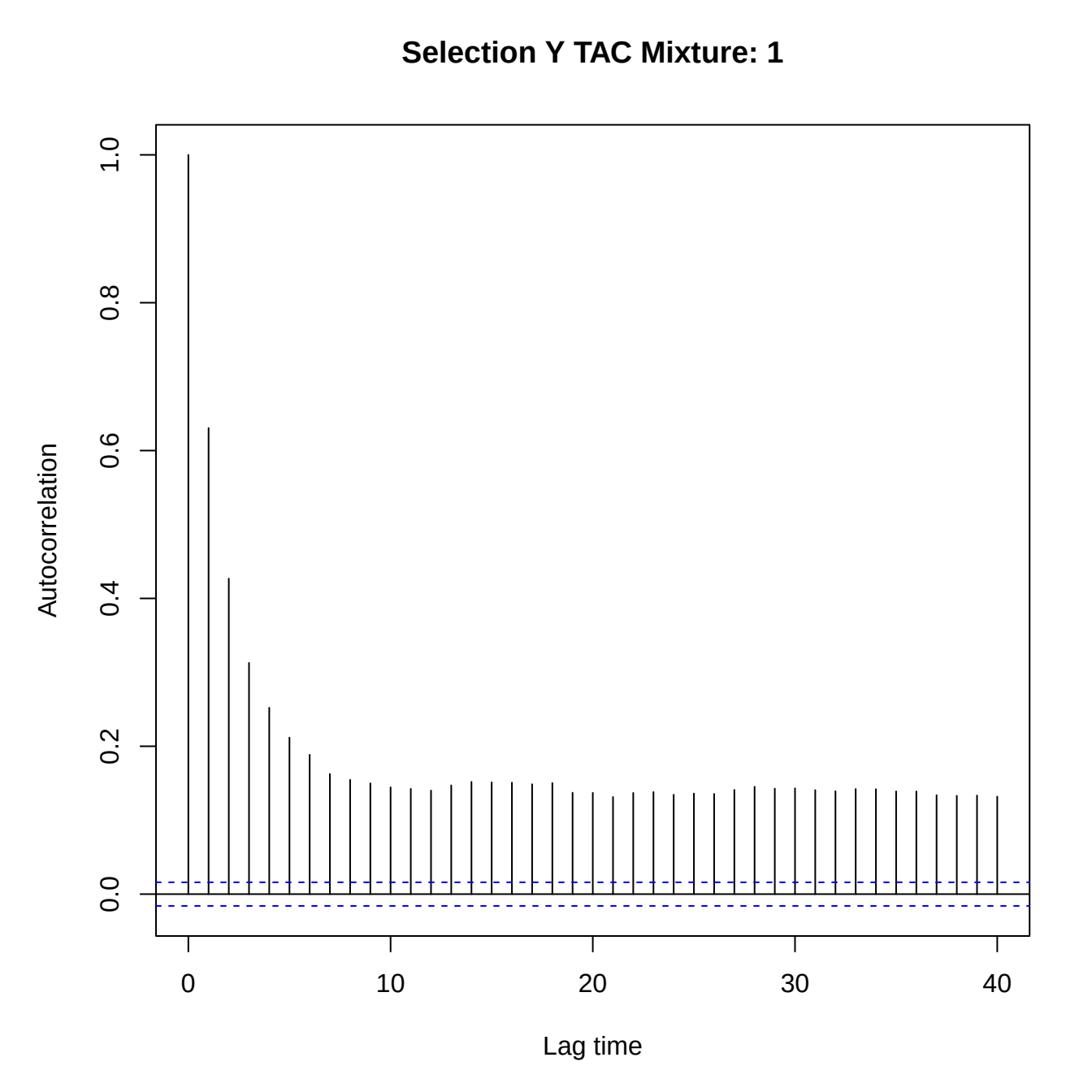
Lag time


Selection Y TAC Mixture: 1
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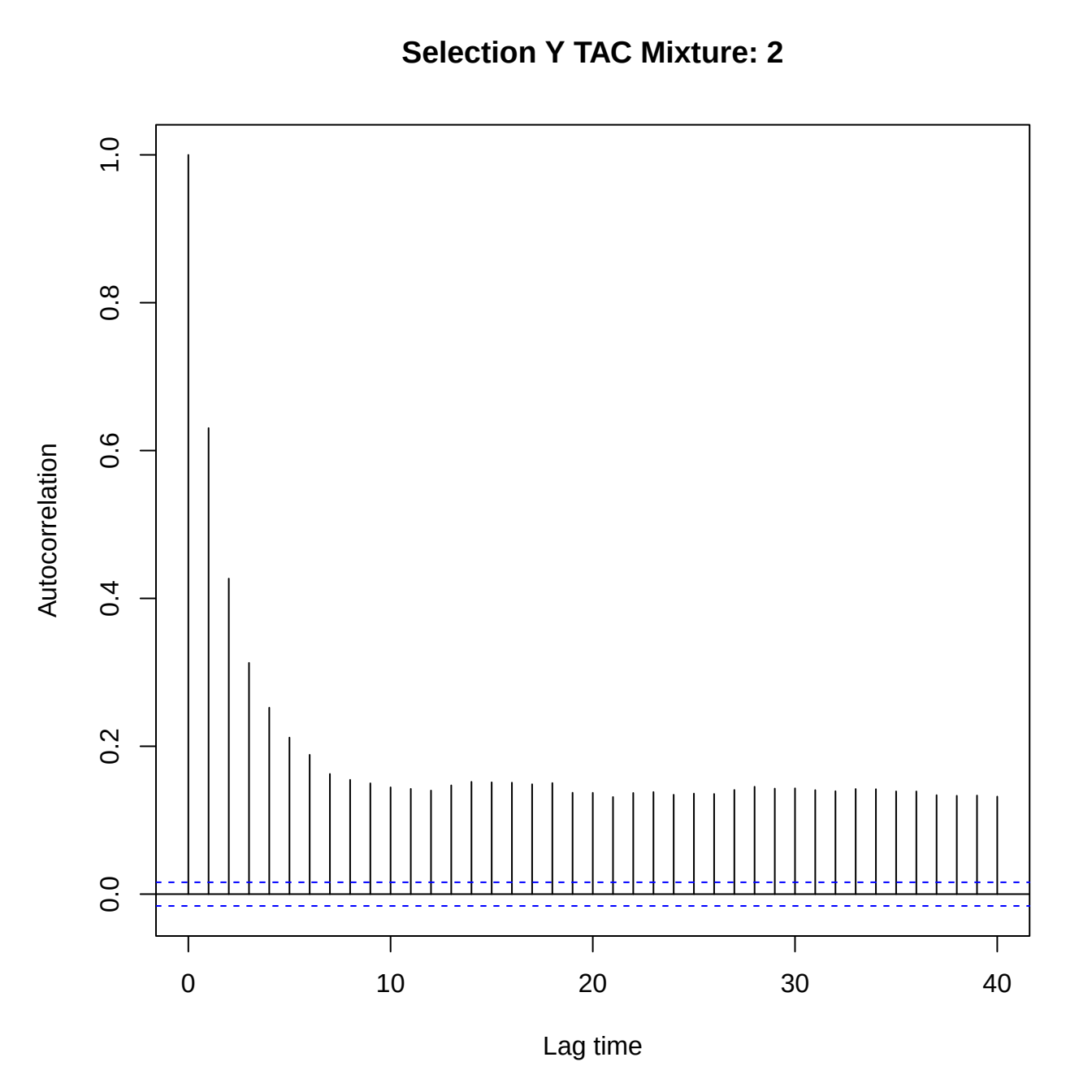
Lag time


Selection Y TAC Mixture: 2
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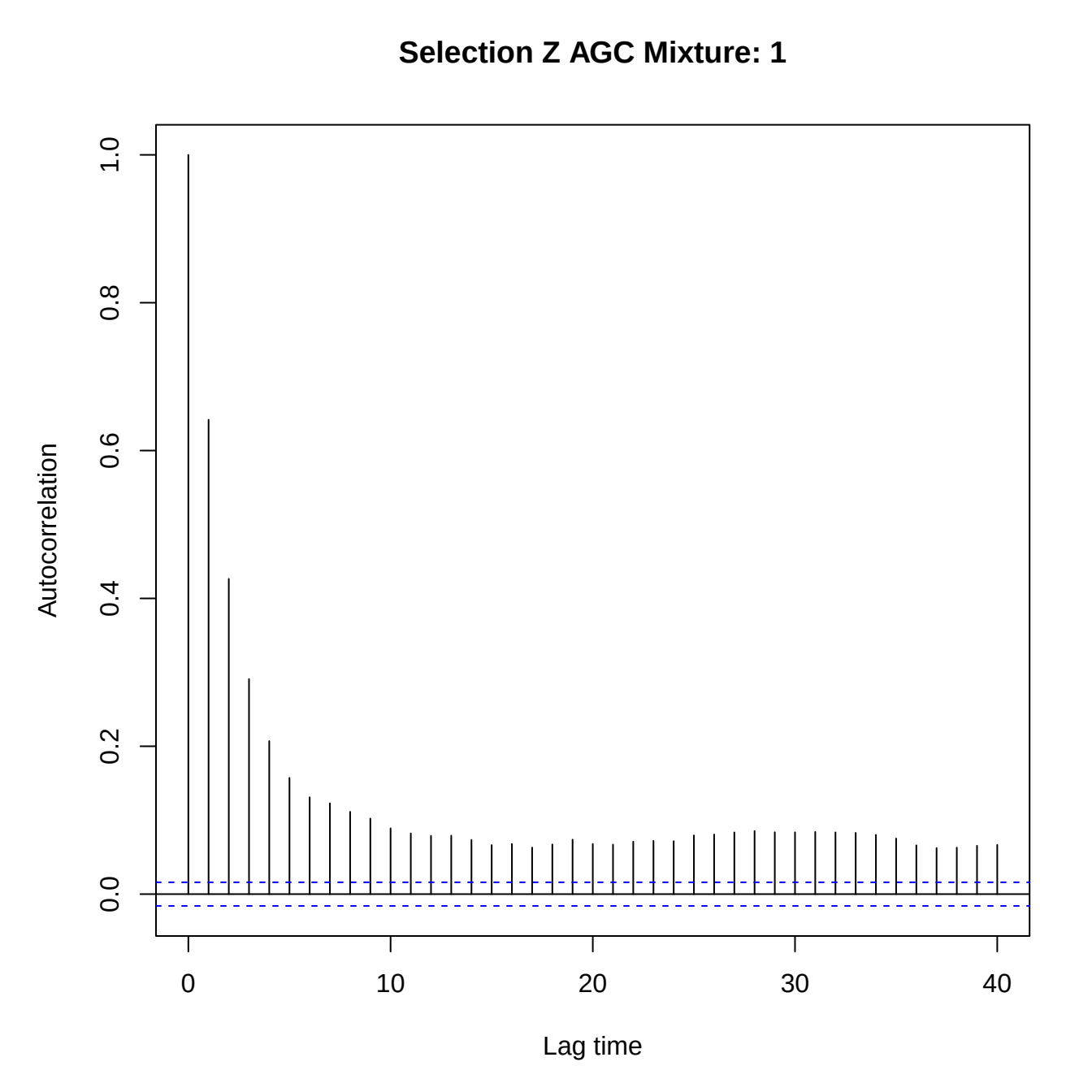
Lag time


Selection Z AGC Mixture: 1
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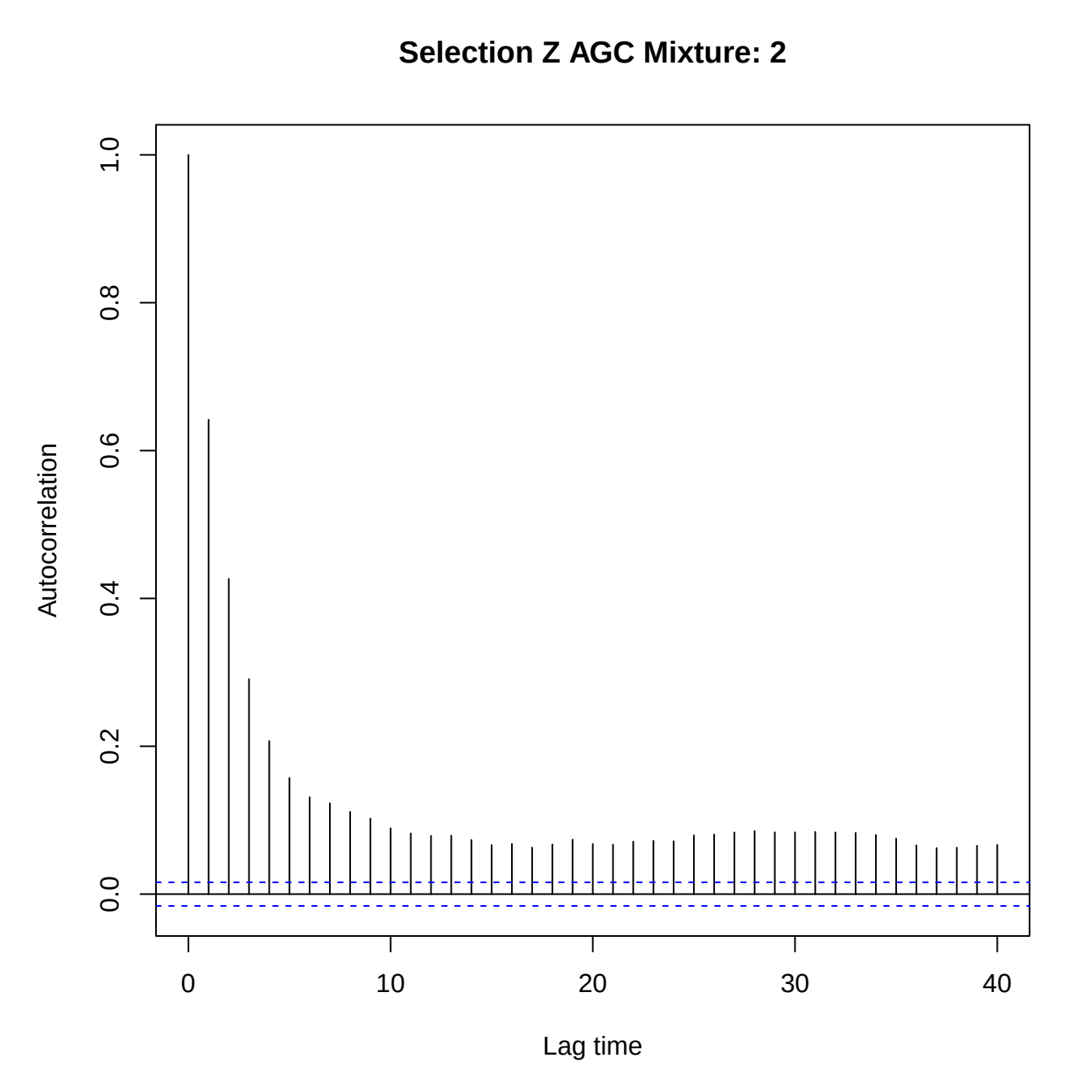
Lag time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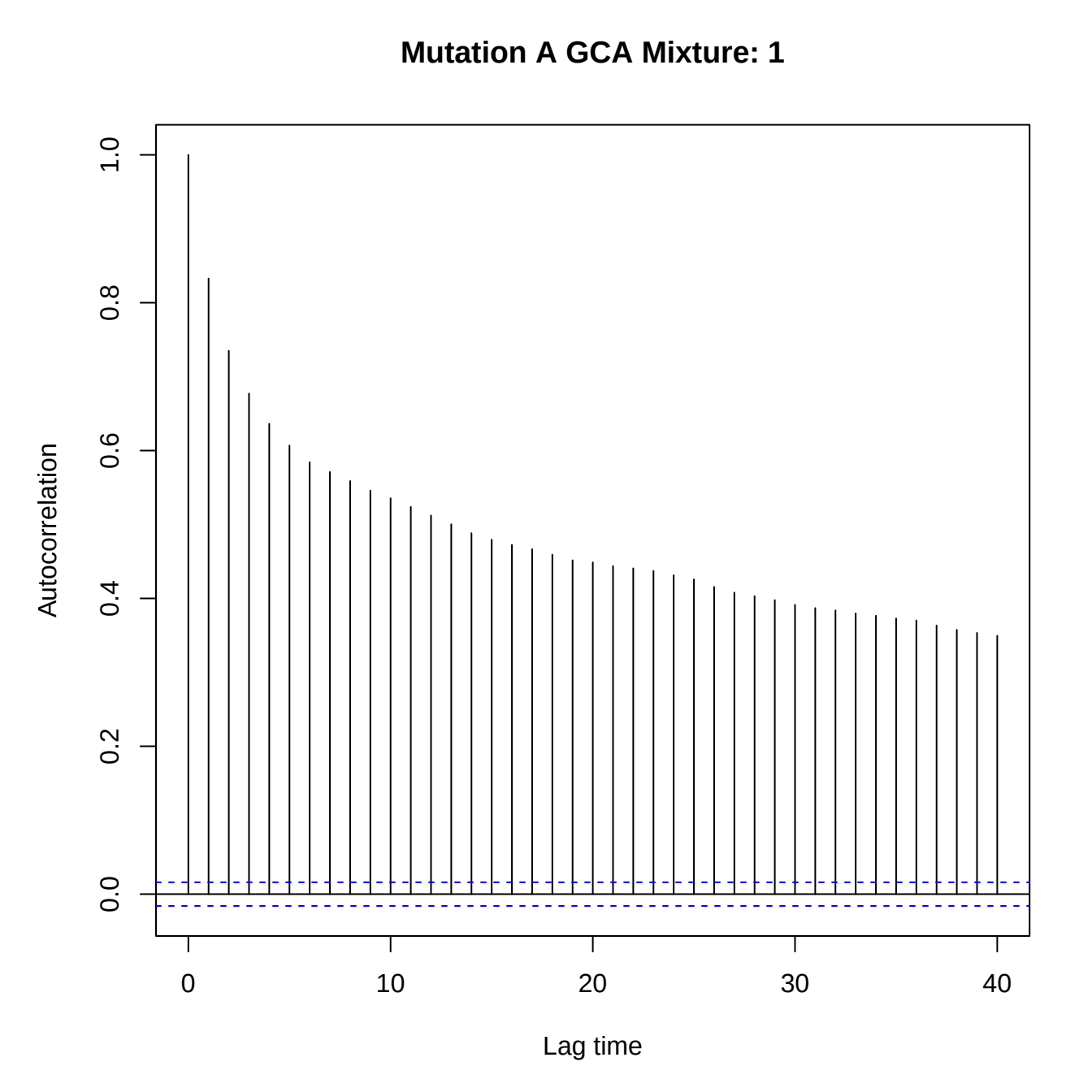
Lag time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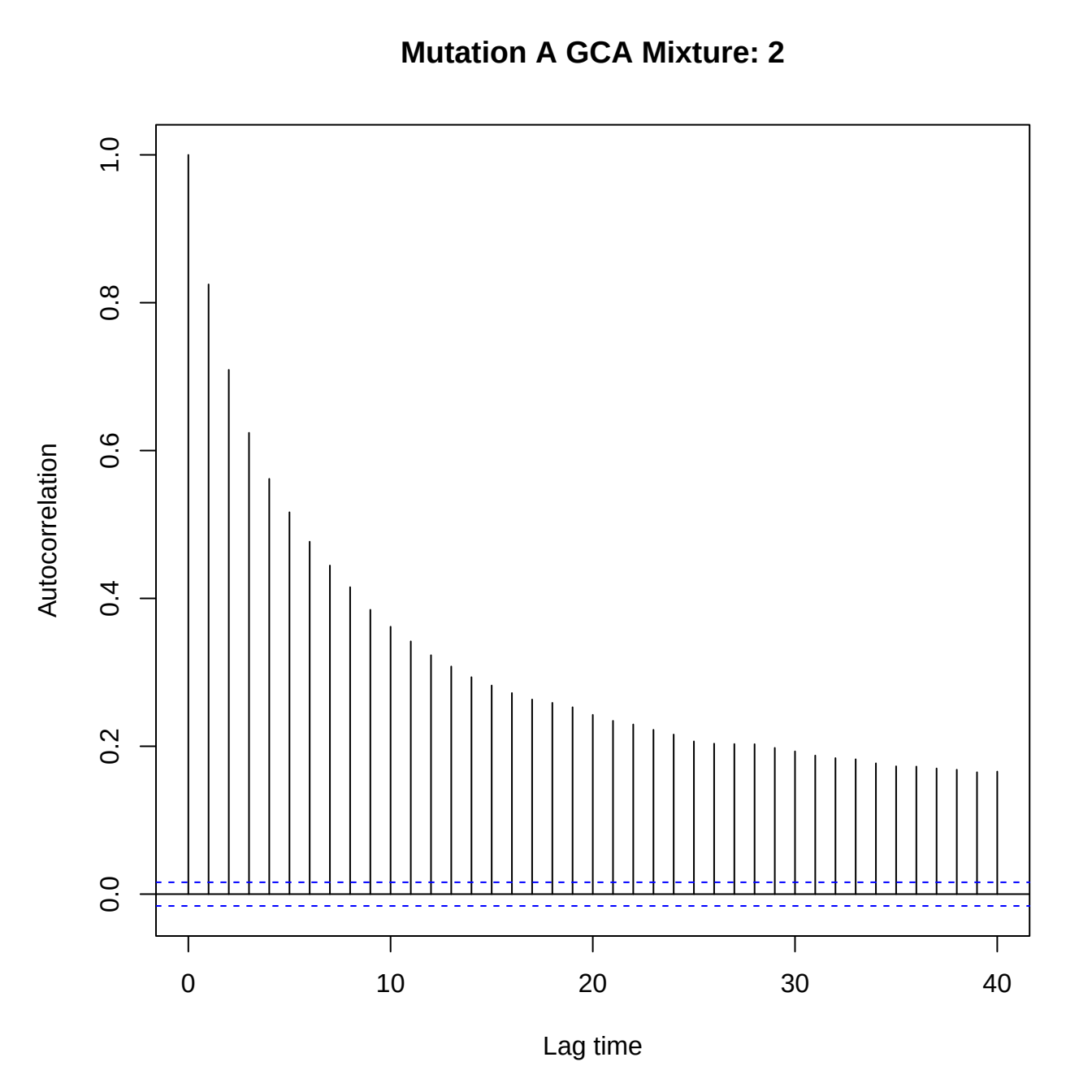
Lag time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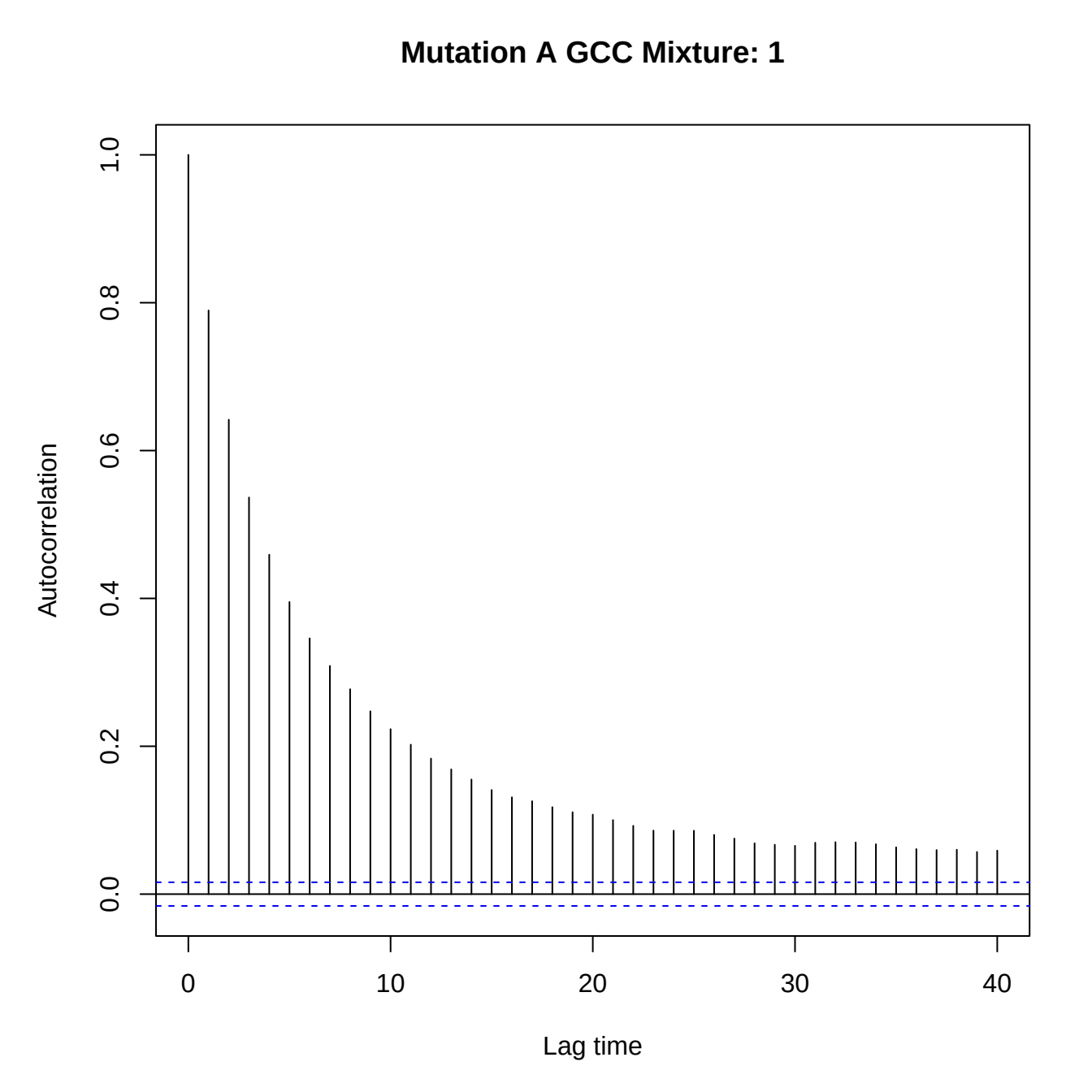
Lag time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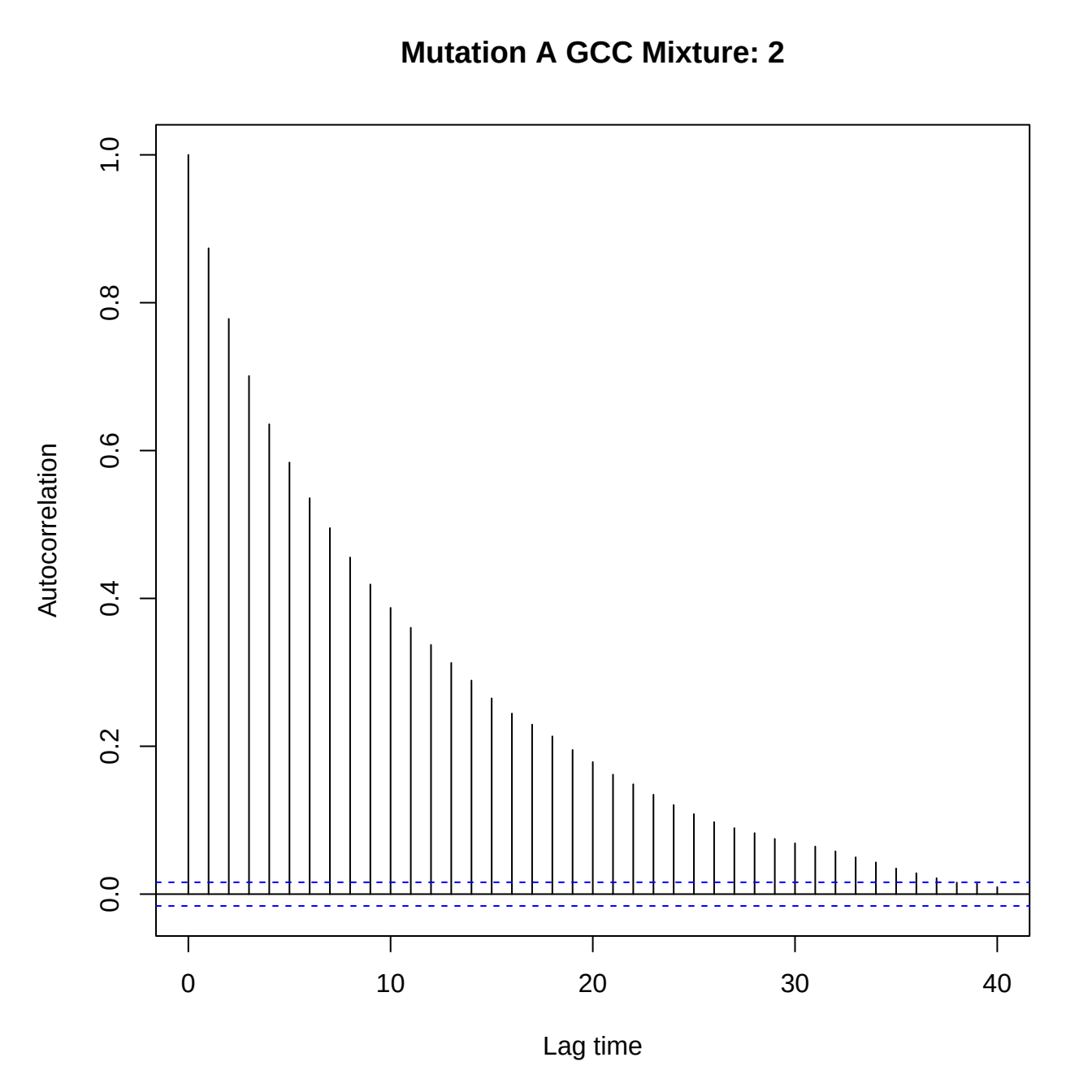
Lag time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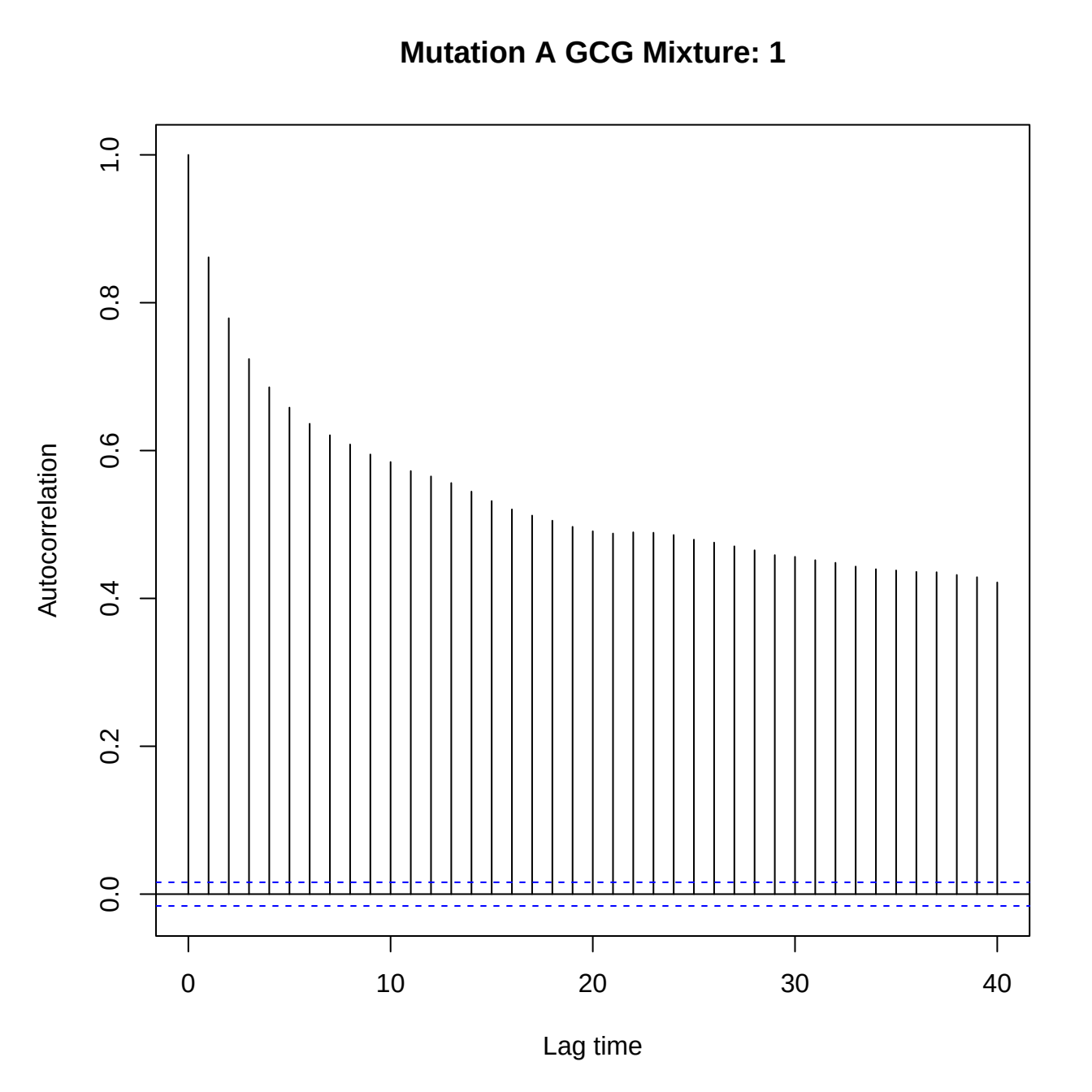
Lag time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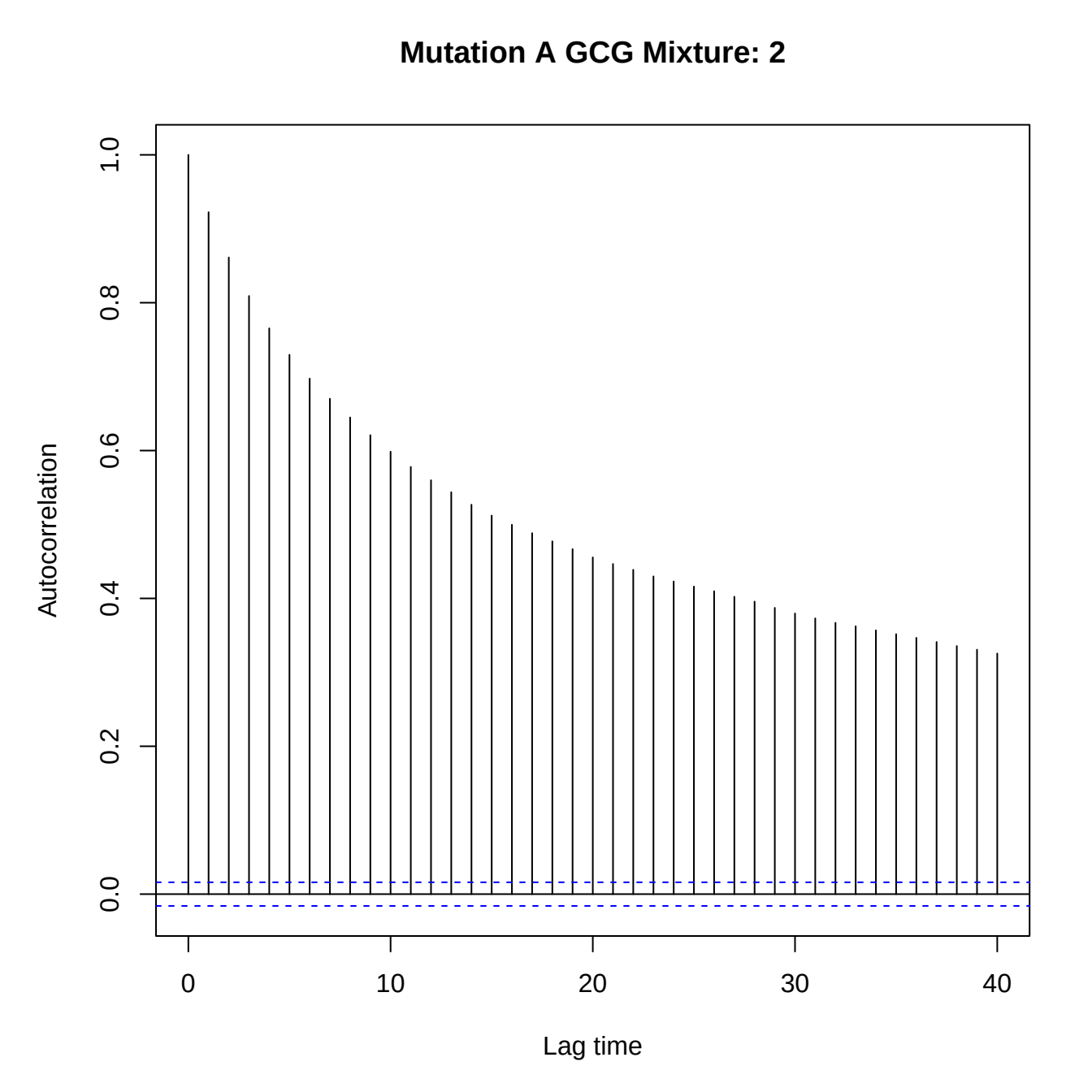
Lag time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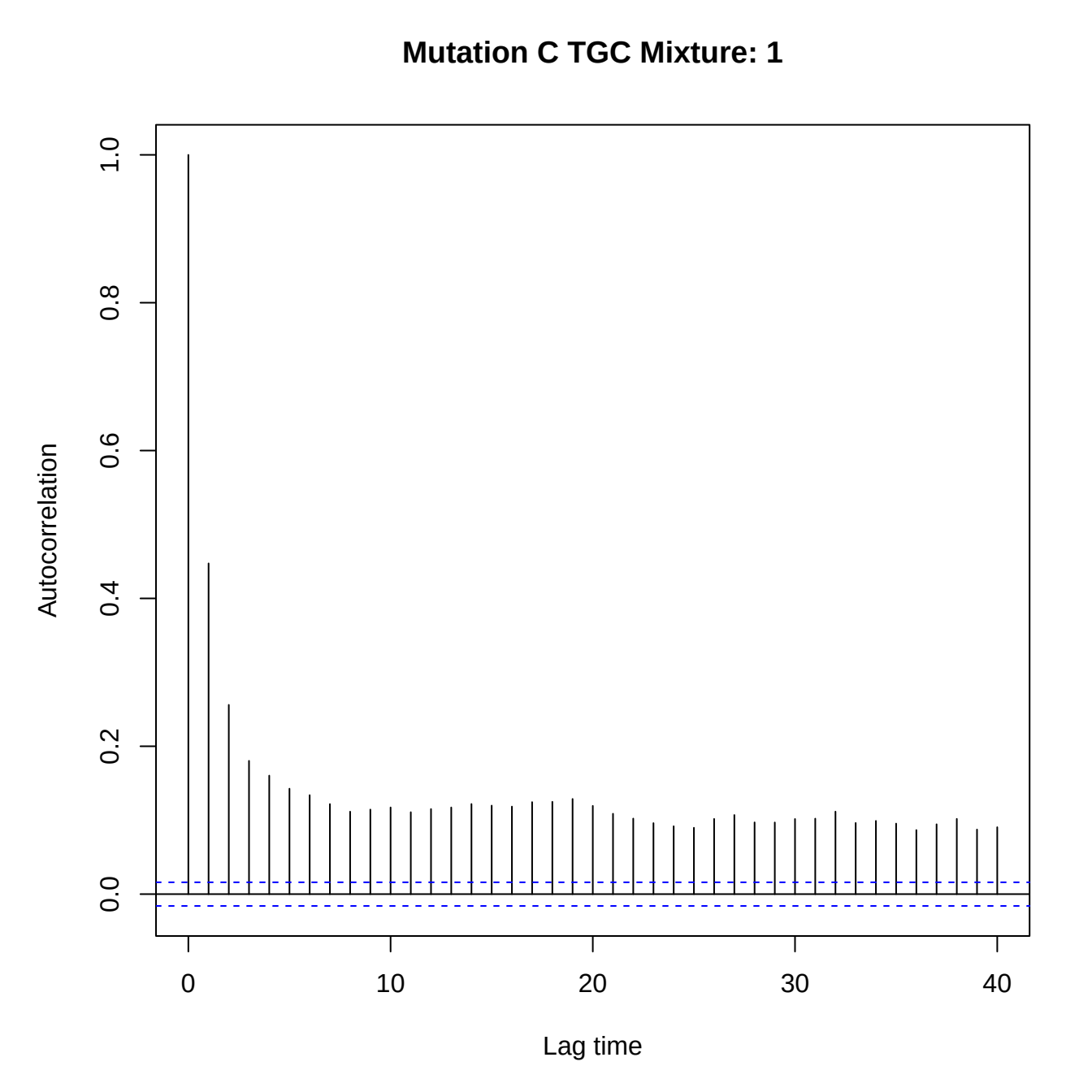
Lag time


Mutation C TGC Mixture: 1
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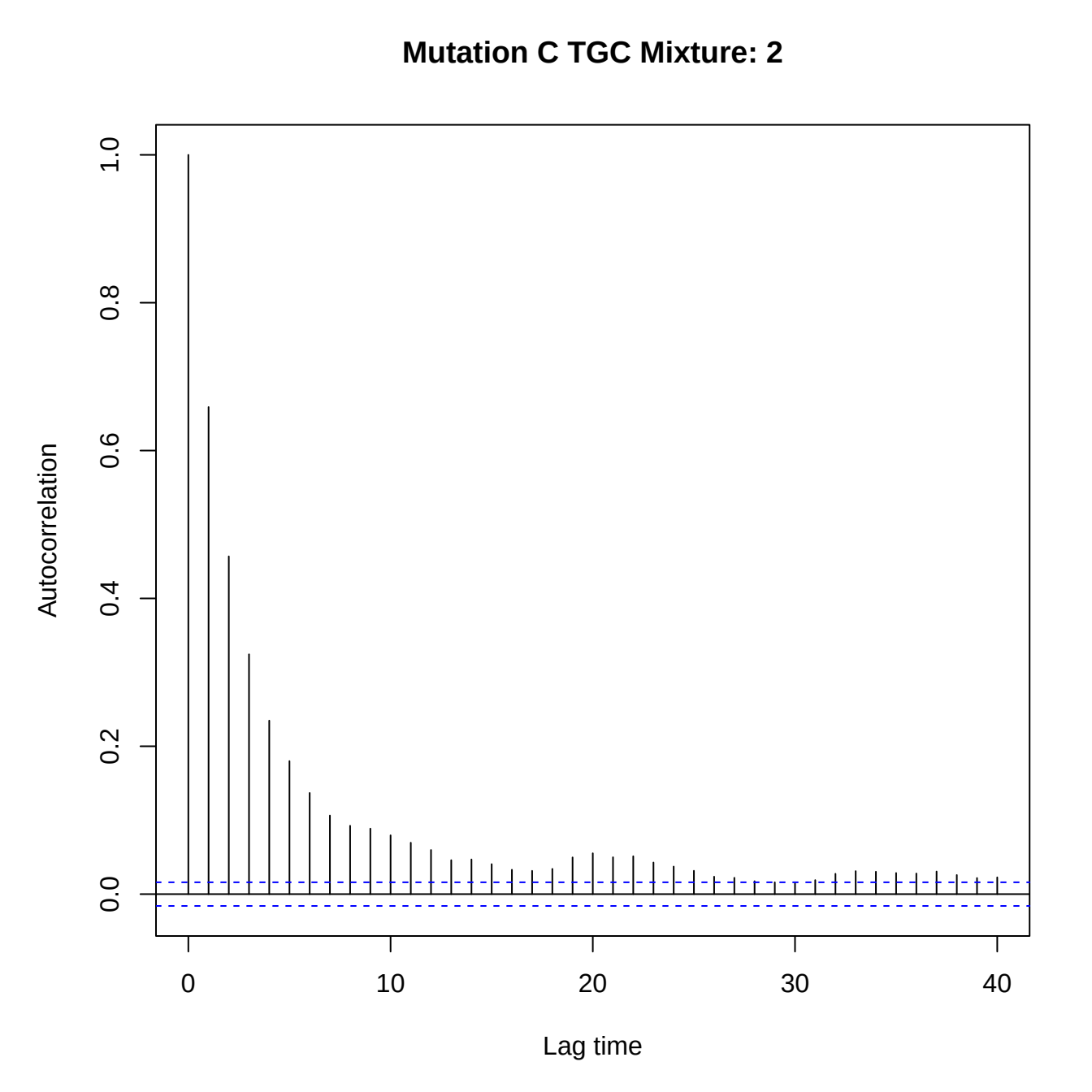
Lag time


Mutation C TGC Mixture: 2
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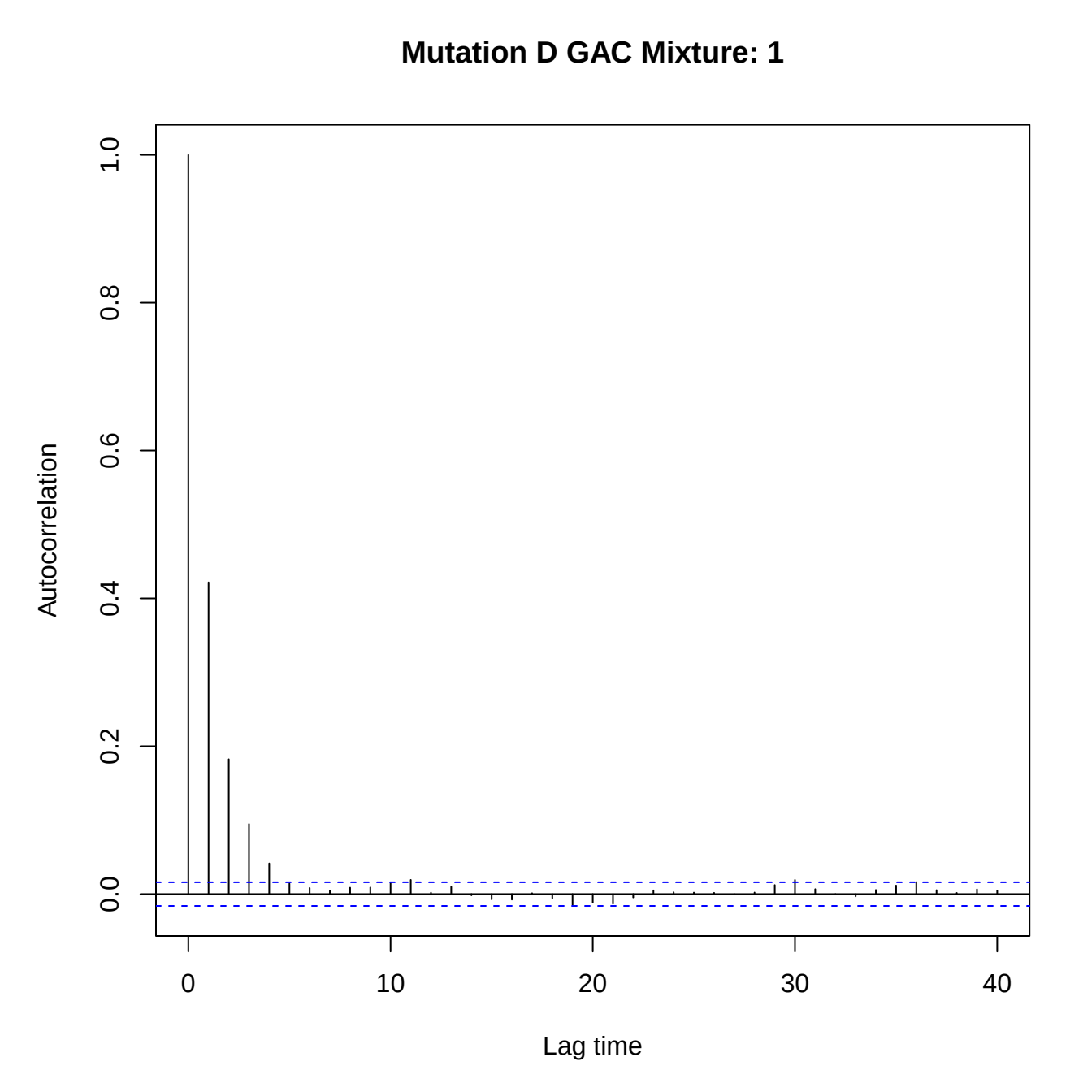
Lag time


Mutation D GAC Mixture: 1
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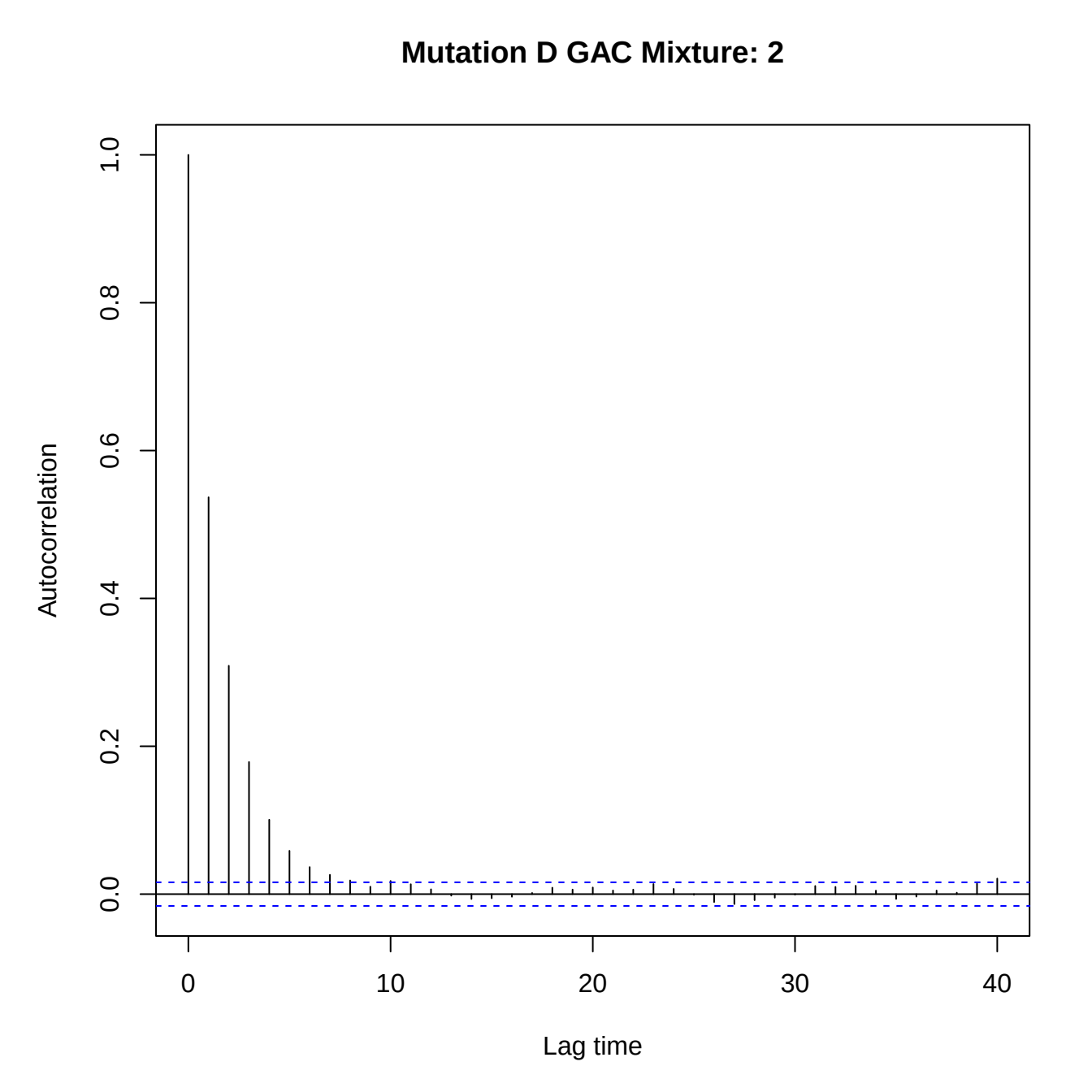
Lag time


Mutation D GAC Mixture: 2
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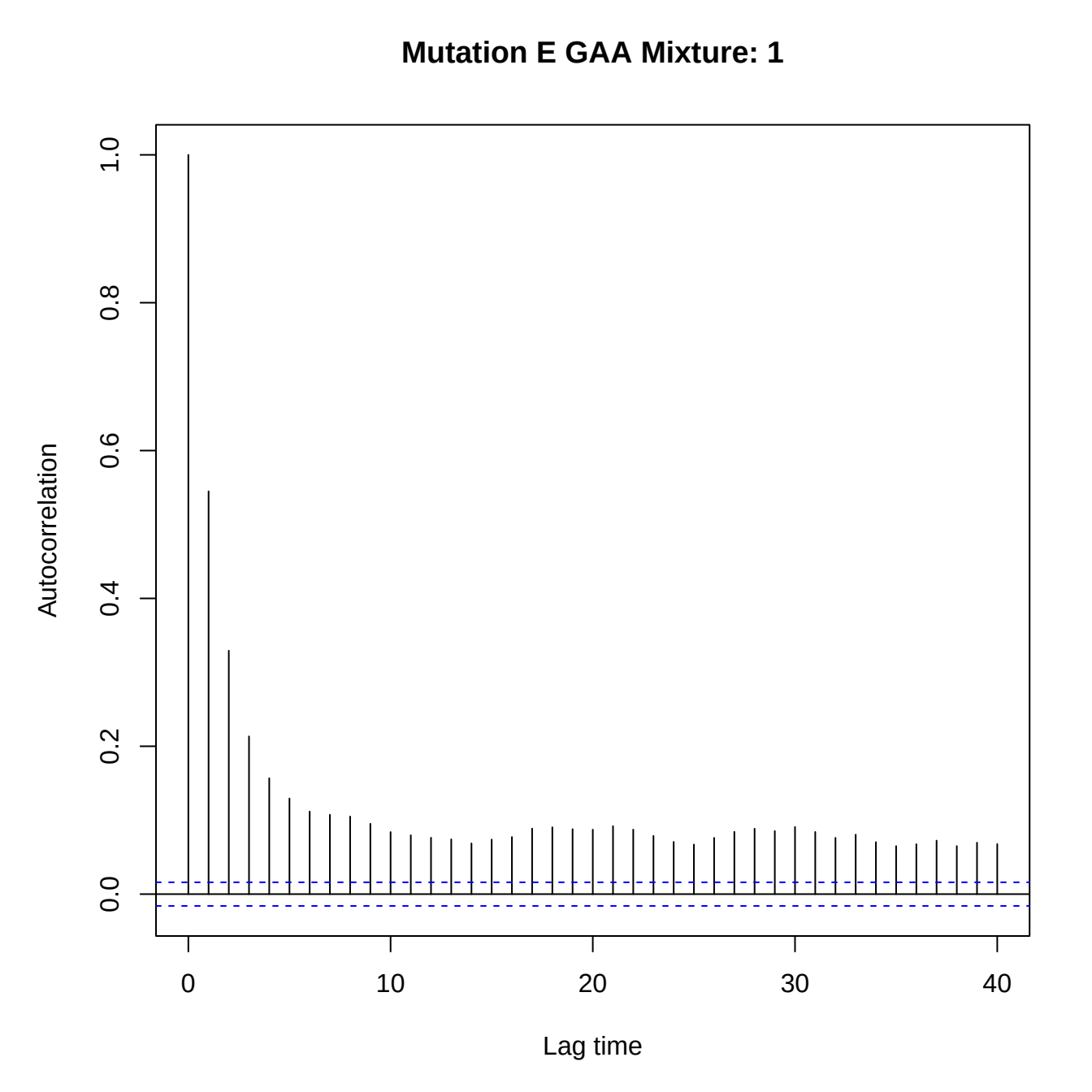
Lag time


Mutation E GAA Mixture: 1
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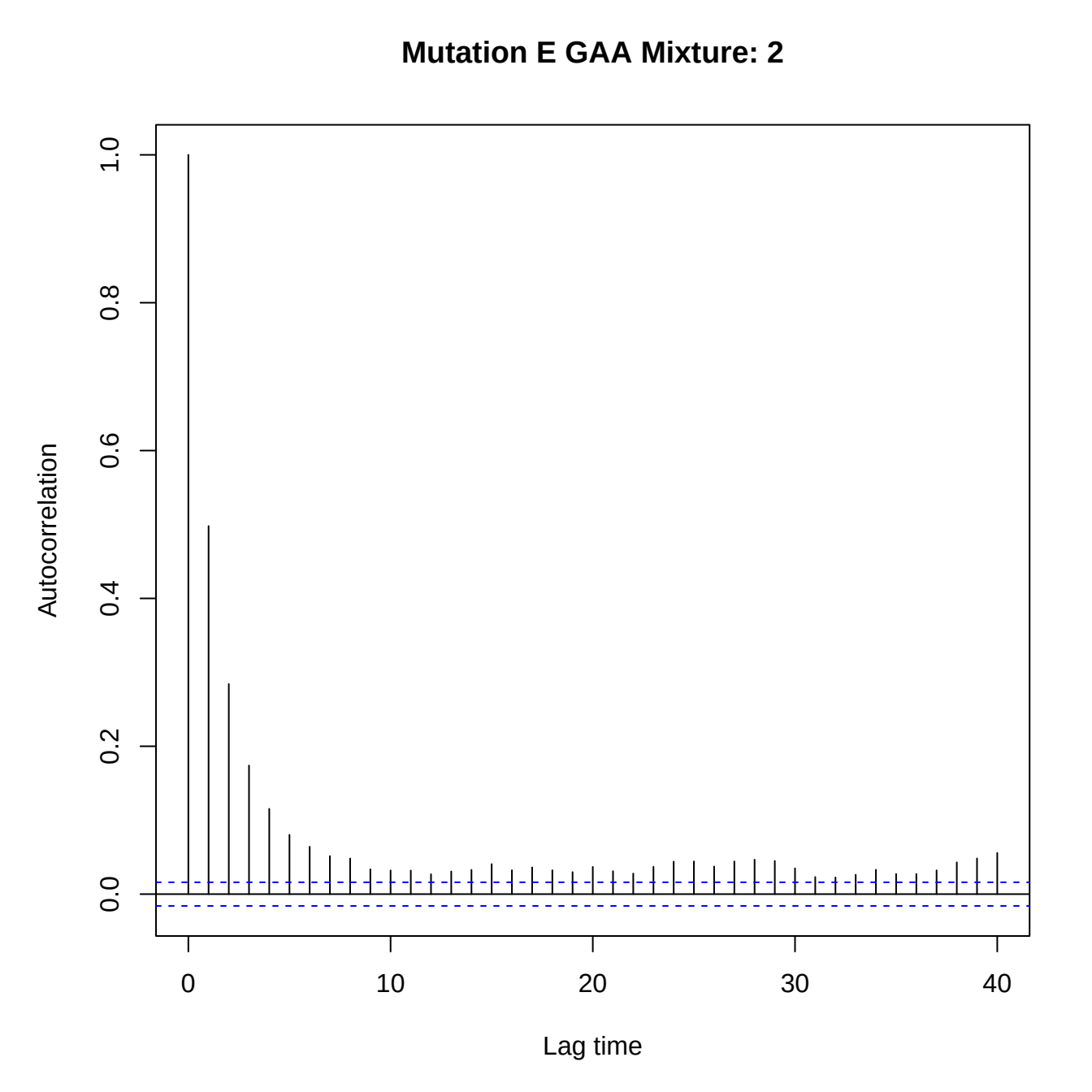
Lag time


Mutation E GAA Mixture: 2
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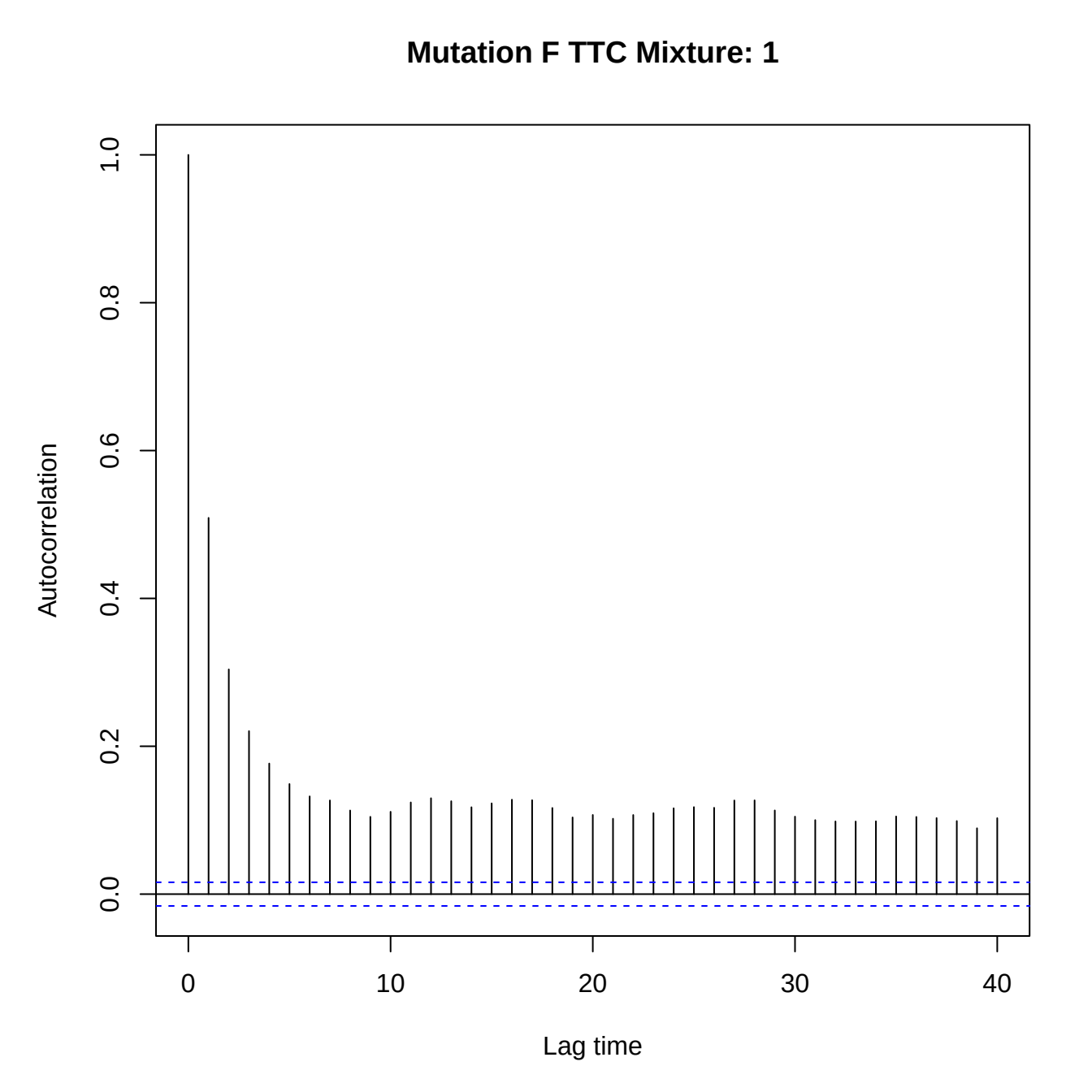
Lag time


Mutation F TTC Mixture: 1
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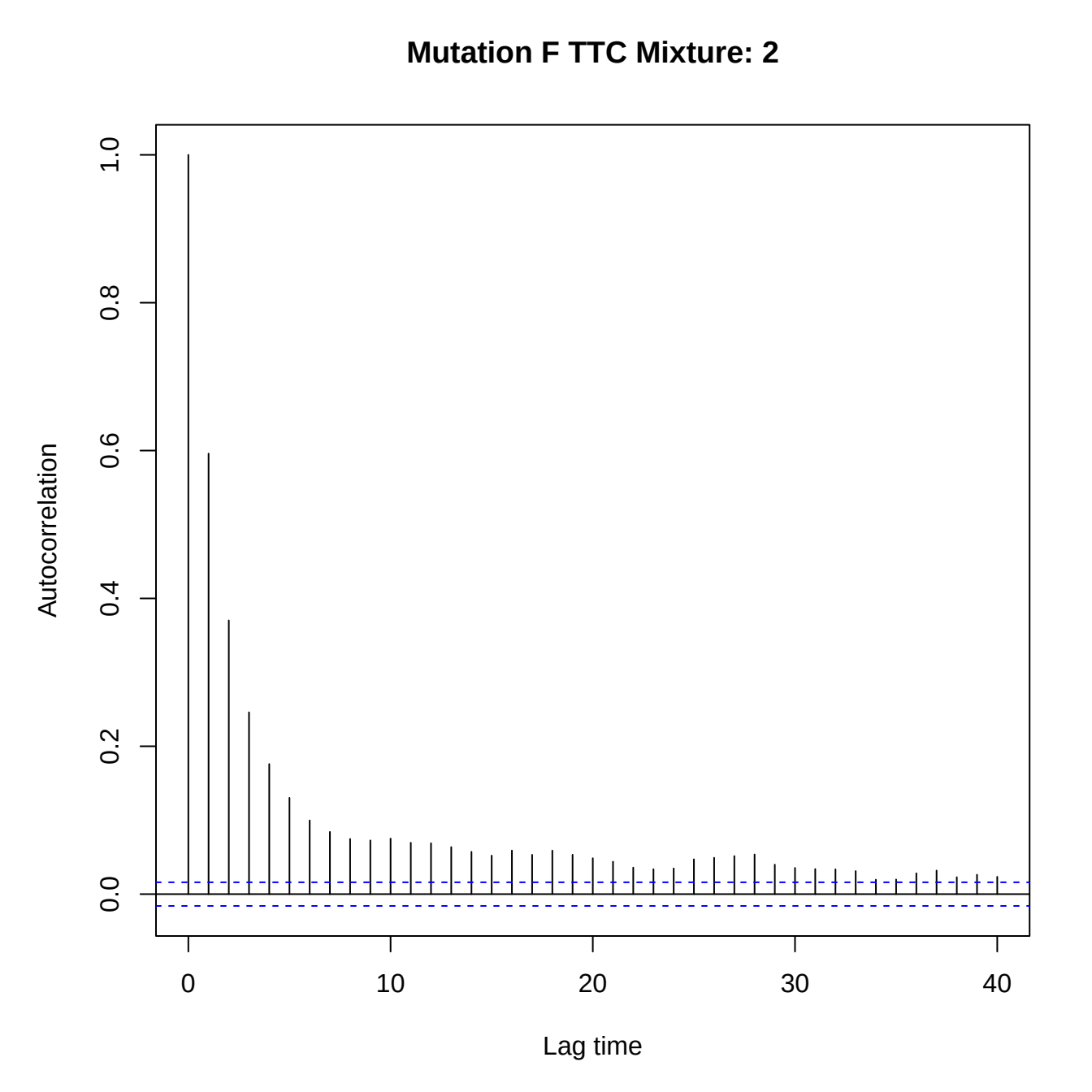
Lag time


Mutation F TTC Mixture: 2
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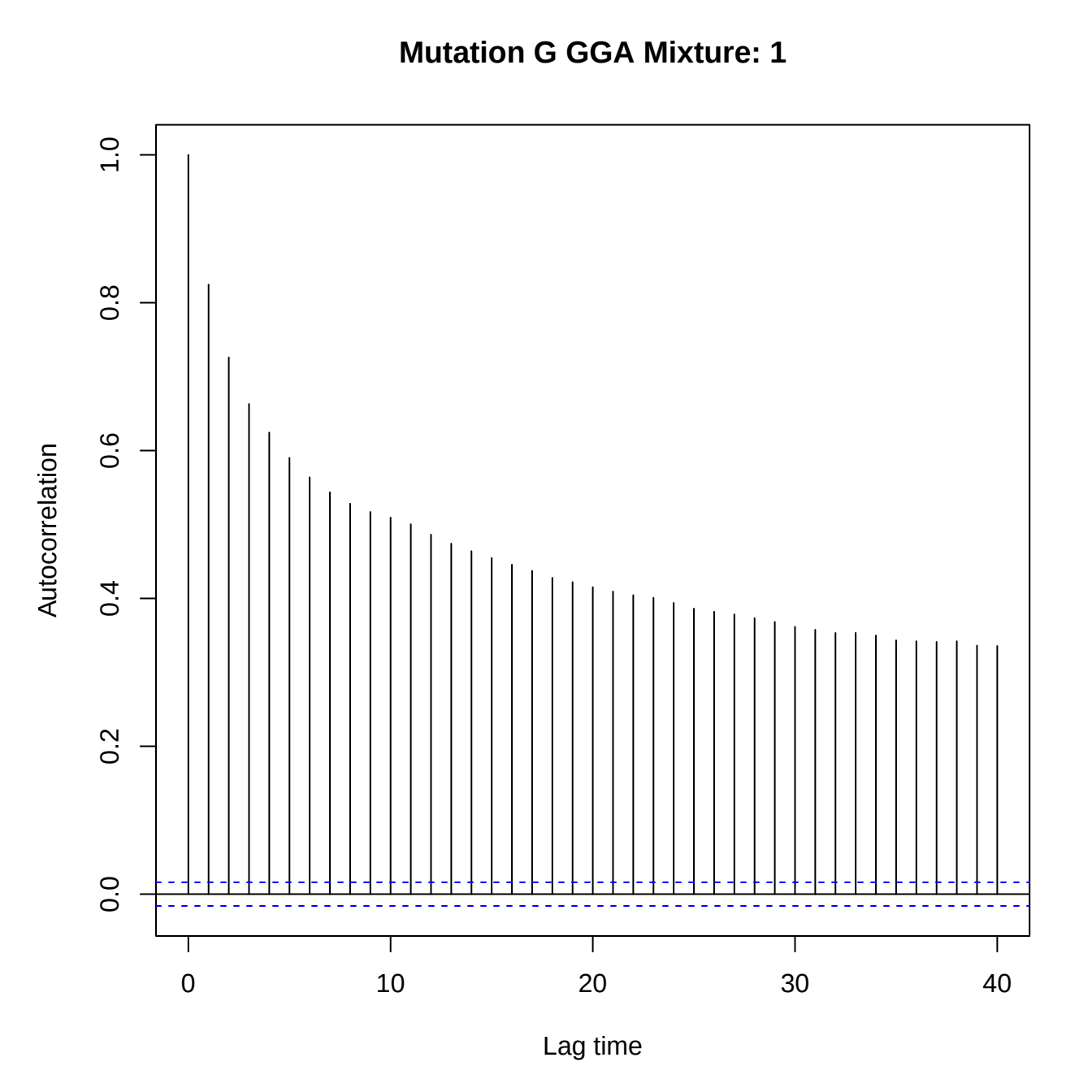
Lag time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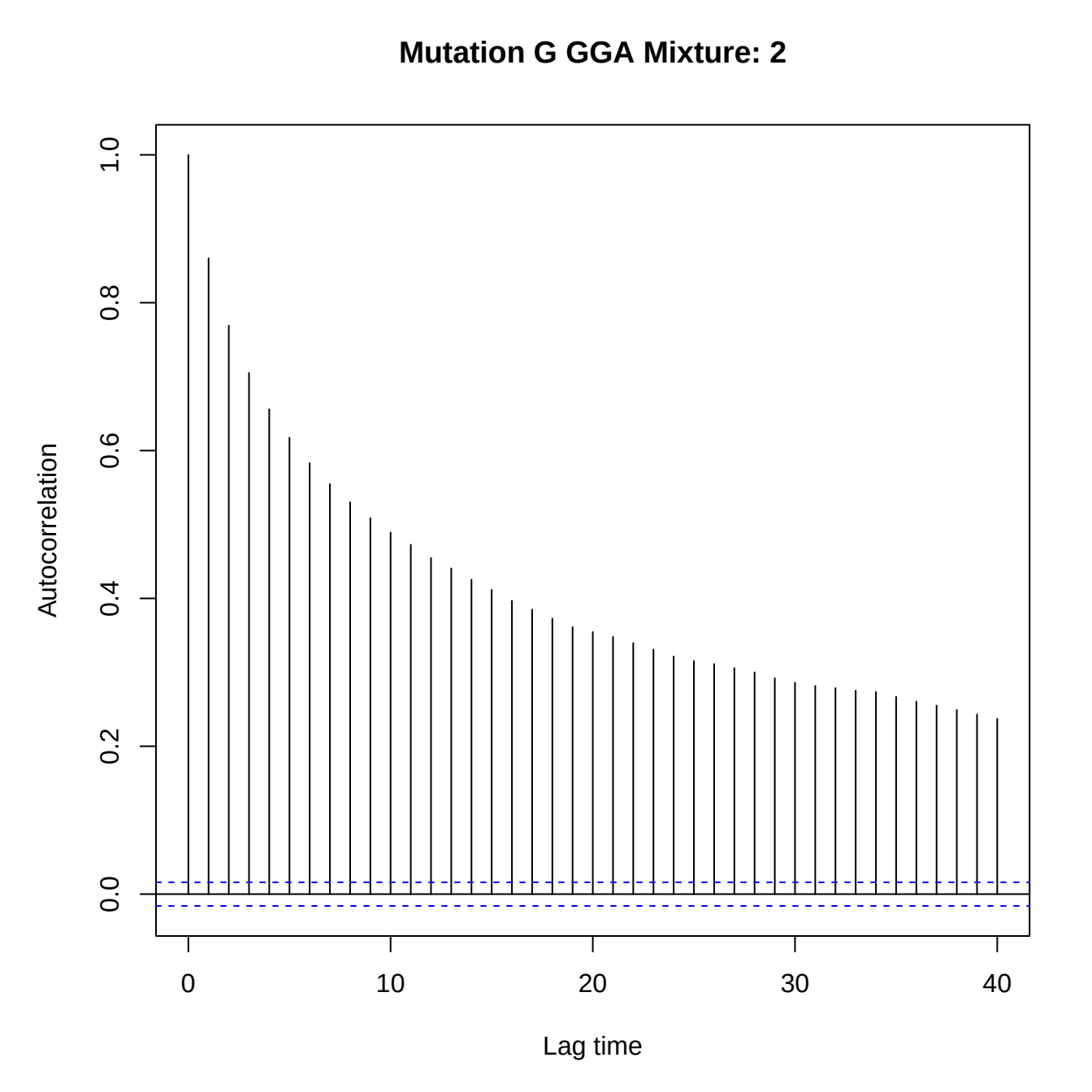
Lag time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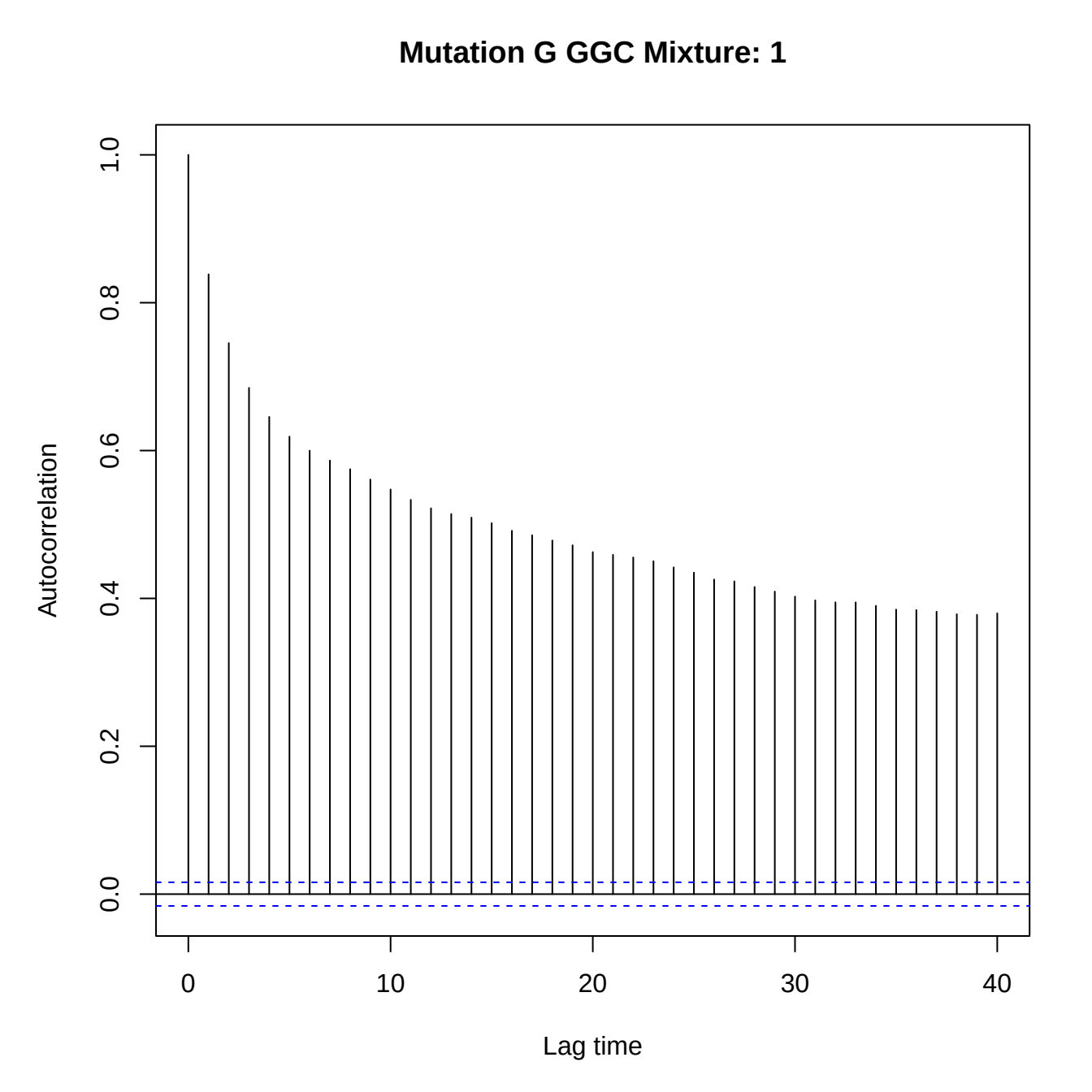
Lag time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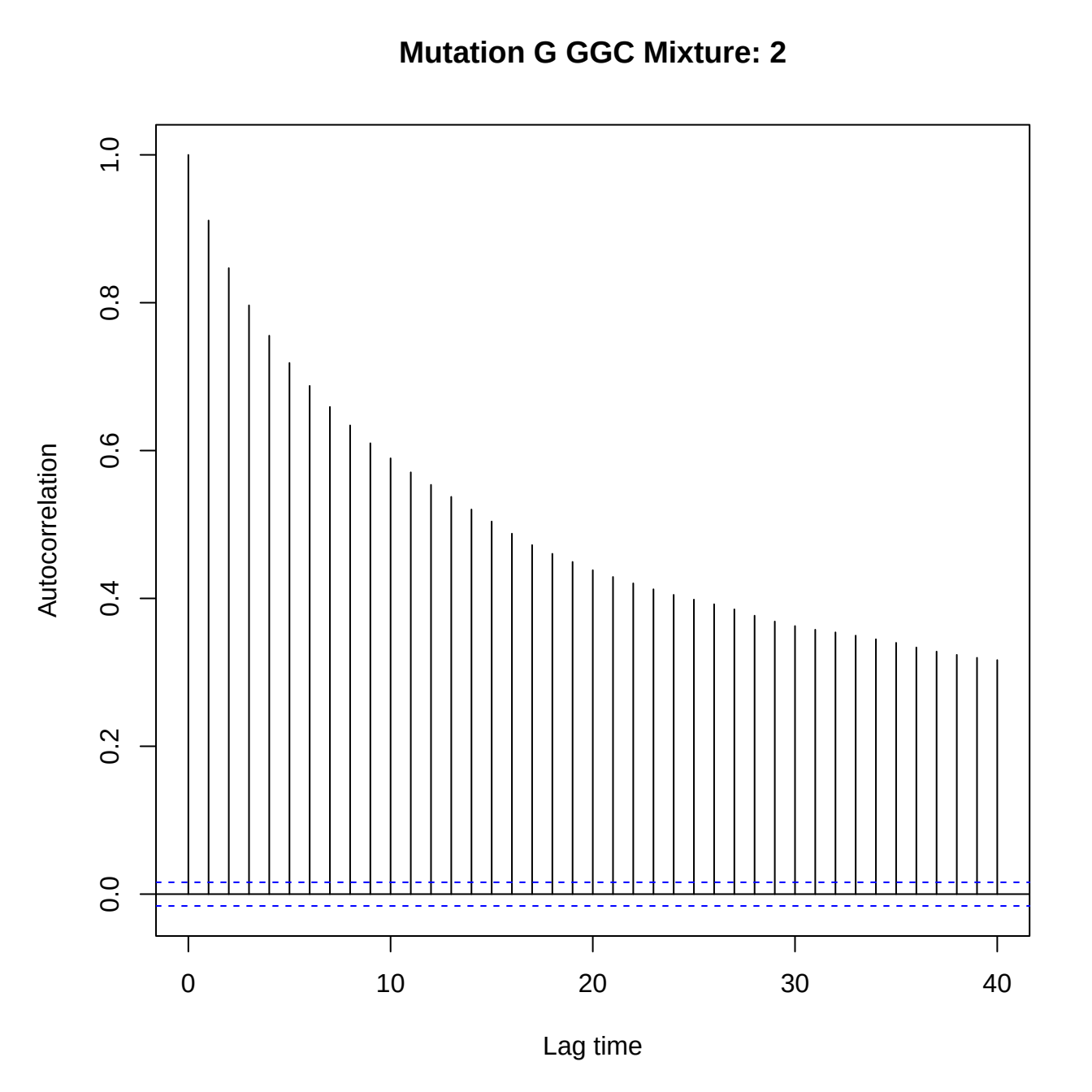
Lag time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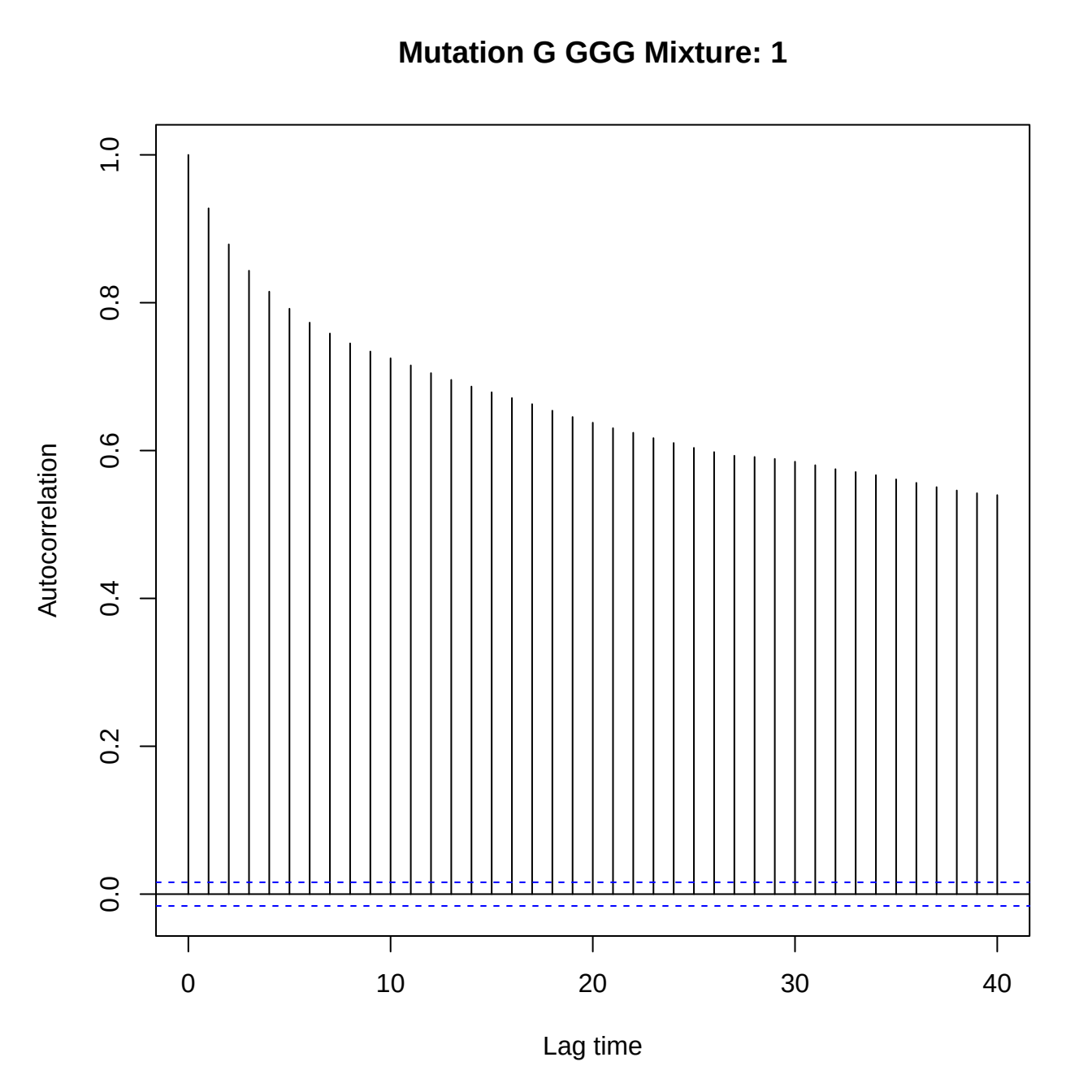
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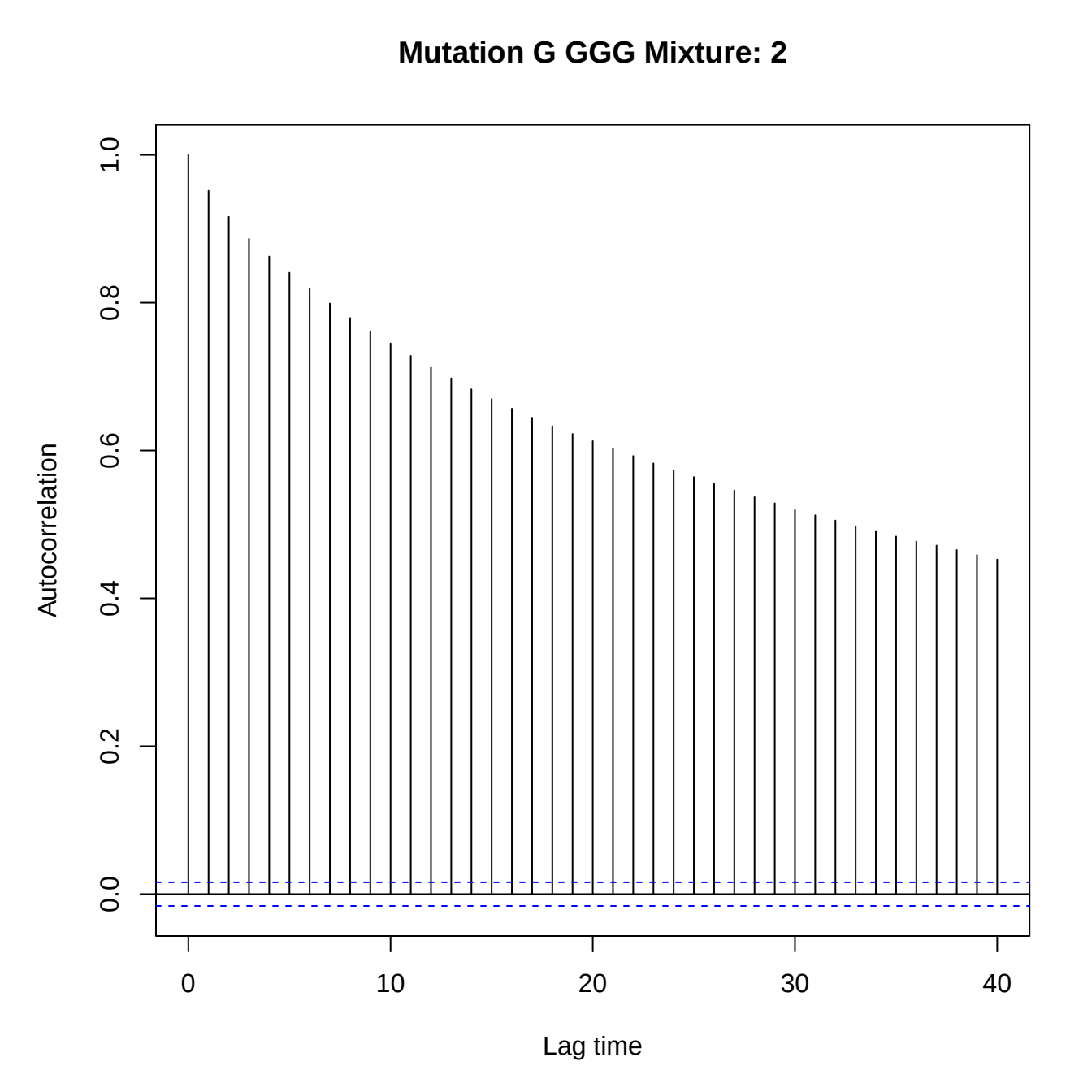
Lag time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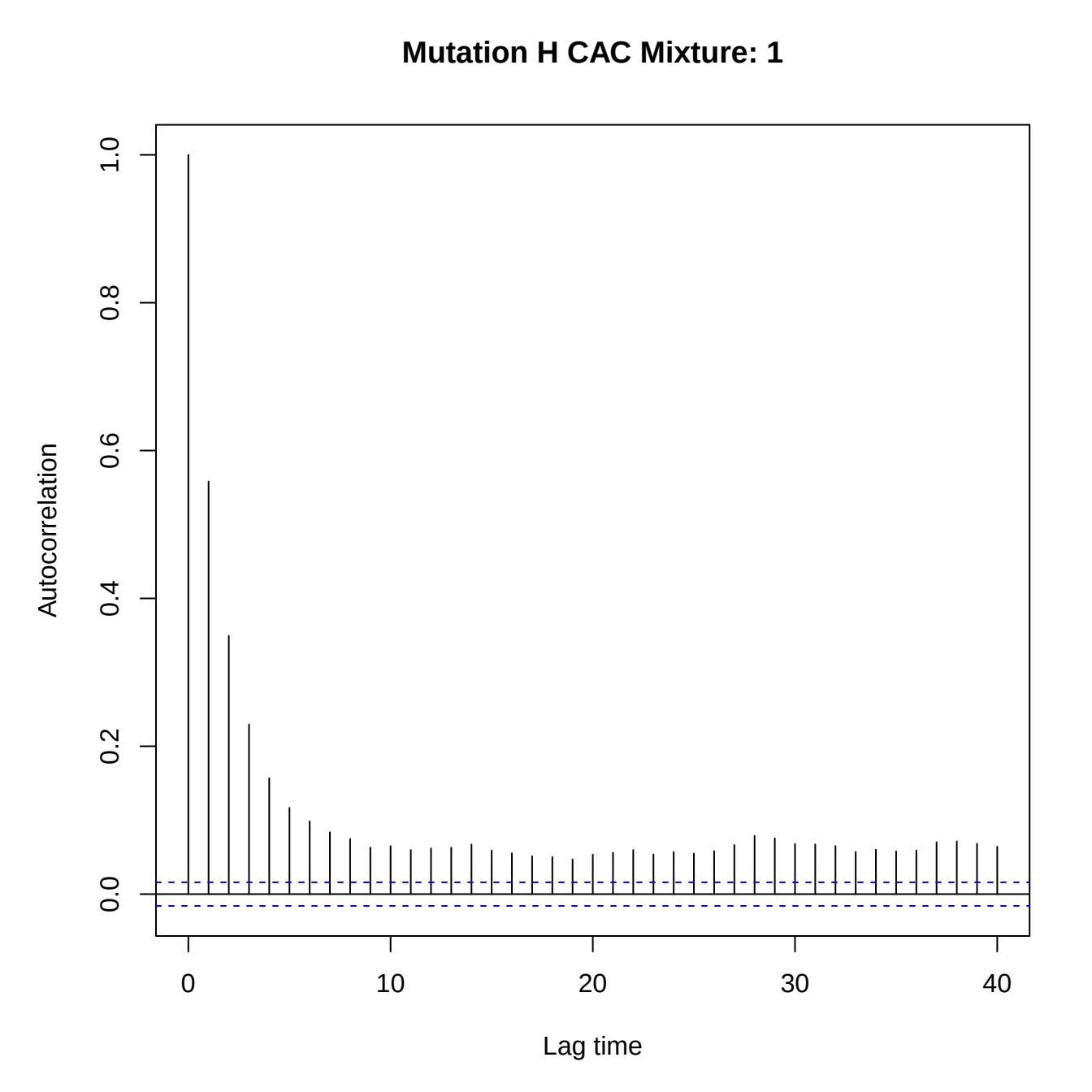
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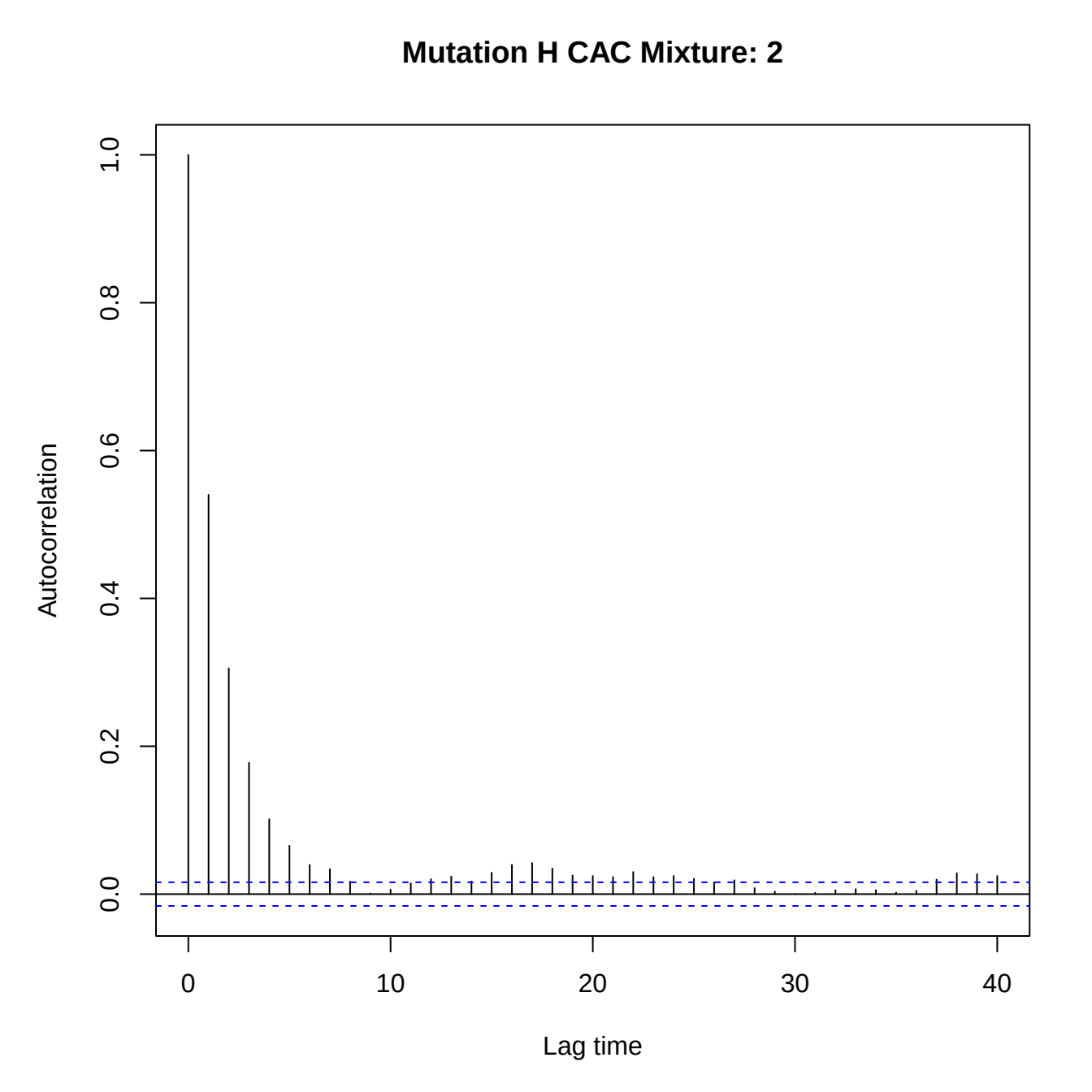
Lag time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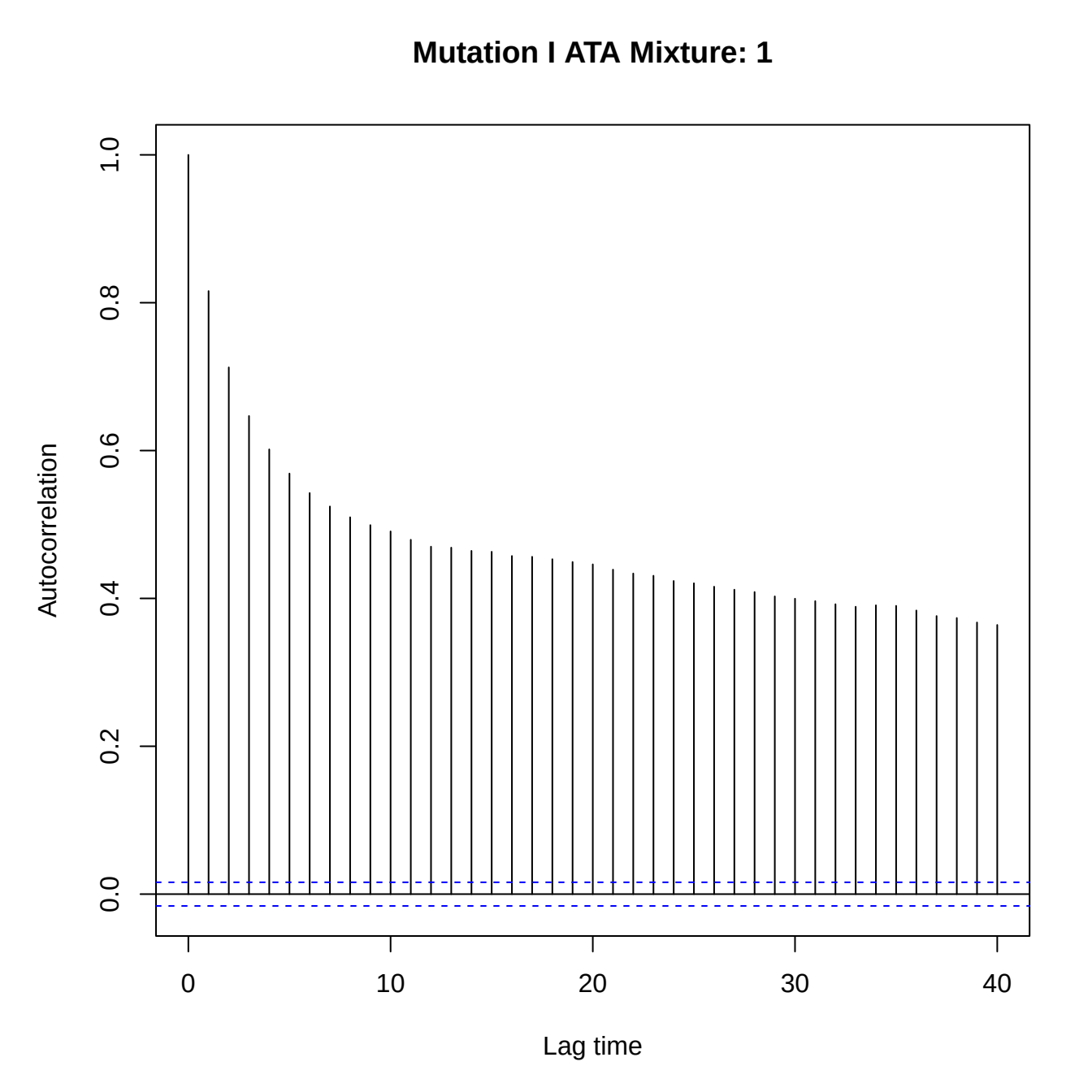
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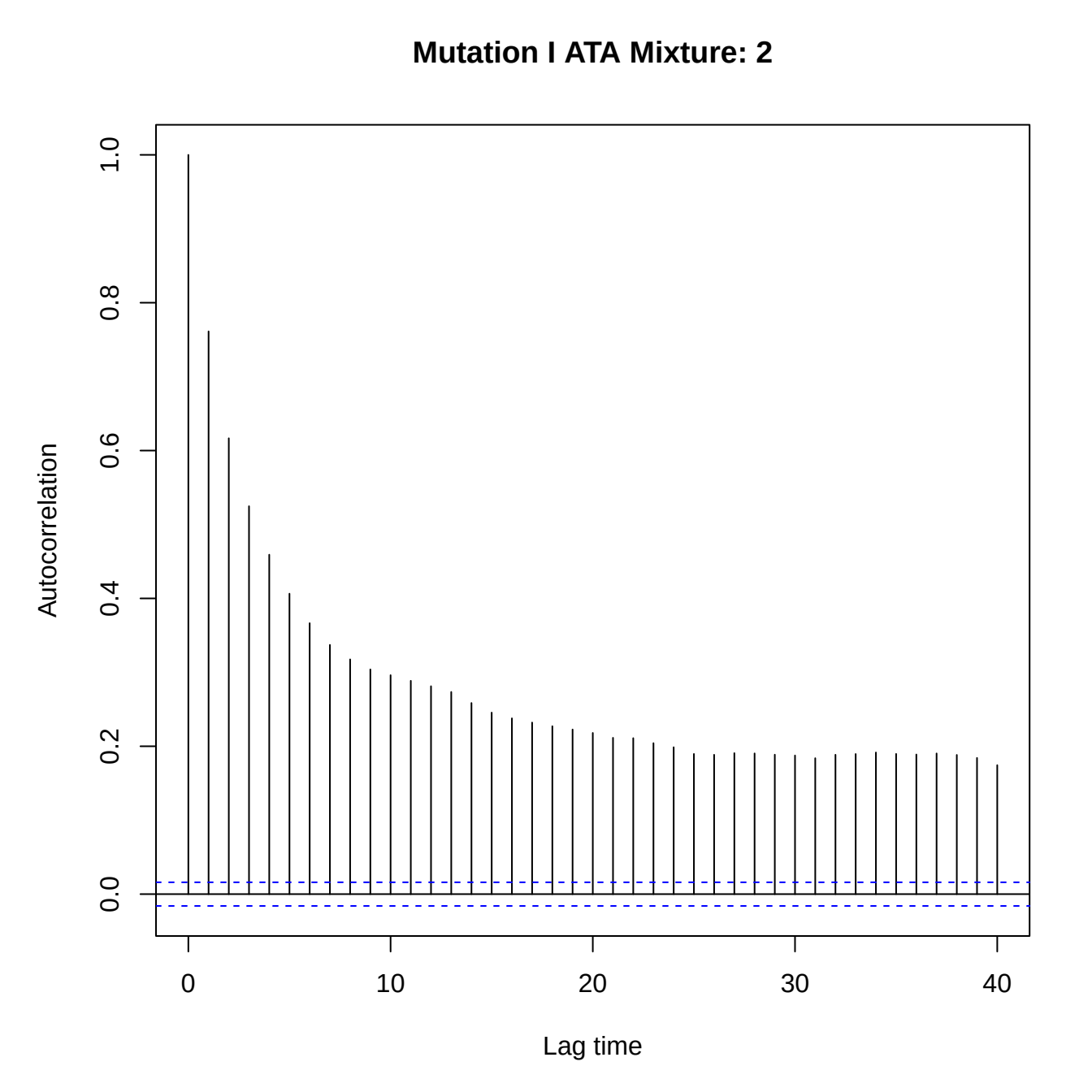
Lag time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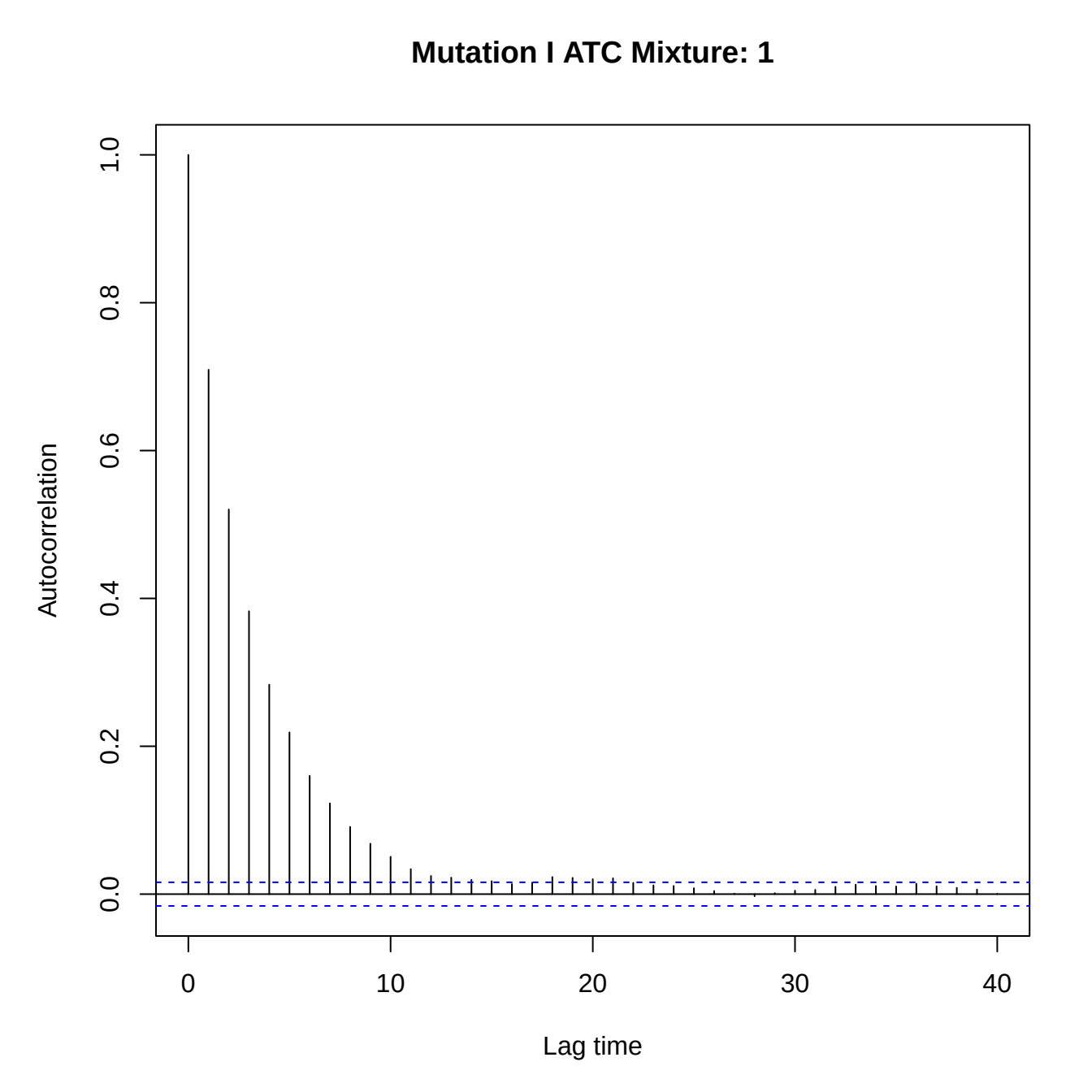
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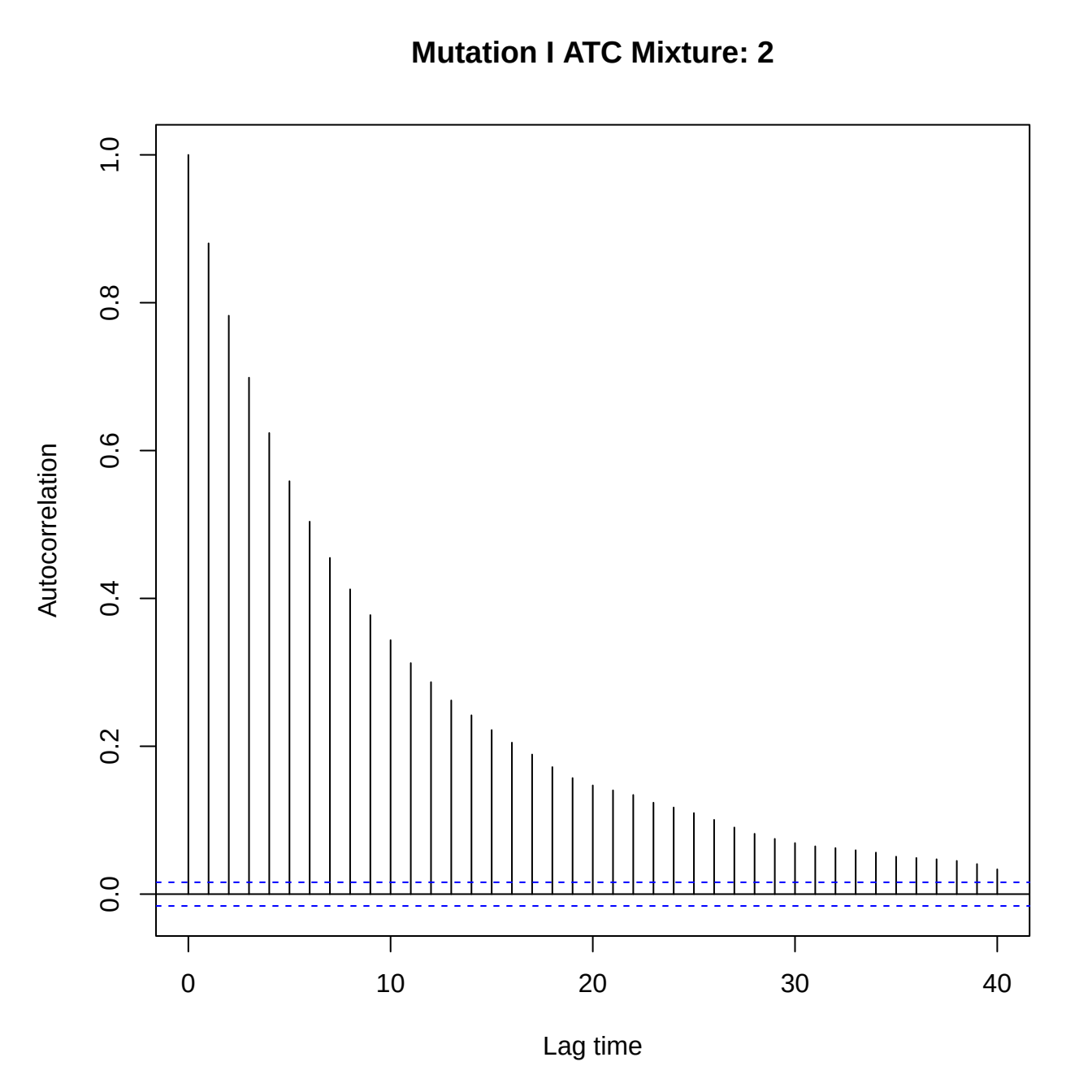
Lag time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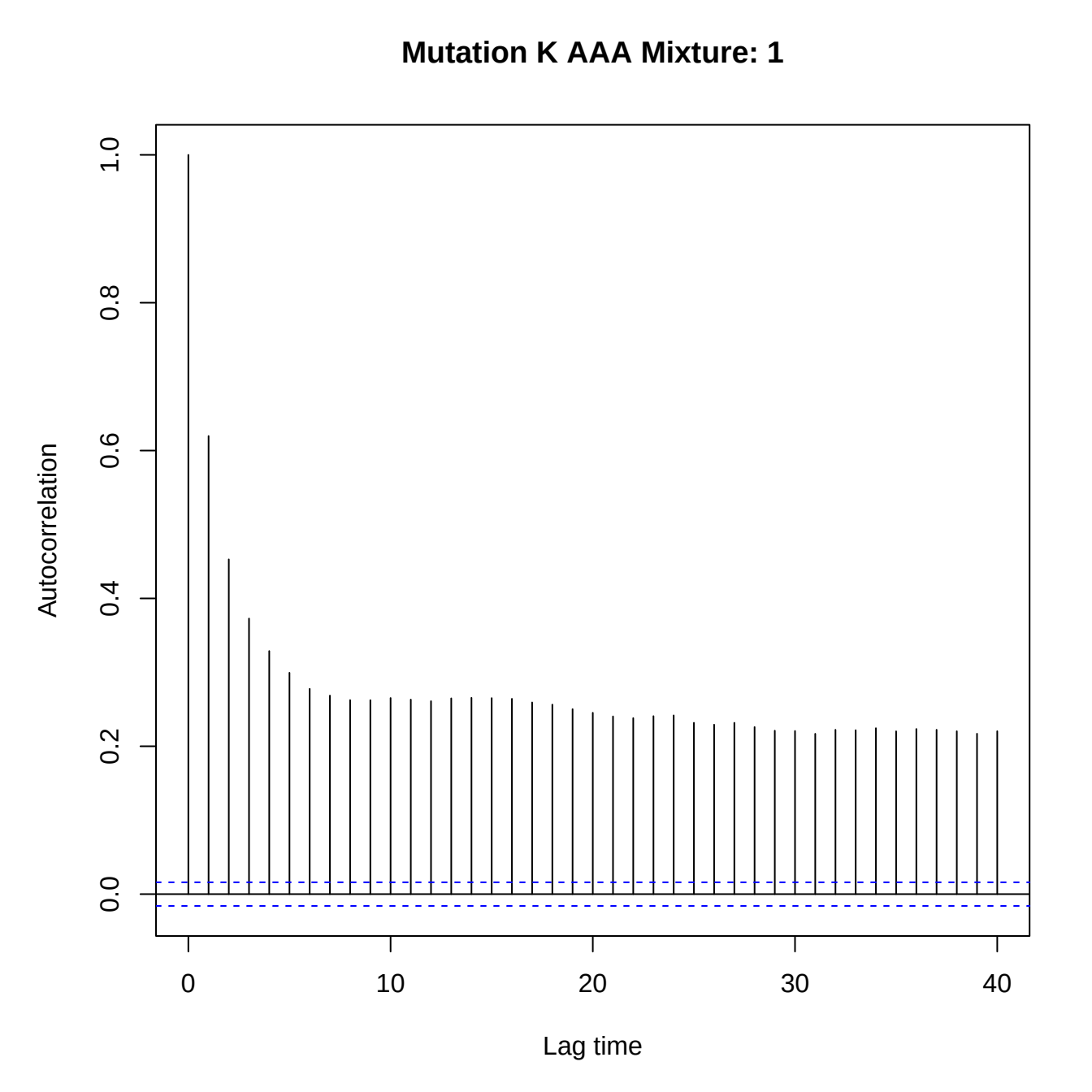
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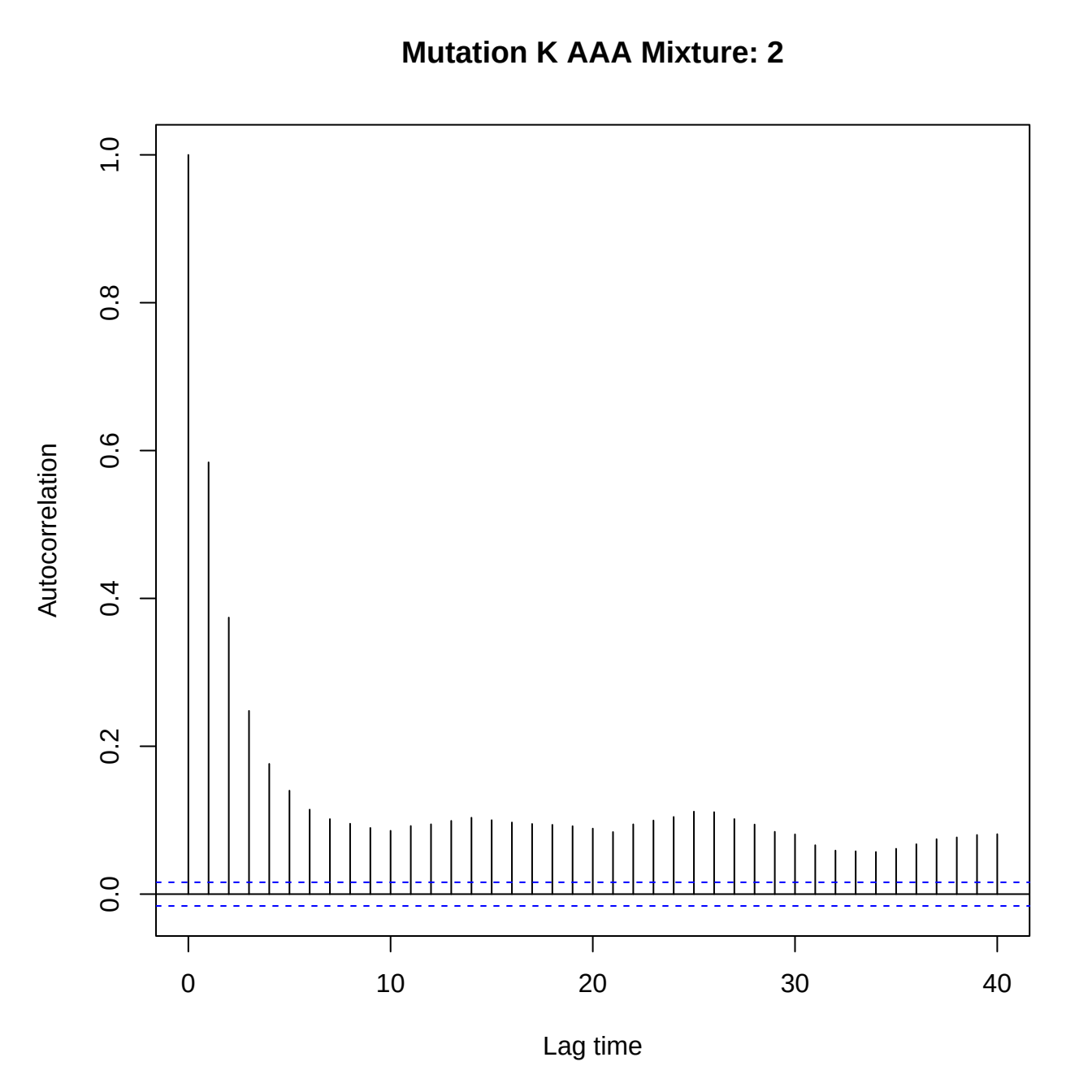
Lag time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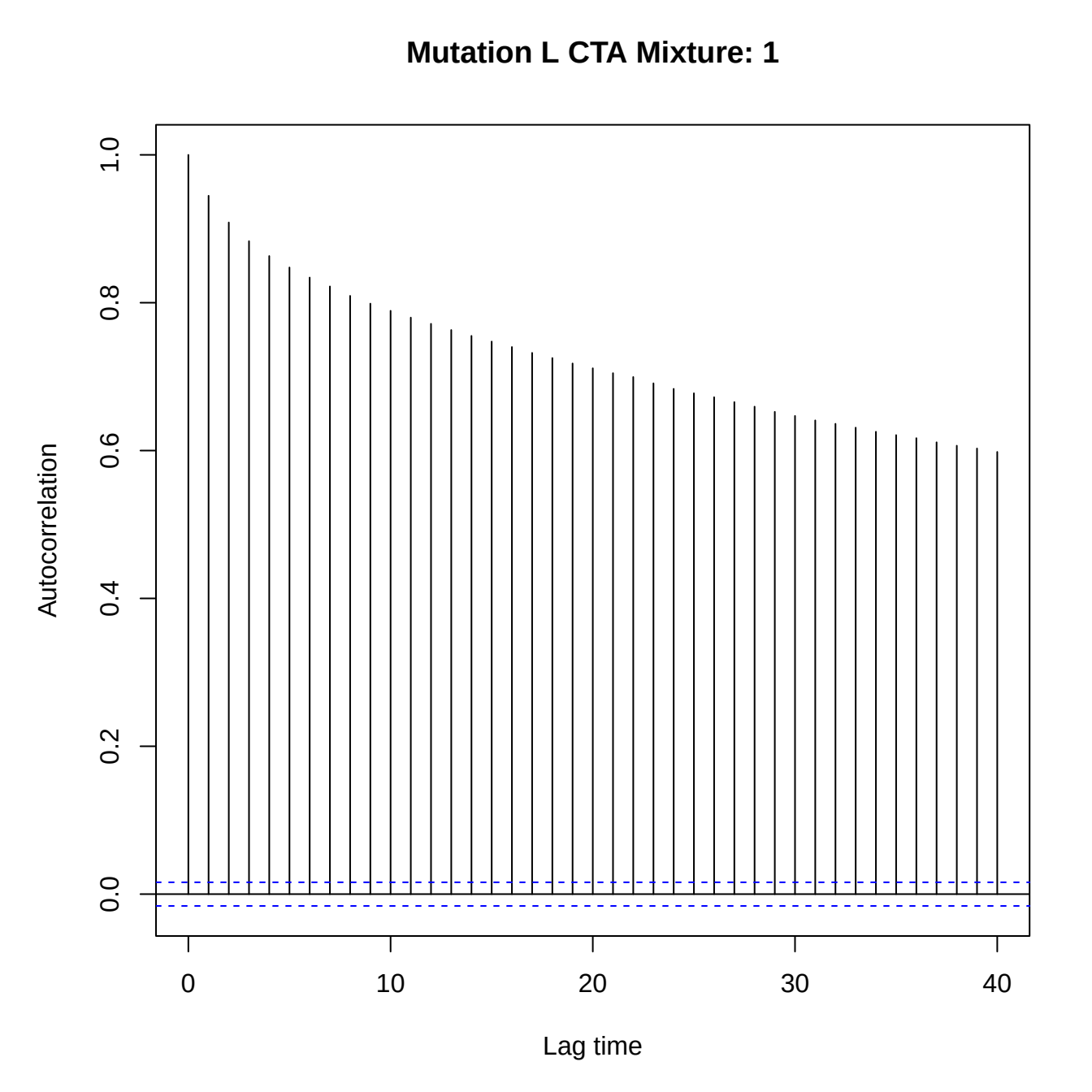
Mutation L CTA Mixture: 1
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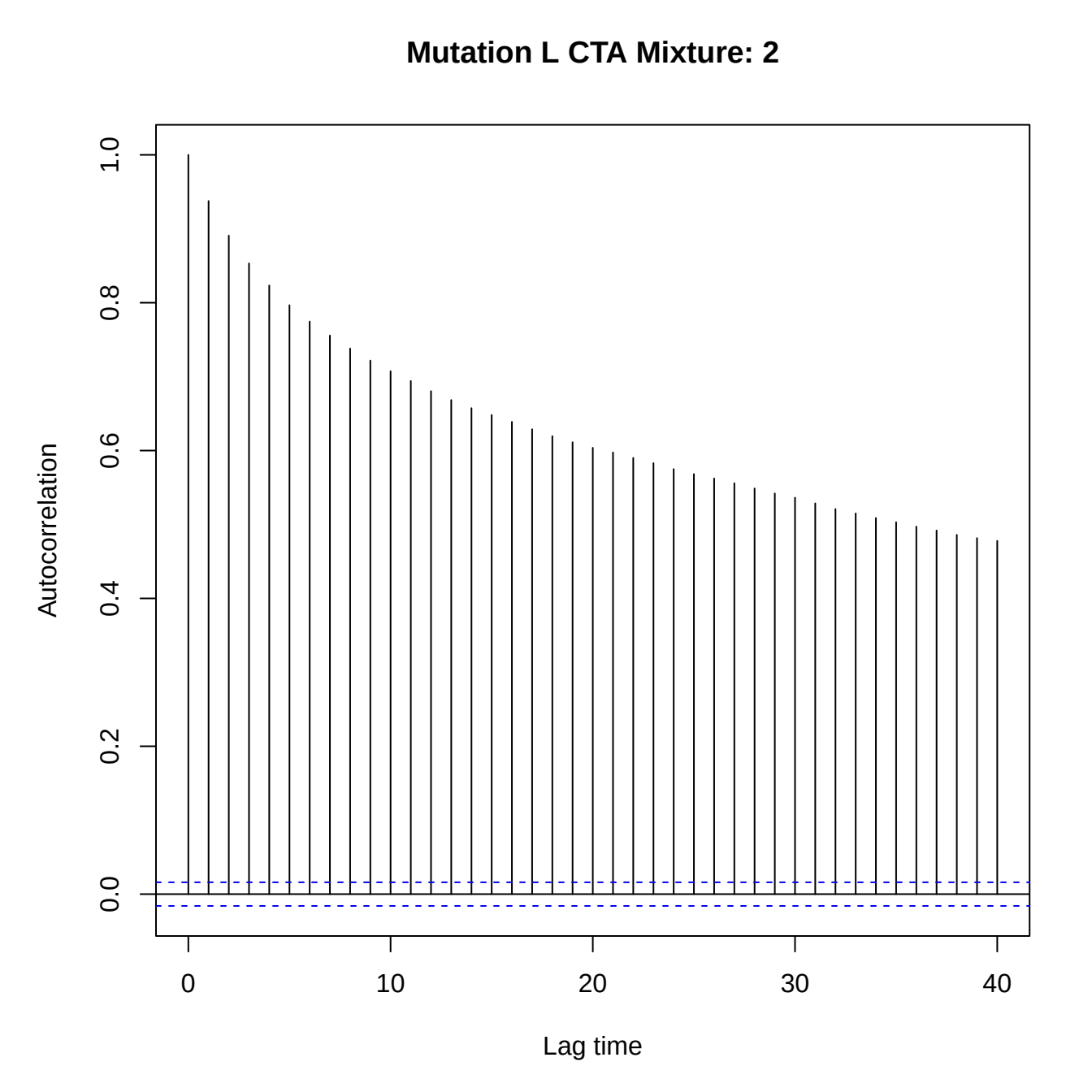
Lag time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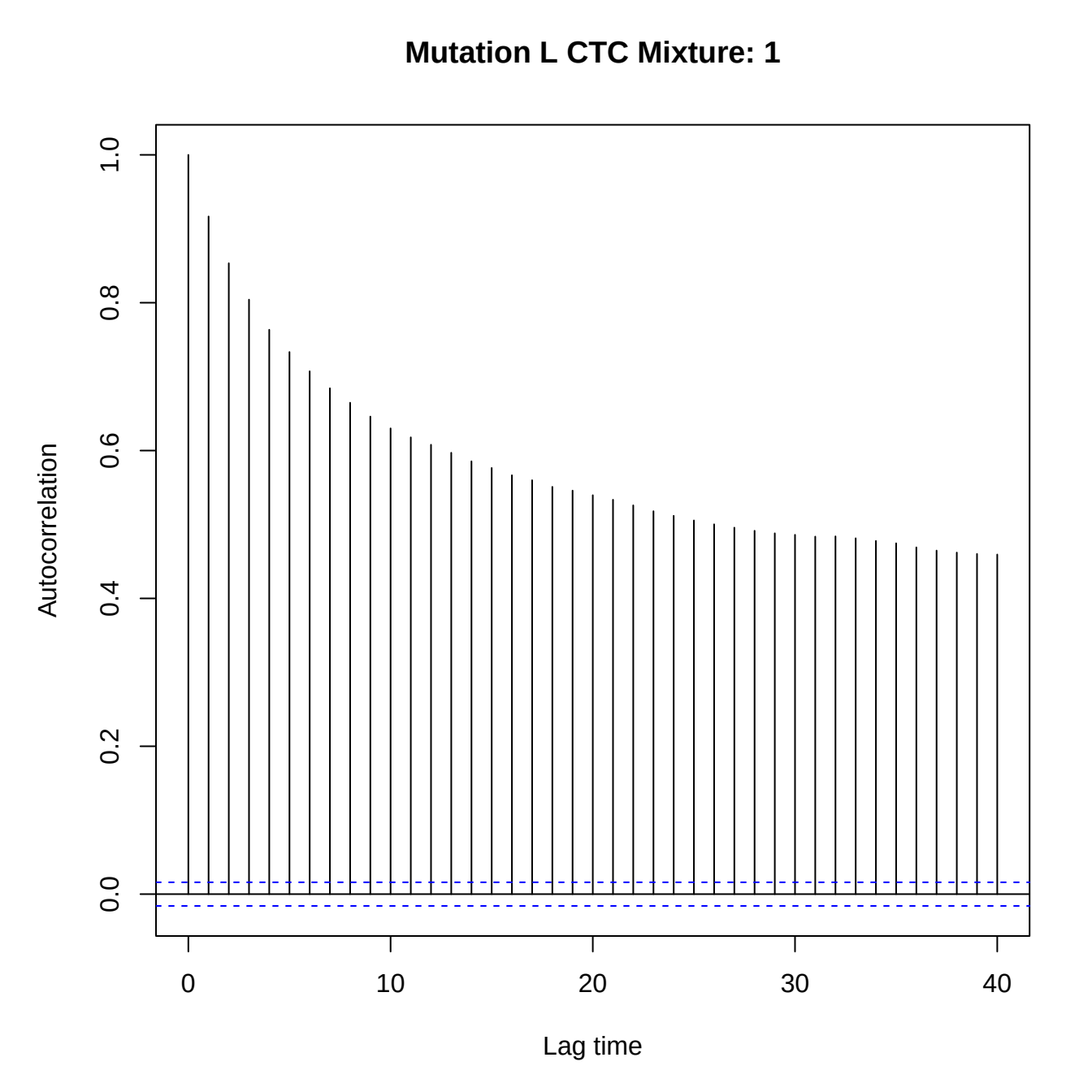
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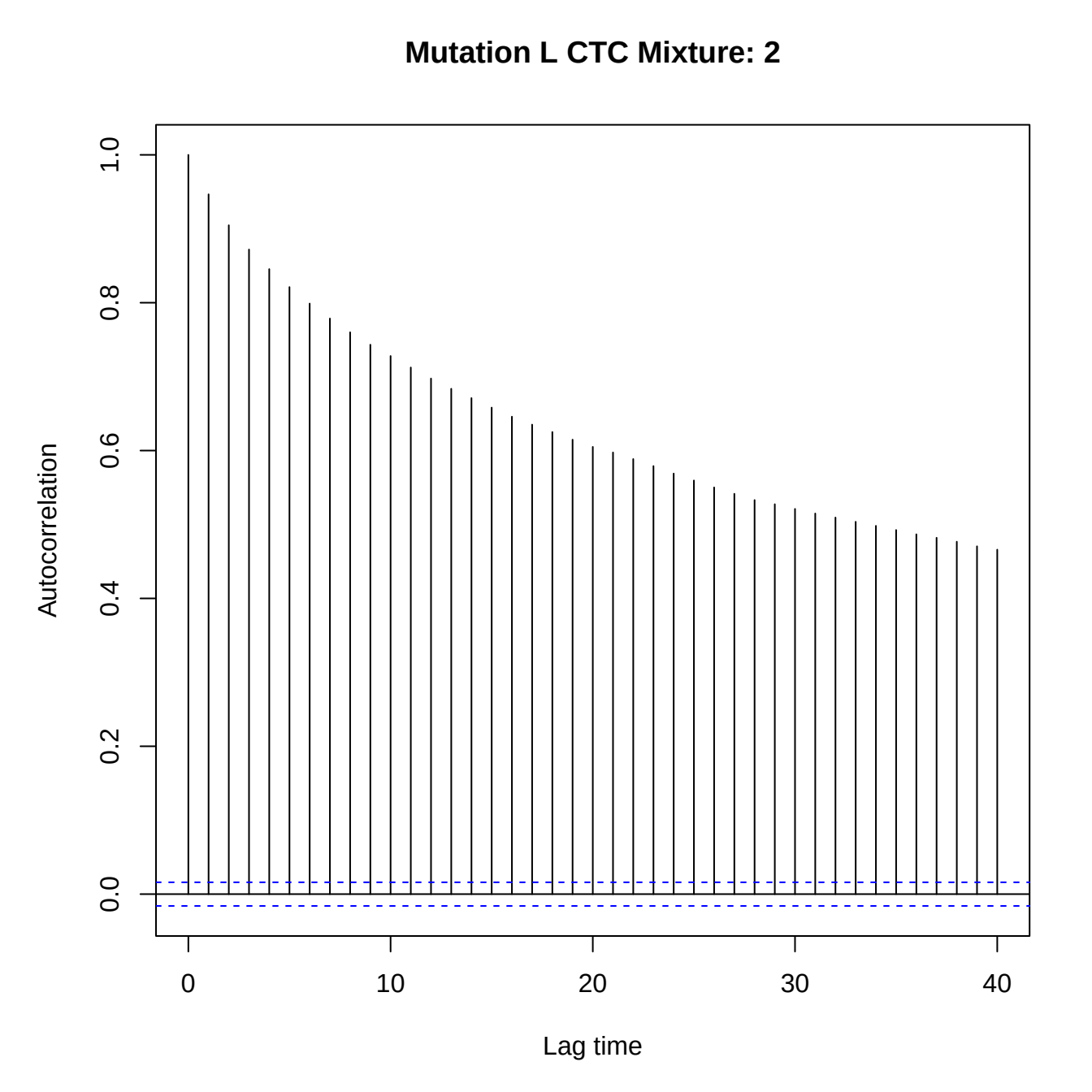
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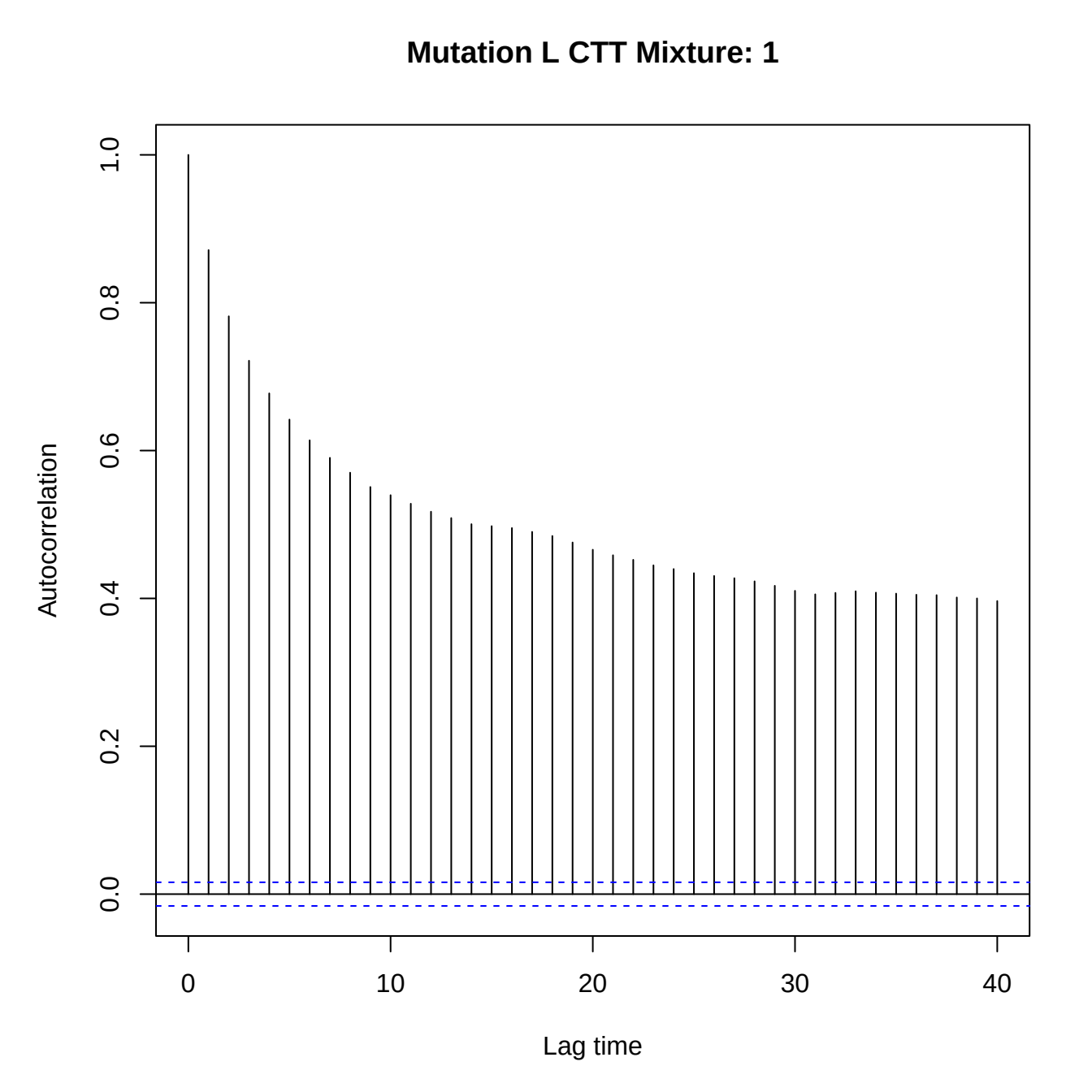
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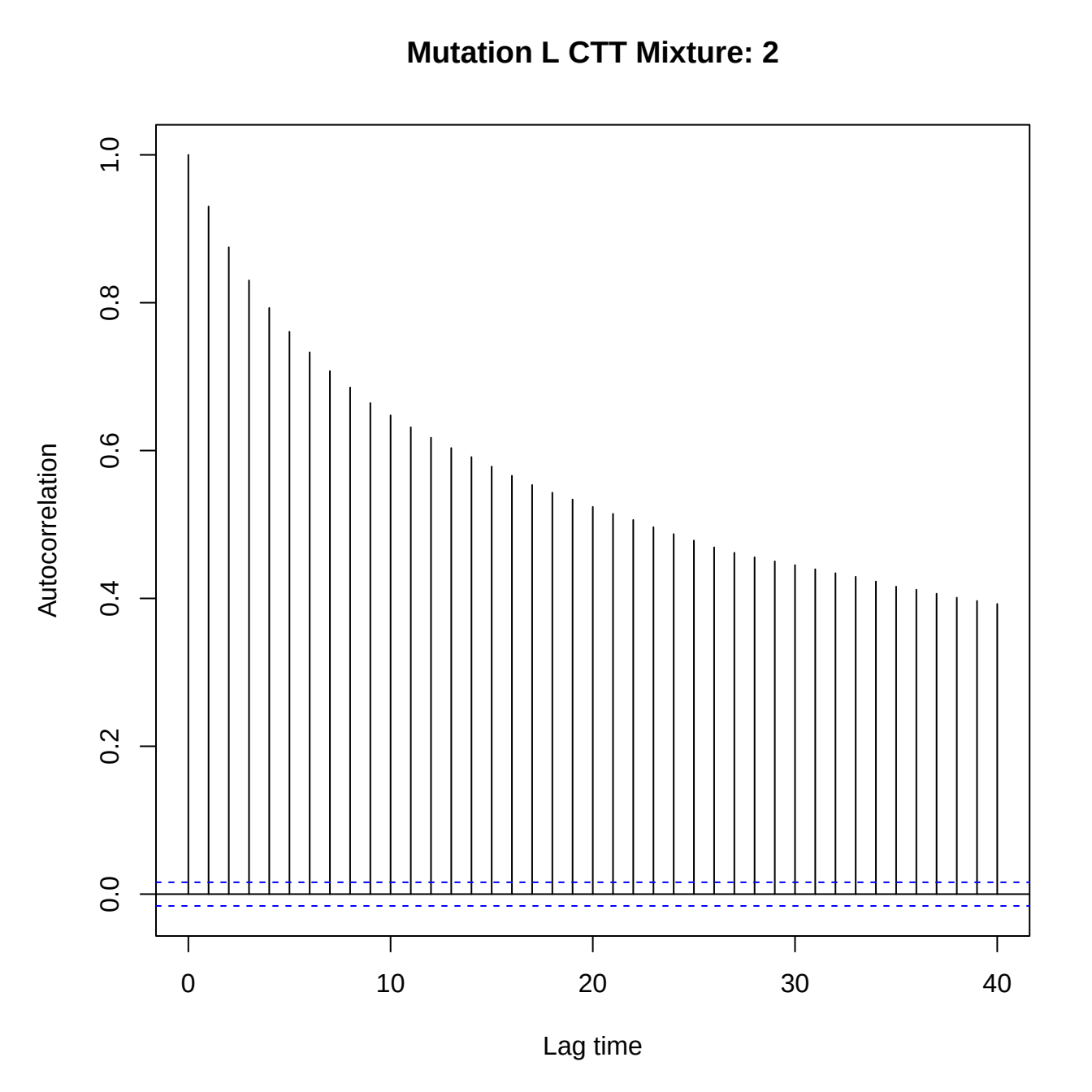
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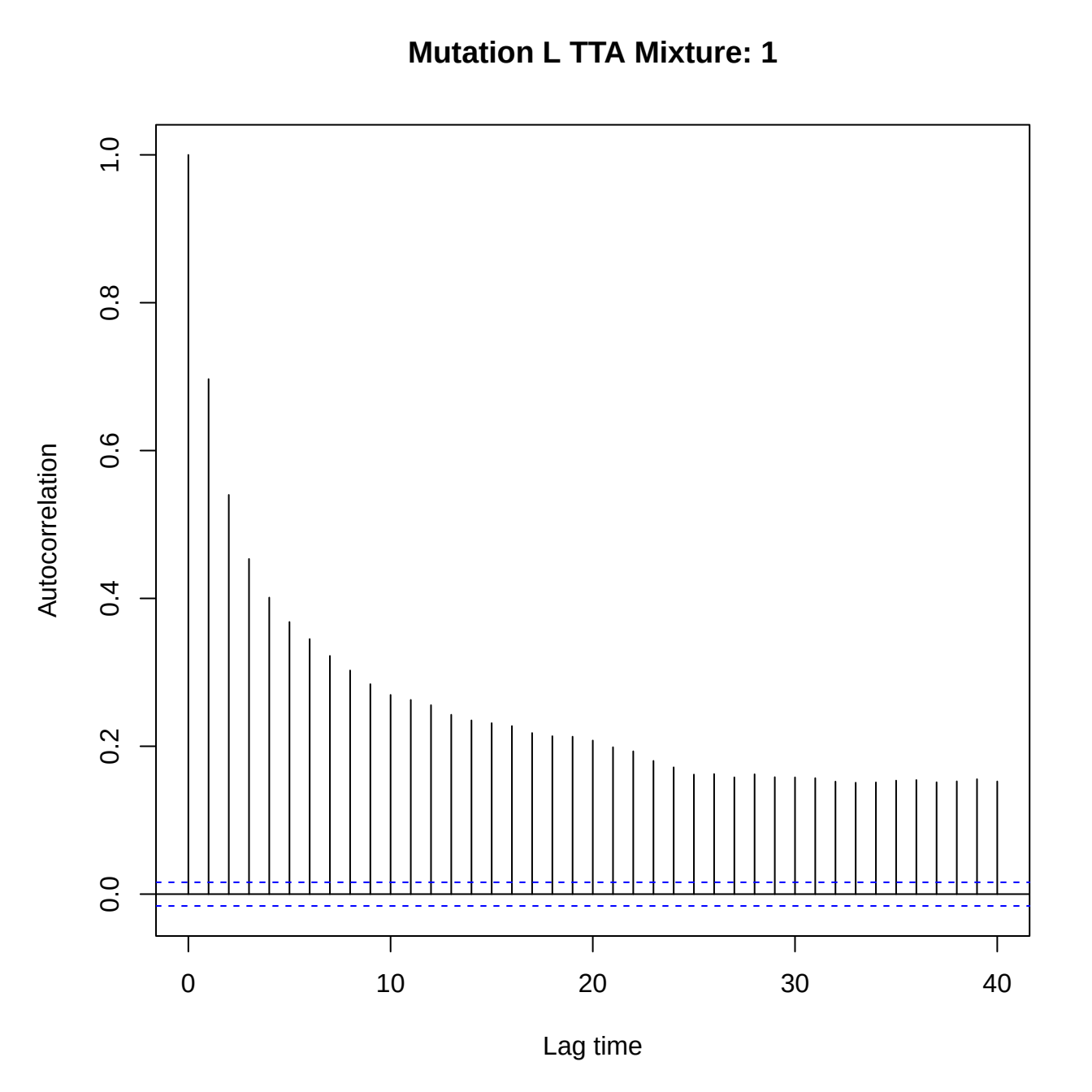
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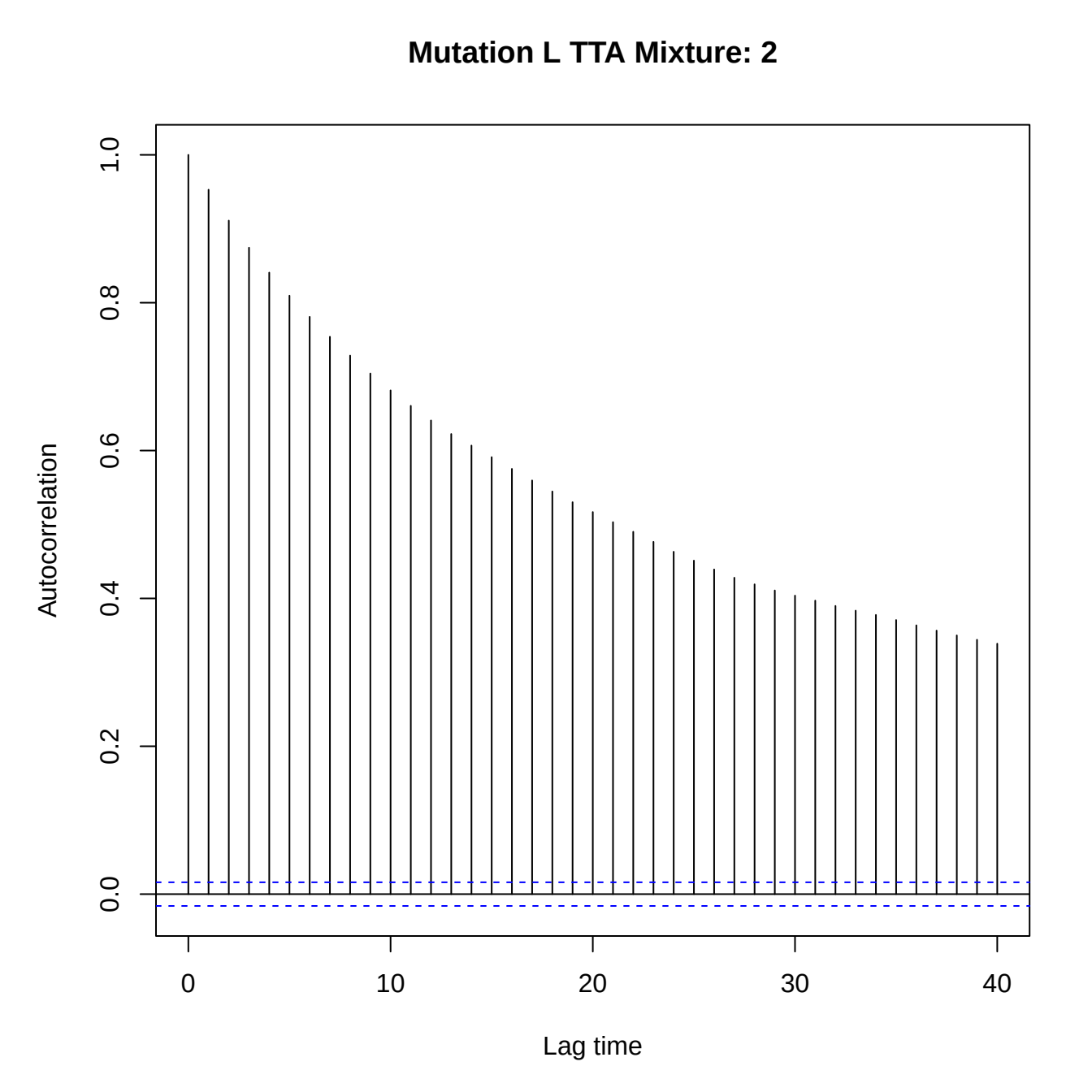
Lag time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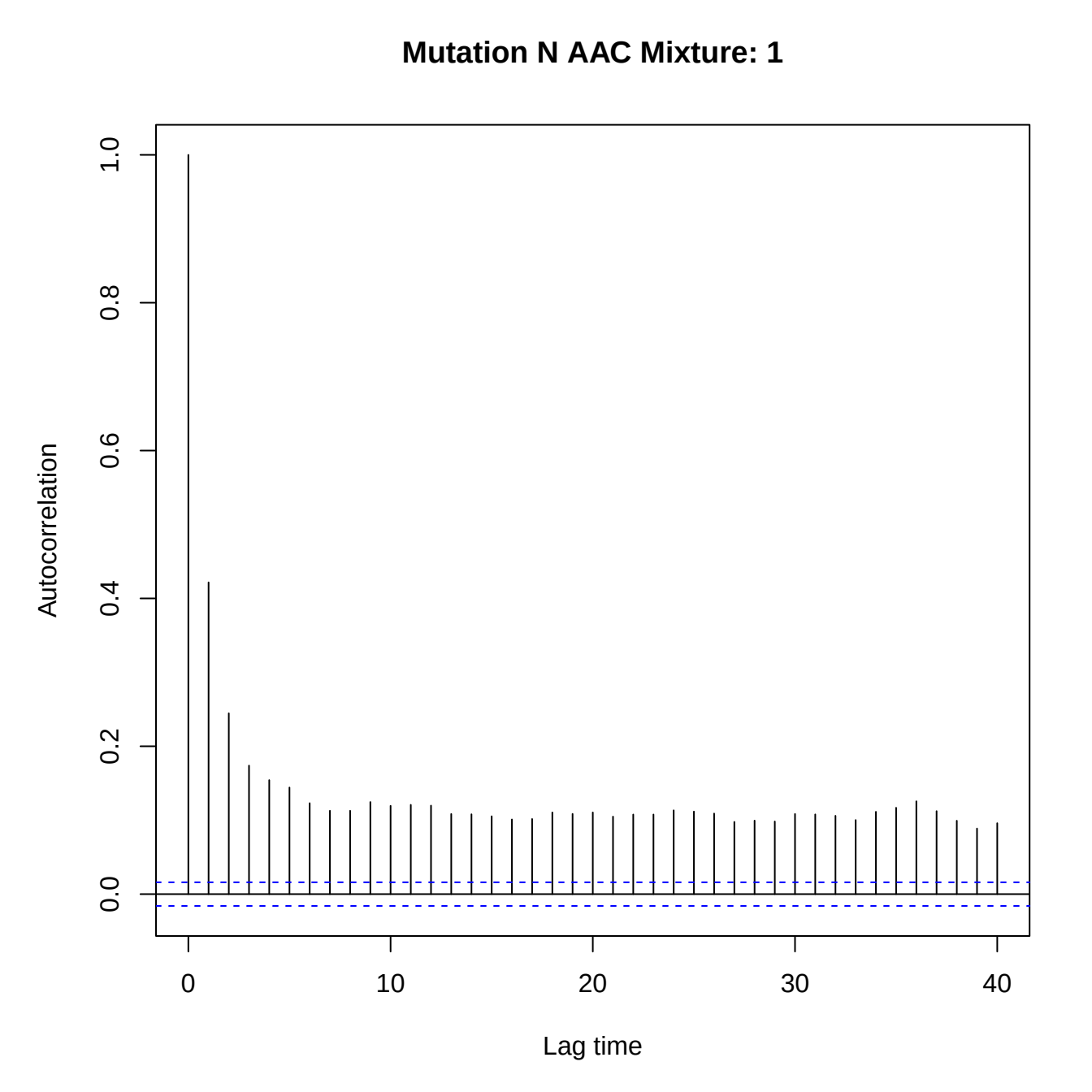
Lag time


Mutation N AAC Mixture: 1
Autocorrelation
0.0
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0.8
1.0
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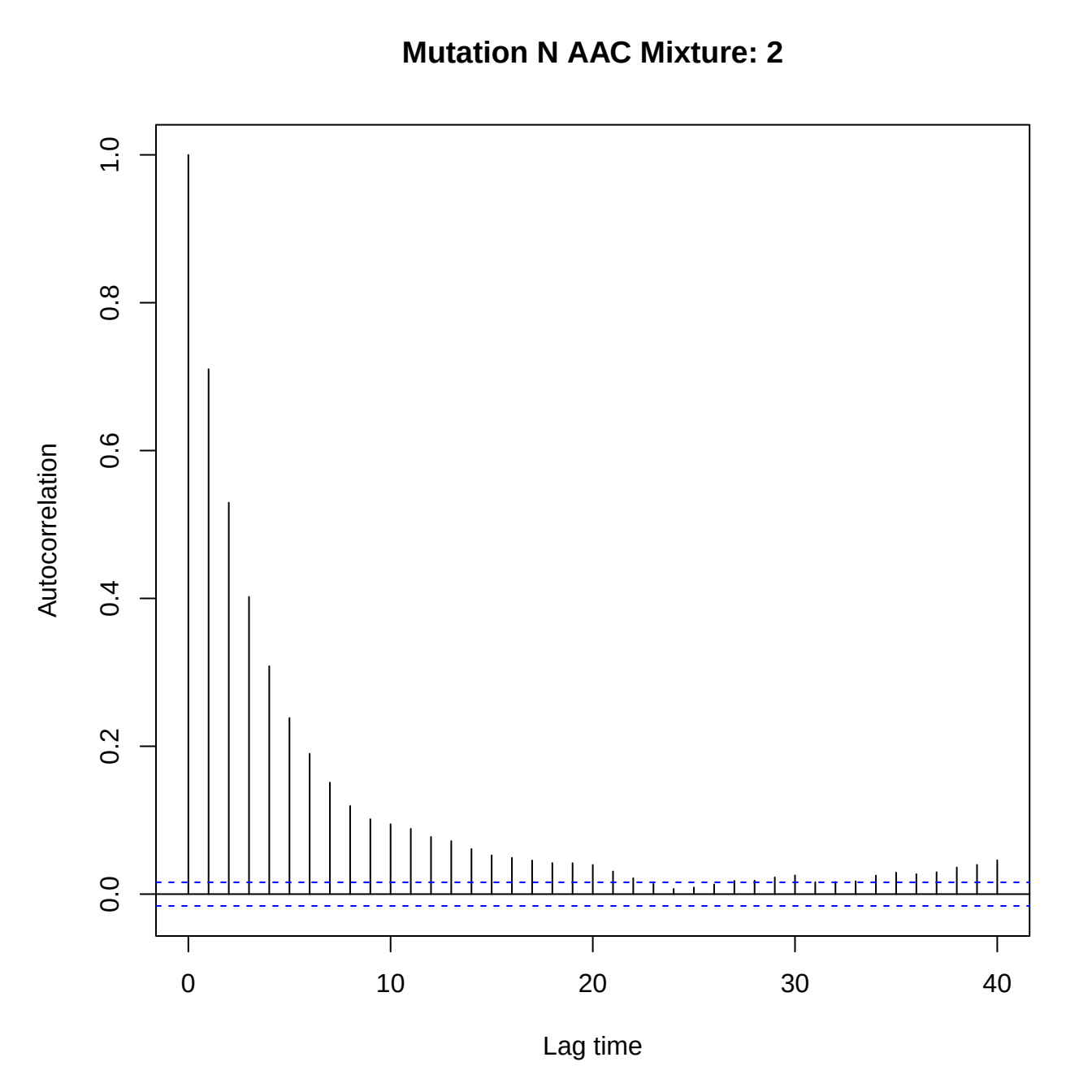
Lag time


Mutation N AAC Mixture: 2
Autocorrelation
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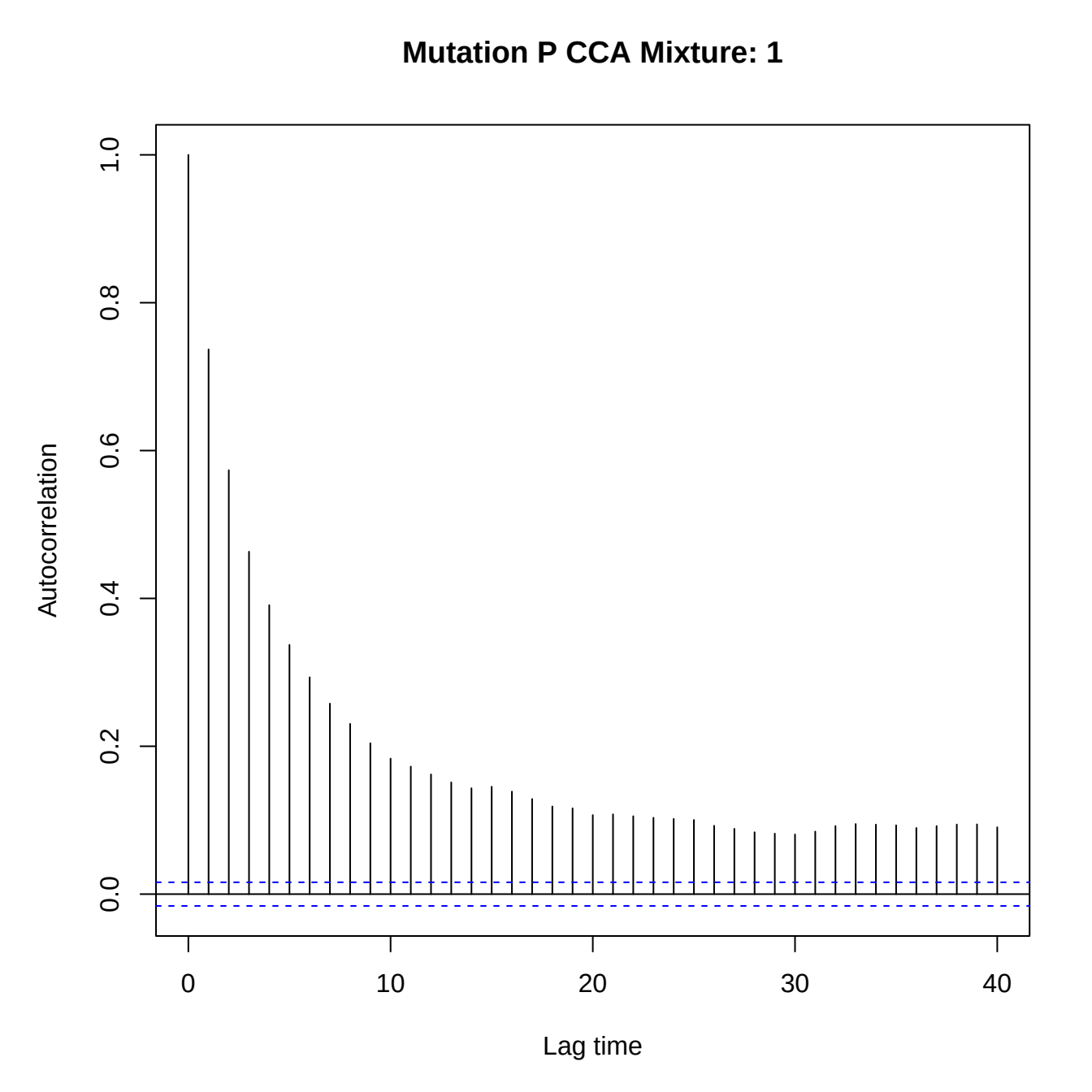
Lag time


Mutation P CCA Mixture: 1
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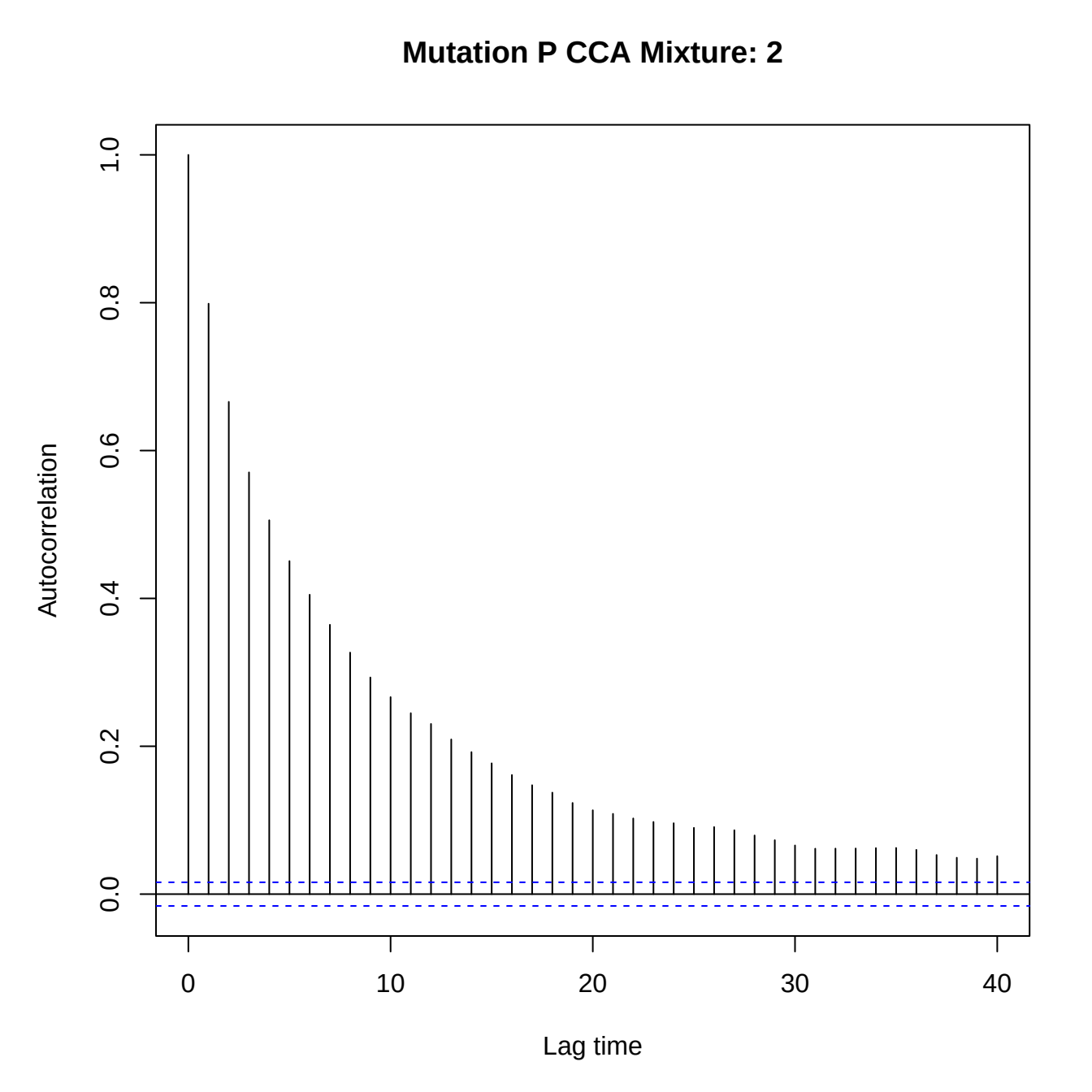
Lag time


Mutation P CCA Mixture: 2
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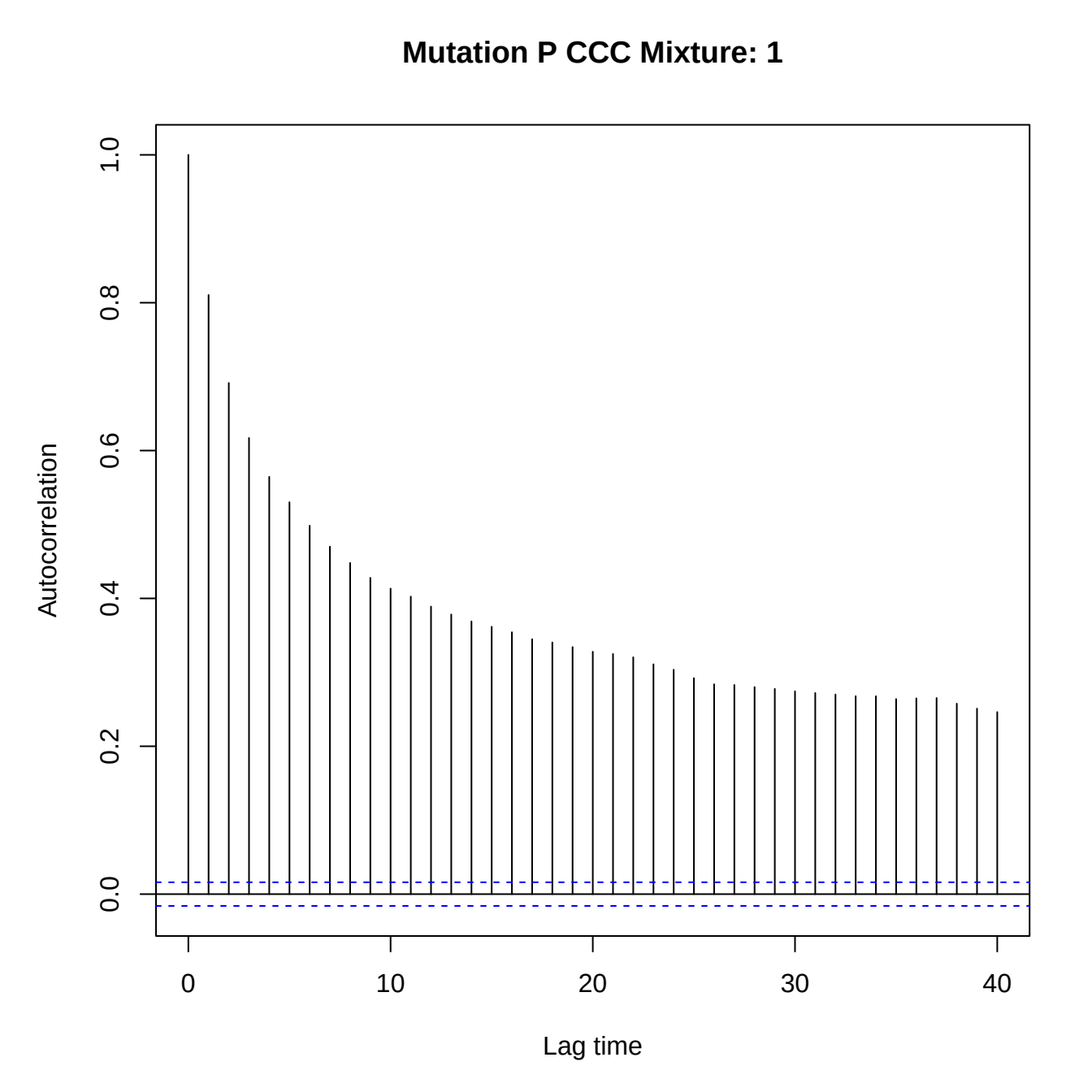
Lag time


Mutation P CCC Mixture: 1
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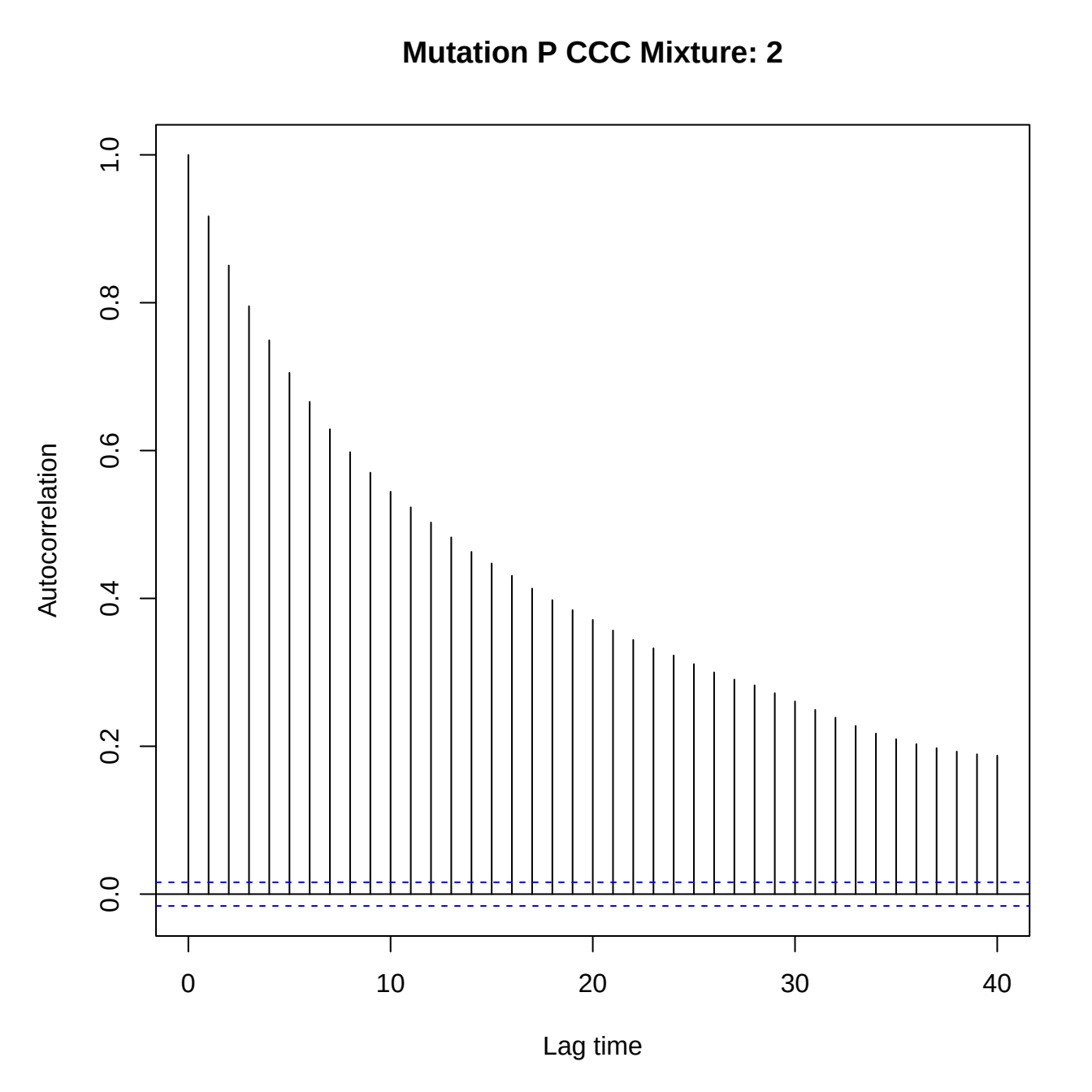
Lag time


Mutation P CCC Mixture: 2
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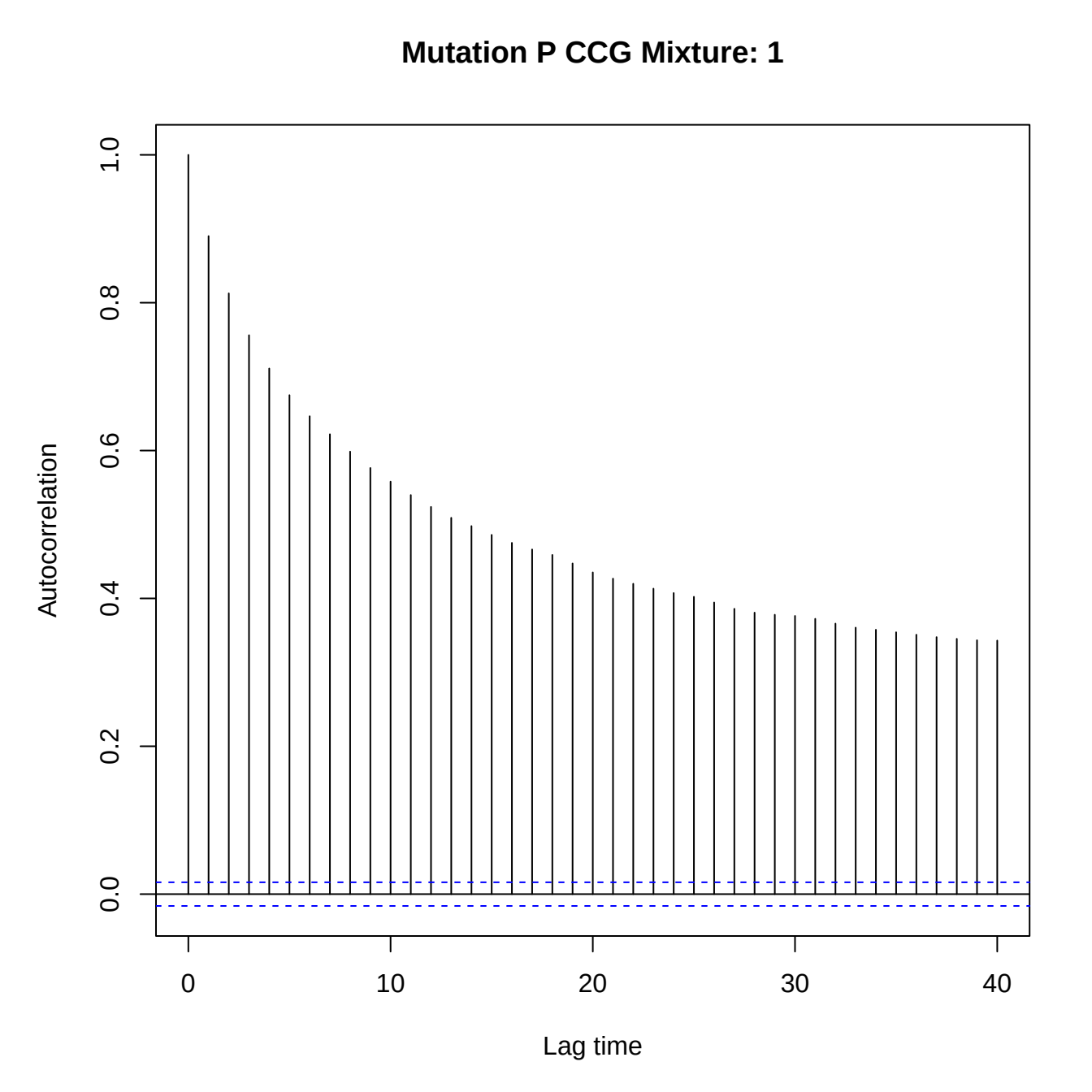
Lag time


Mutation P CCG Mixture: 1
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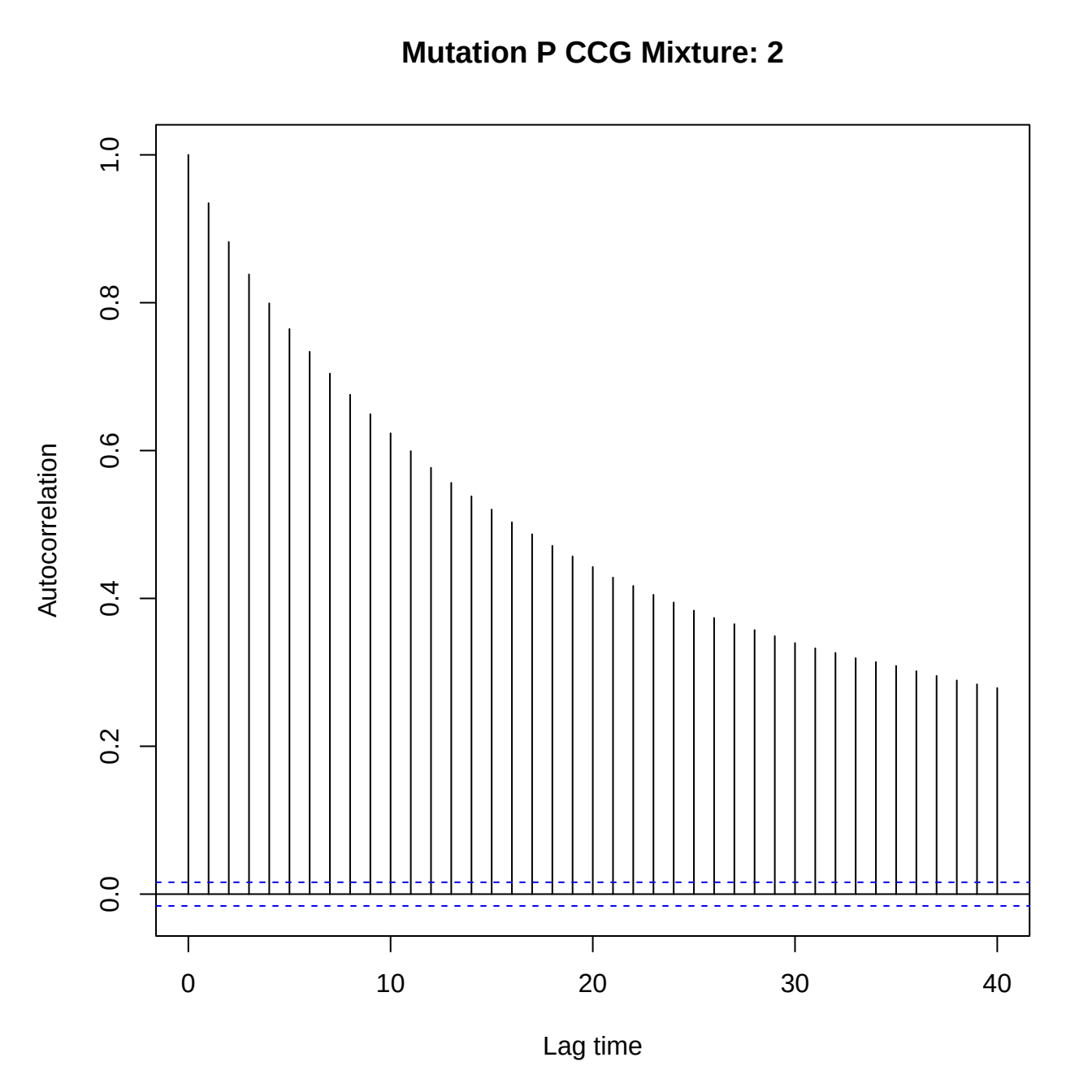
Lag time


Mutation P CCG Mixture: 2
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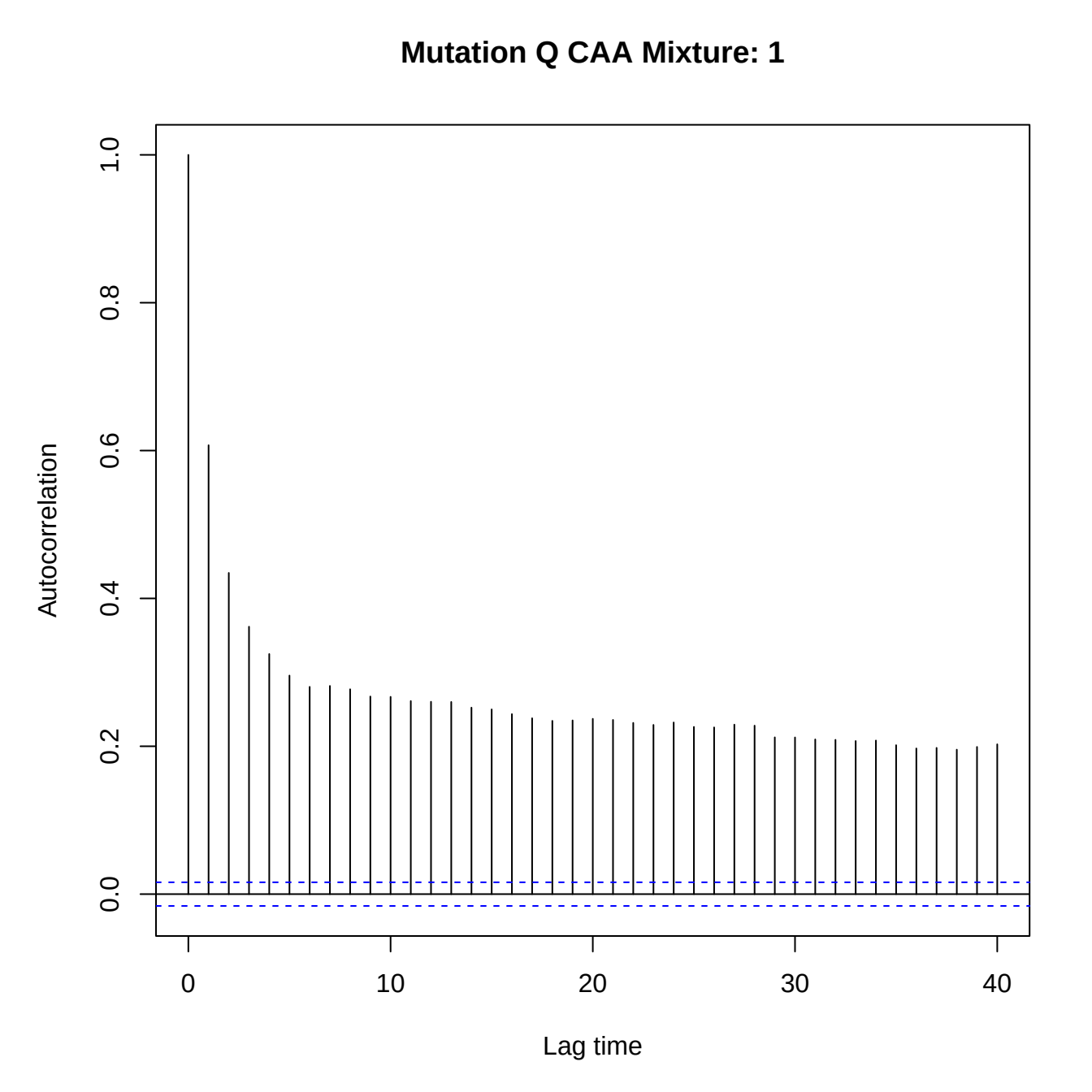
Lag time


Mutation Q CAA Mixture: 1
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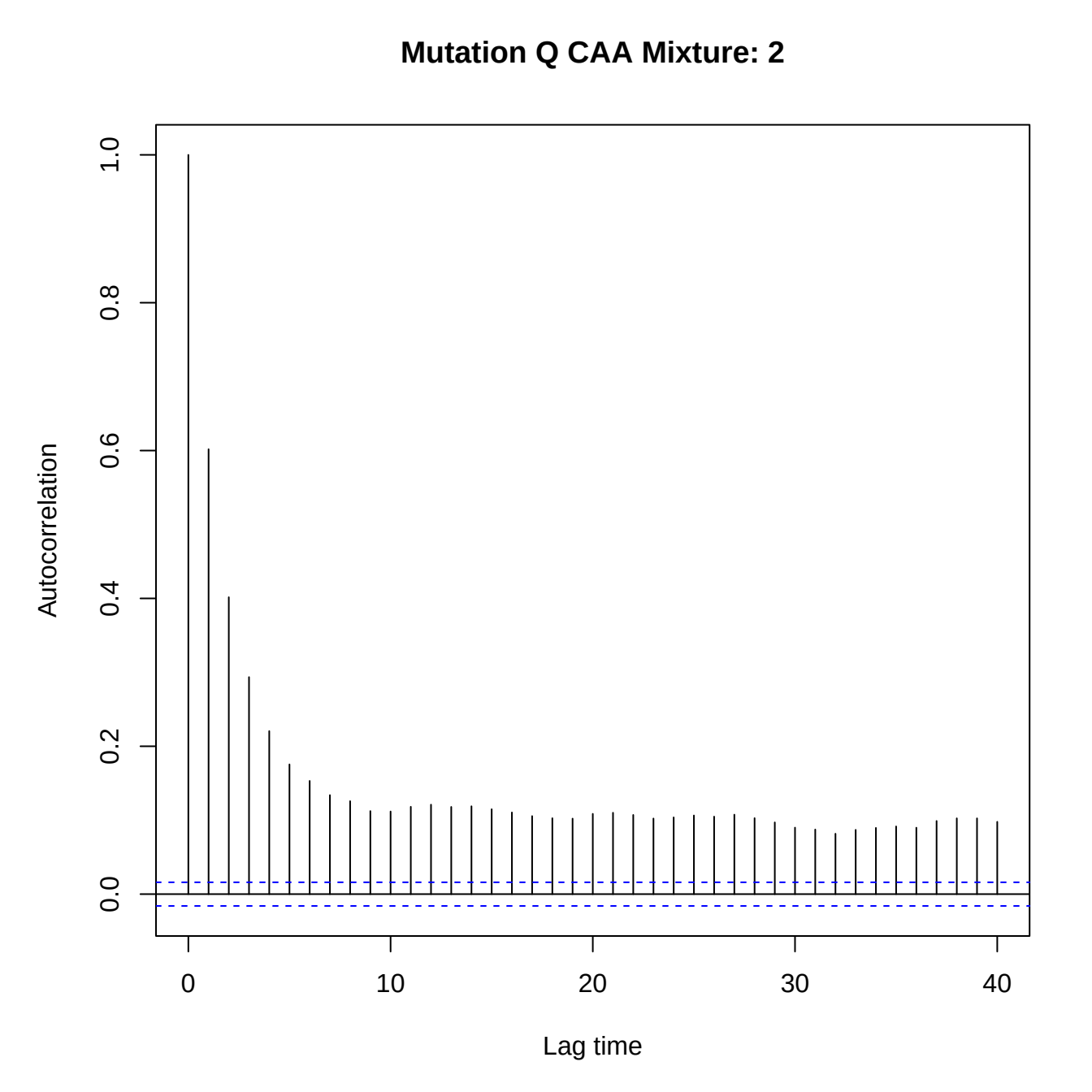
Lag time


Mutation Q CAA Mixture: 2
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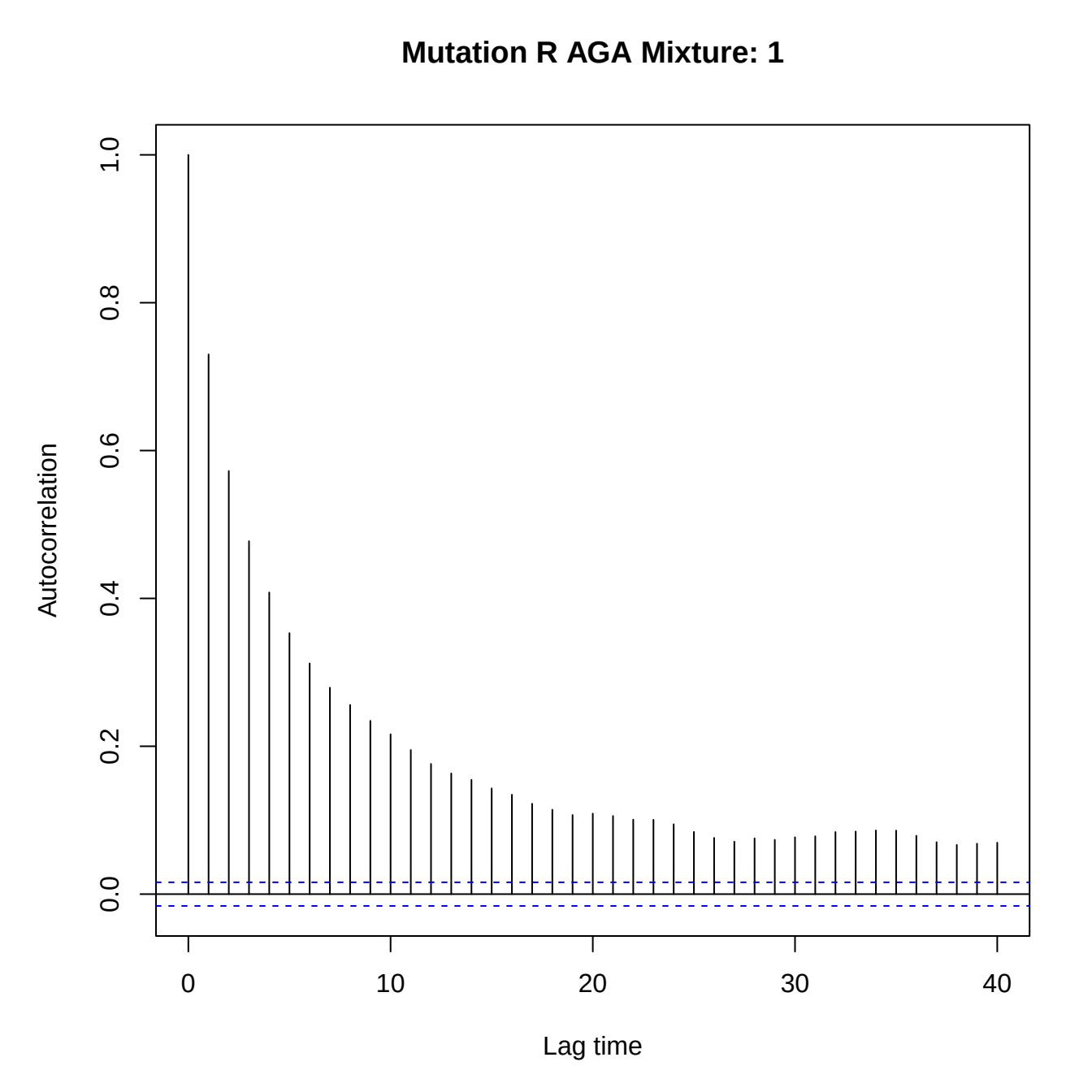
Lag time


Mutation R AGA Mixture: 1
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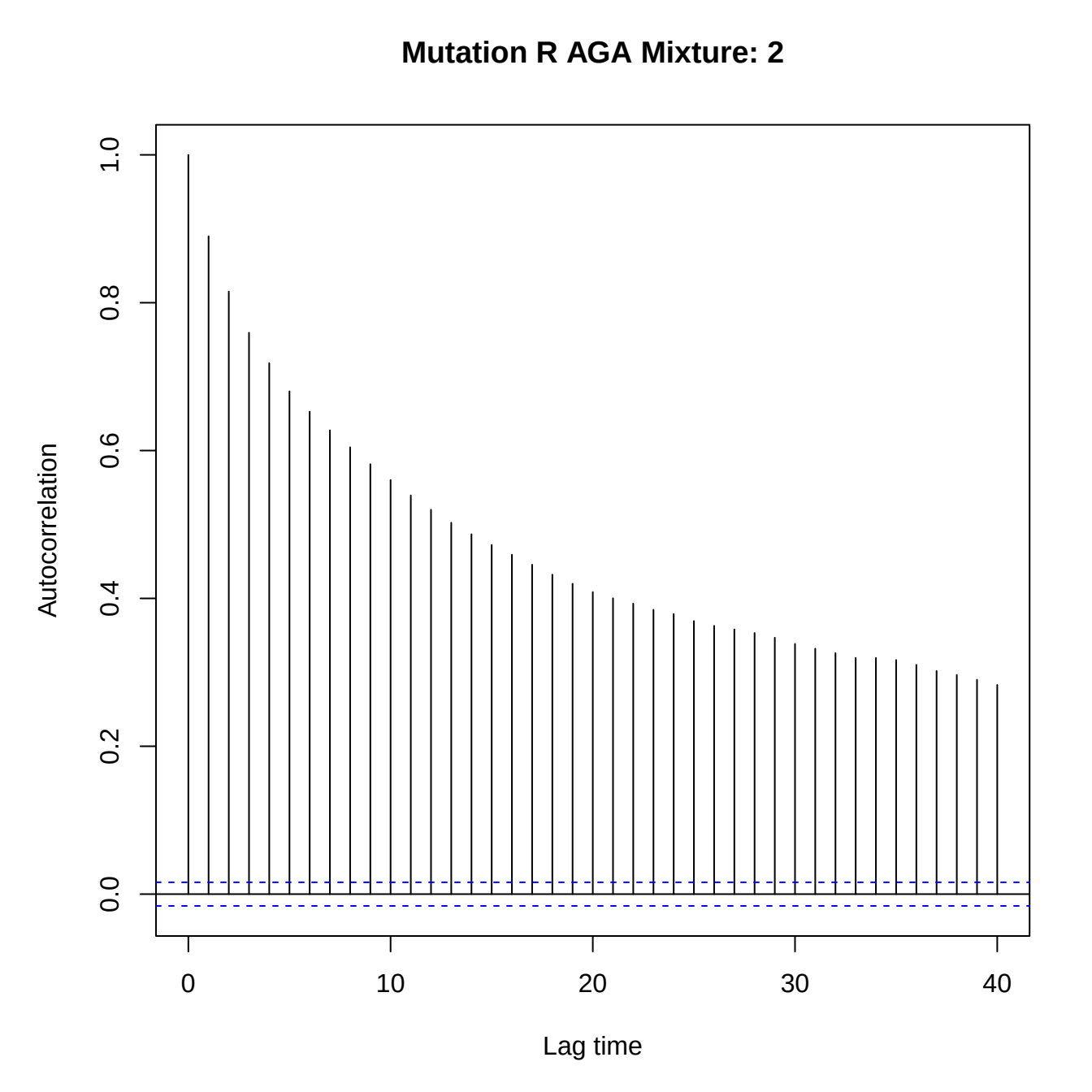
Lag time


Mutation R AGA Mixture: 2
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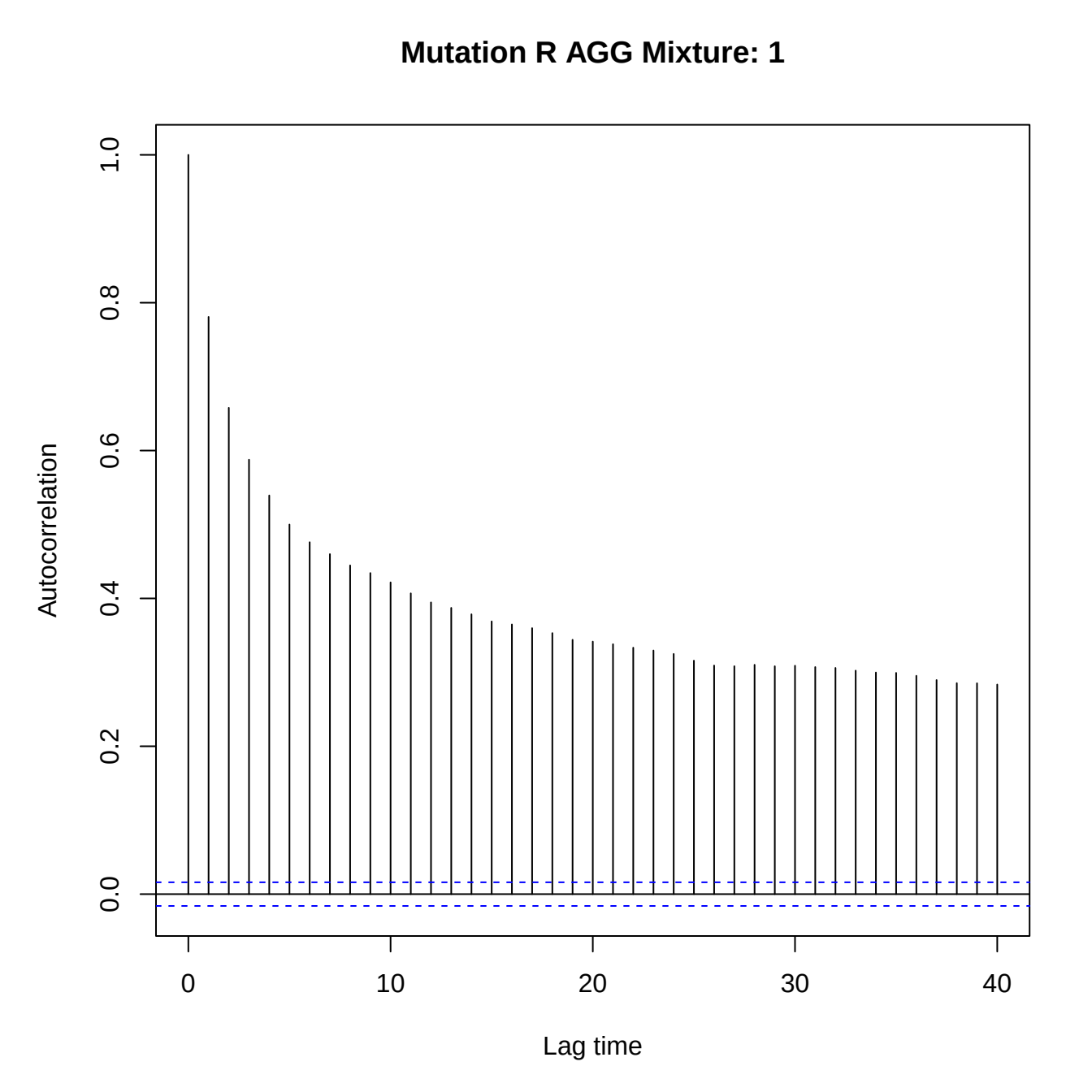
Lag time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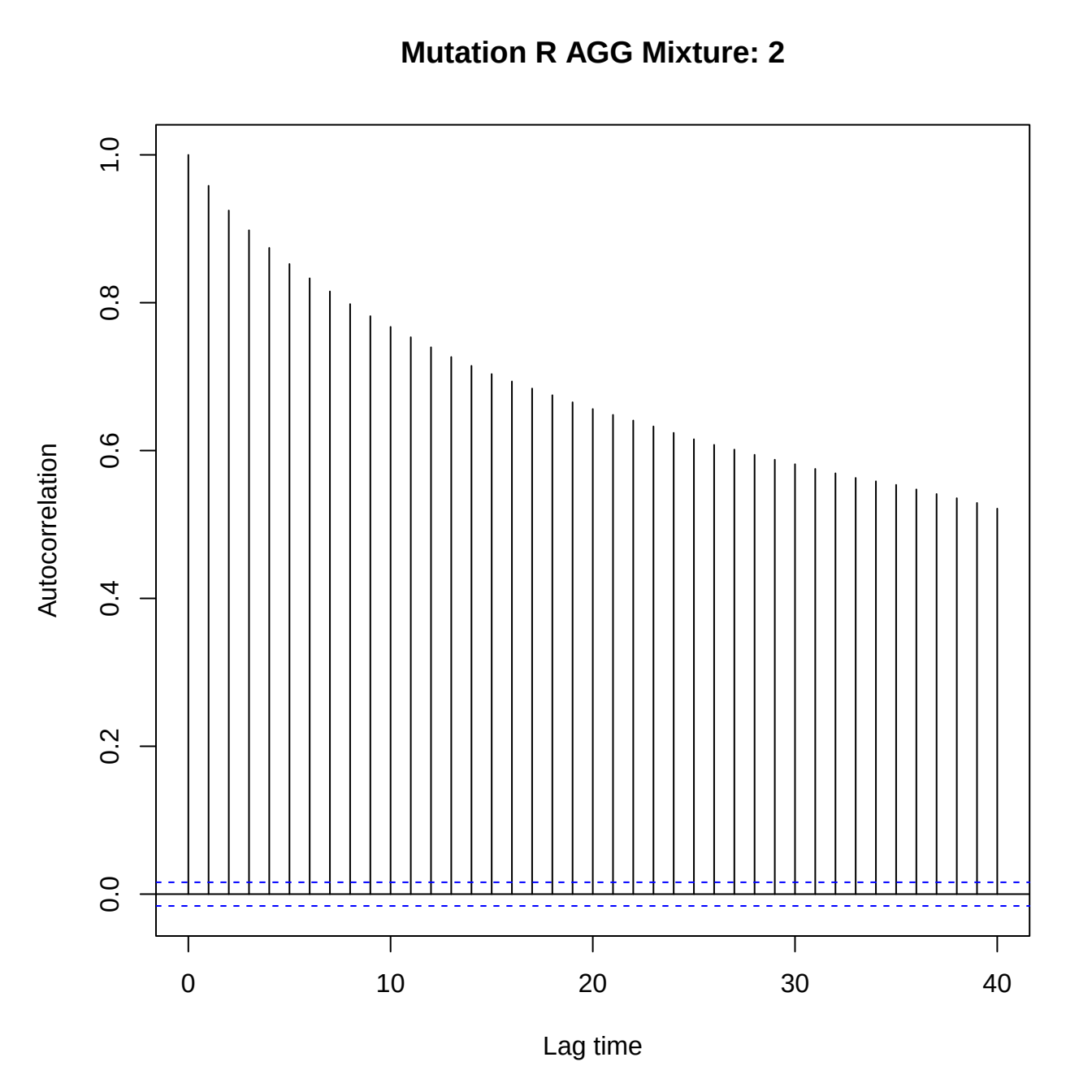
Lag time


Mutation R AGG Mixture: 2
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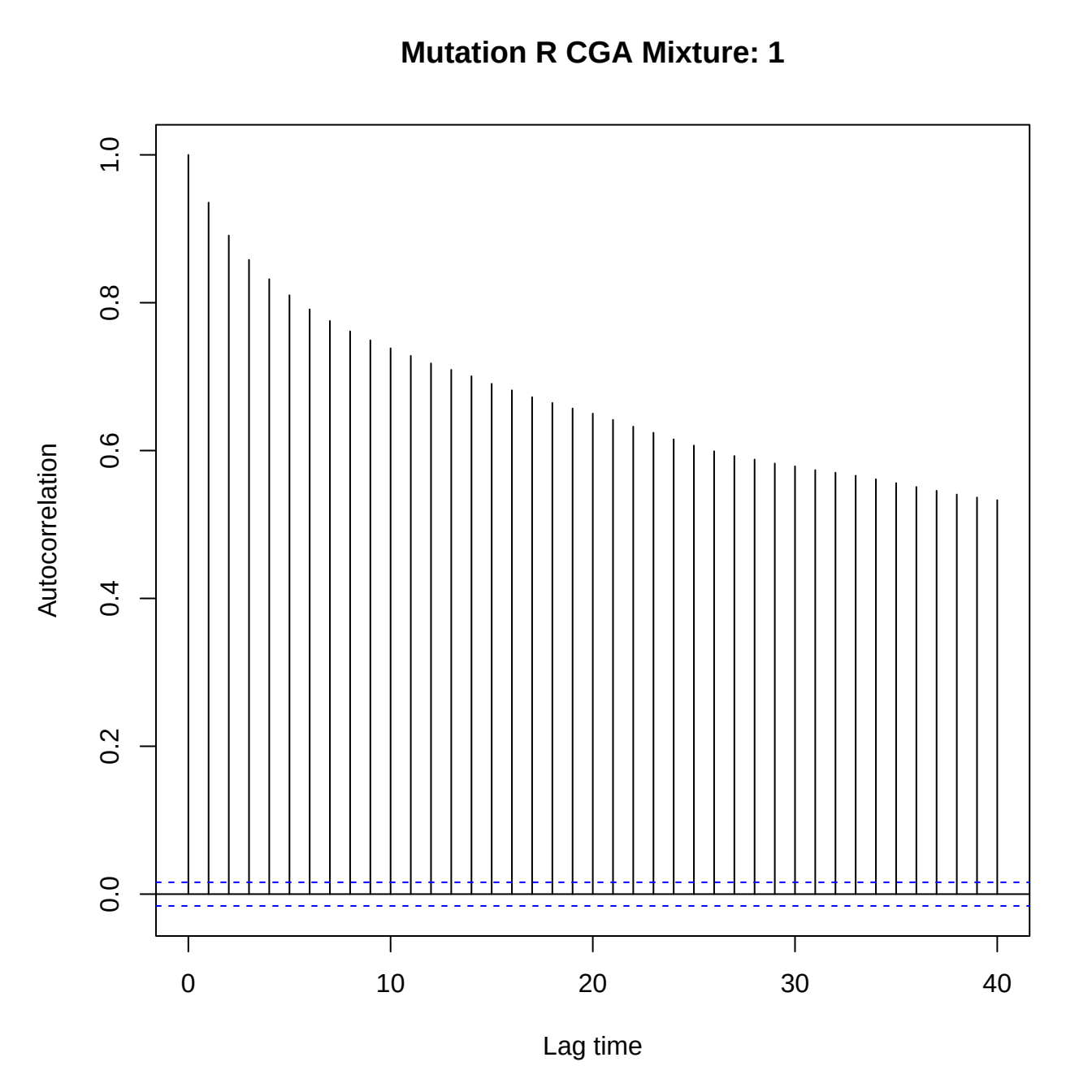
Lag time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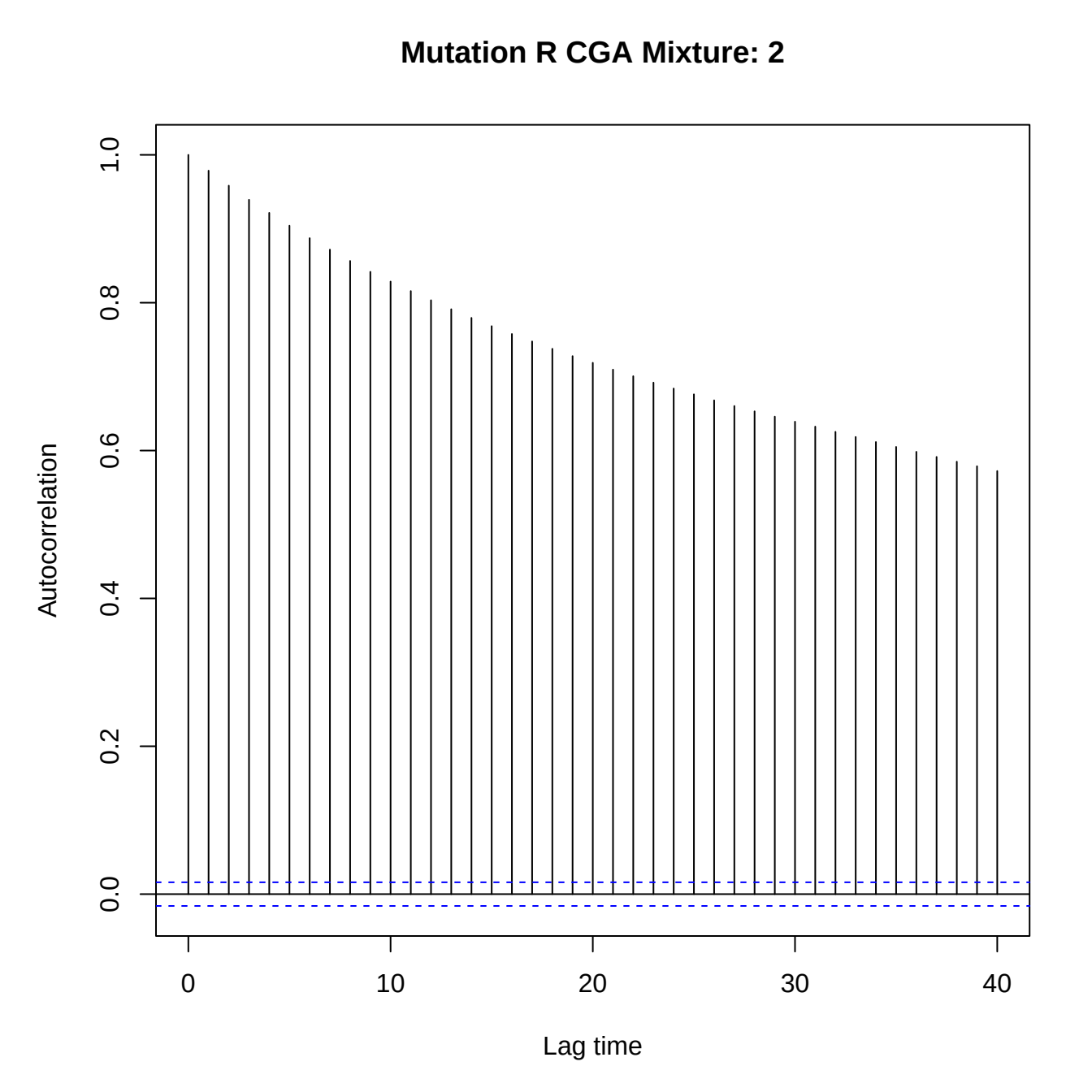
Lag time


Mutation R CGA Mixture: 2
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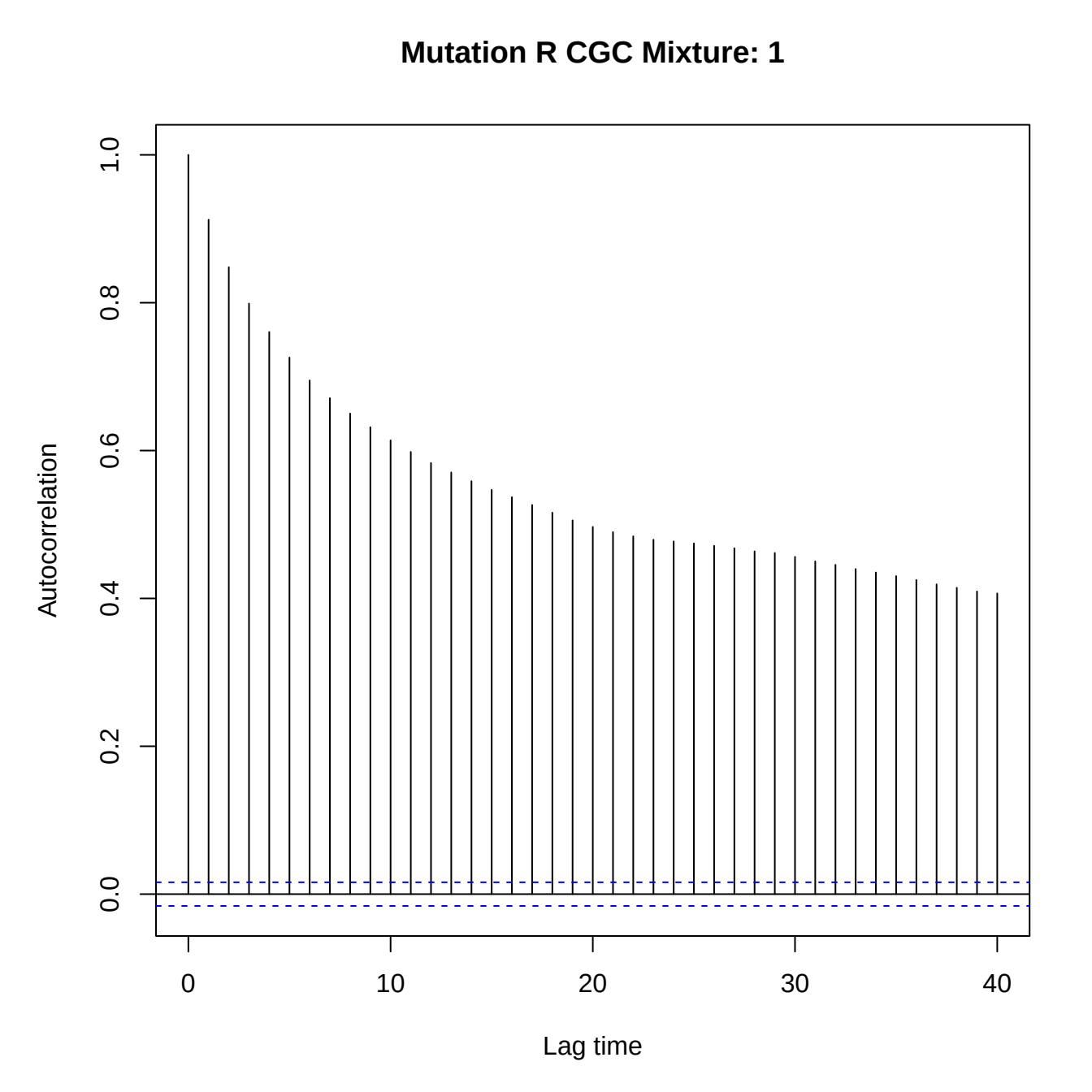
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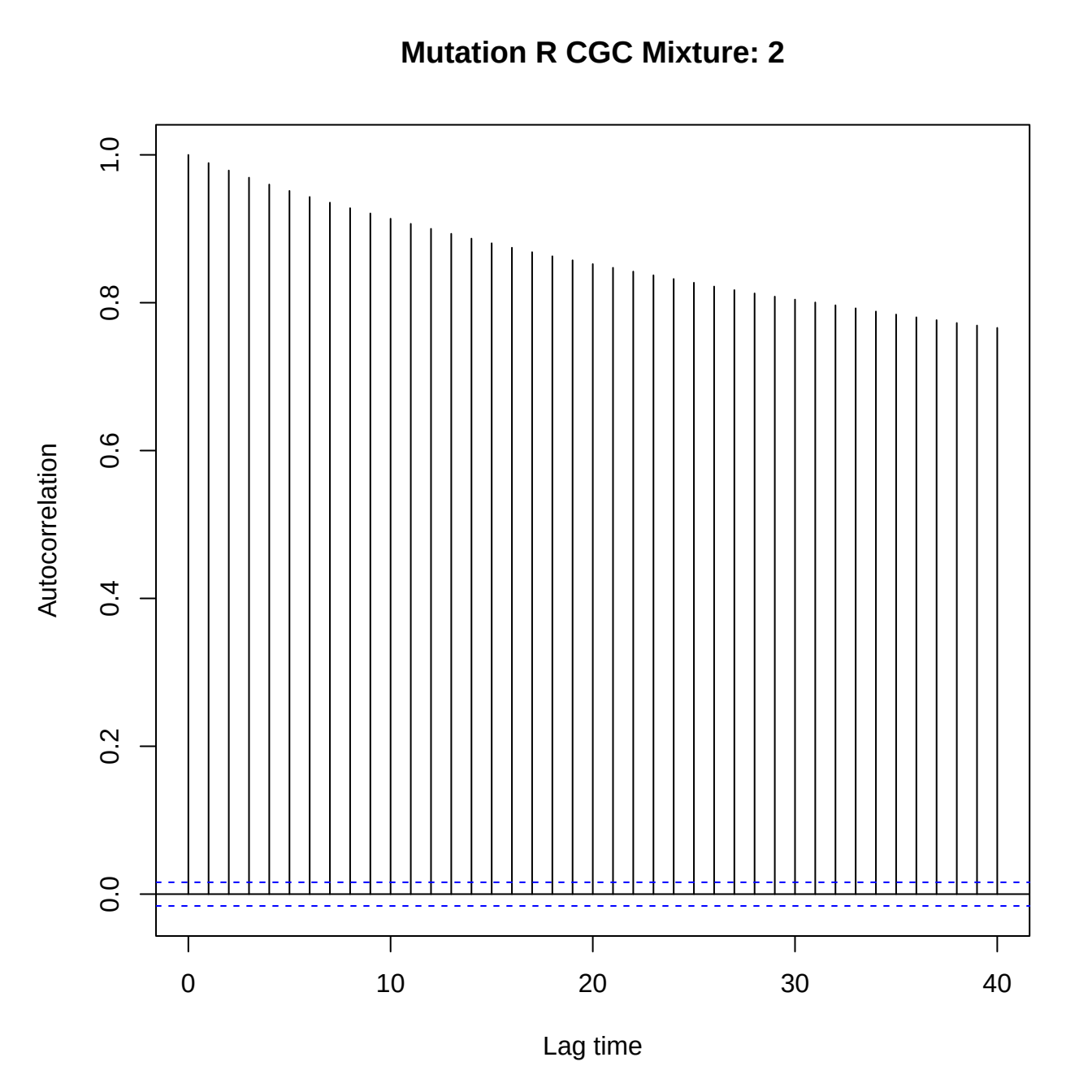
Lag time


Mutation R CGC Mixture: 2
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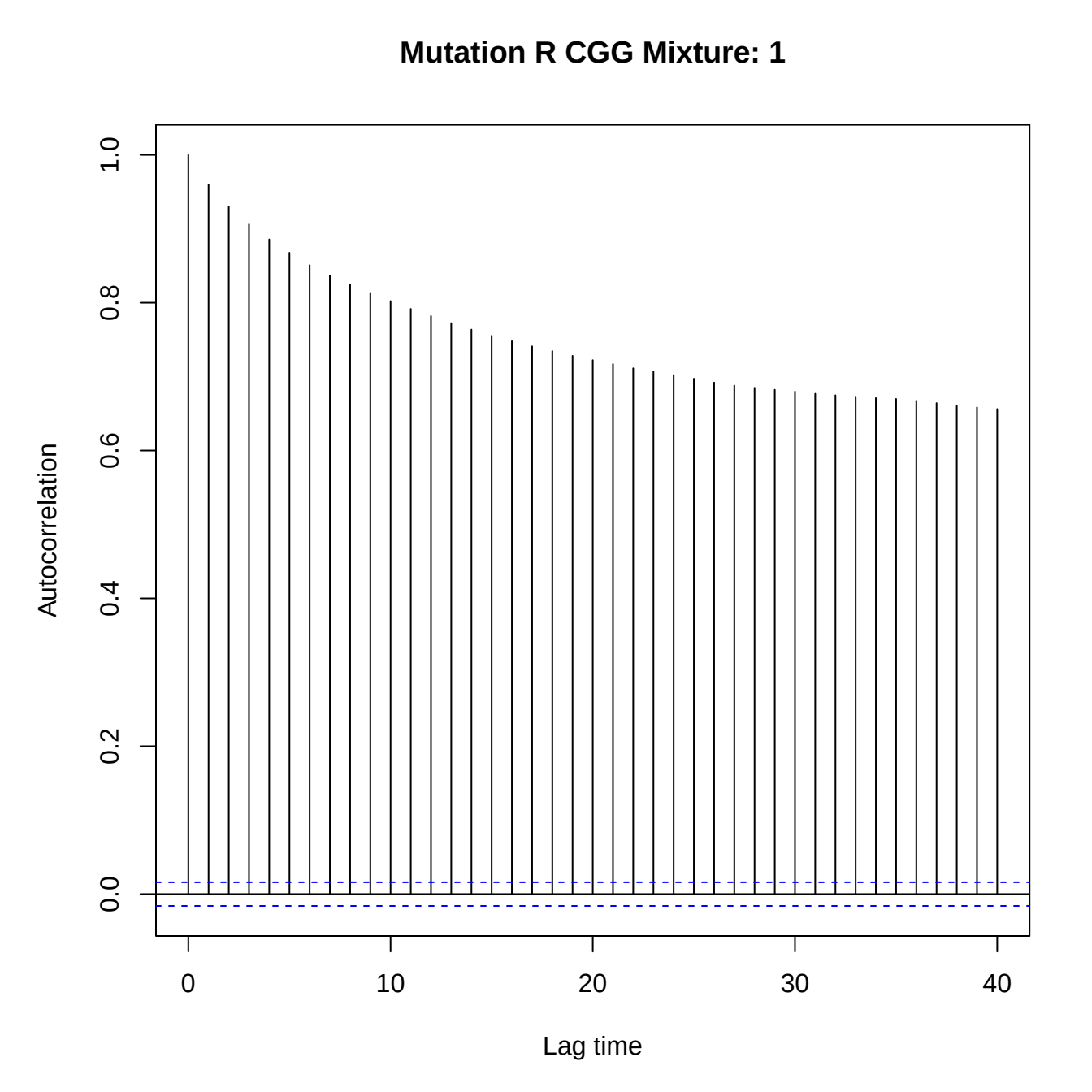
Lag time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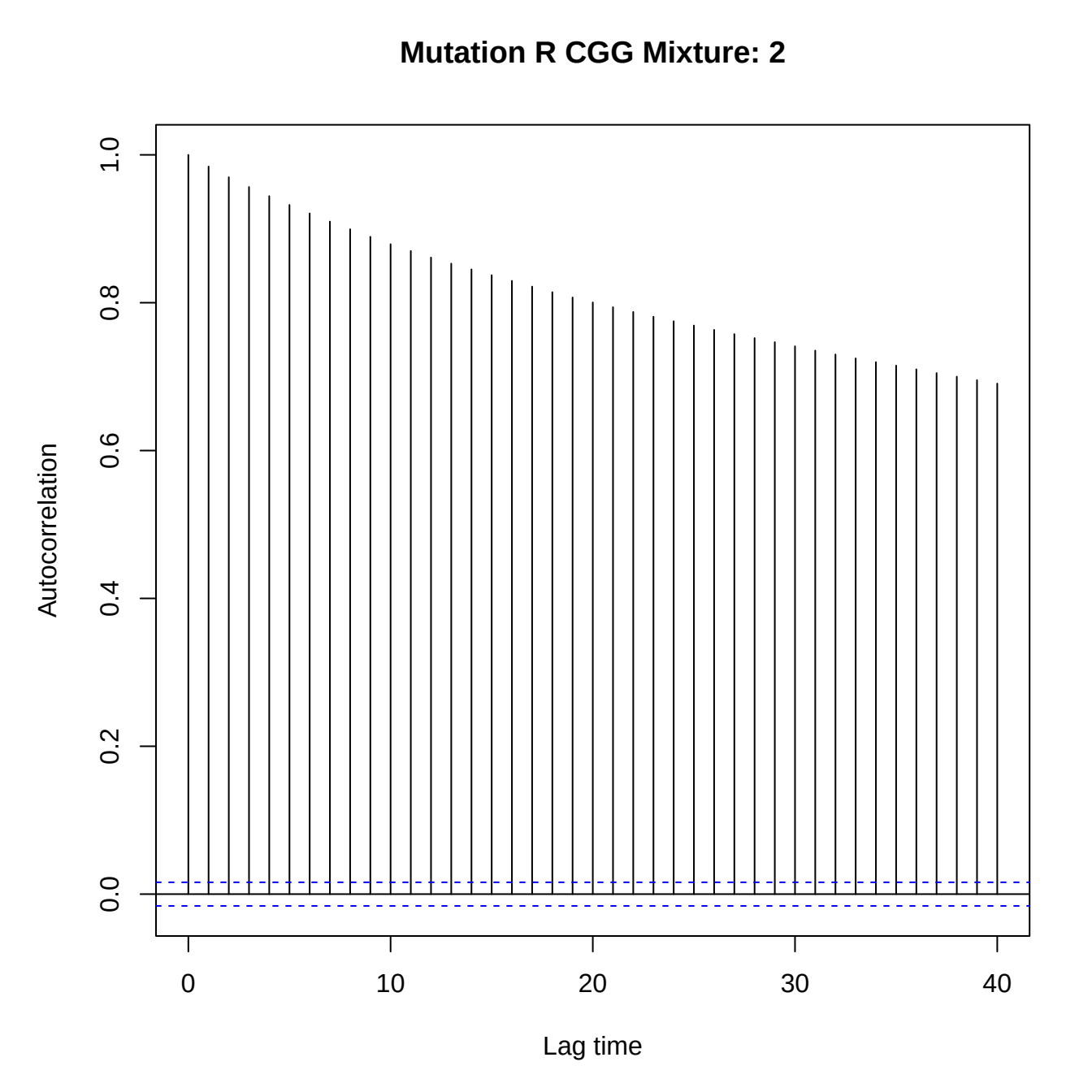
Lag time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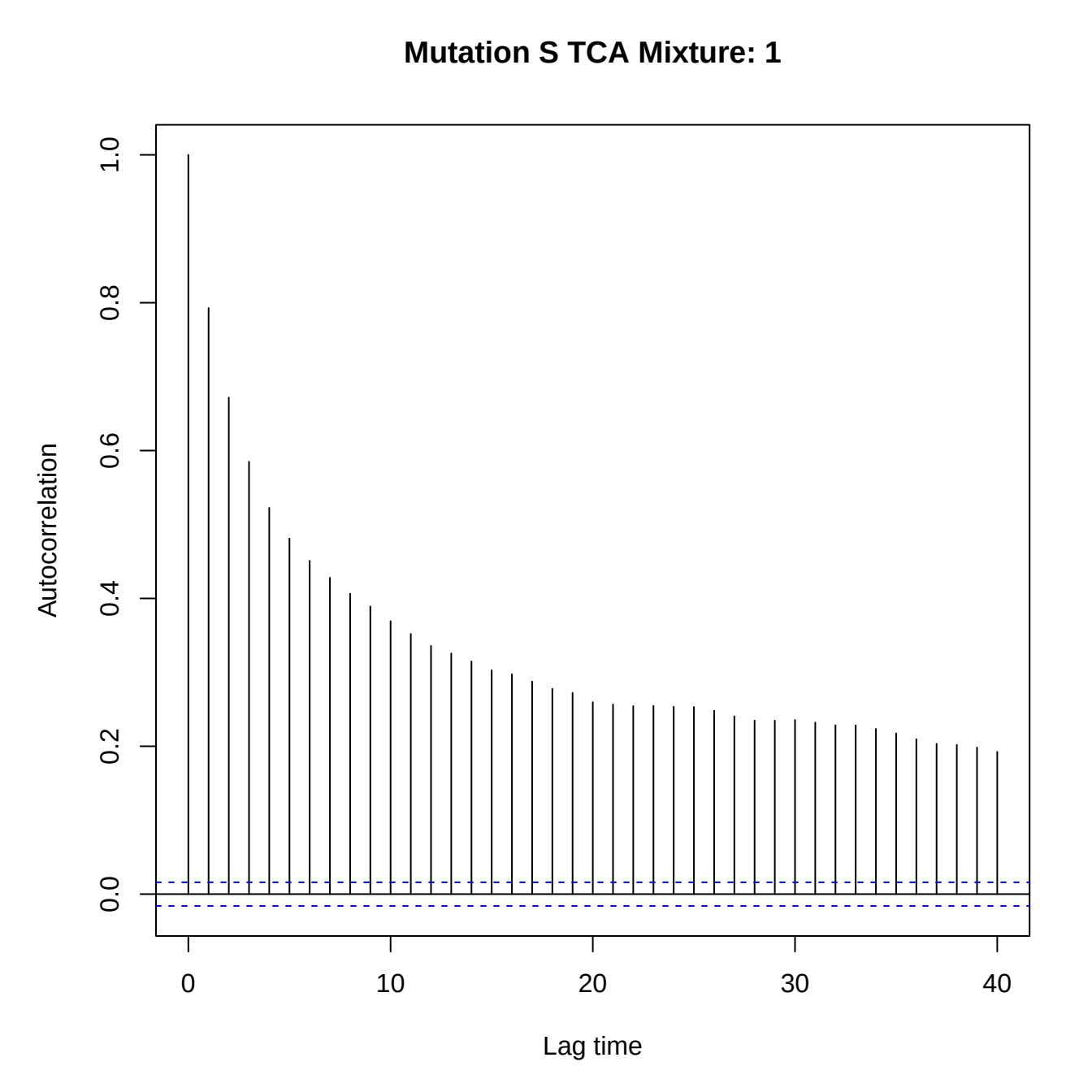
Lag time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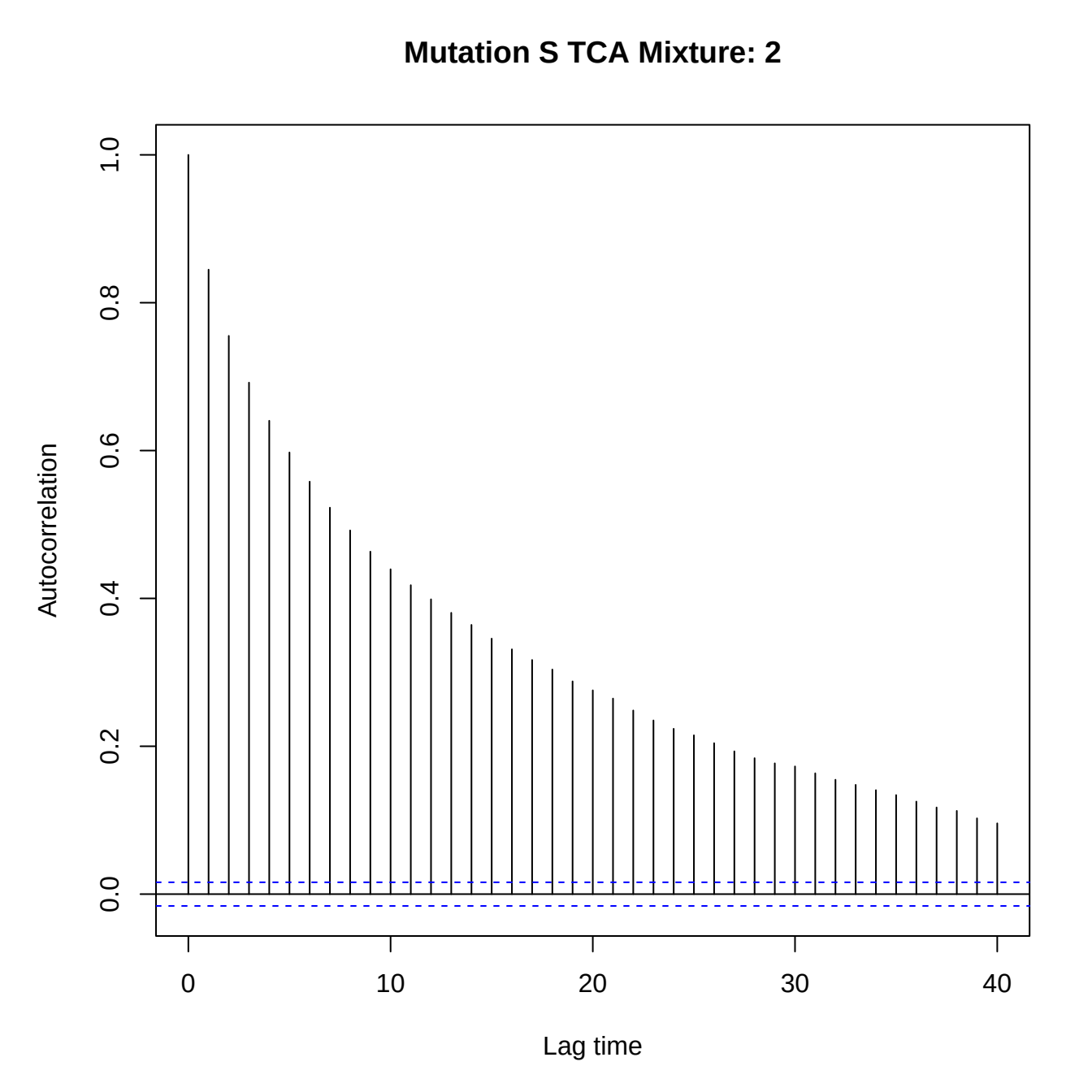
Lag time


Mutation S TCA Mixture: 2
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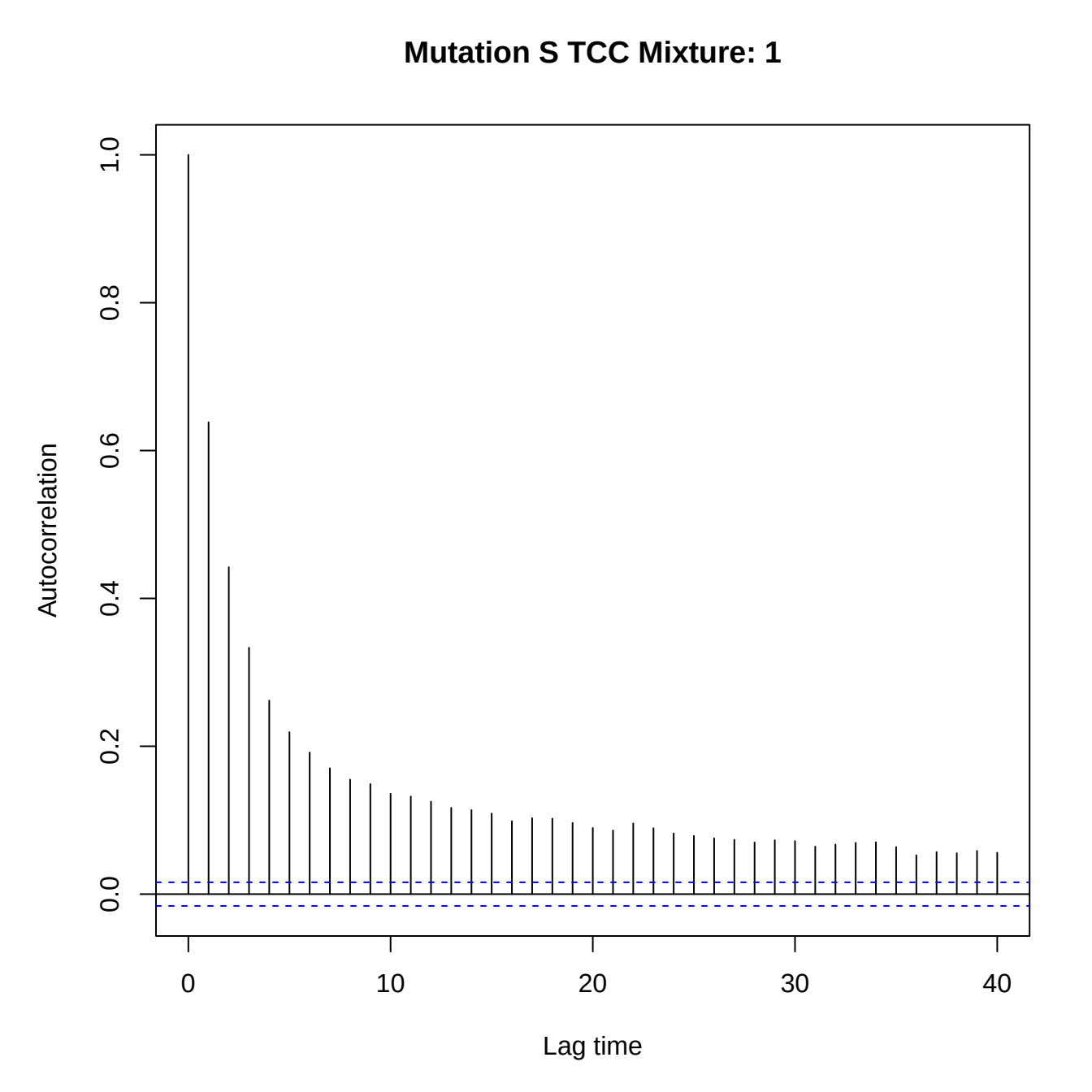
Lag time


Mutation S TCC Mixture: 1
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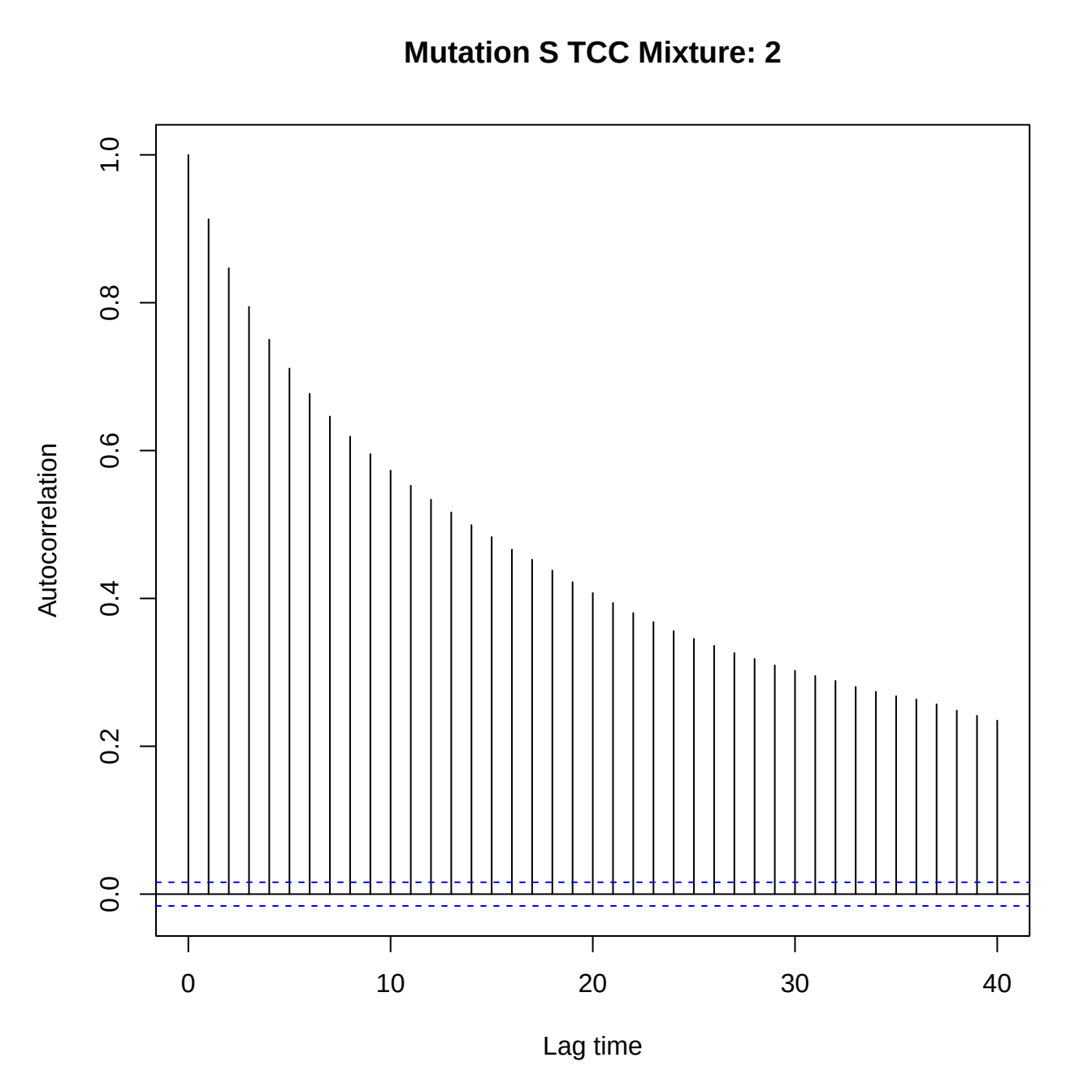
Lag time


Mutation S TCC Mixture: 2
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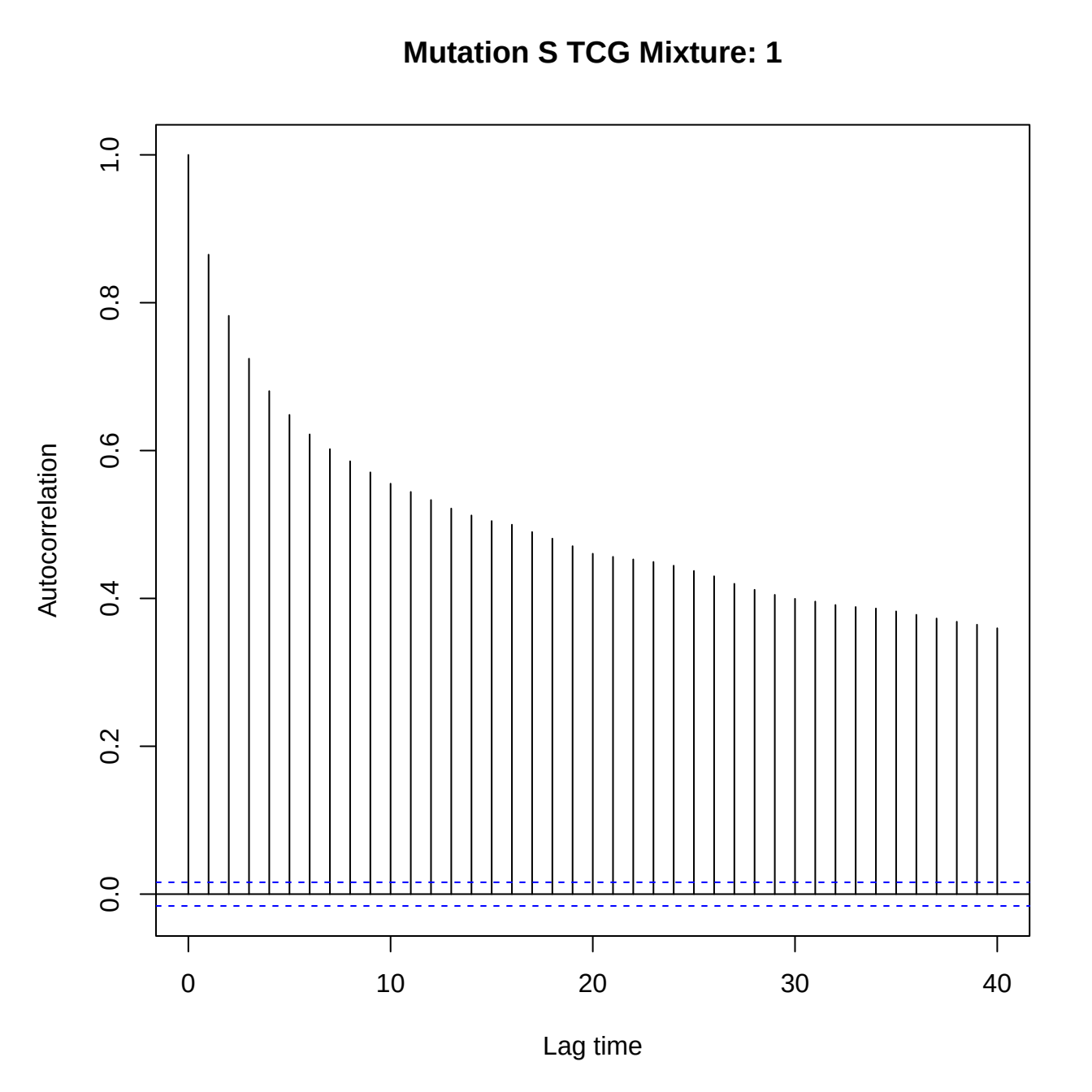
Lag time


Mutation S TCG Mixture: 1
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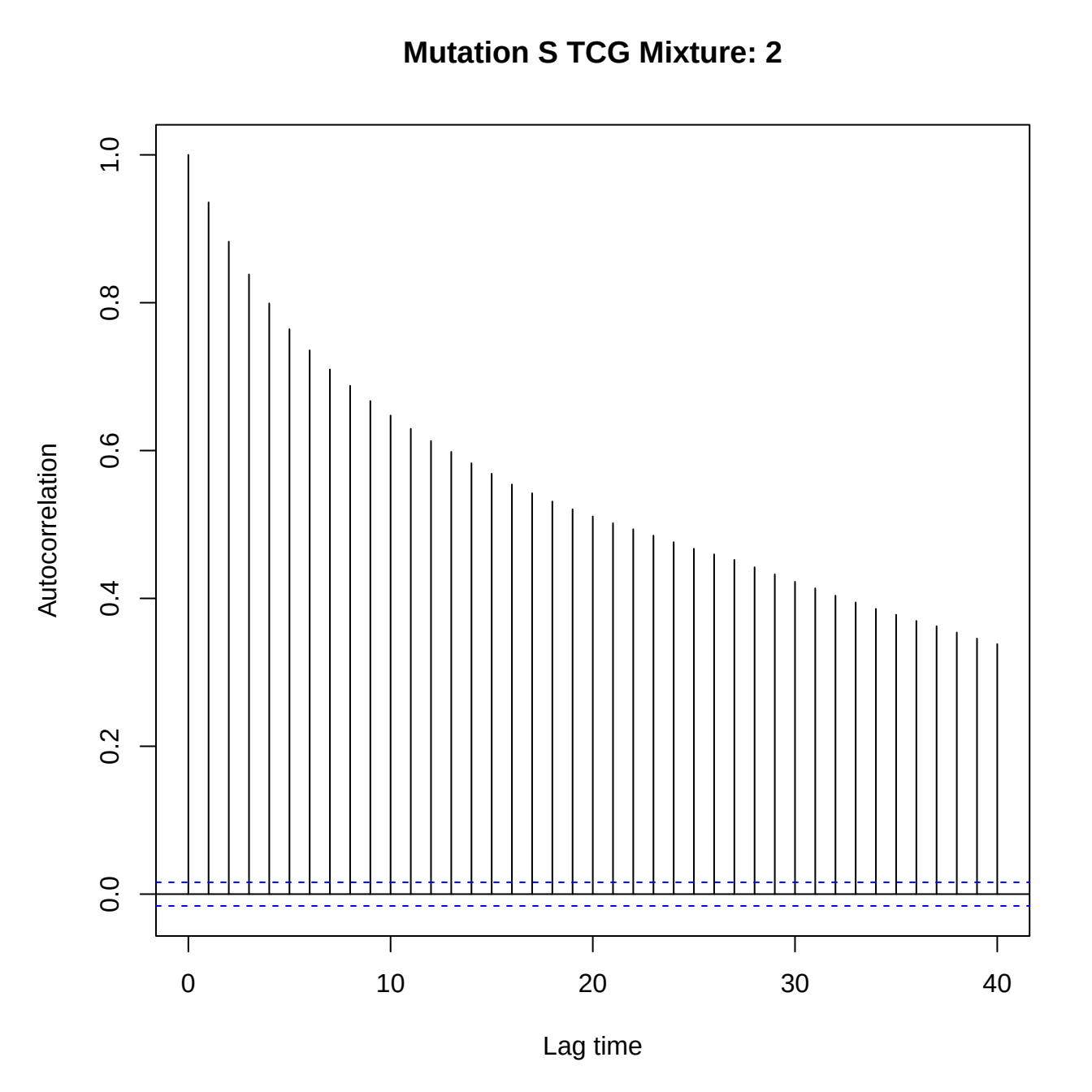
Mutation S TCG Mixture: 2
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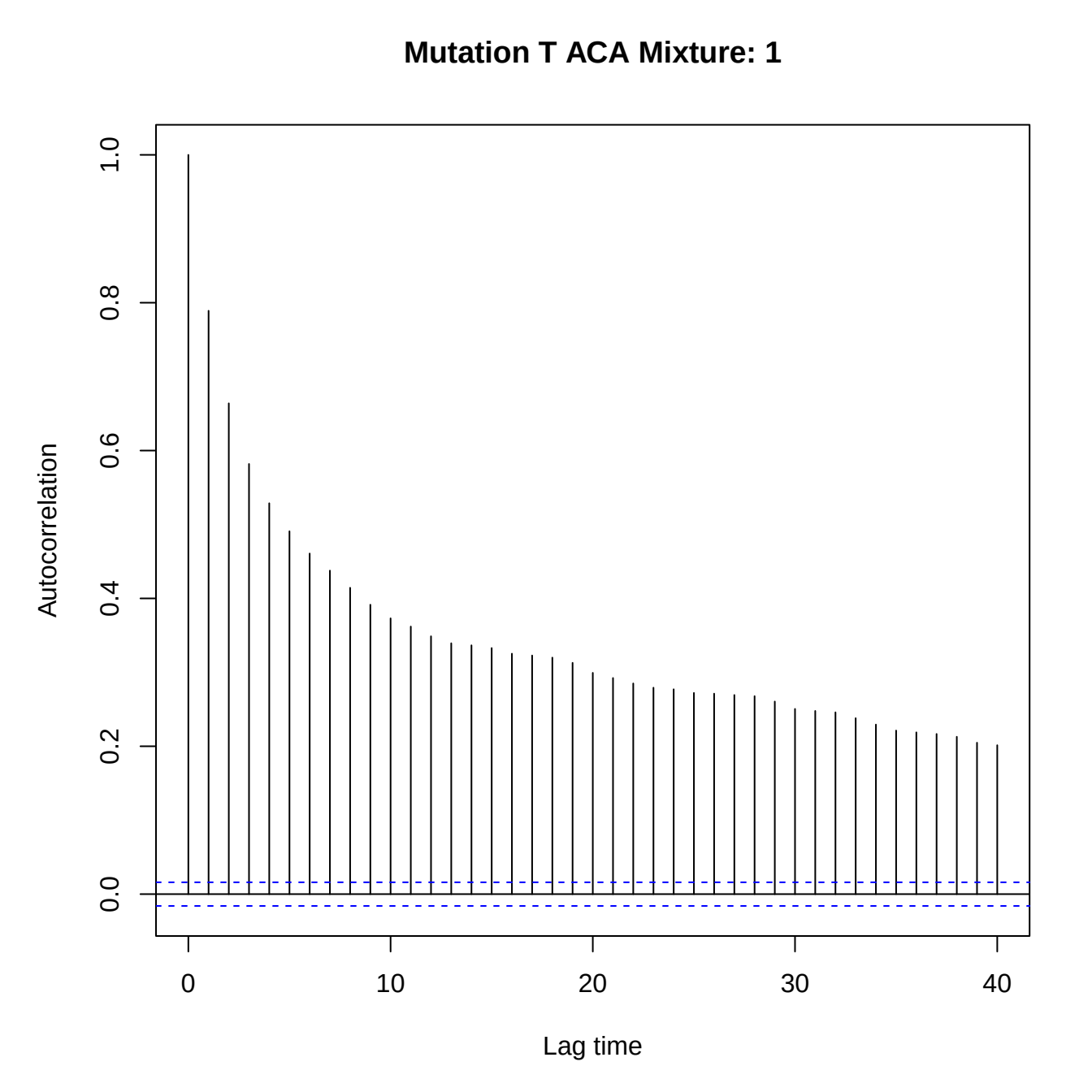
Lag time


Mutation T ACA Mixture: 1
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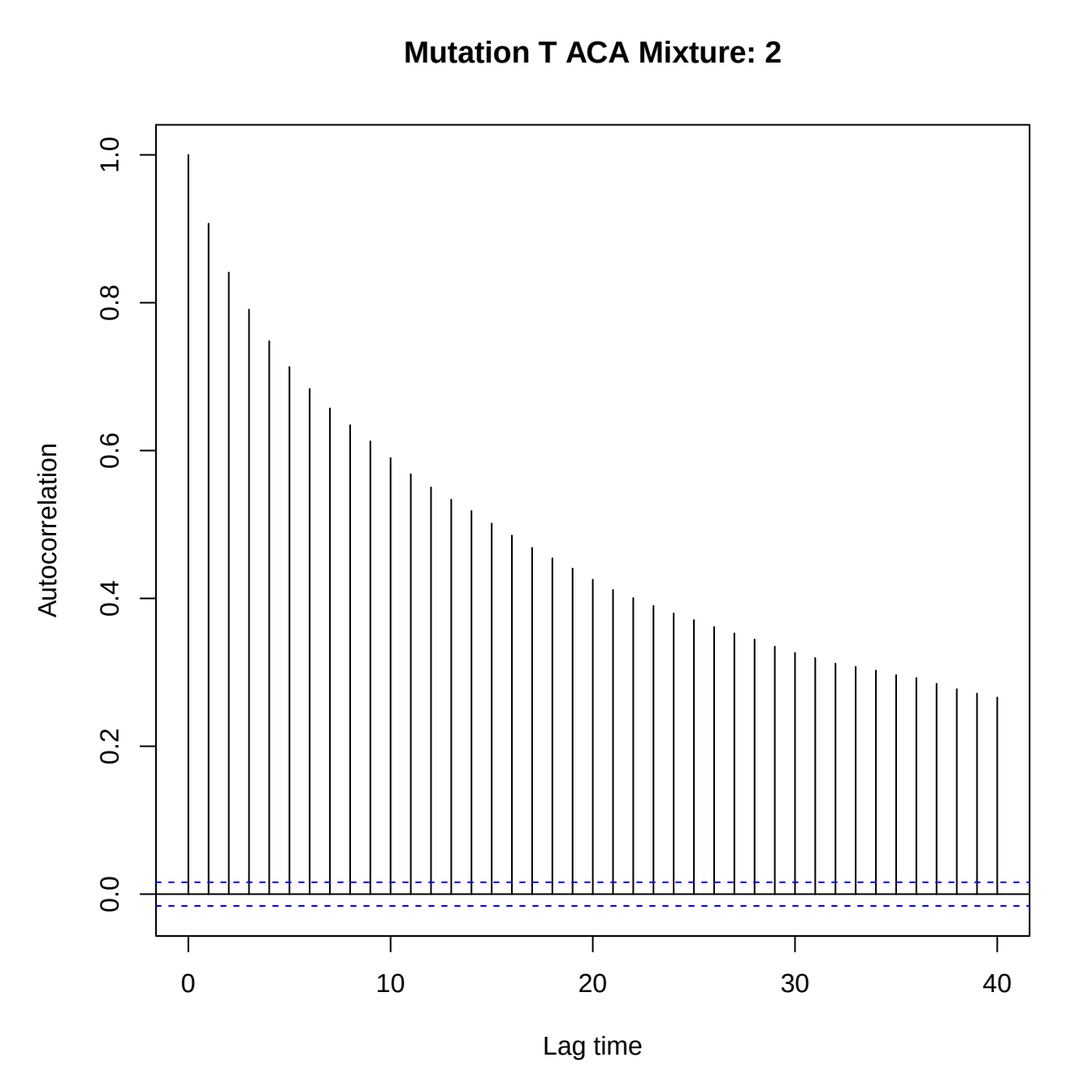
Lag time


Mutation T ACA Mixture: 2
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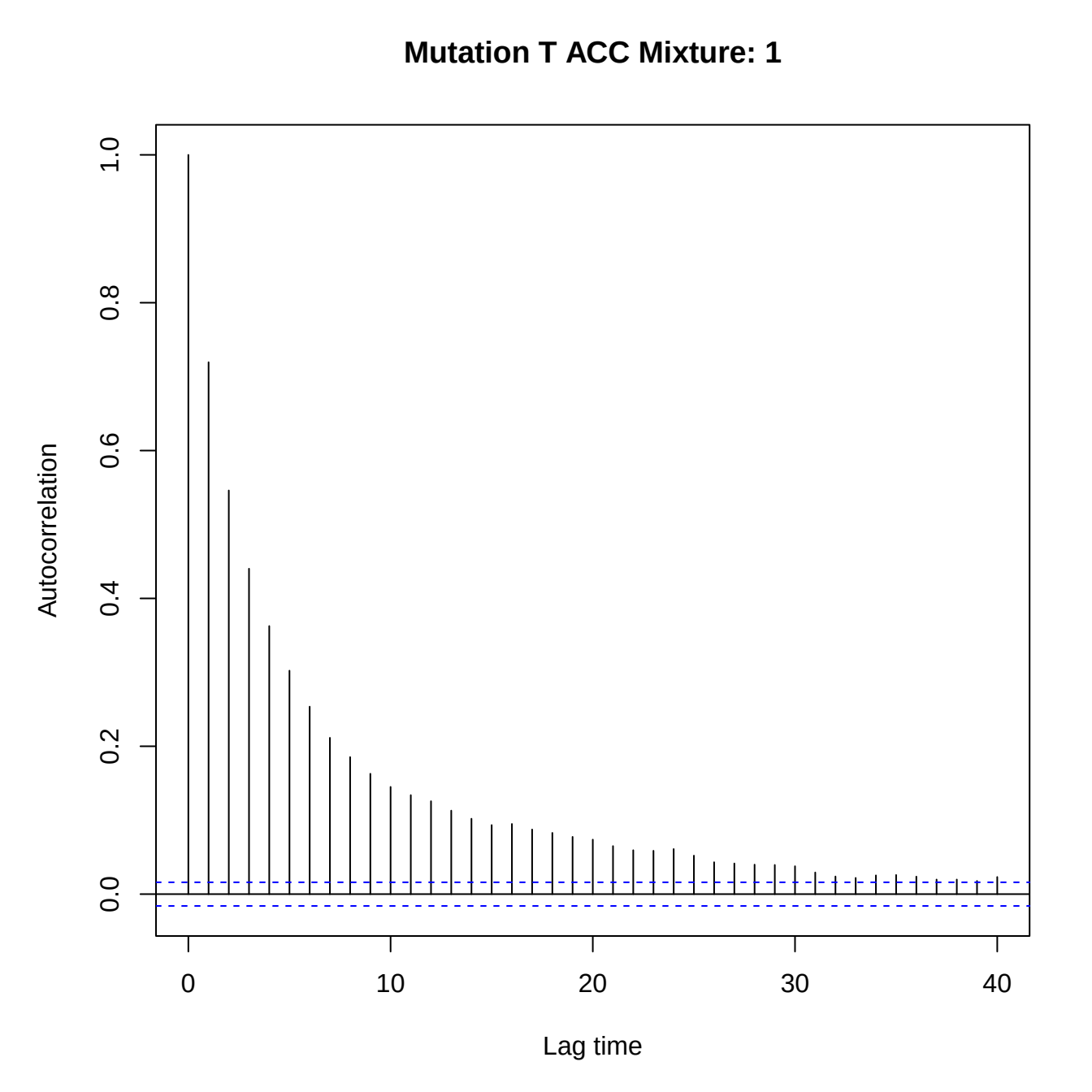
Lag time


Mutation T ACC Mixture: 1
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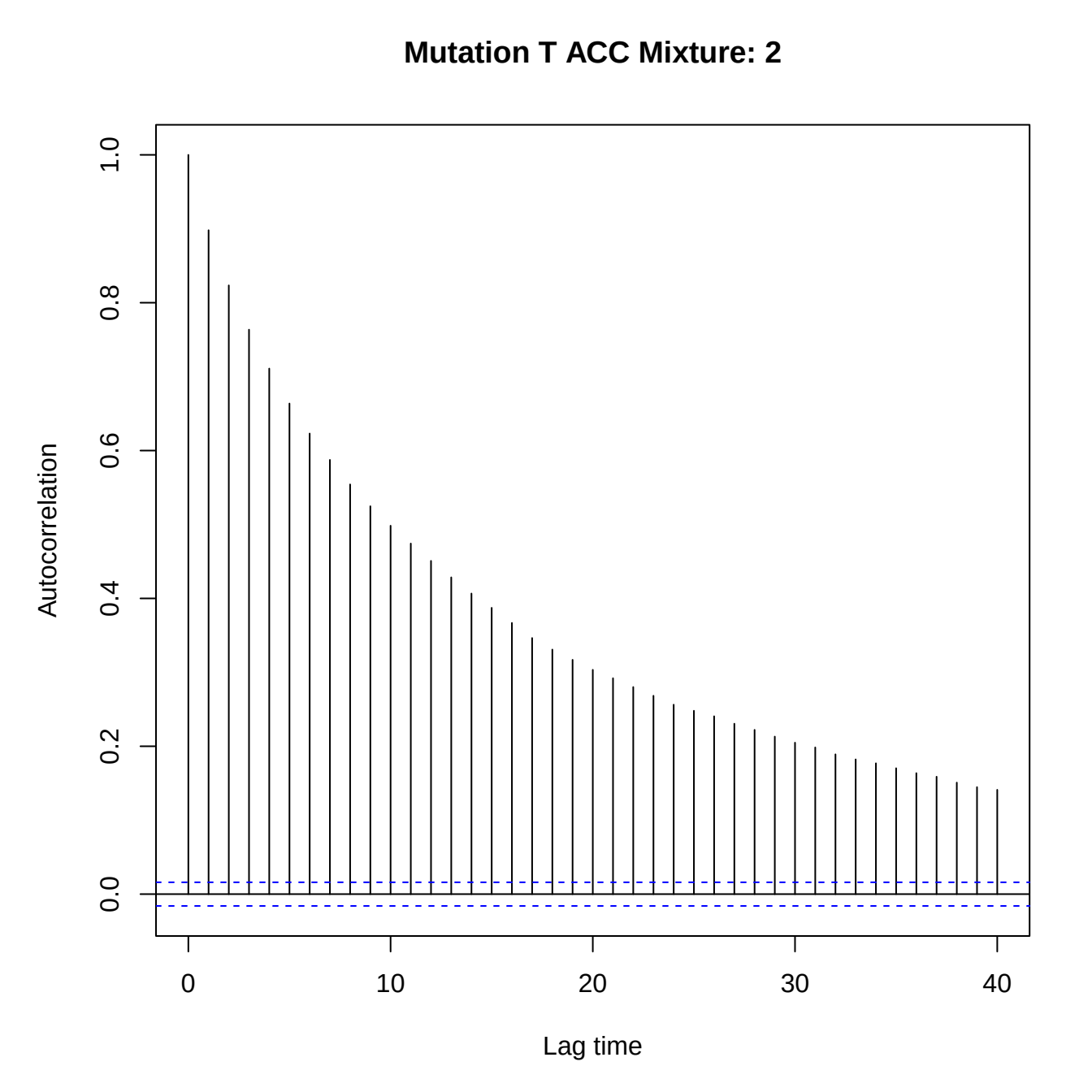
Lag time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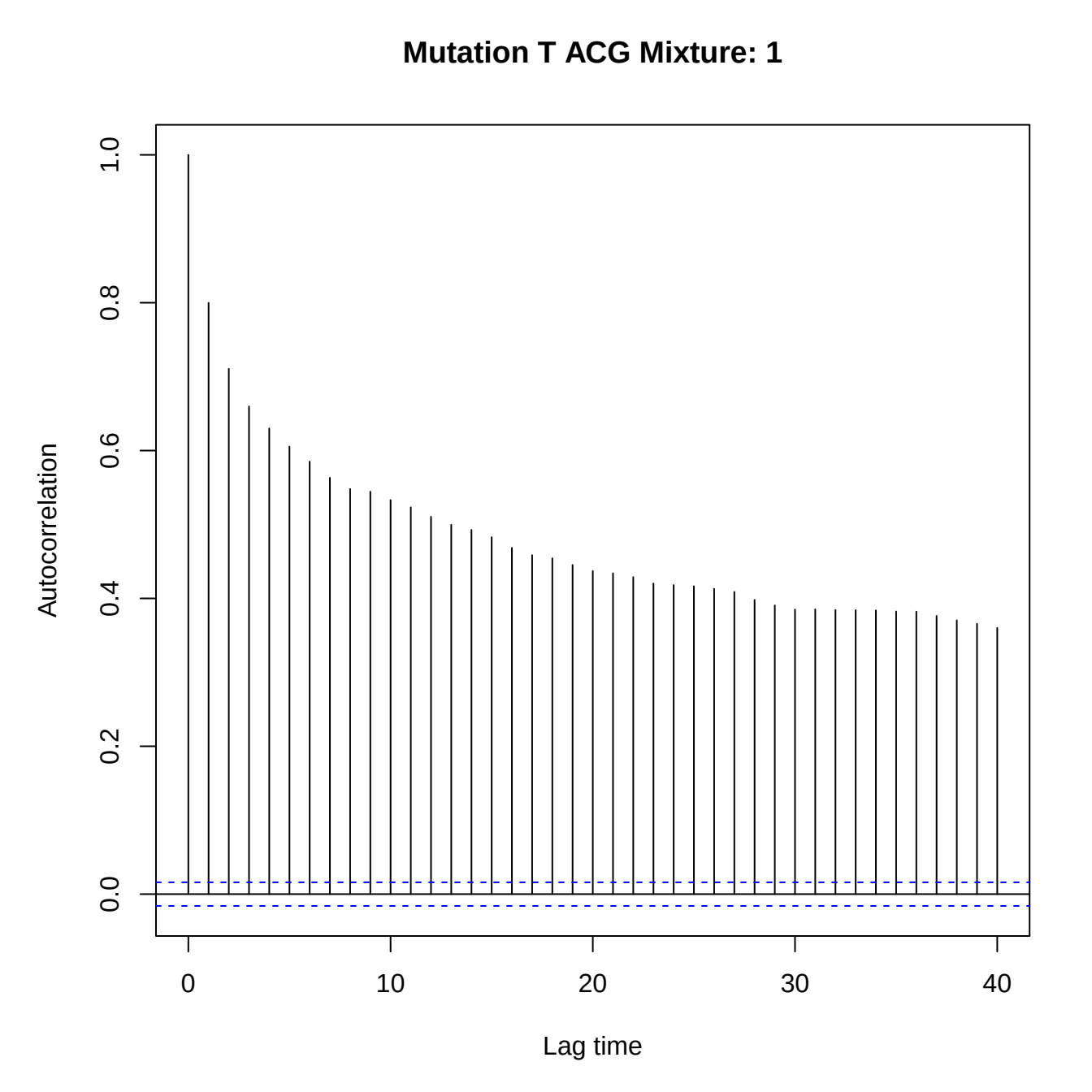
Lag time


Mutation T ACG Mixture: 1
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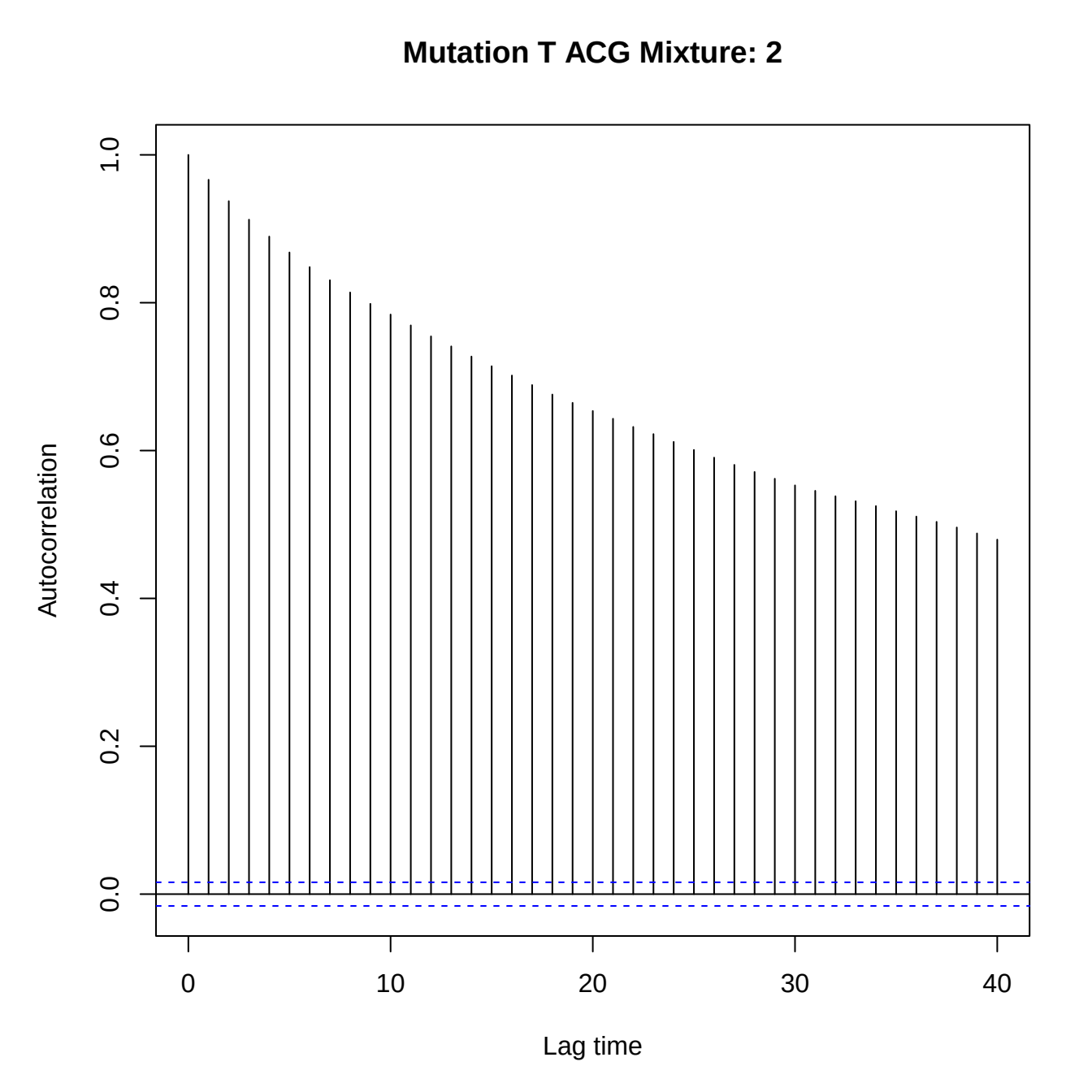
Lag time


Mutation T ACG Mixture: 2
Autocorrelation
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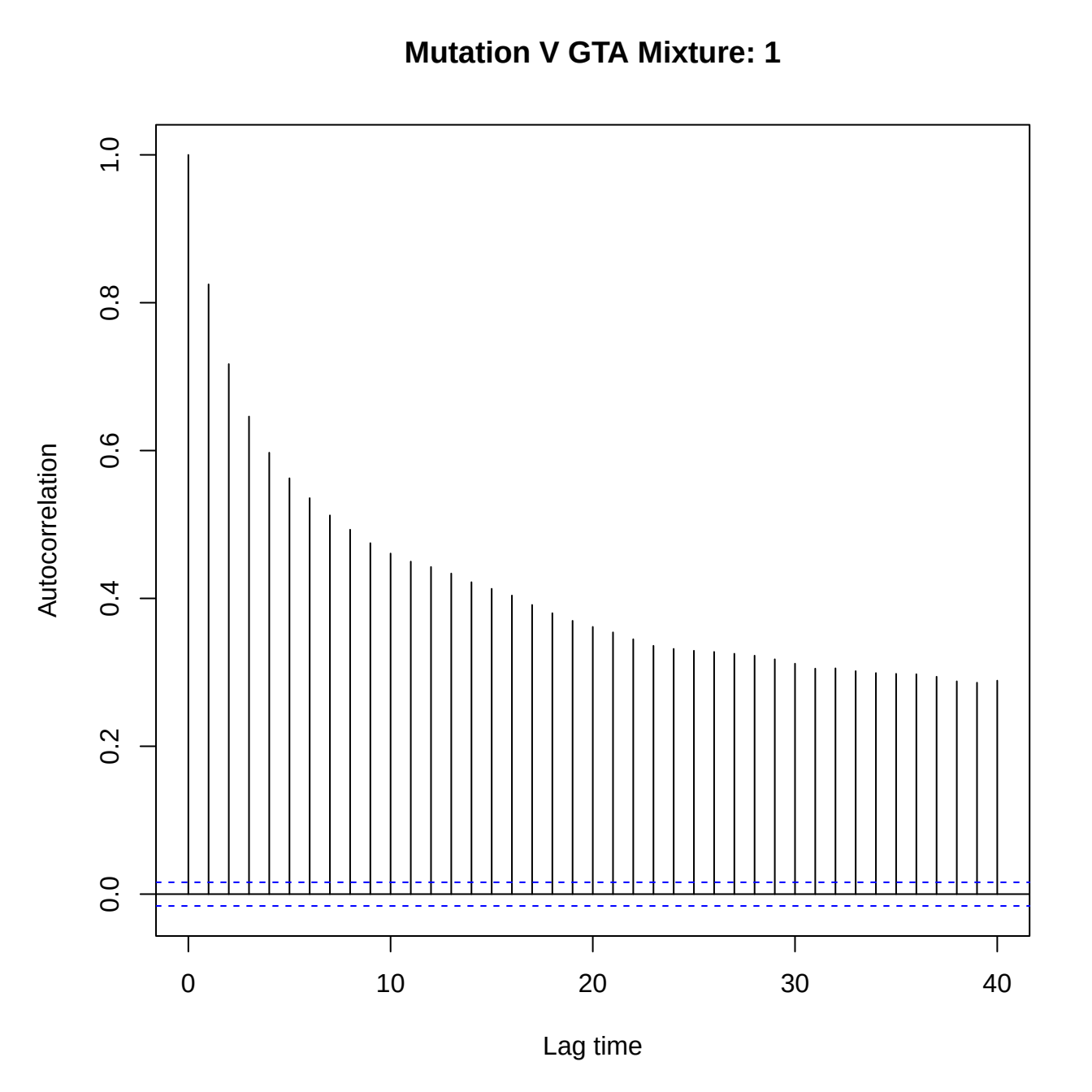
Lag time


Mutation V GTA Mixture: 1
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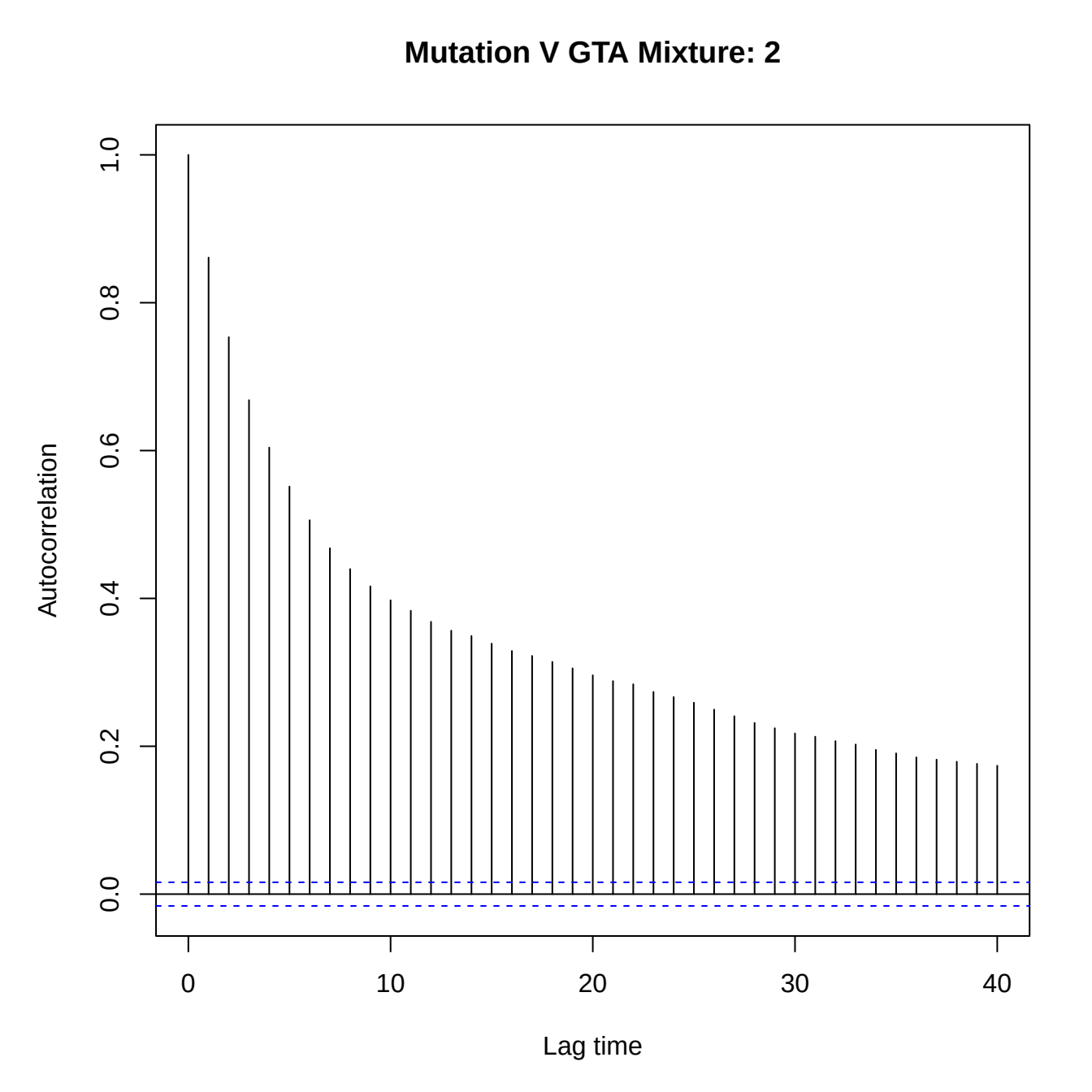
Lag time


Mutation V GTA Mixture: 2
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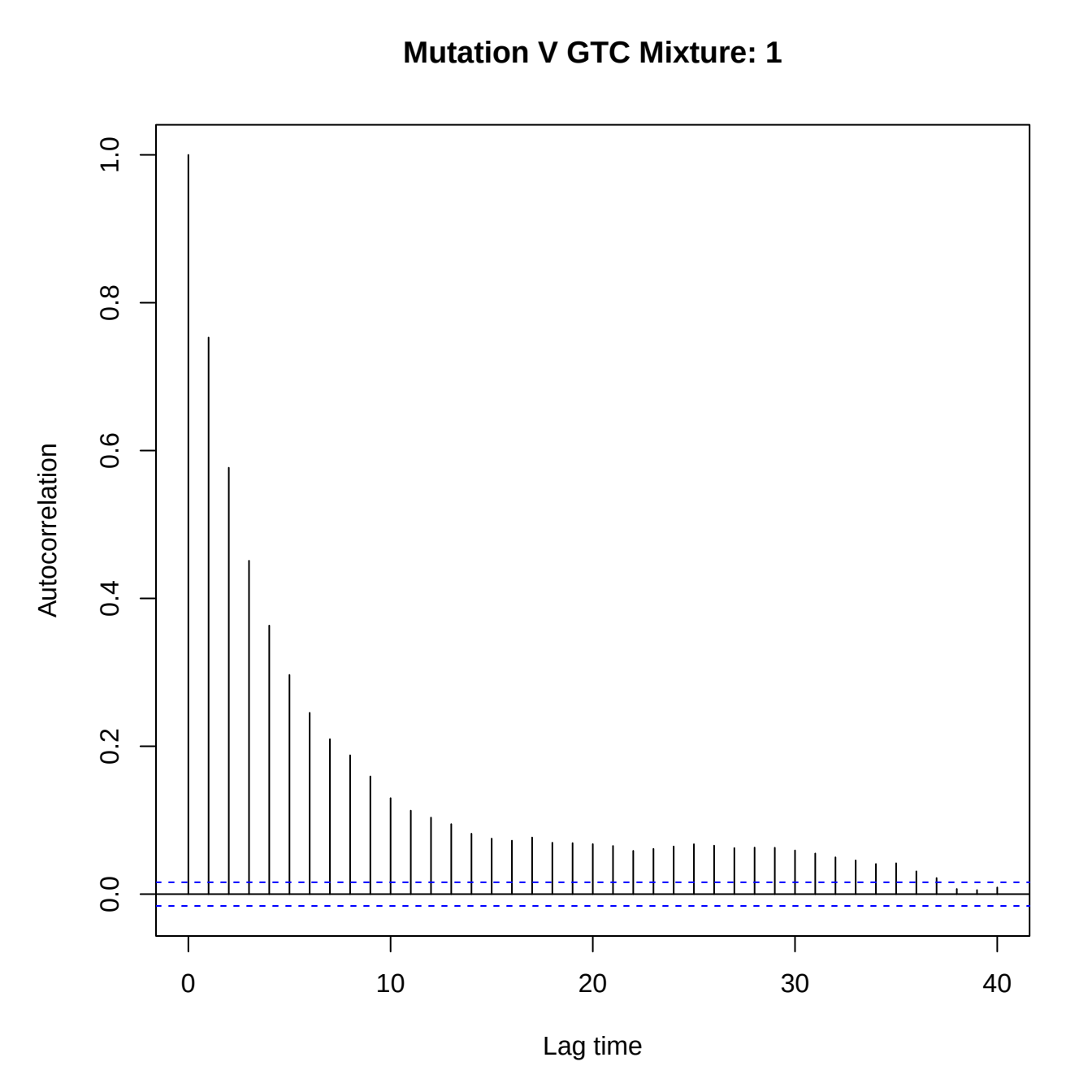
Lag time


Mutation V GTC Mixture: 1
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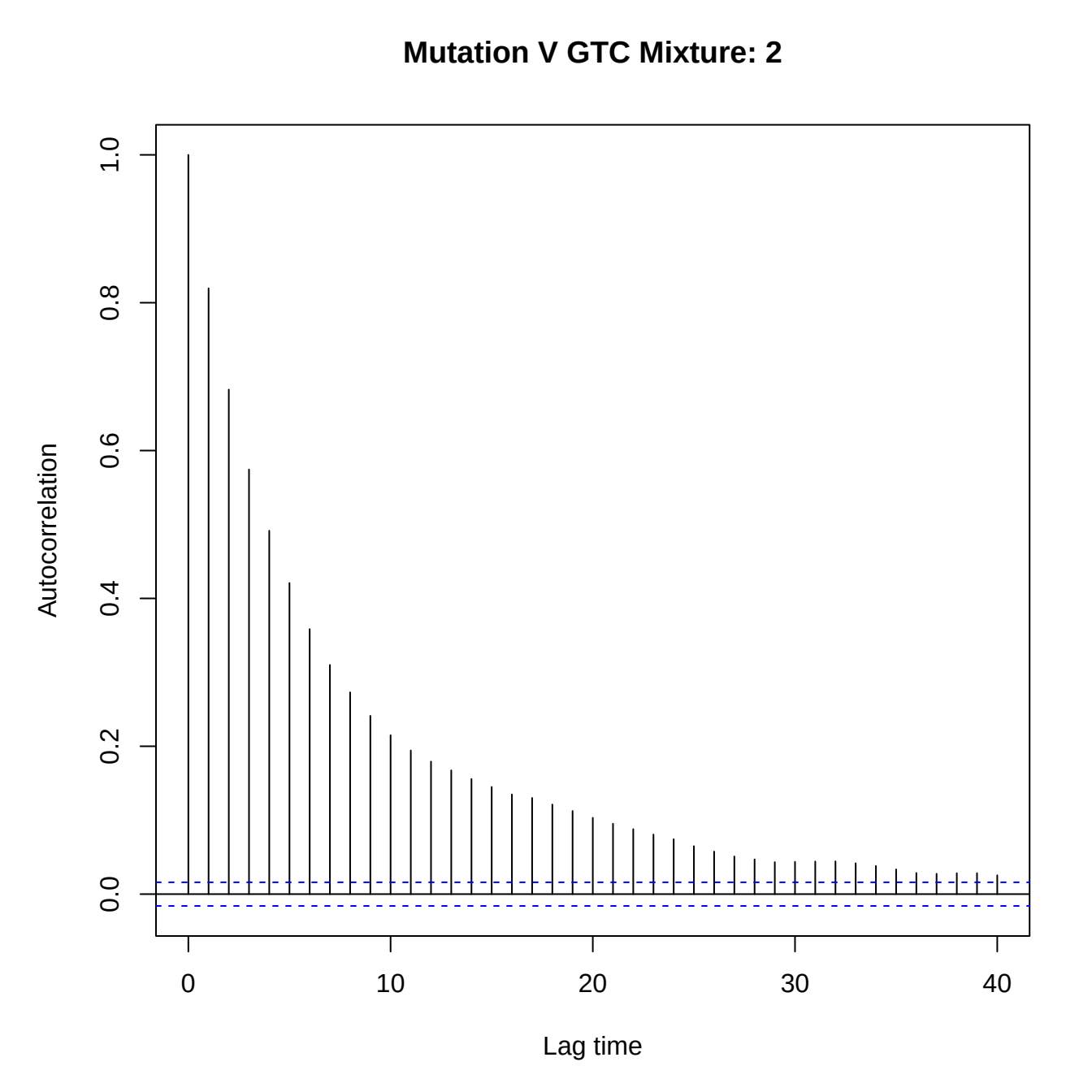
Lag time


Mutation V GTC Mixture: 2
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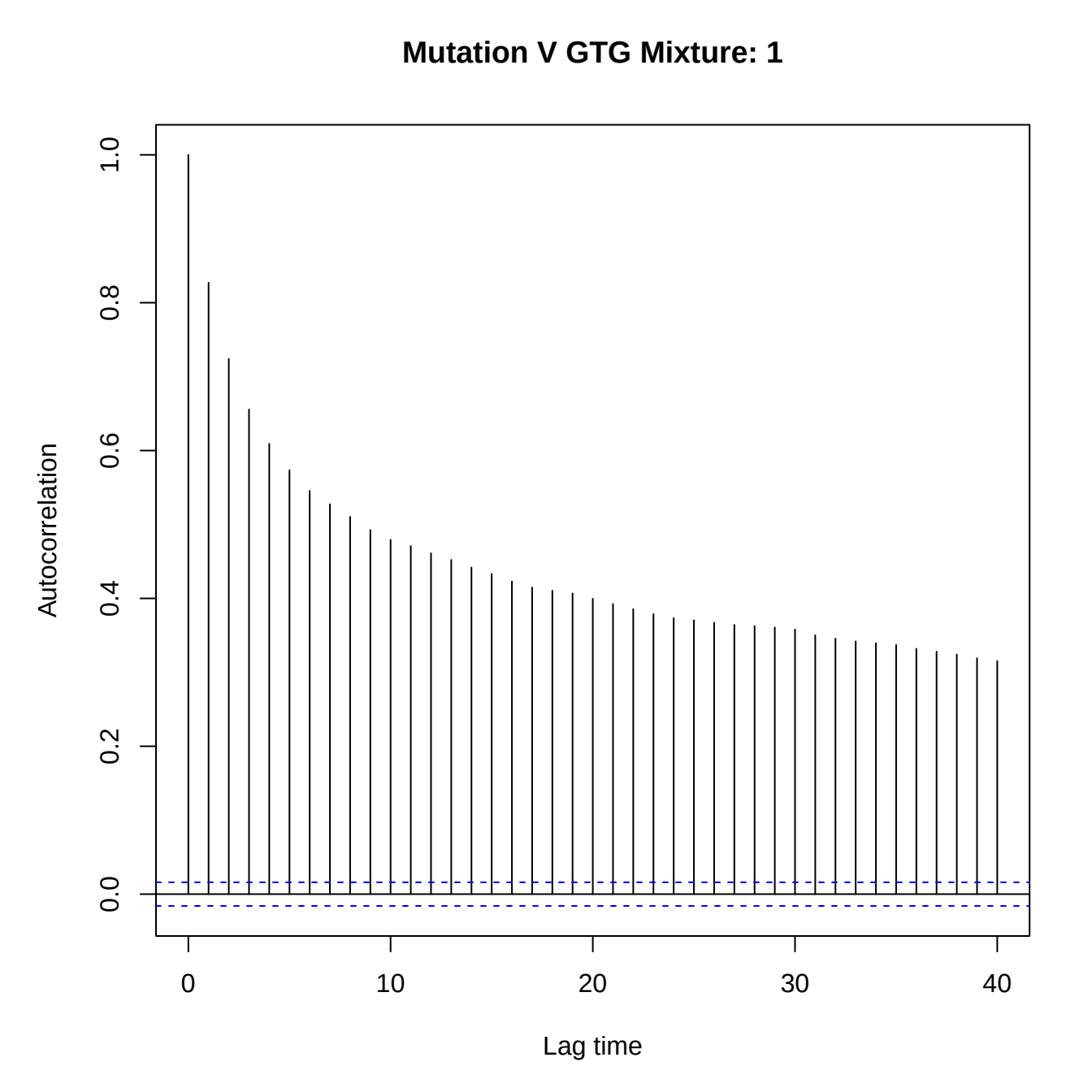
Lag time


Mutation V GTG Mixture: 1
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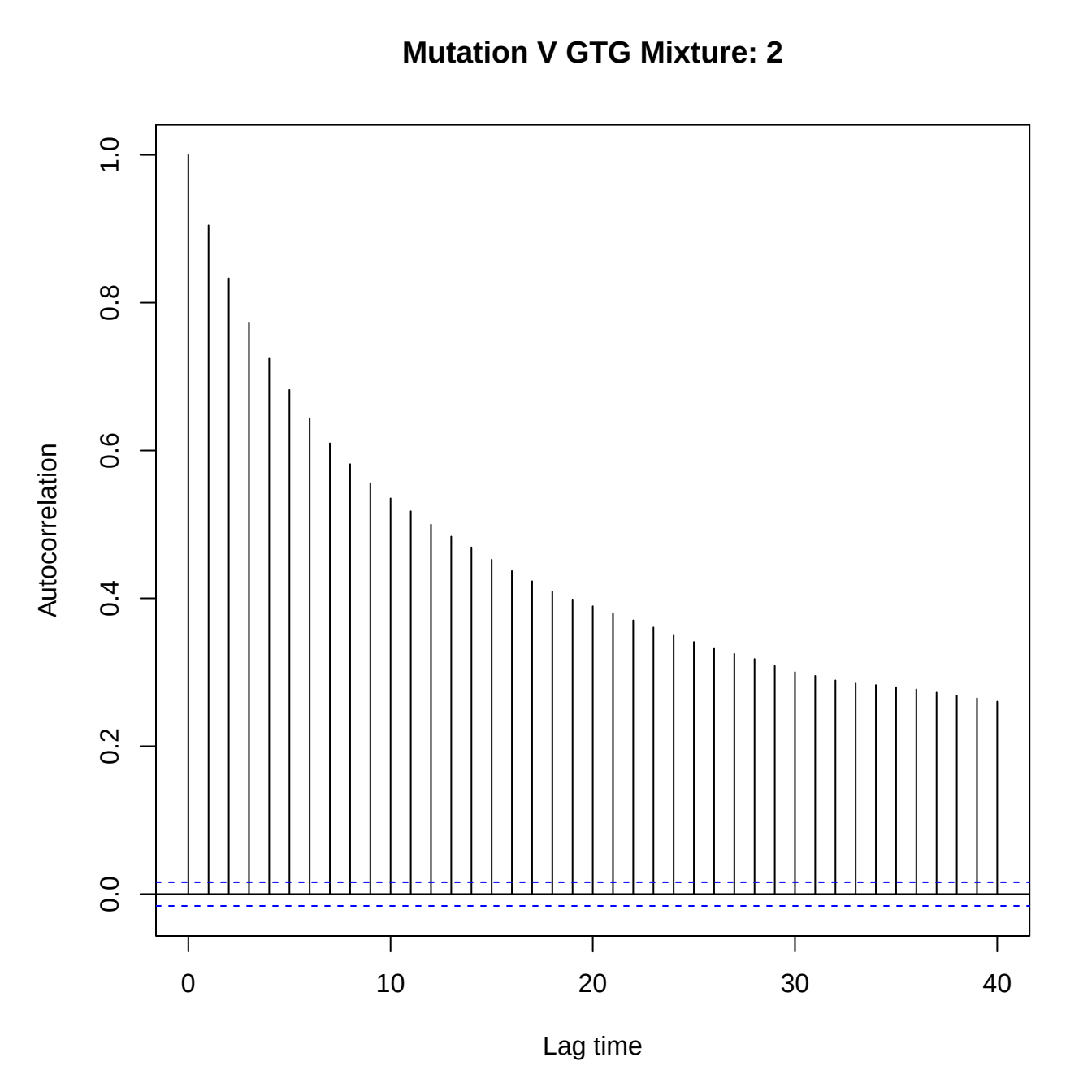
Lag time


Mutation V GTG Mixture: 2
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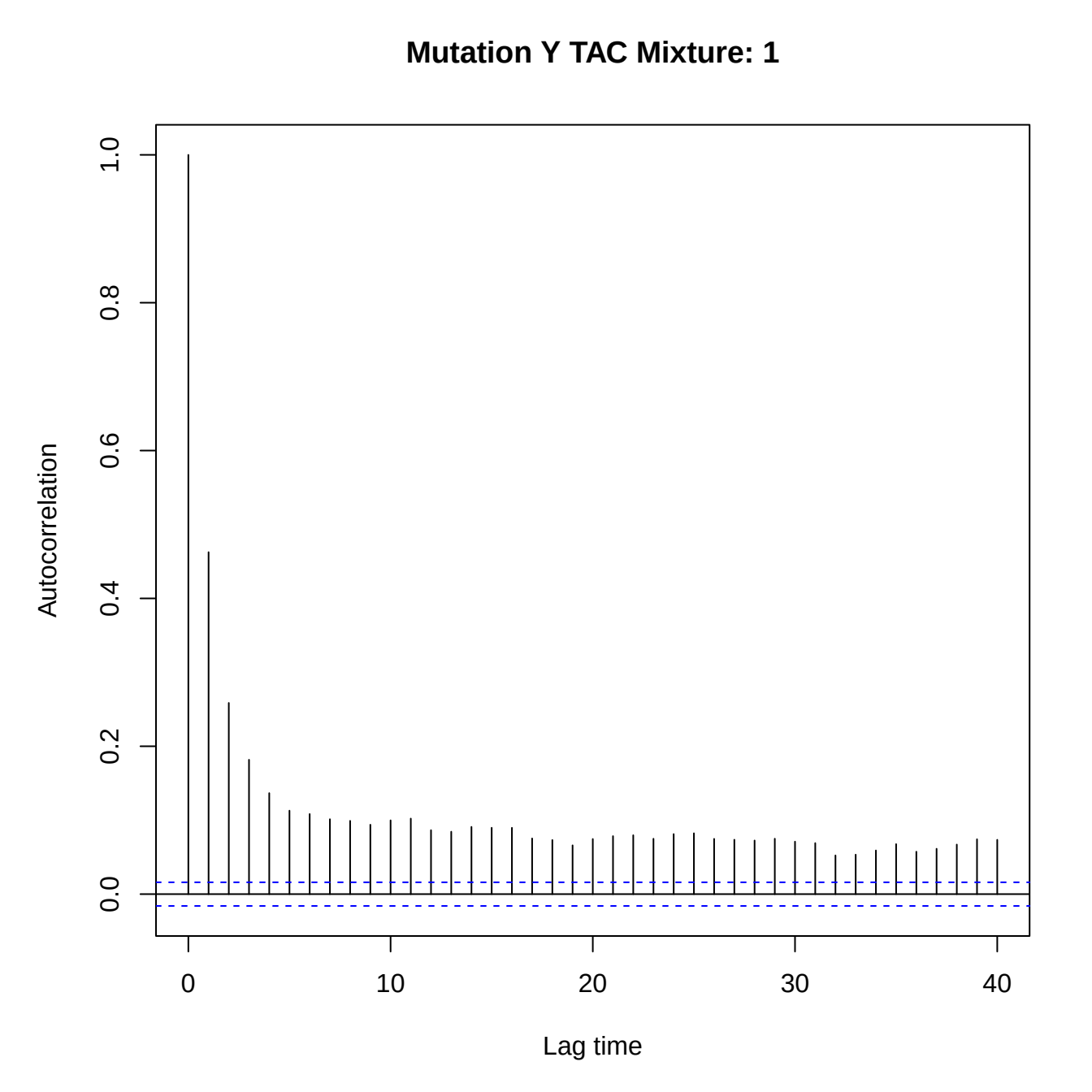
Lag time


Mutation Y TAC Mixture: 1
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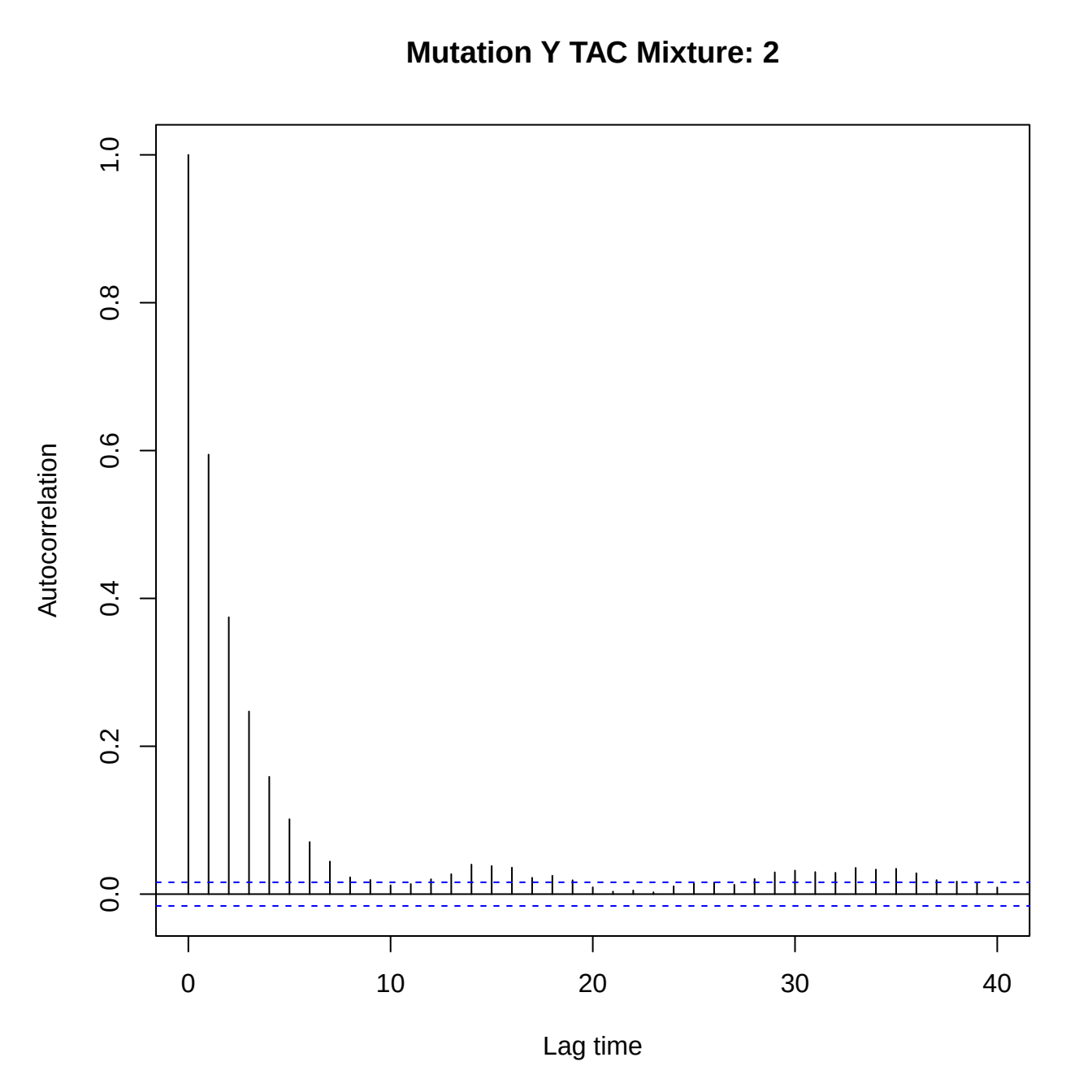
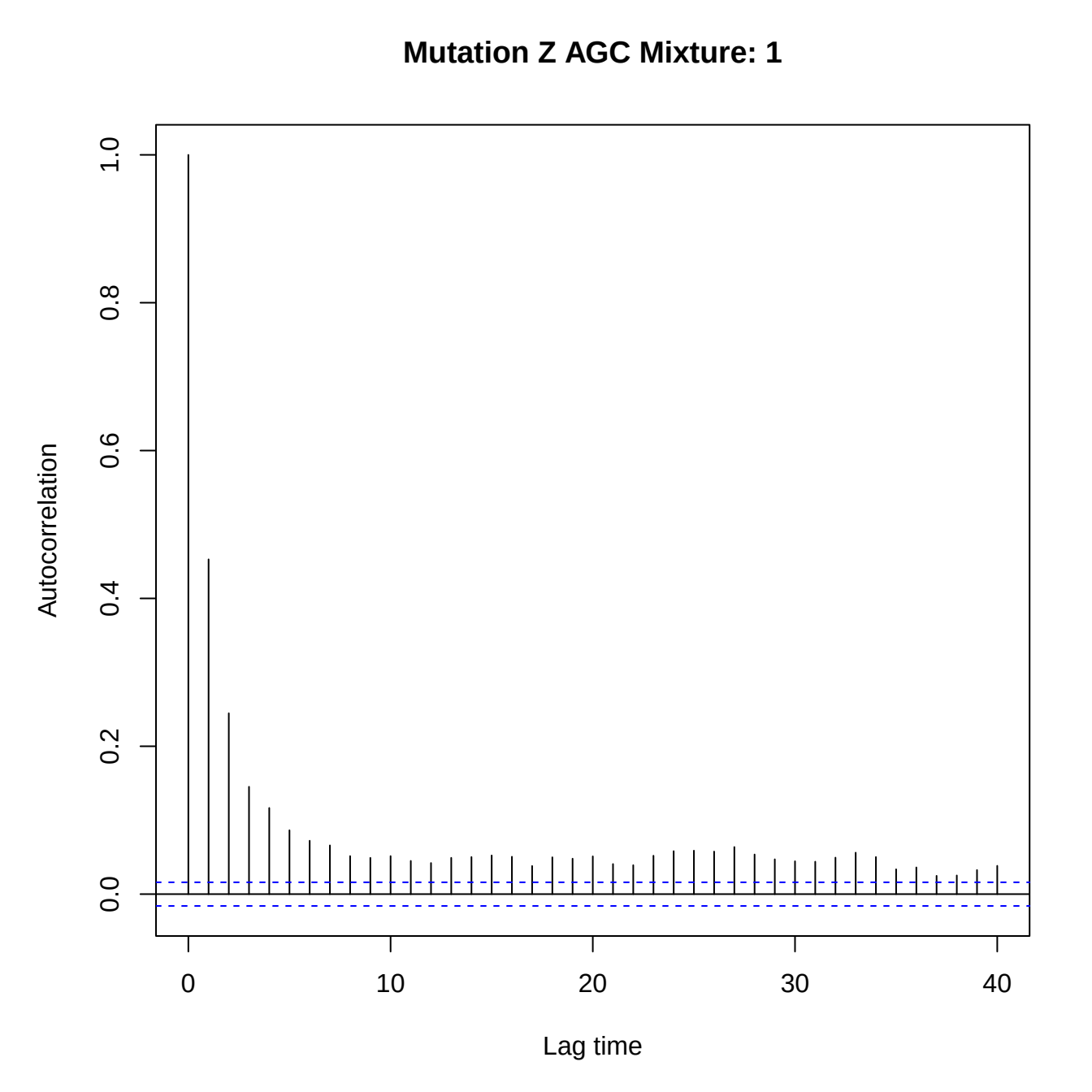
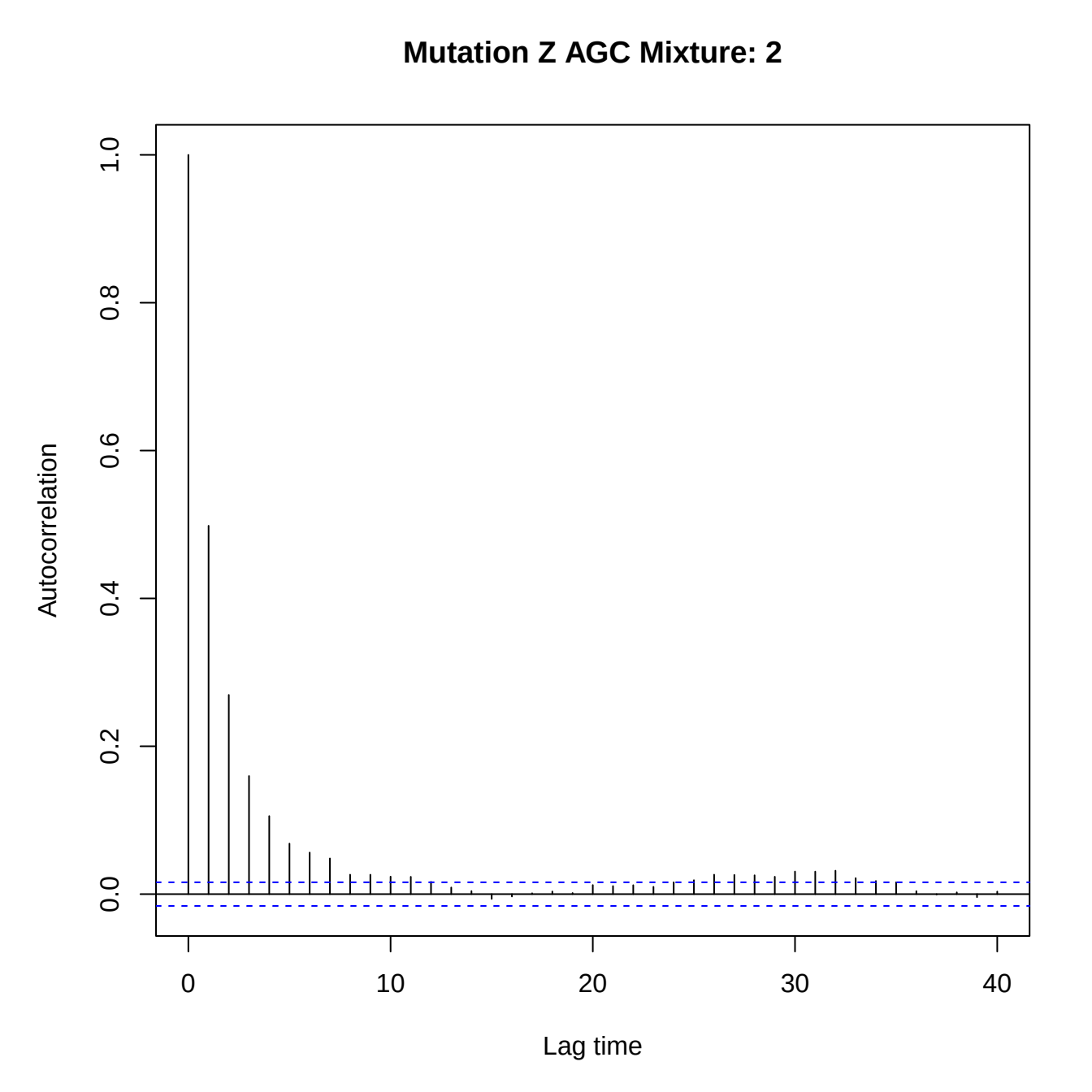
40
Lag time


Mutation Y TAC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Mutation Z AGC Mixture: 1
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time


Mutation Z AGC Mixture: 2
Autocorrelation
0.0
0.2
0.4
0.6
0.8
1.0
0
10
20
30
40
Lag time