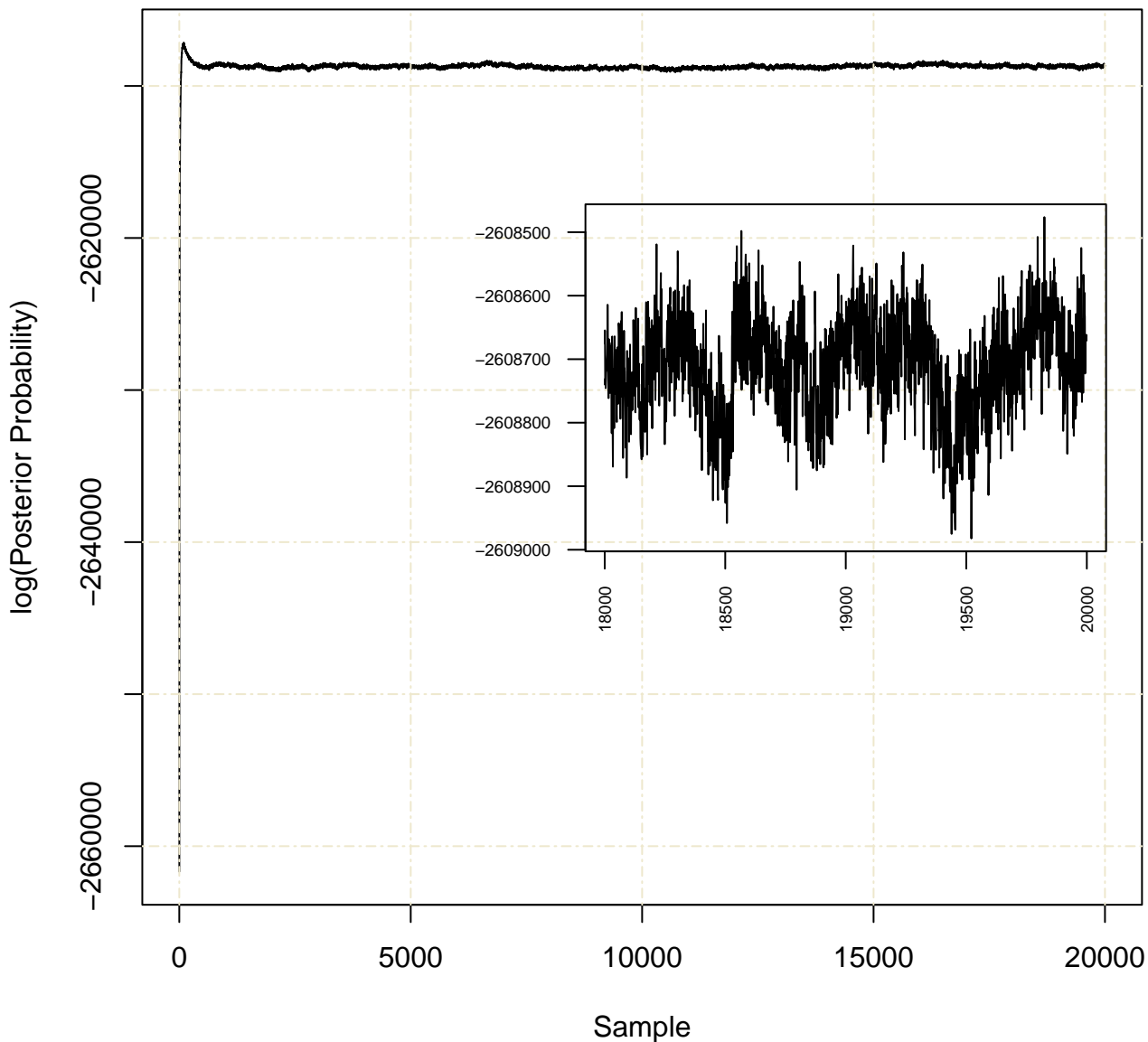
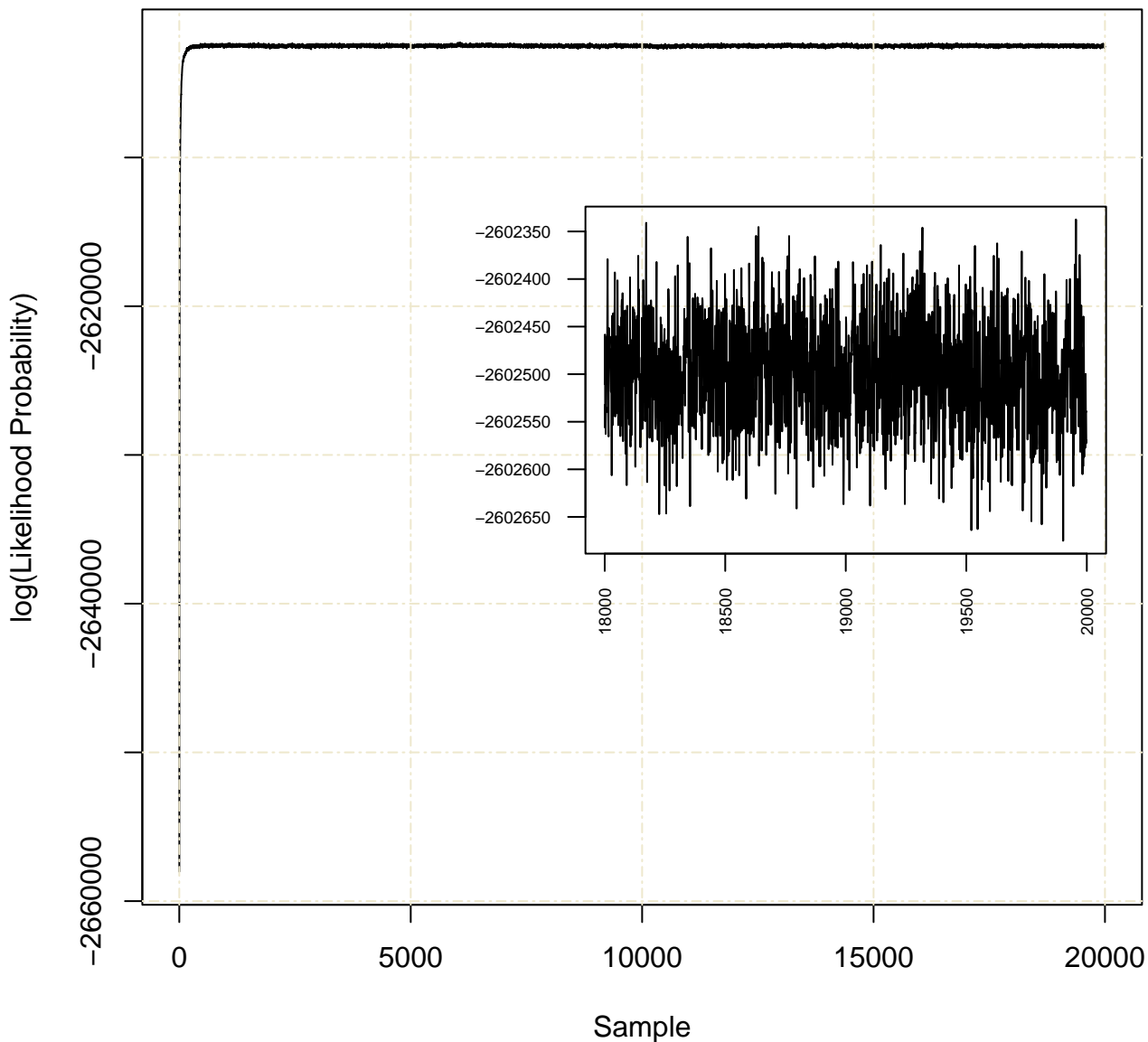


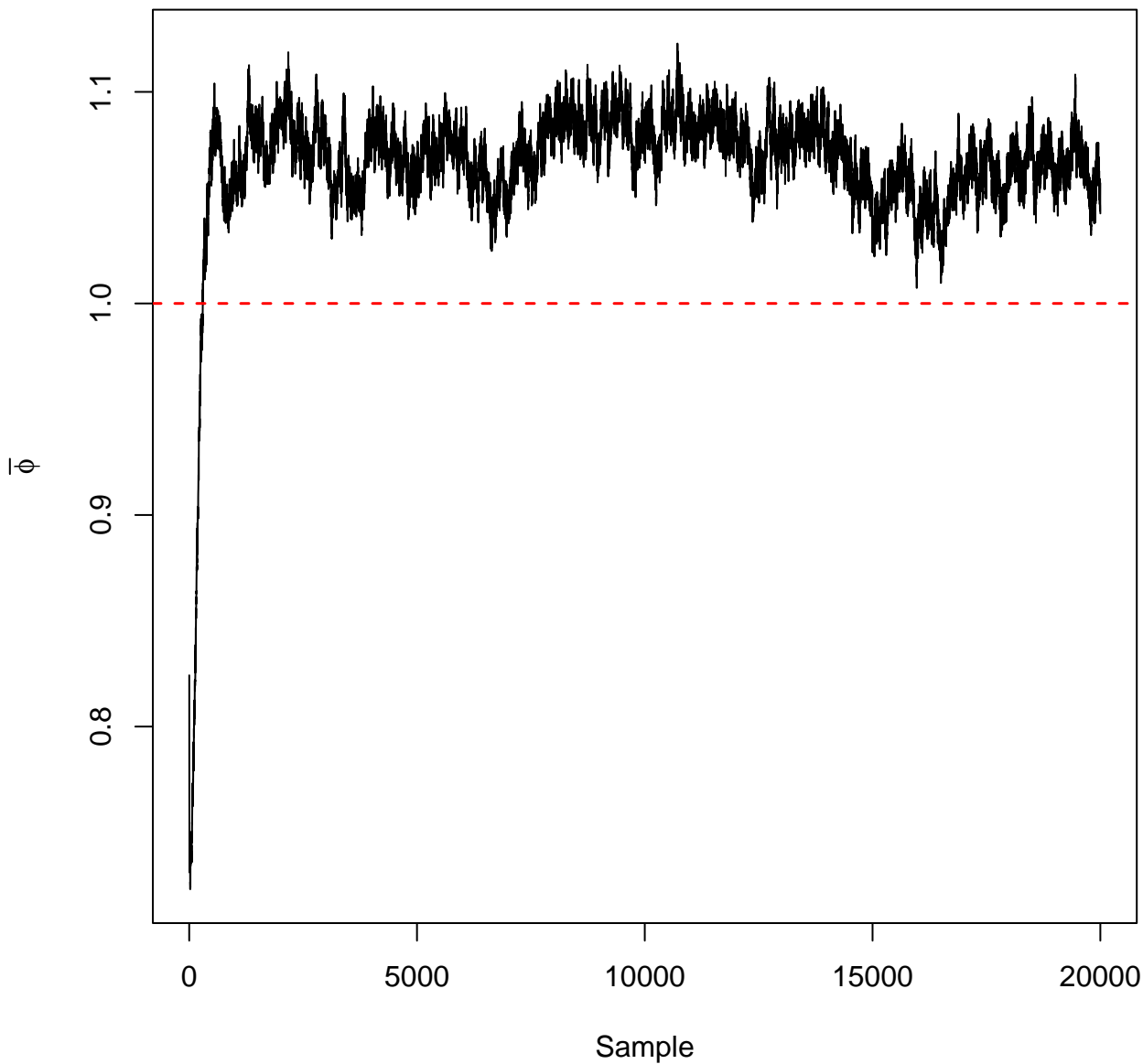
**log(Posterior Probability): -2608711.18120379**



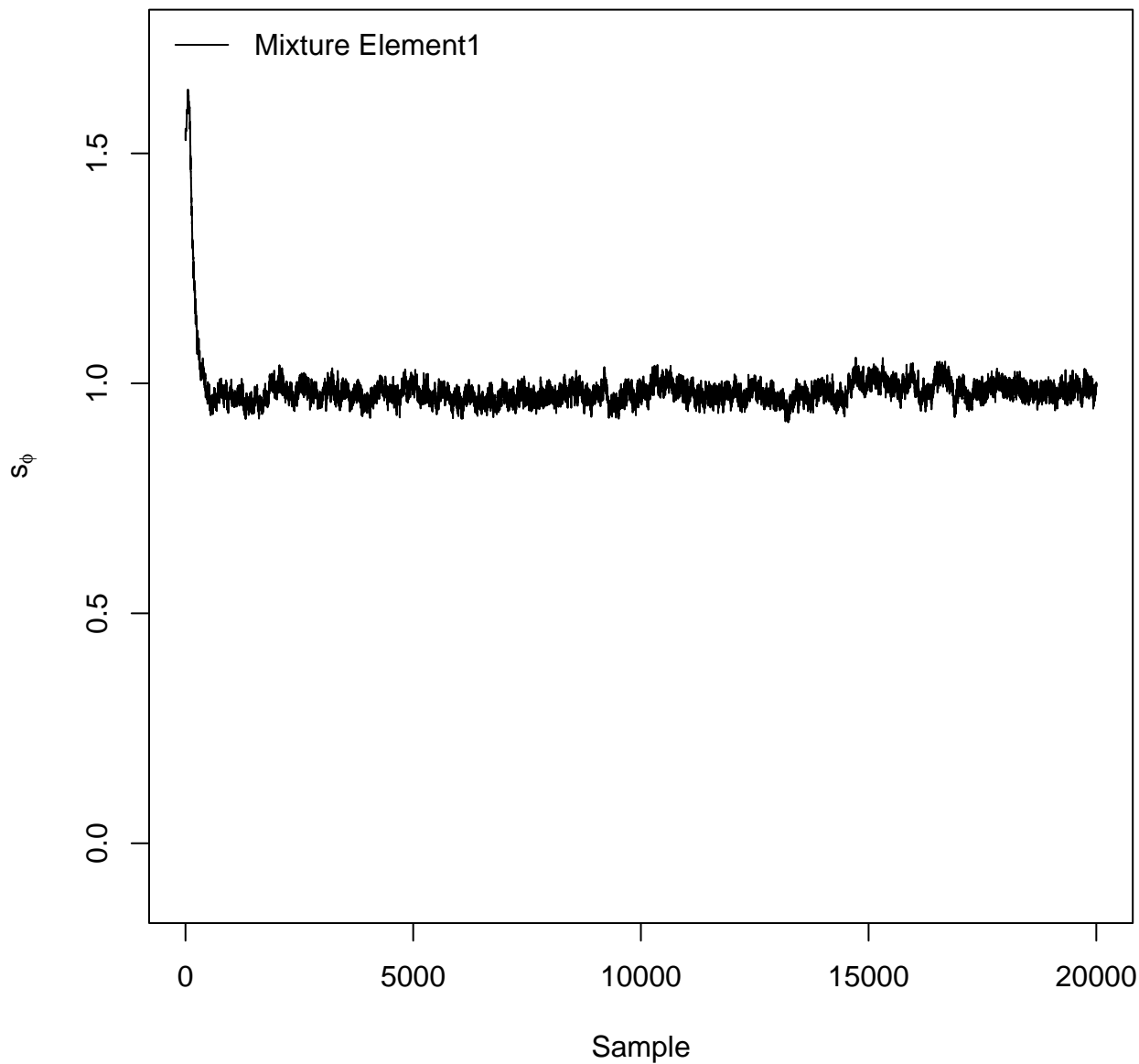
**log(Likelihood Probability): -2602497.86151303**



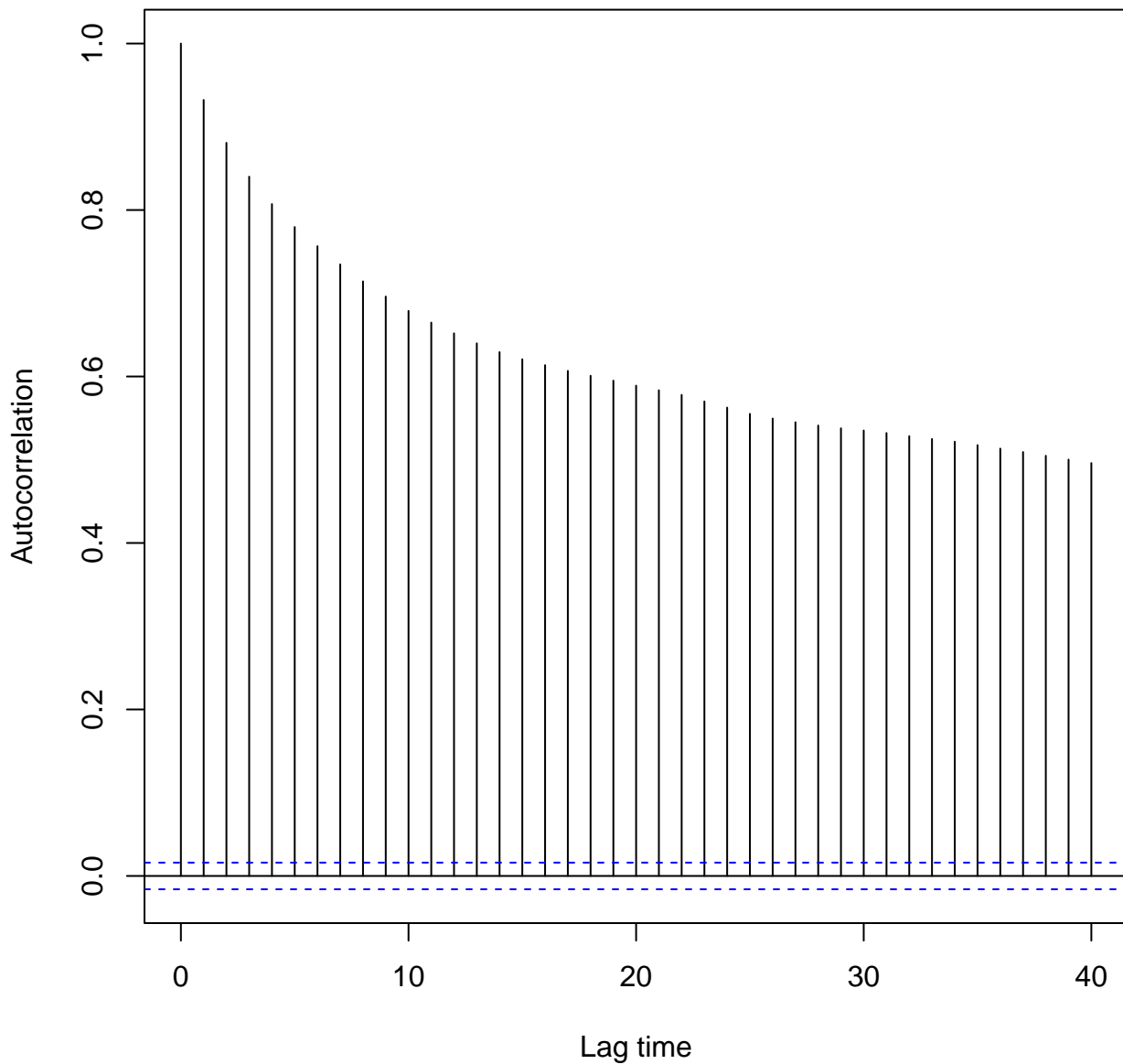
Trace of the Expected value of  $\phi$



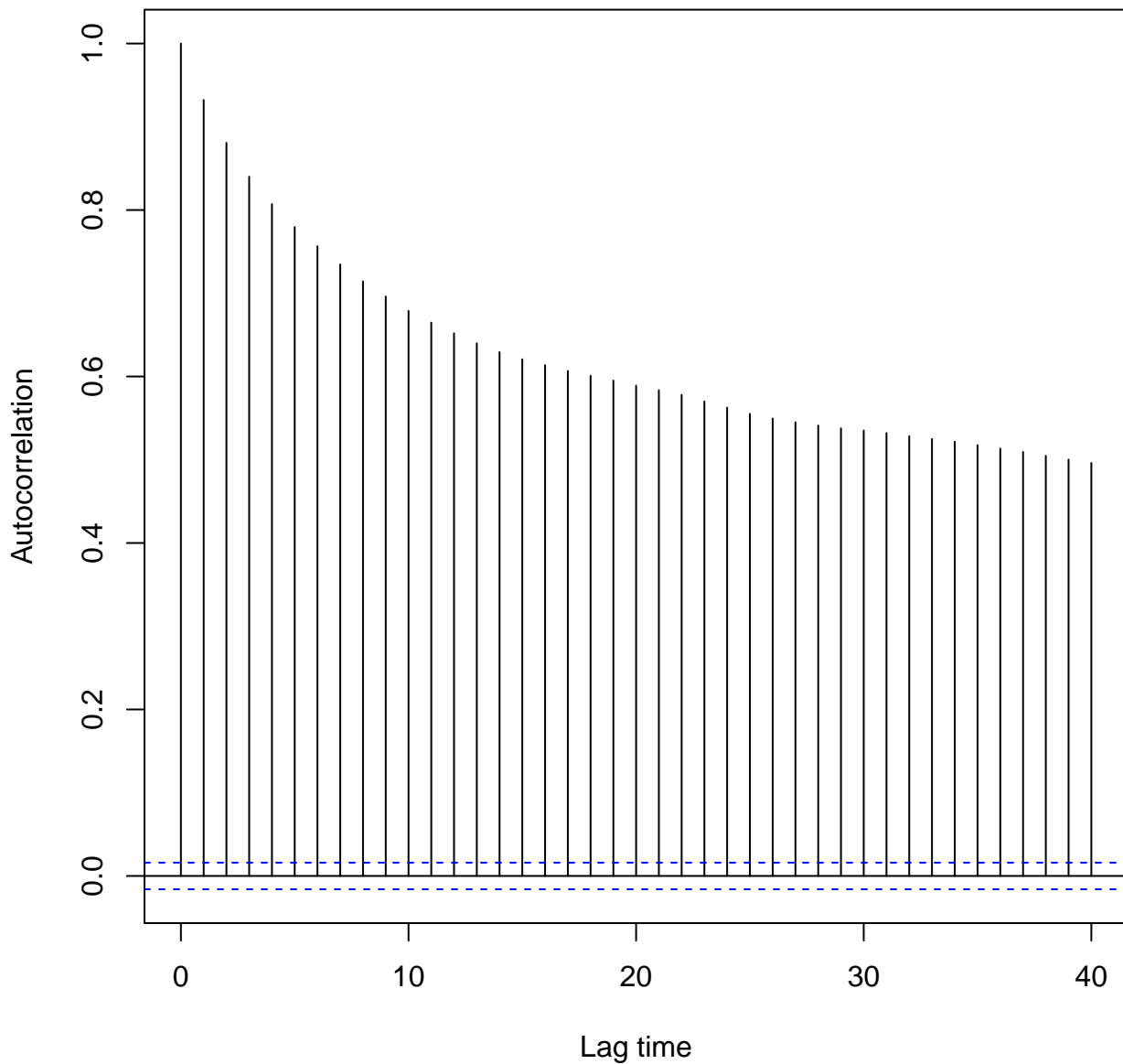
$s_\phi$  Trace



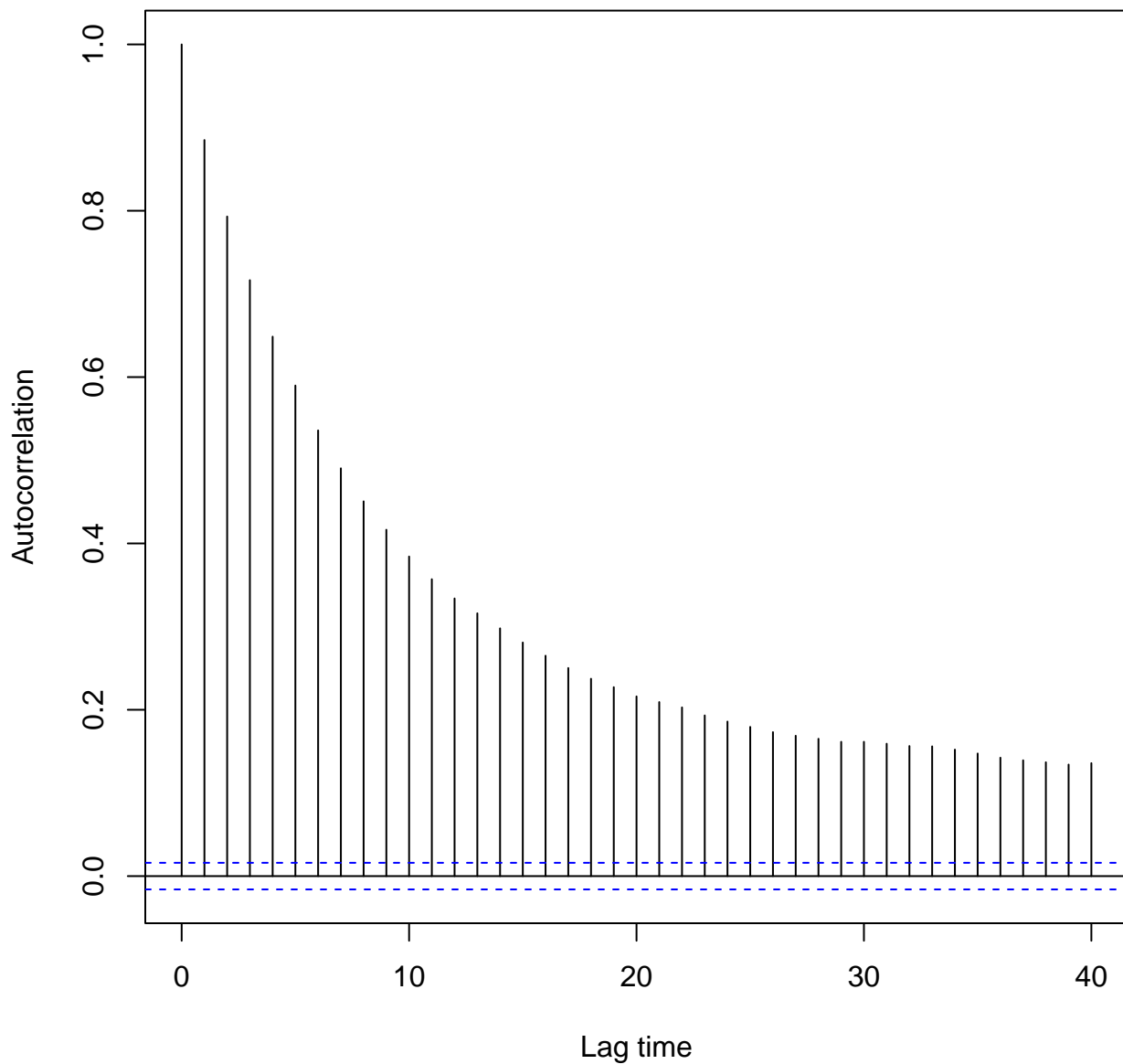
## Selection A GCA Mixture: 1



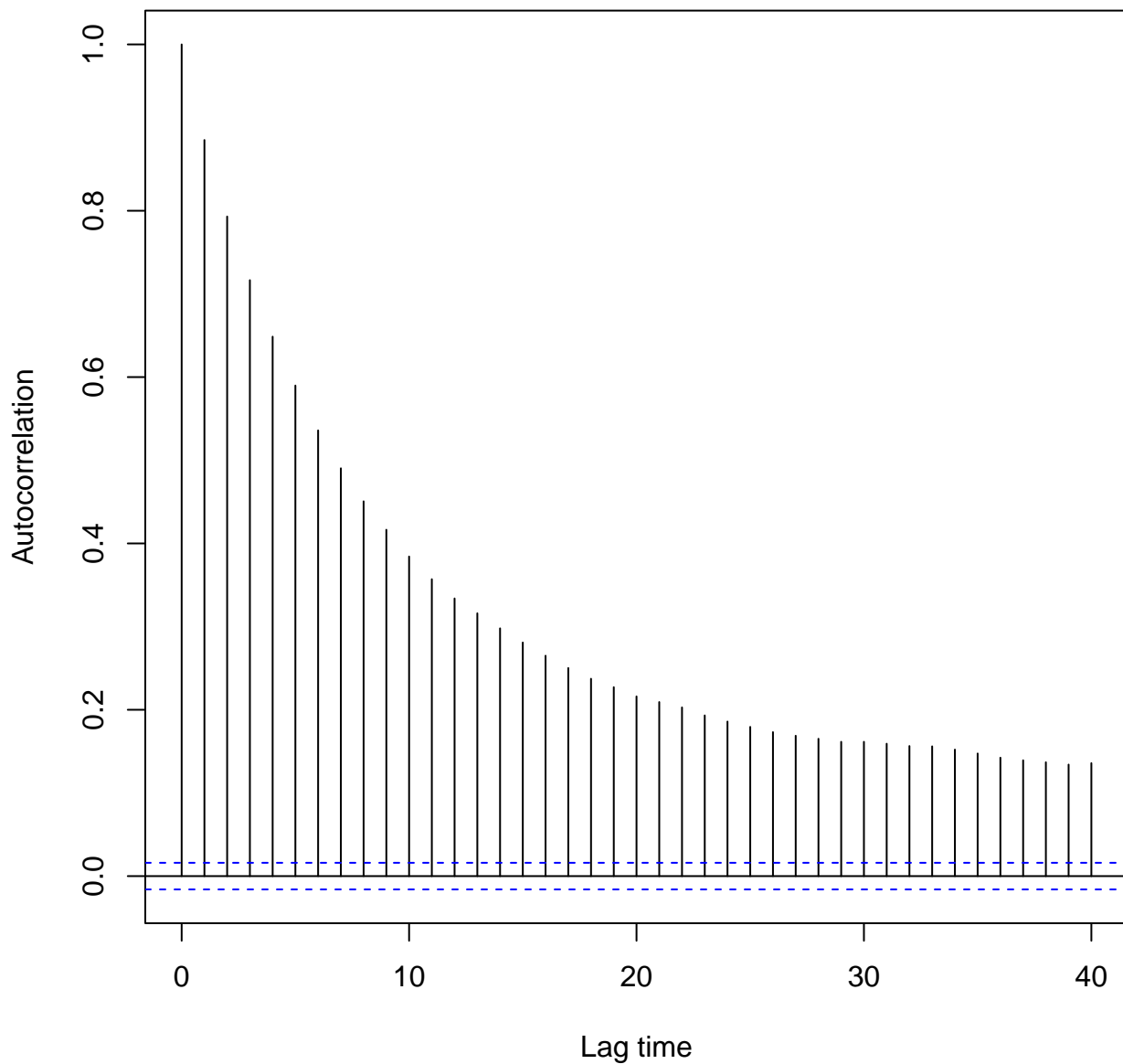
## Selection A GCA Mixture: 2



# Selection A GCC Mixture: 1

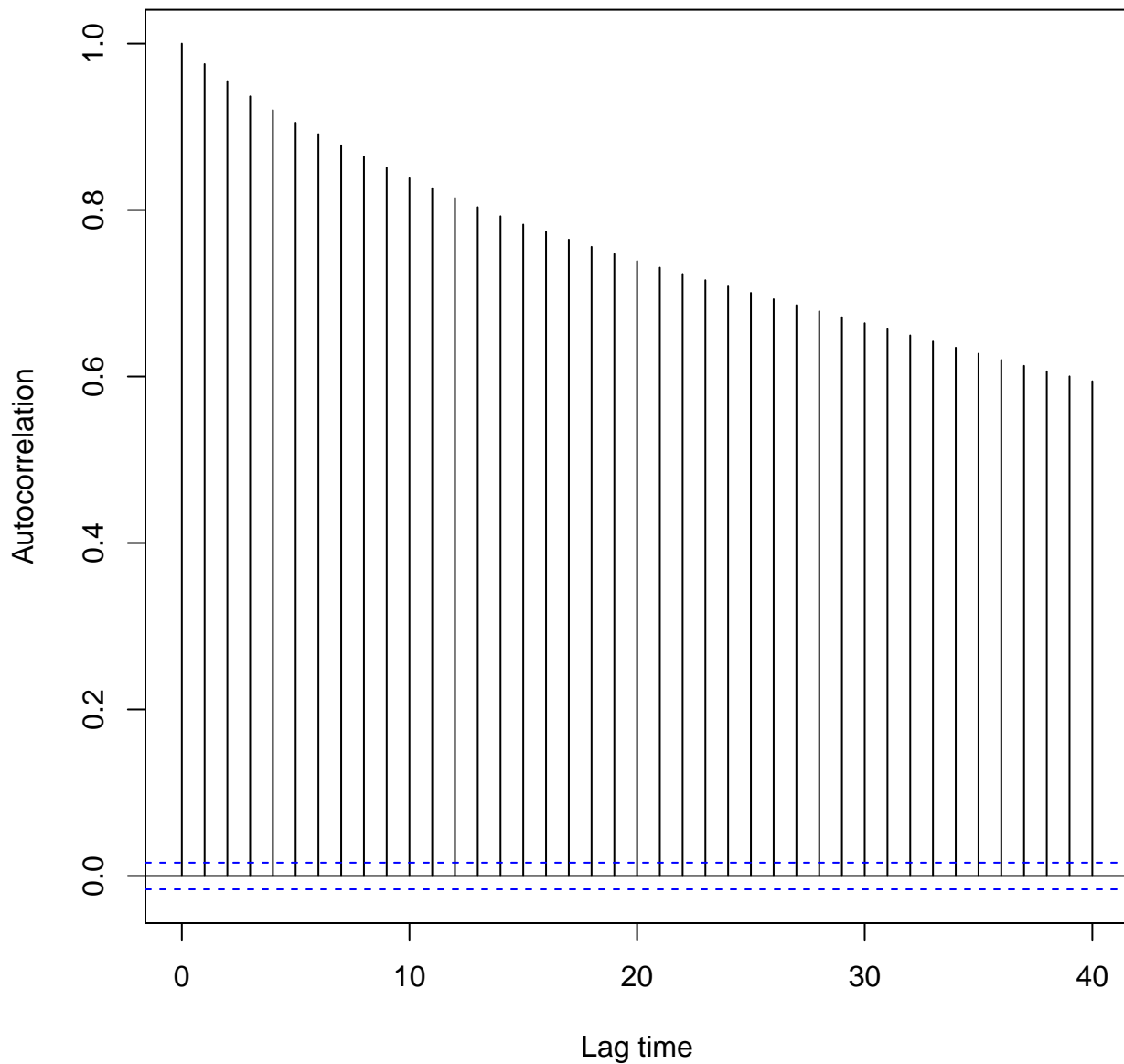


## Selection A GCC Mixture: 2

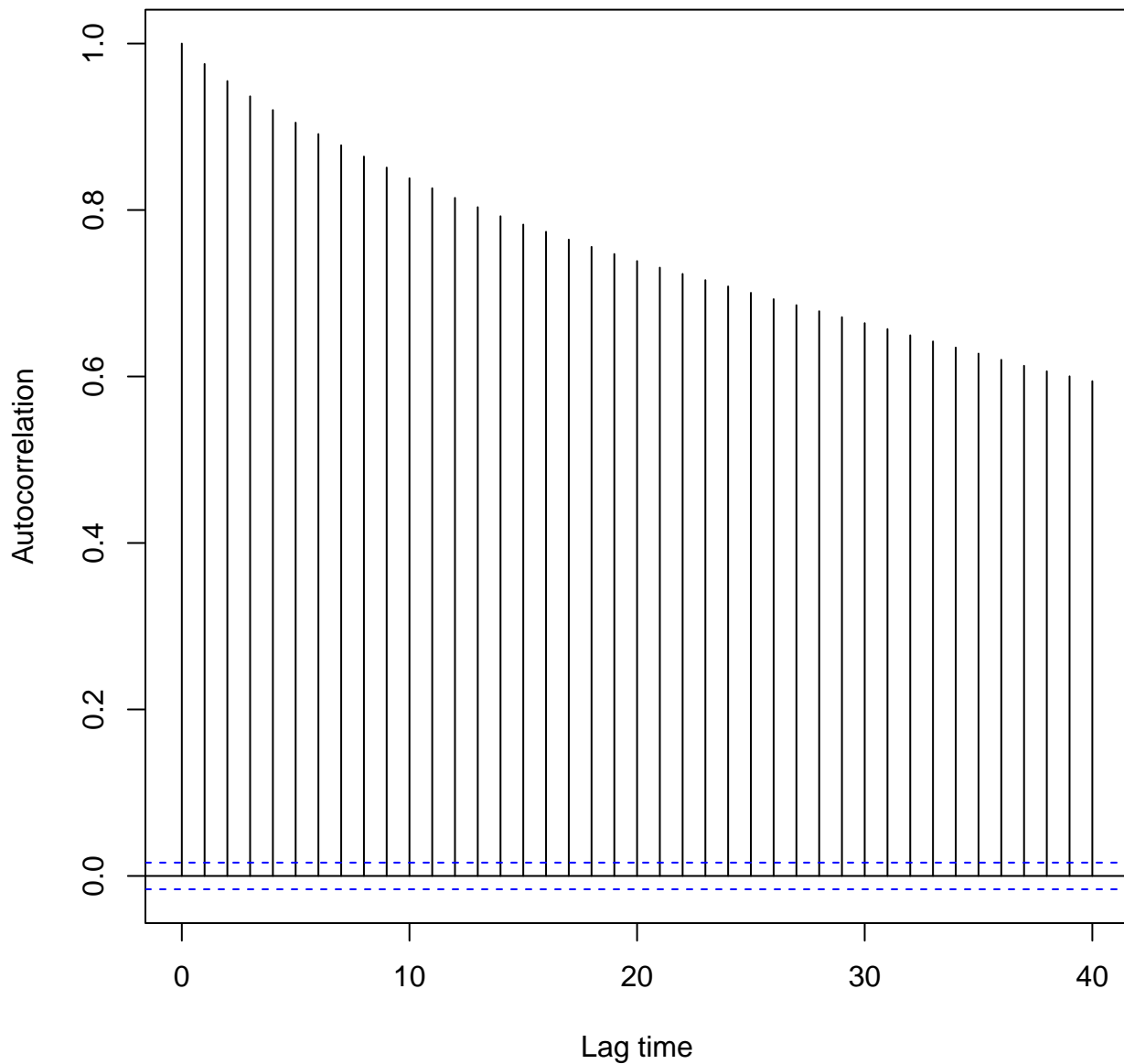




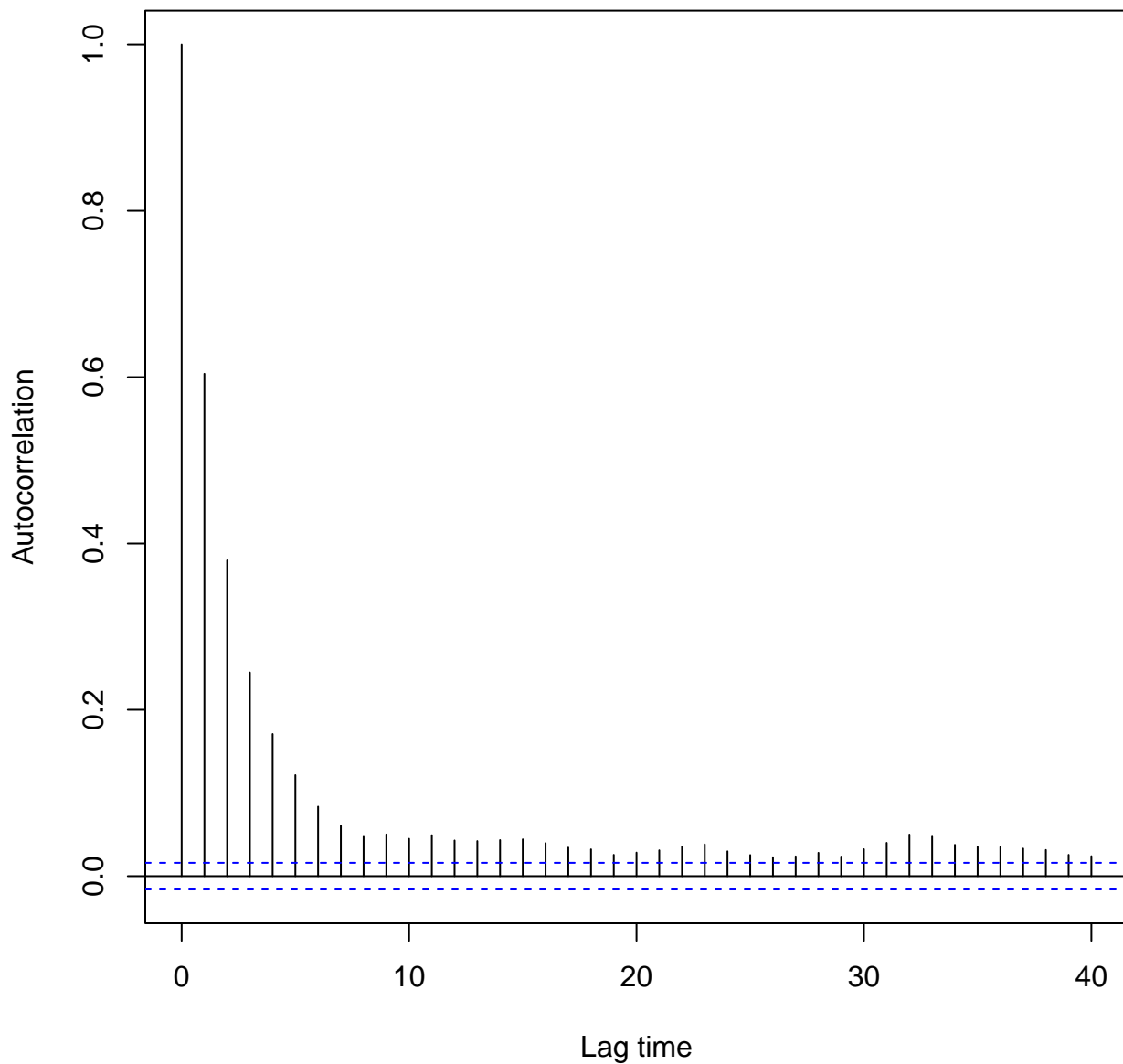
# Selection A GCG Mixture: 1



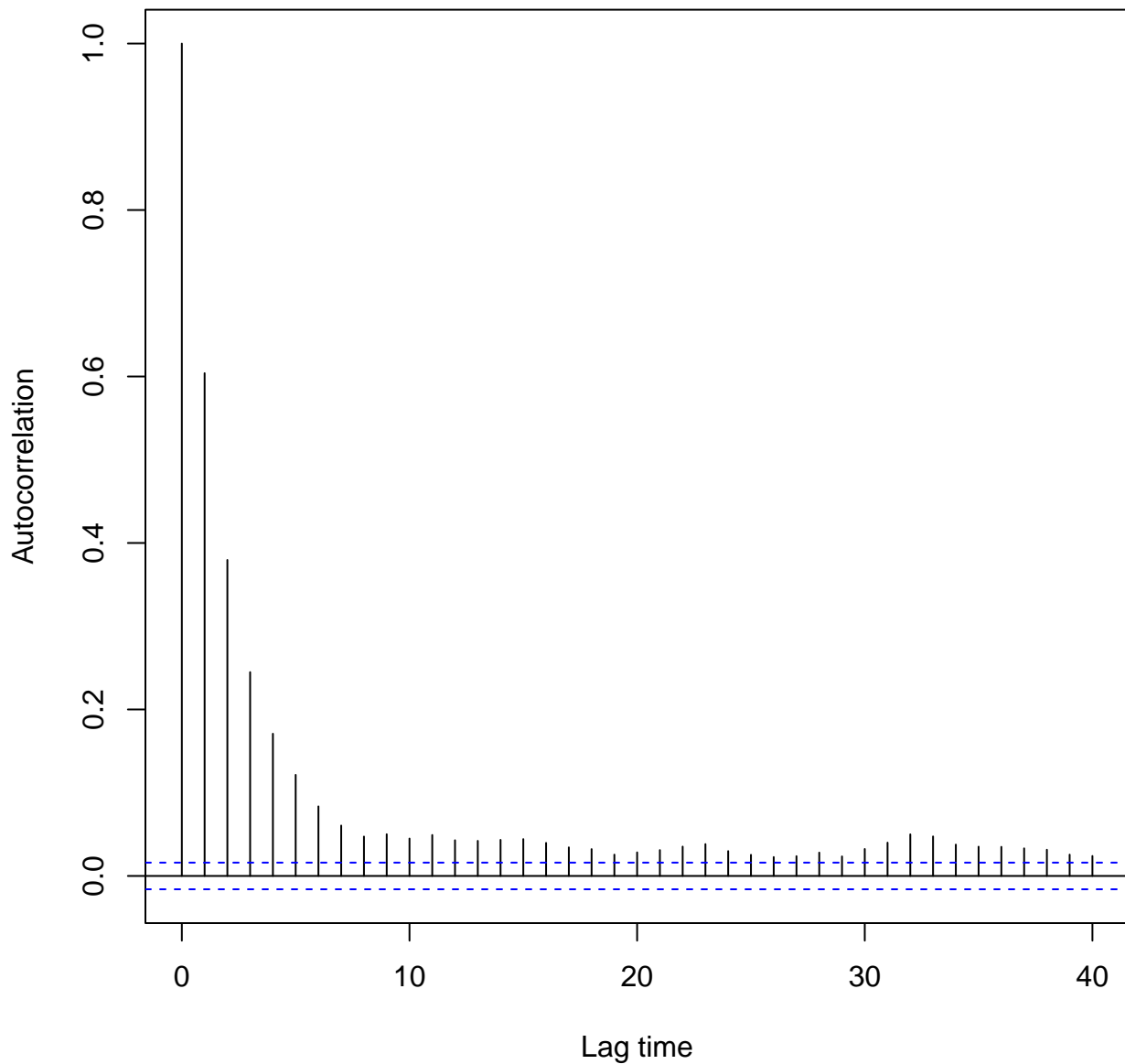
## Selection A GCG Mixture: 2



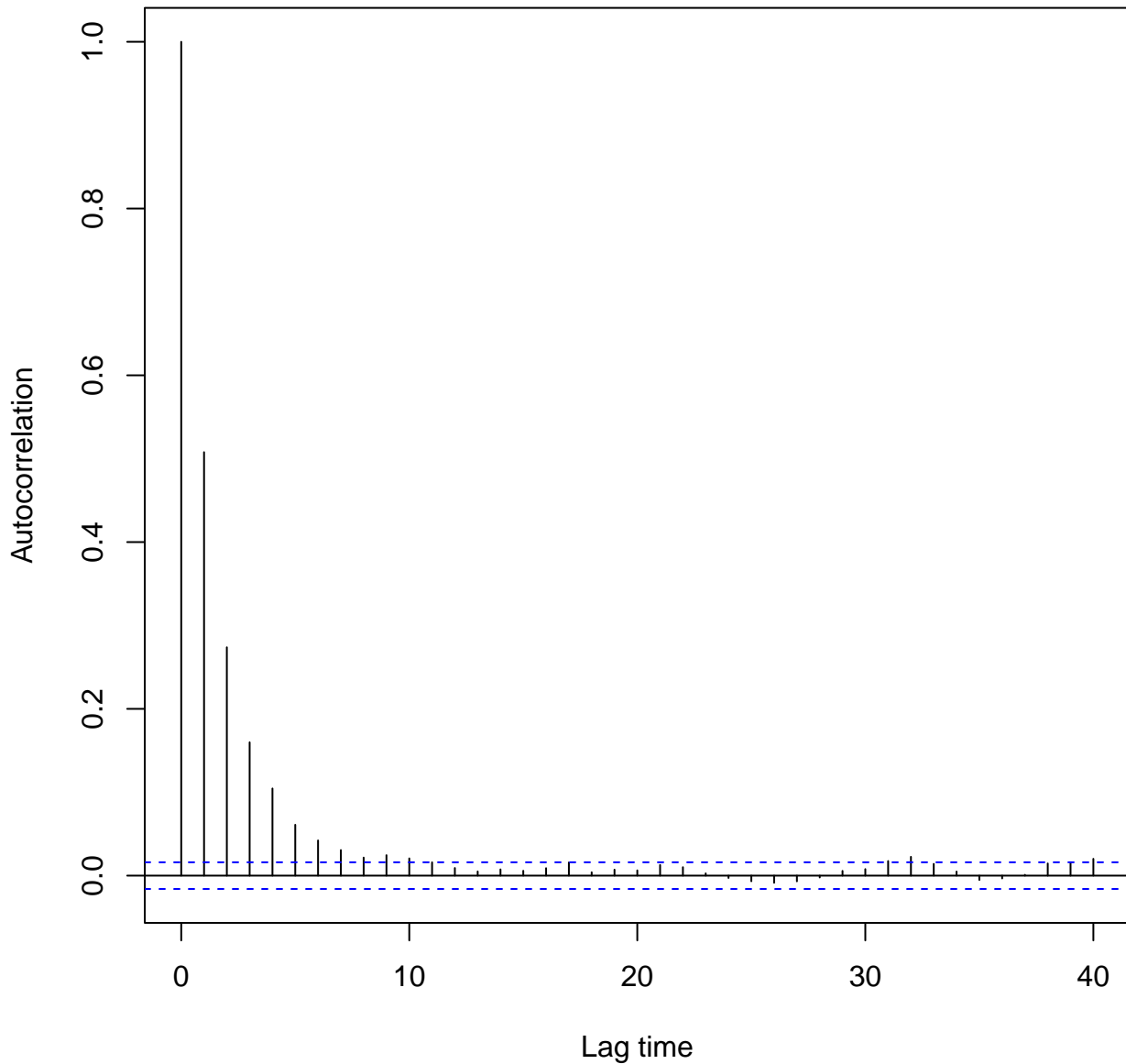
# Selection C TGC Mixture: 1



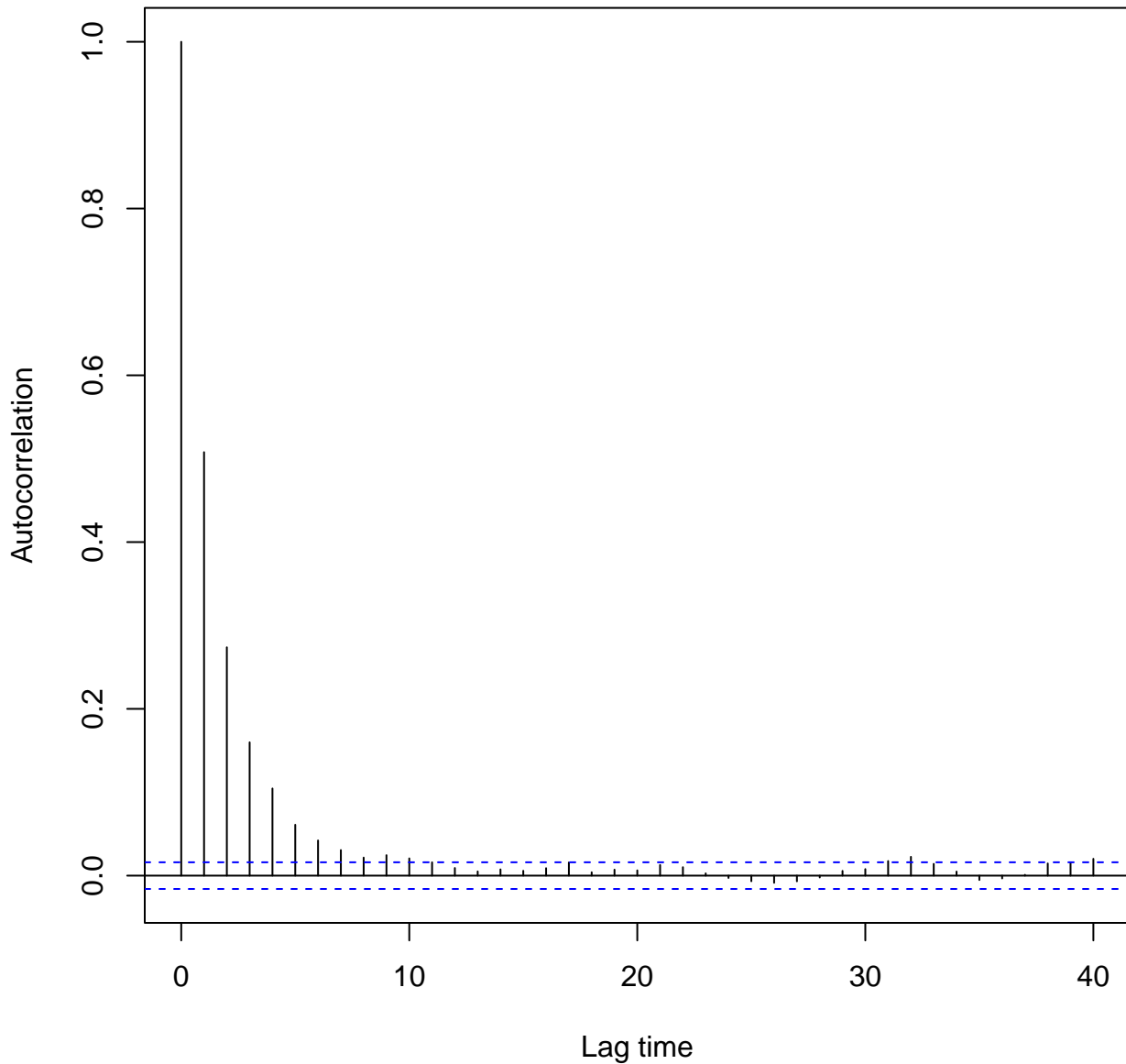
## Selection C TGC Mixture: 2



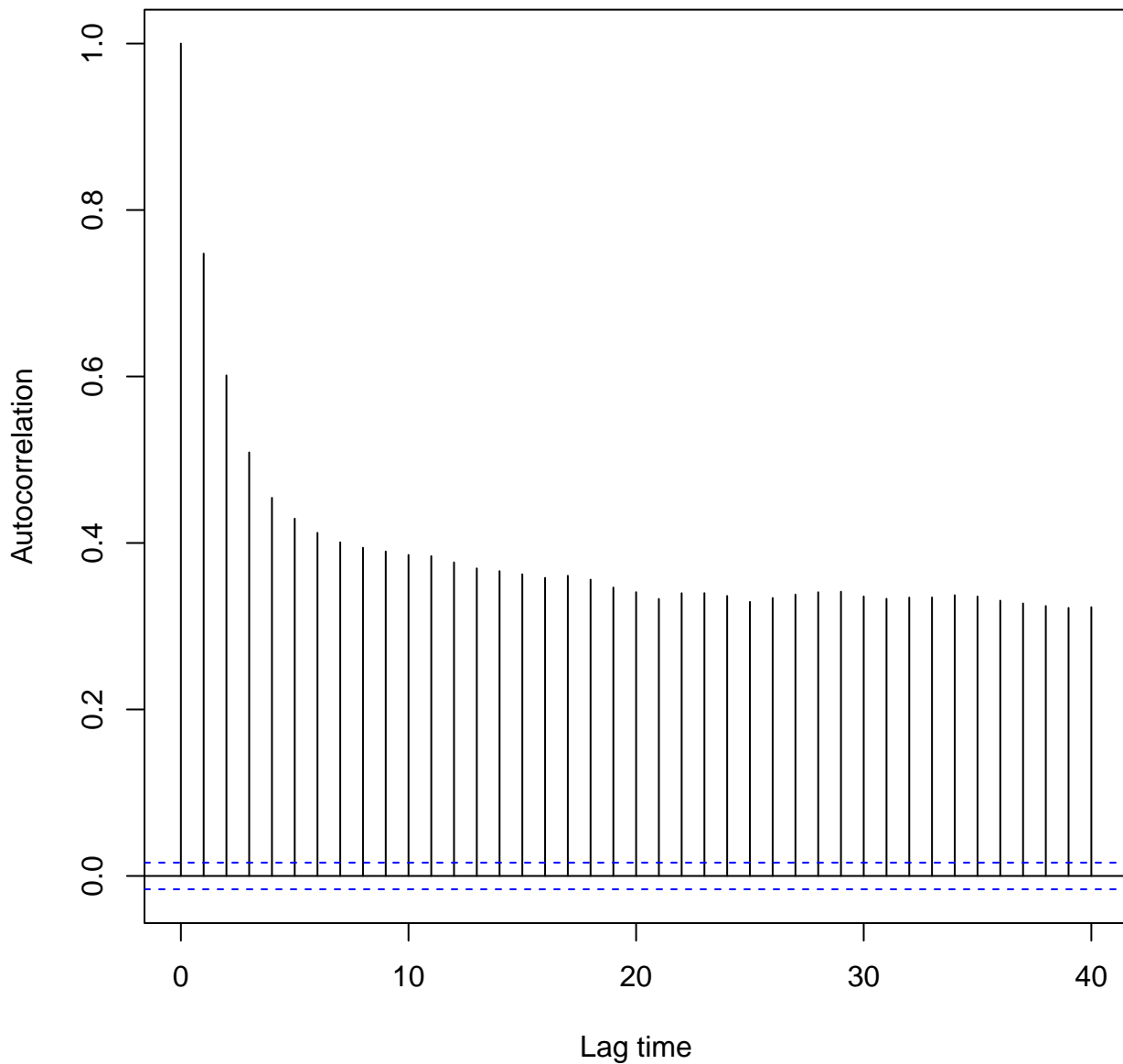
# Selection D GAC Mixture: 1



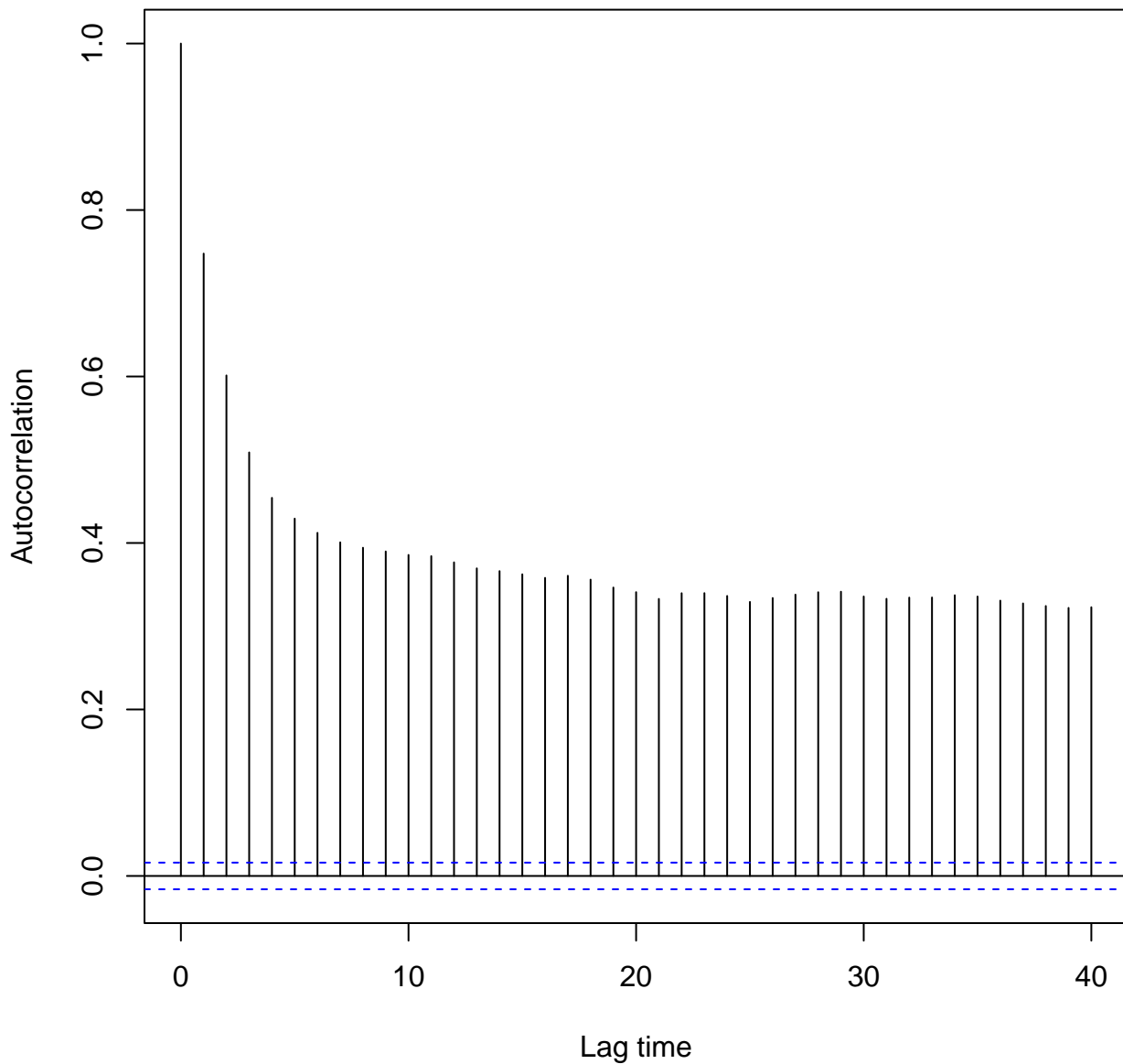
## Selection D GAC Mixture: 2



# Selection E GAA Mixture: 1

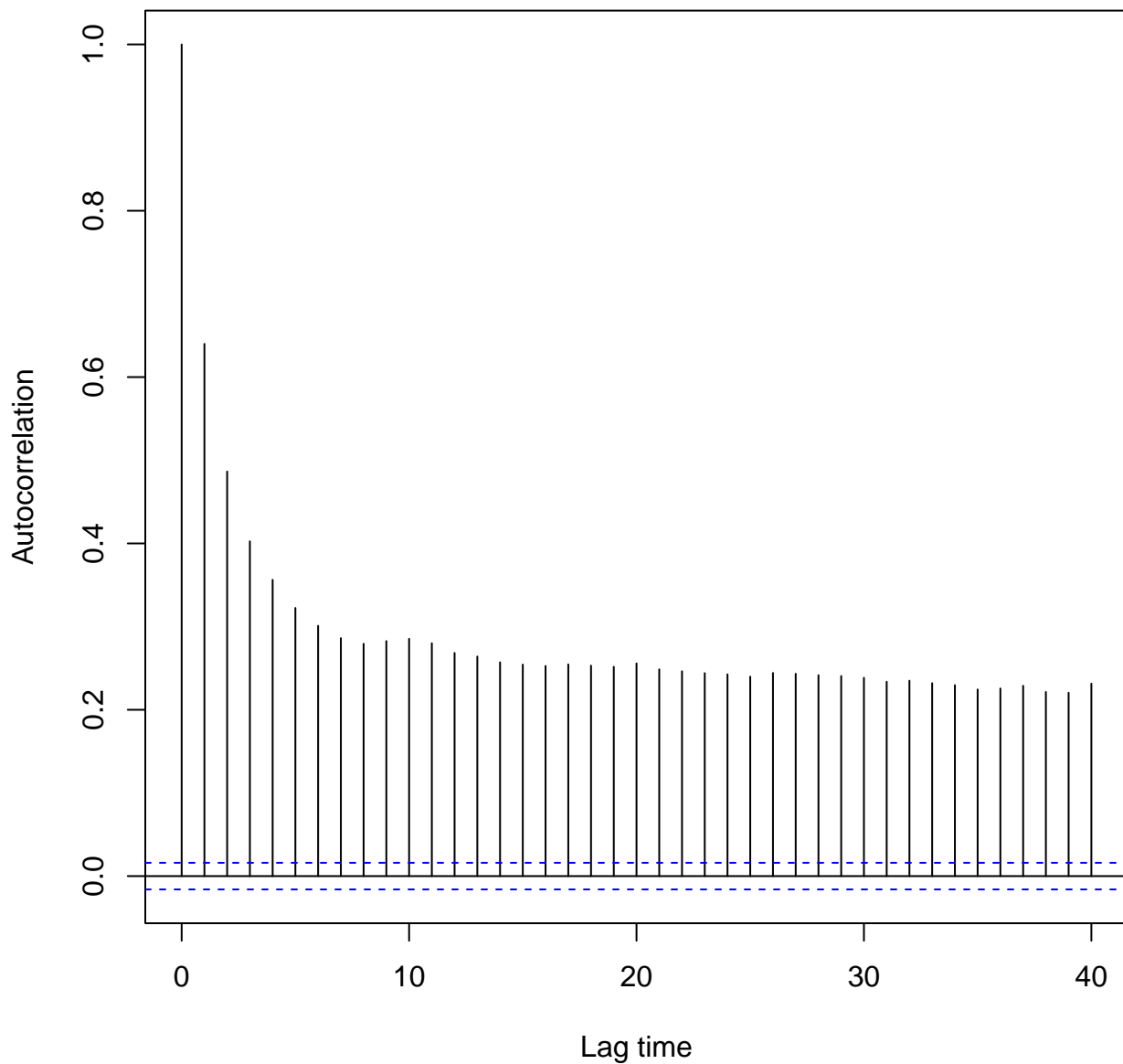


## Selection E GAA Mixture: 2

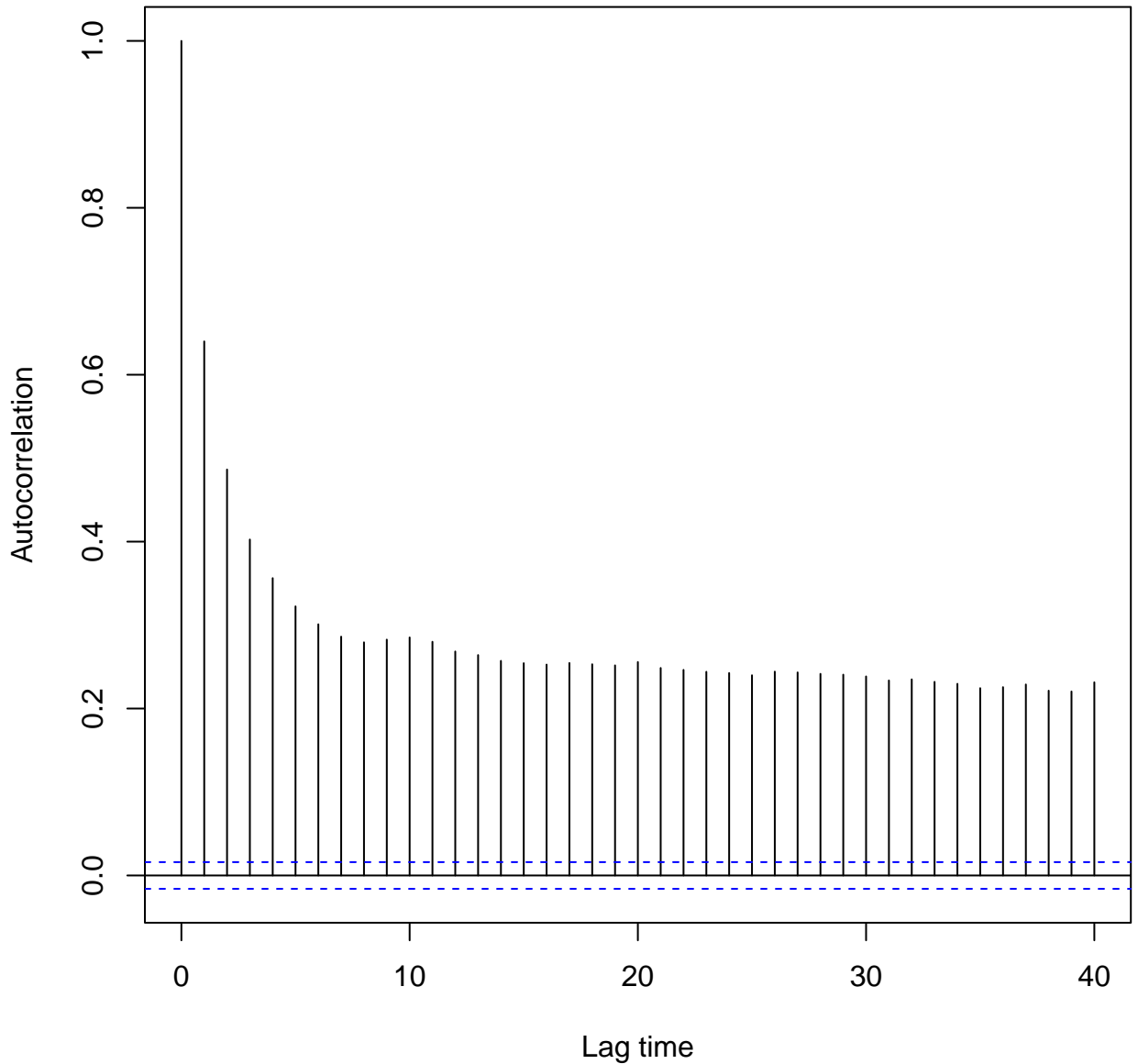




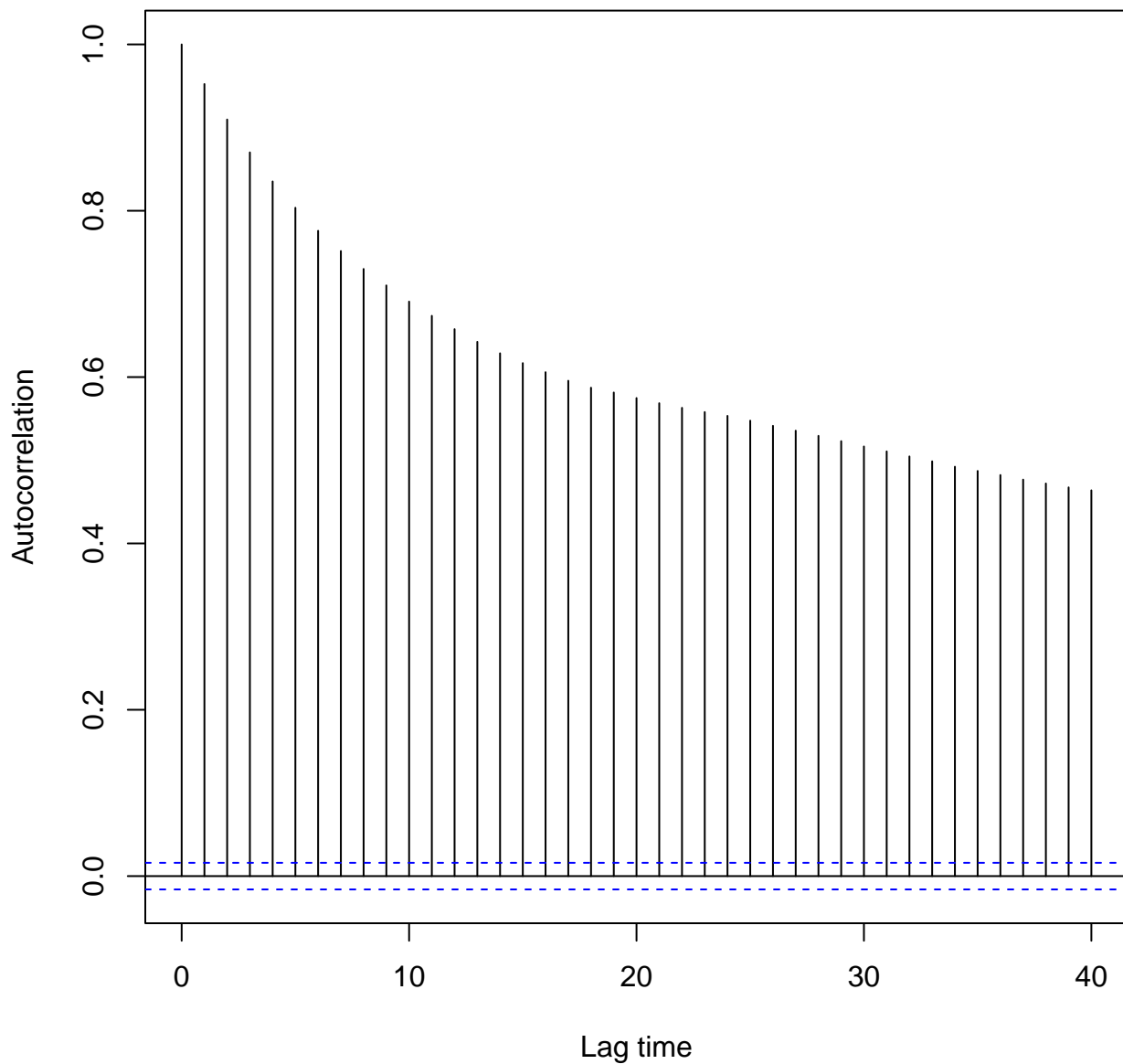
# Selection F TTC Mixture: 1



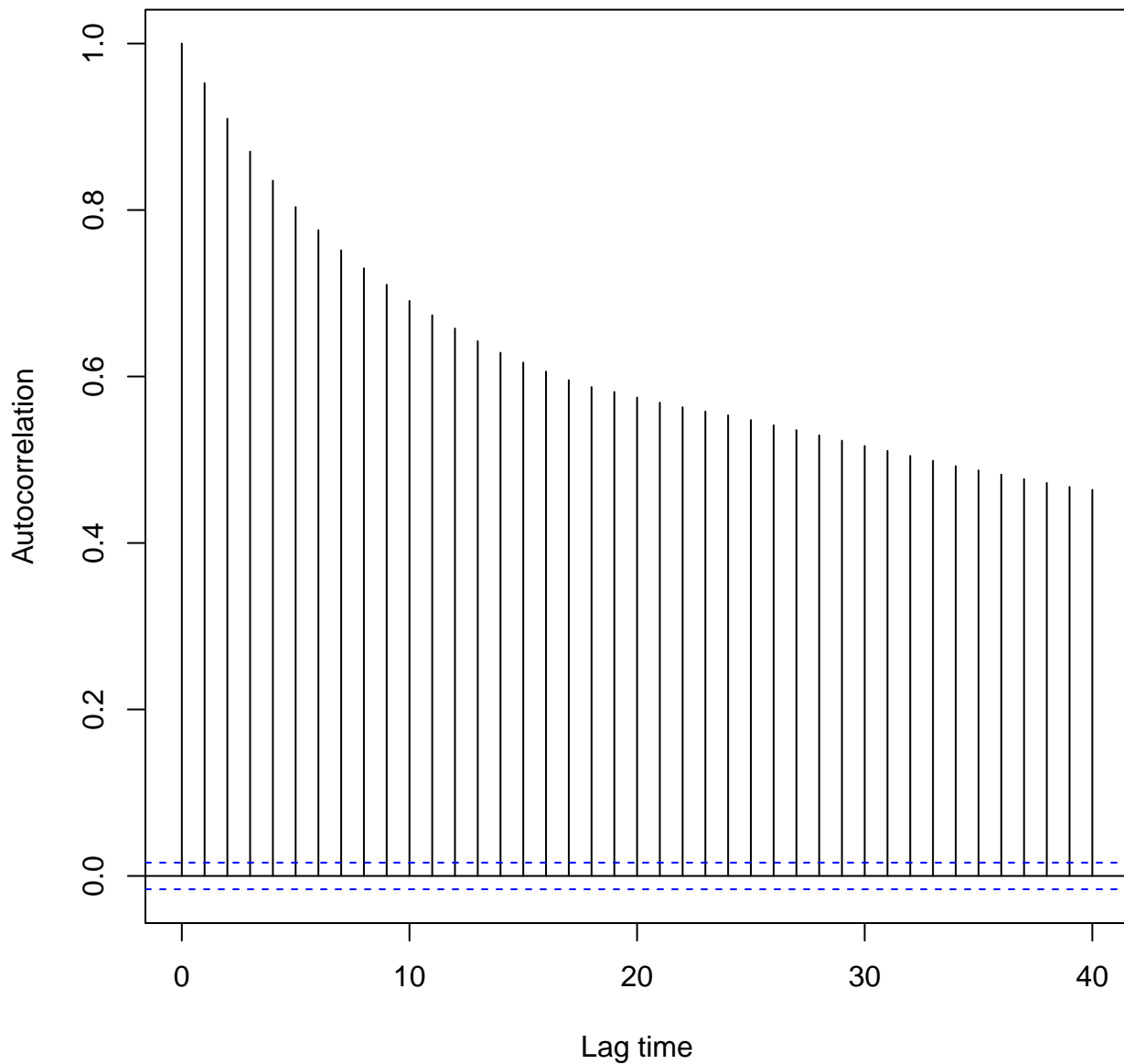
## Selection F TTC Mixture: 2



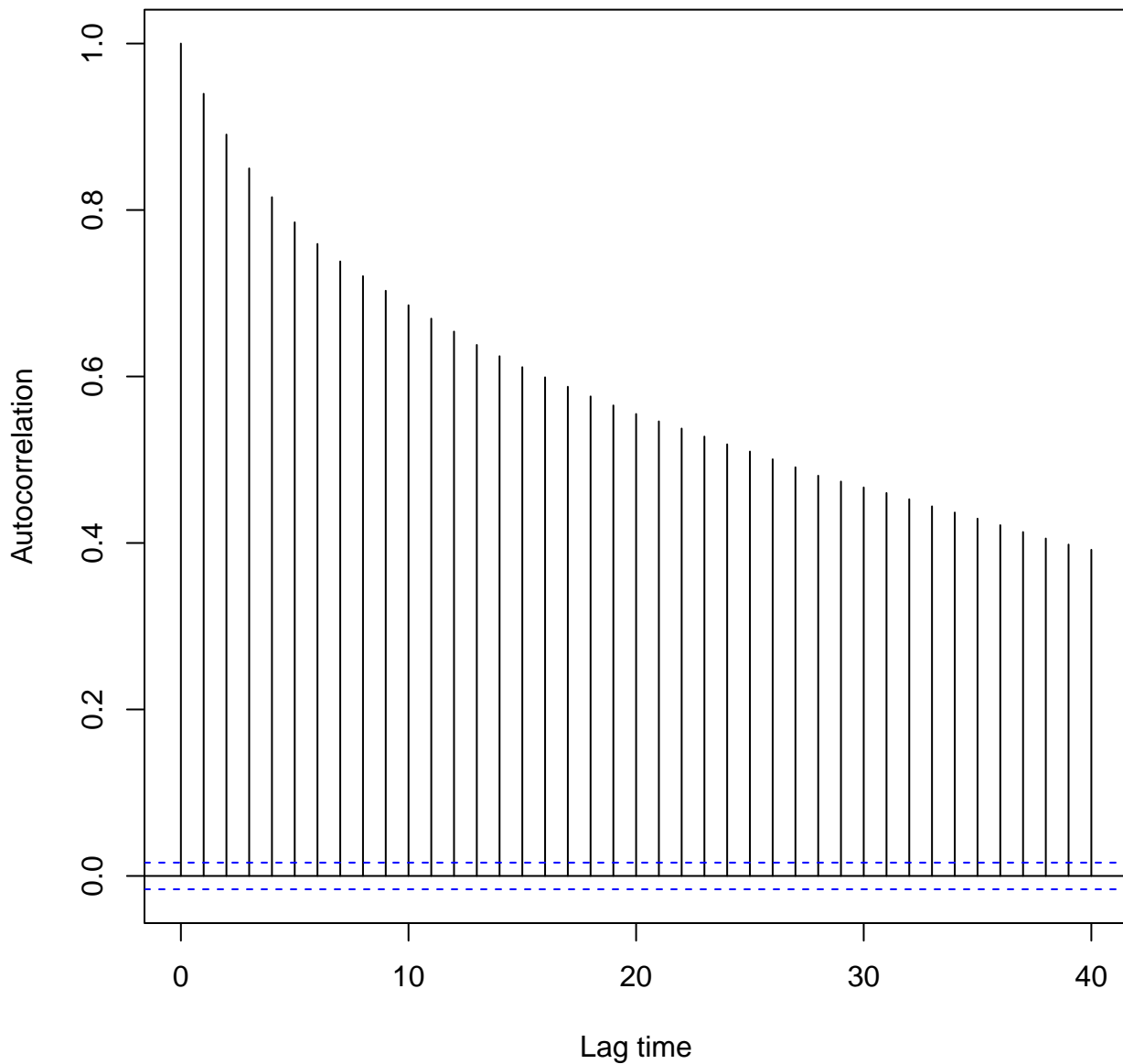
# Selection G GGA Mixture: 1



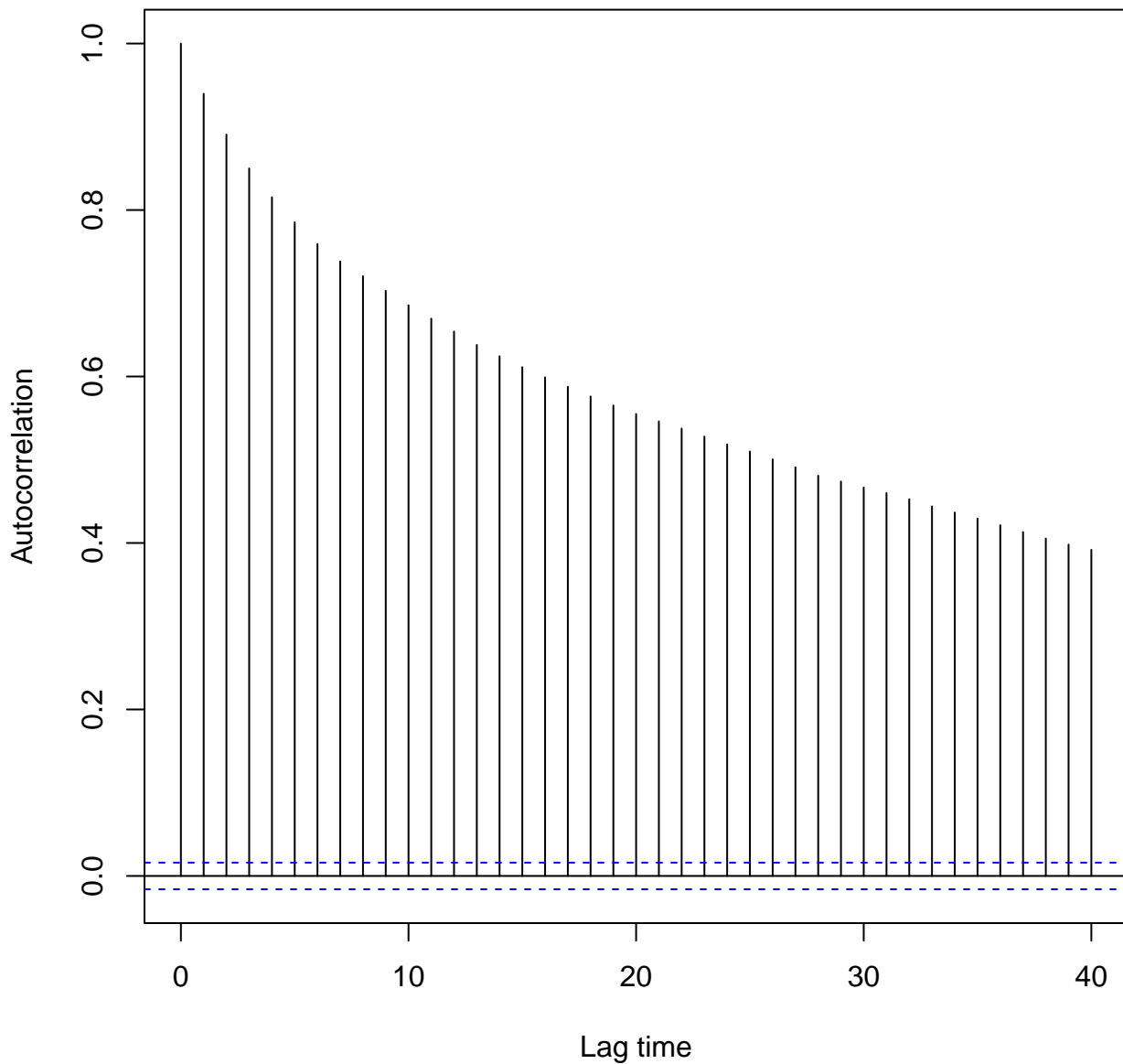
## Selection G GGA Mixture: 2



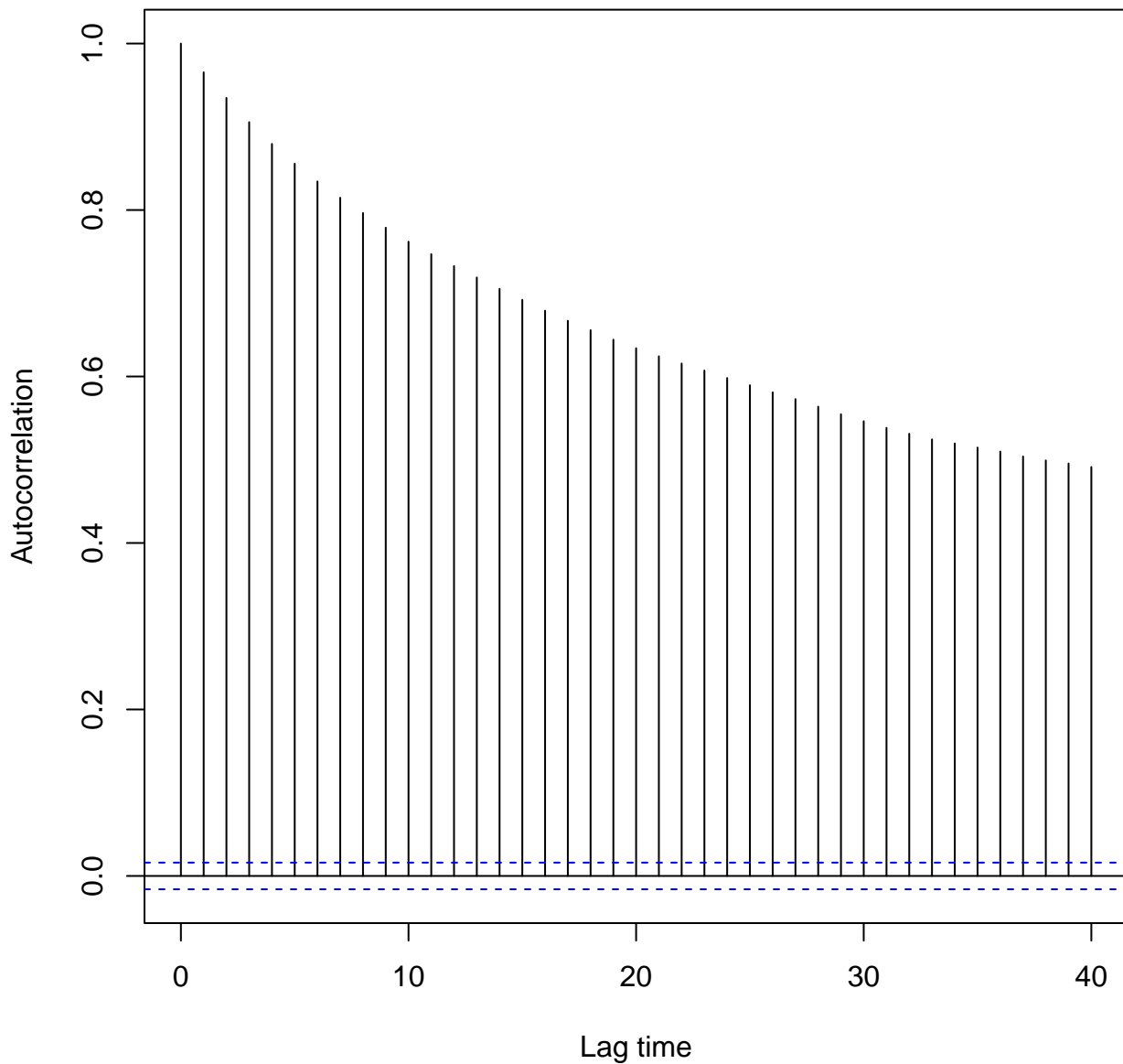
# Selection G GGC Mixture: 1



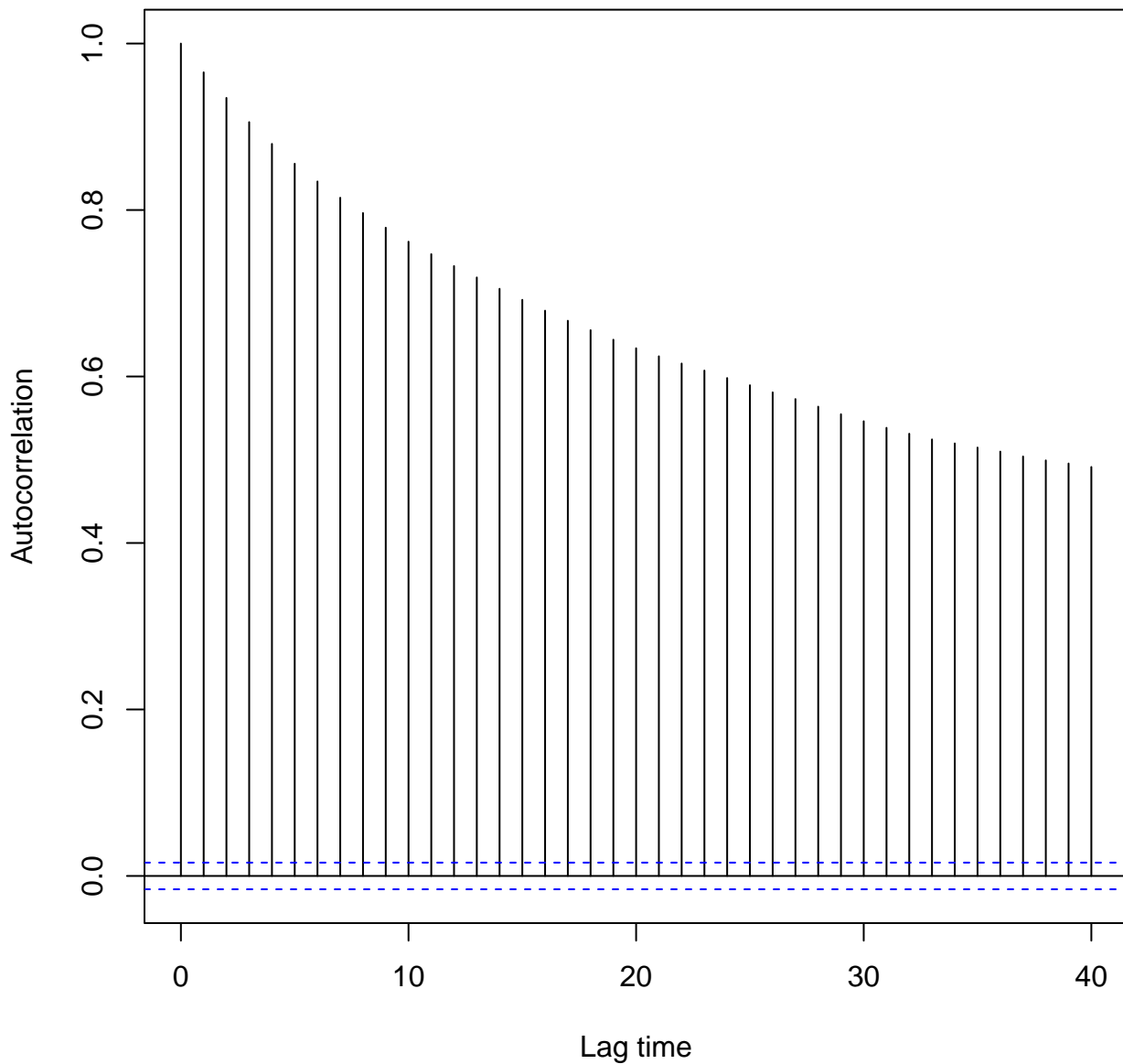
## Selection G GGC Mixture: 2



# Selection G GGG Mixture: 1

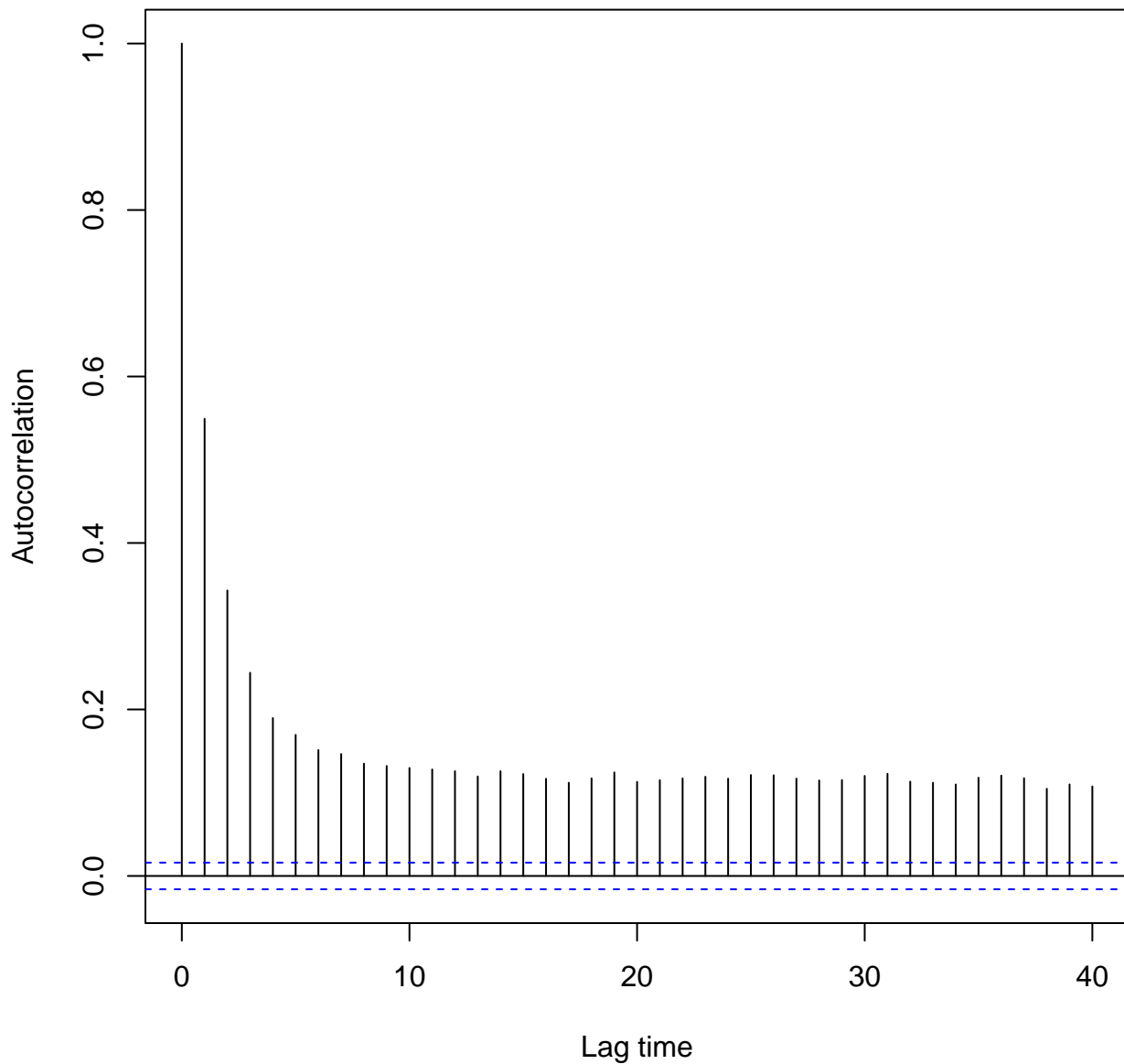


## Selection G GGG Mixture: 2

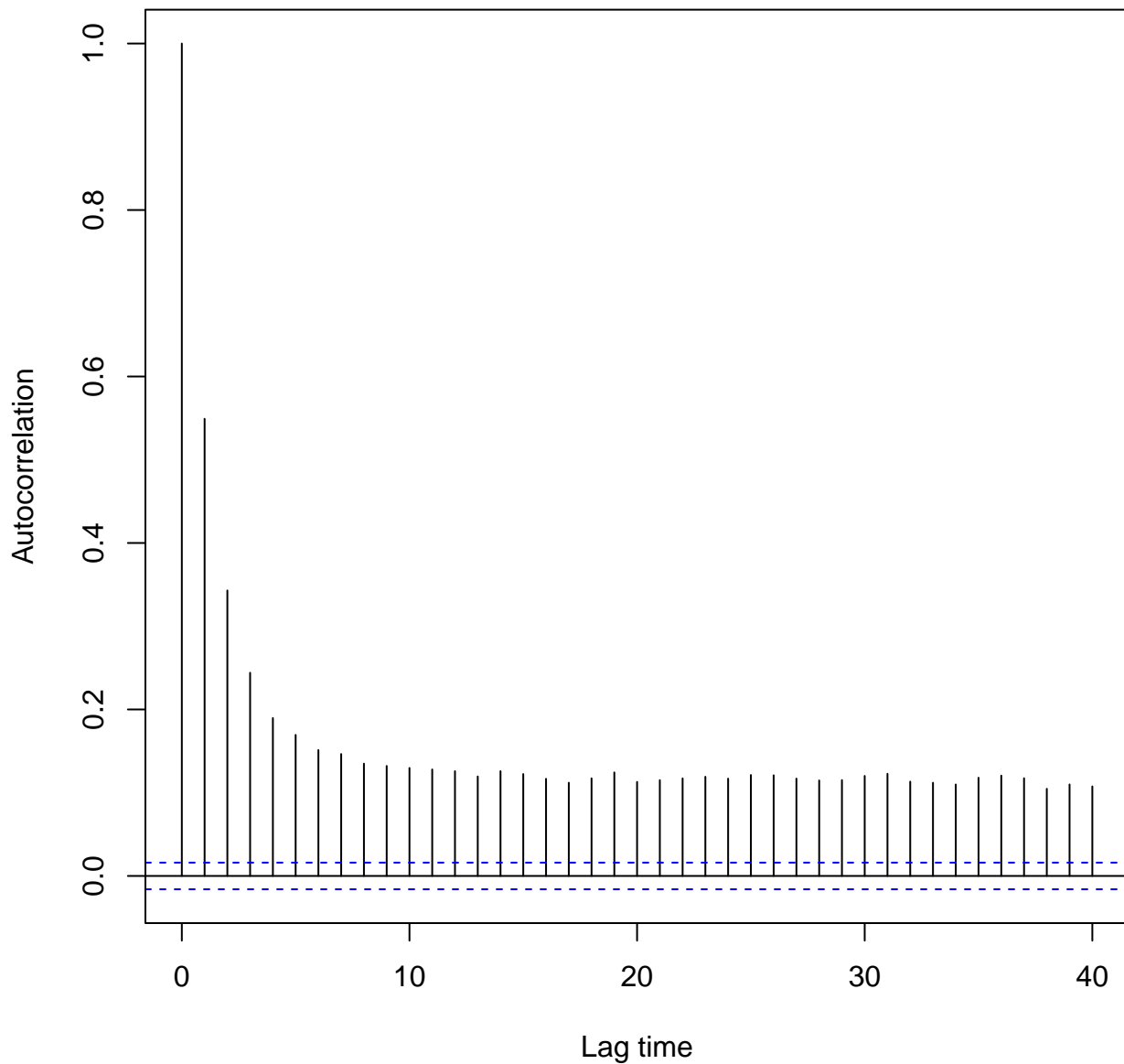




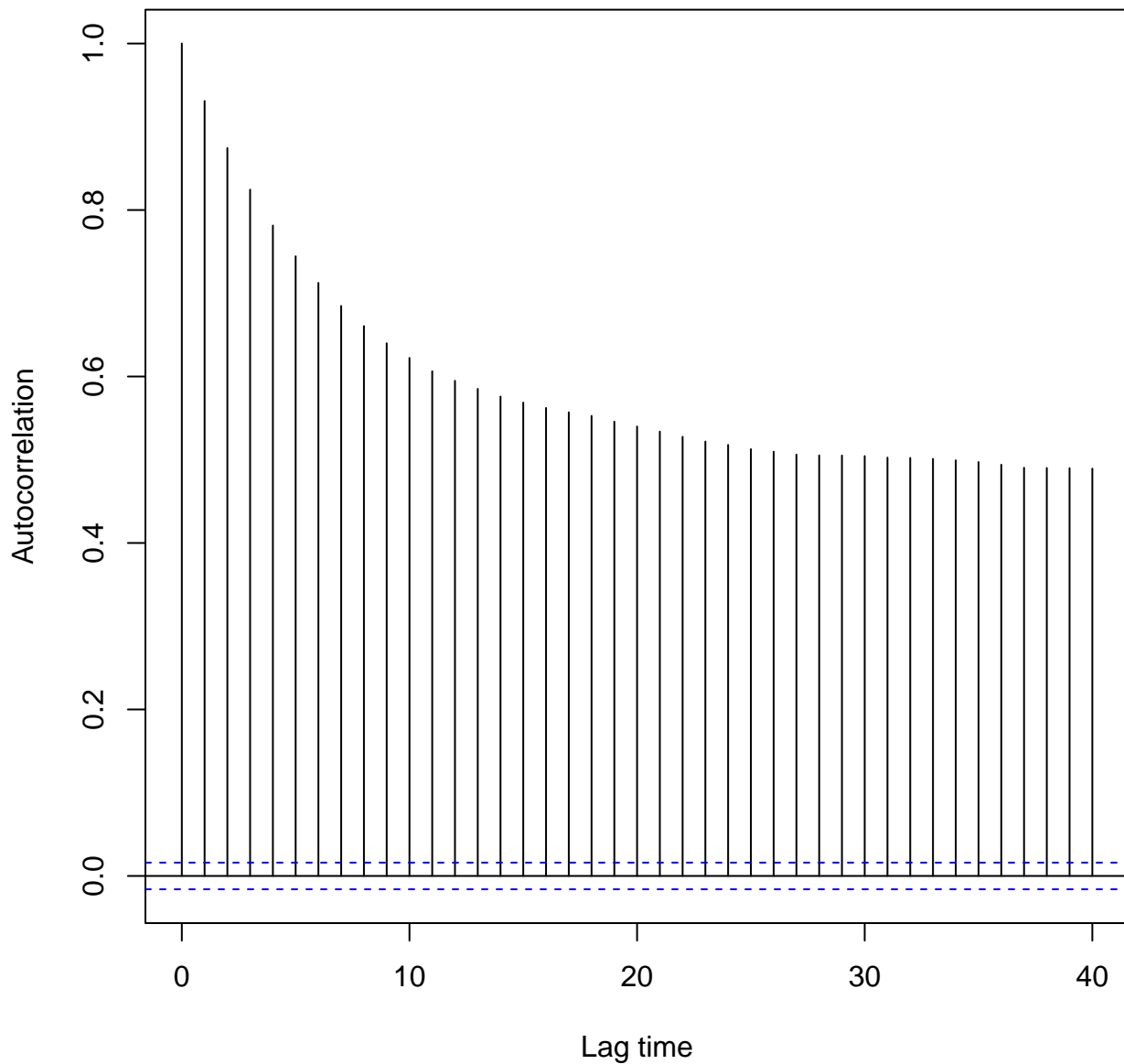
# Selection H CAC Mixture: 1



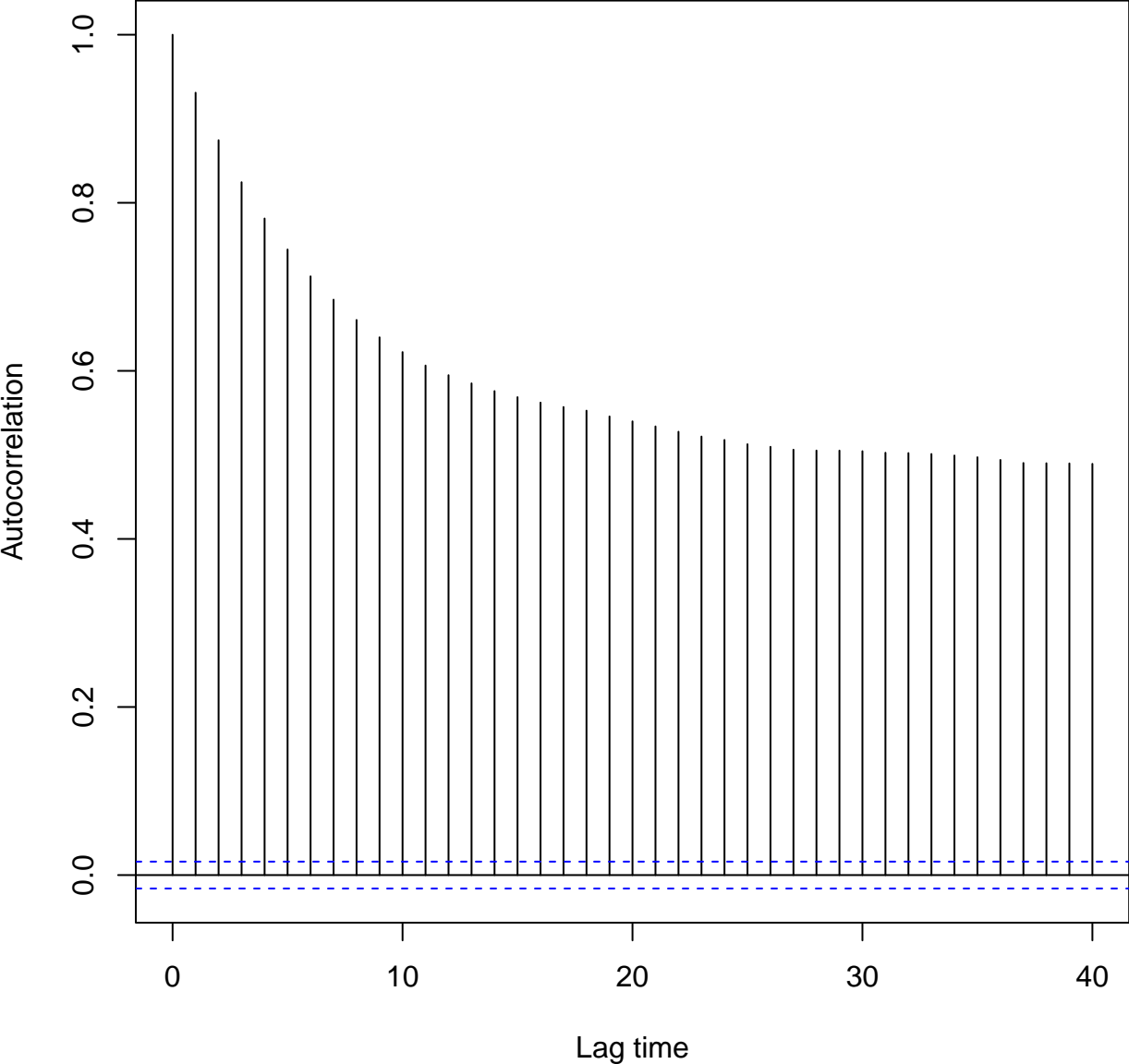
## Selection H CAC Mixture: 2



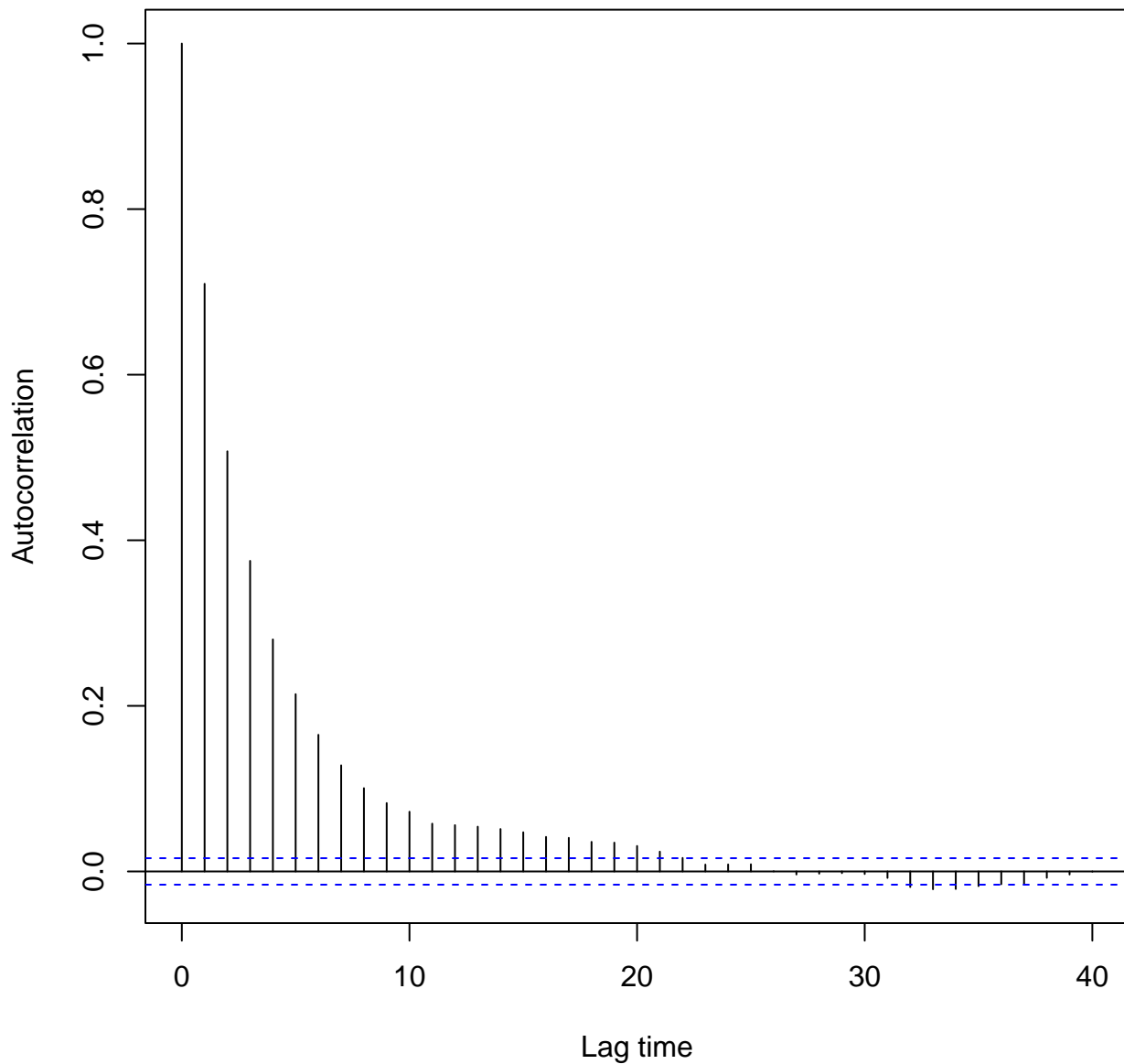
# Selection I ATA Mixture: 1



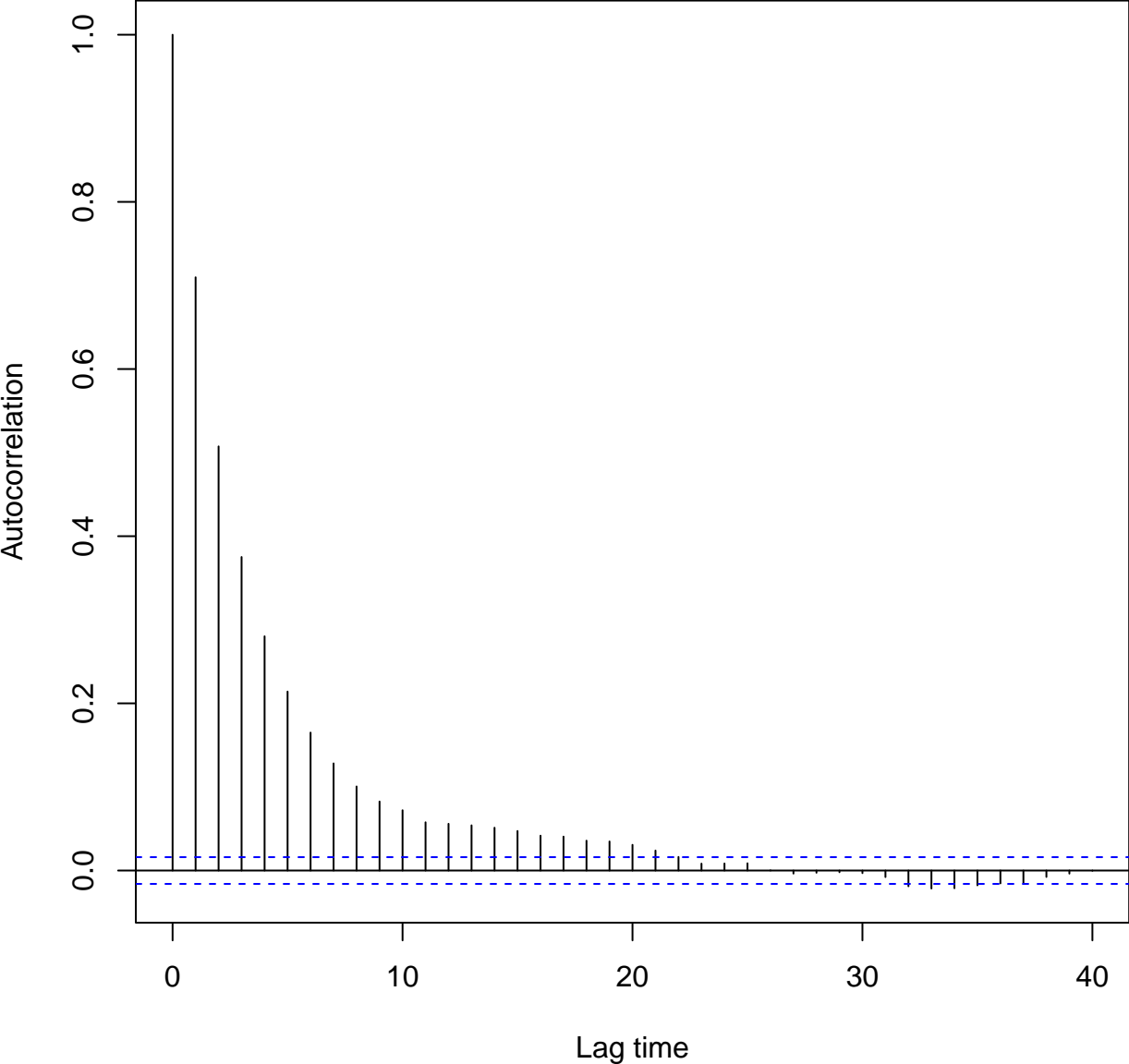
**Selection I ATA Mixture: 2**



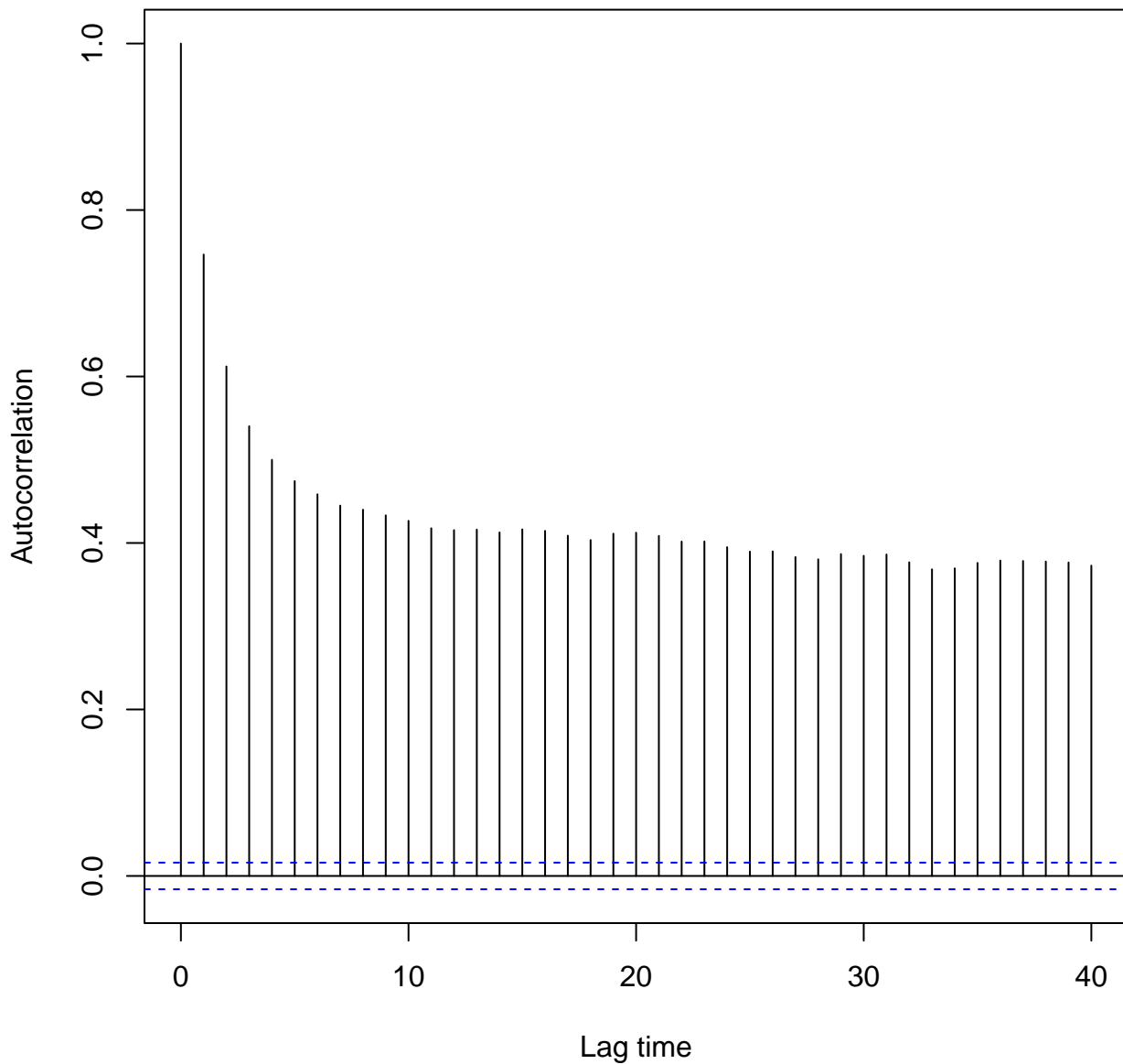
# Selection I ATC Mixture: 1



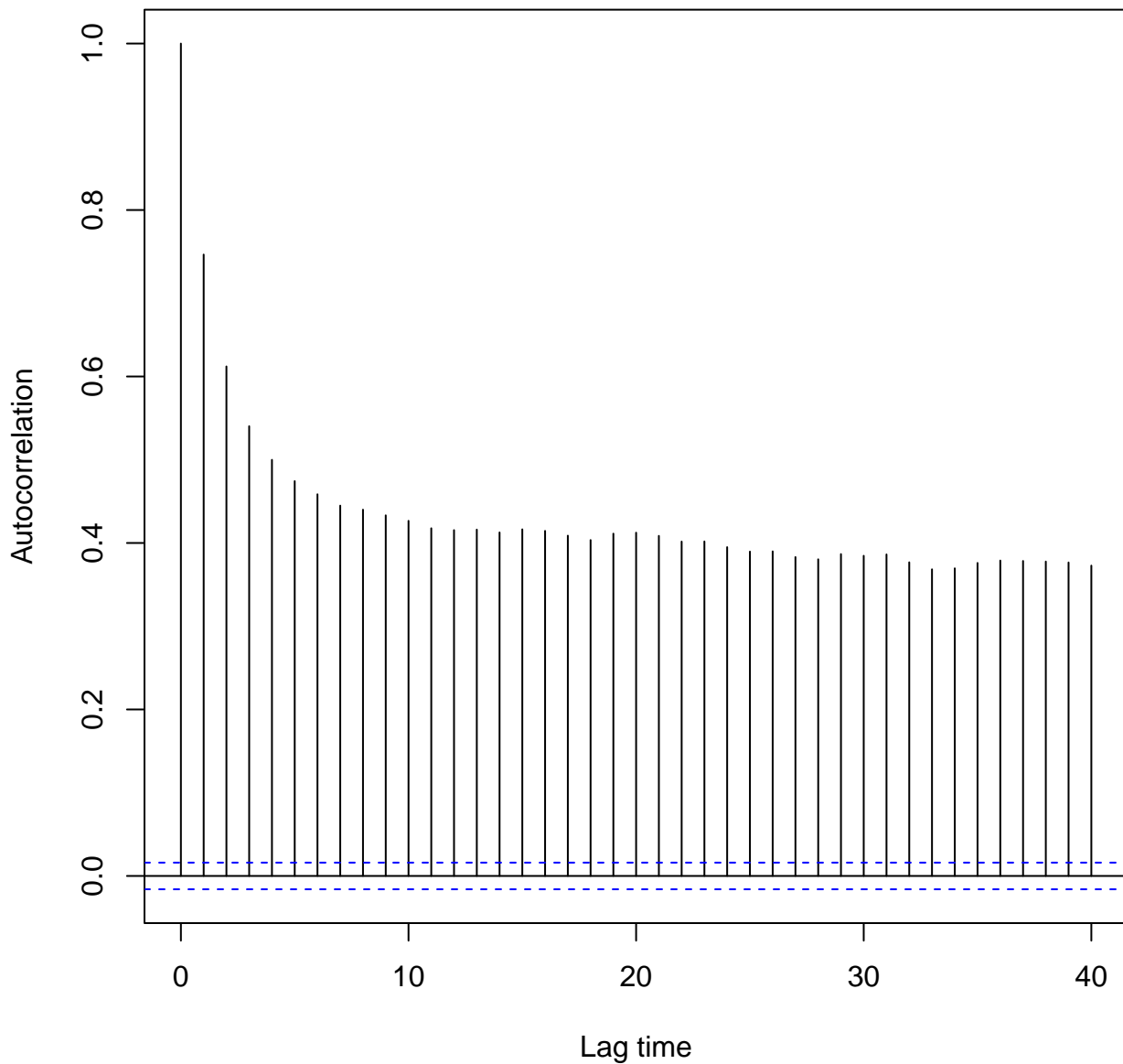
**Selection I ATC Mixture: 2**



# Selection K AAA Mixture: 1

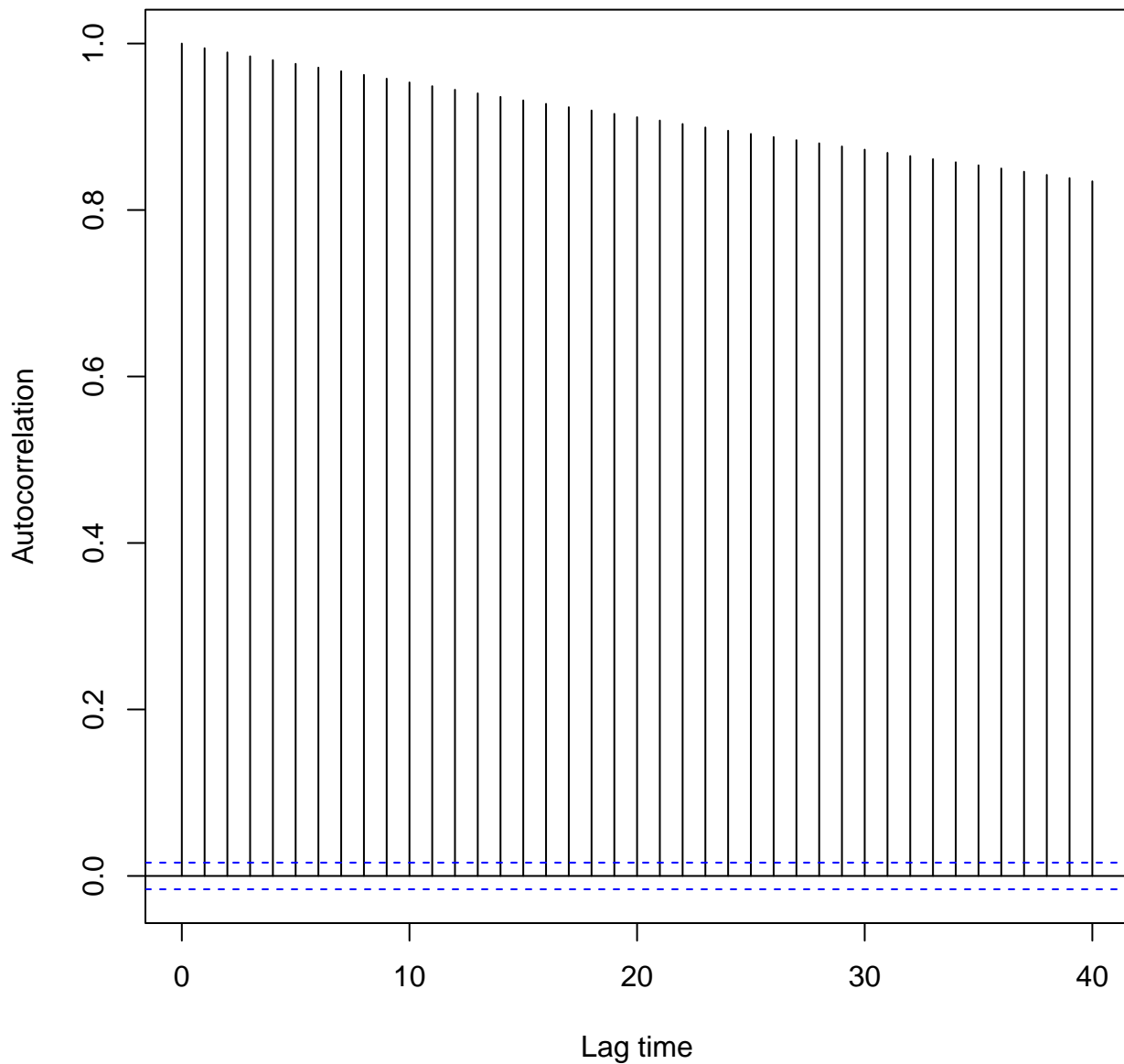


## Selection K AAA Mixture: 2

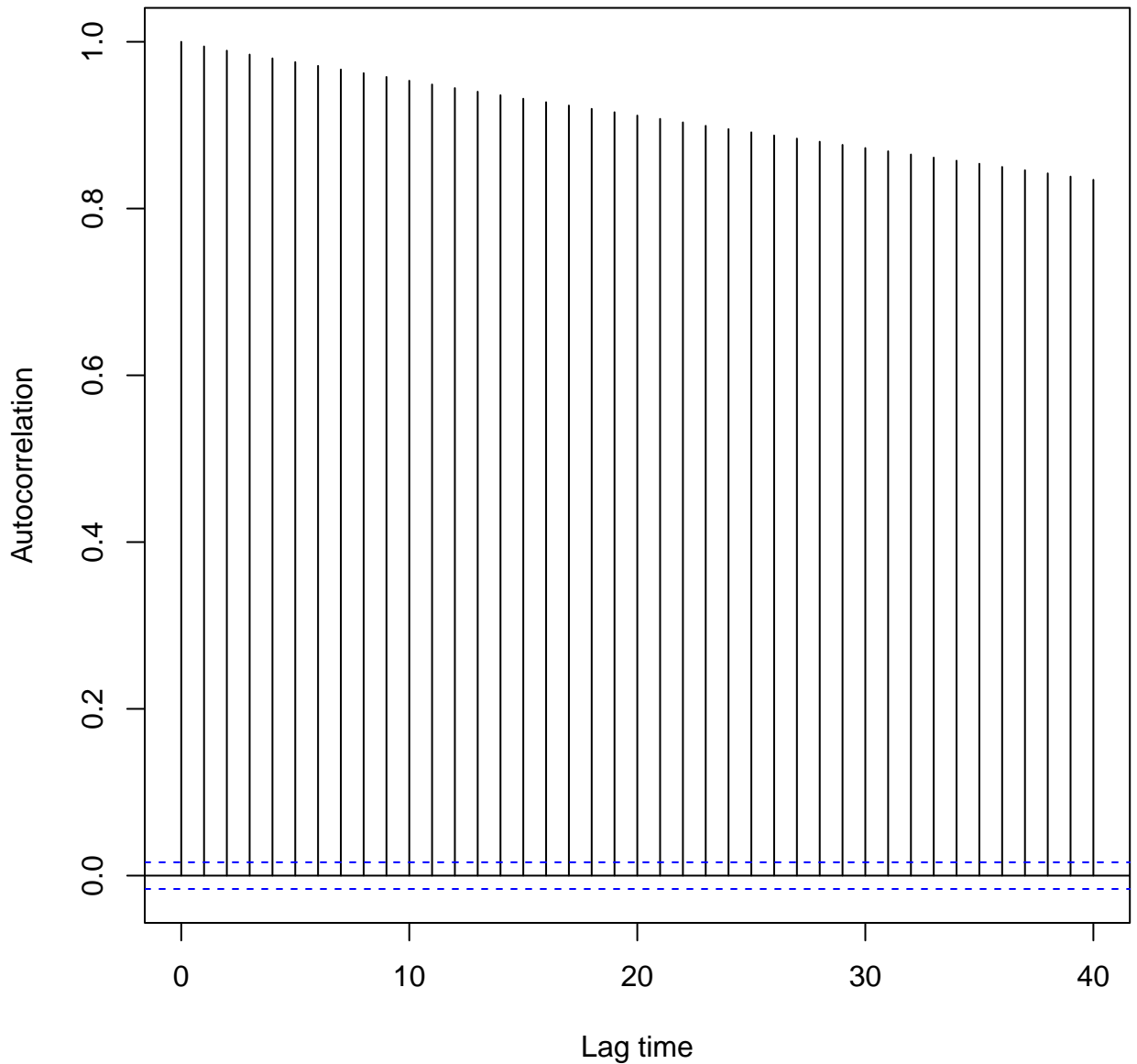




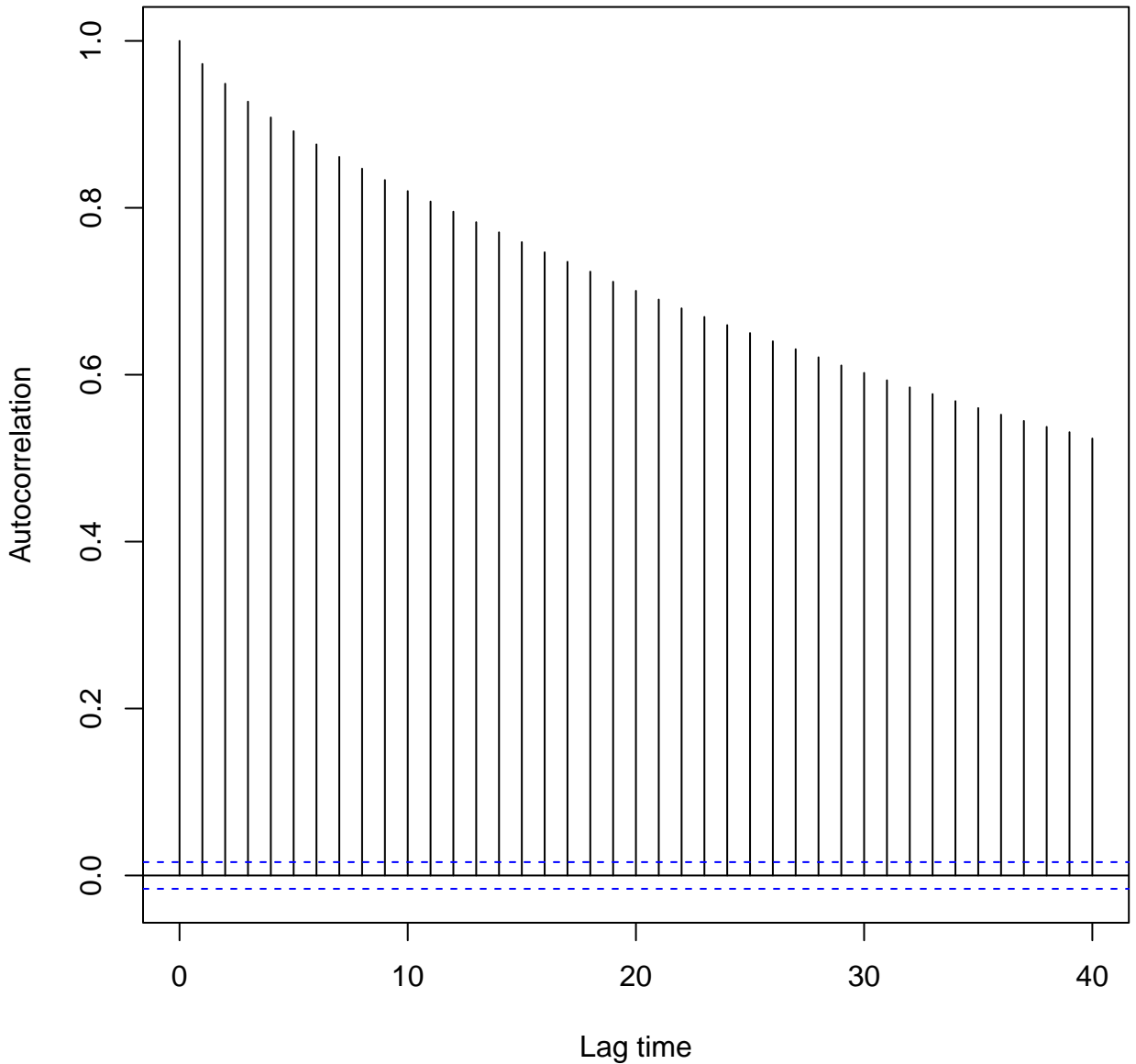
# Selection L CTA Mixture: 1



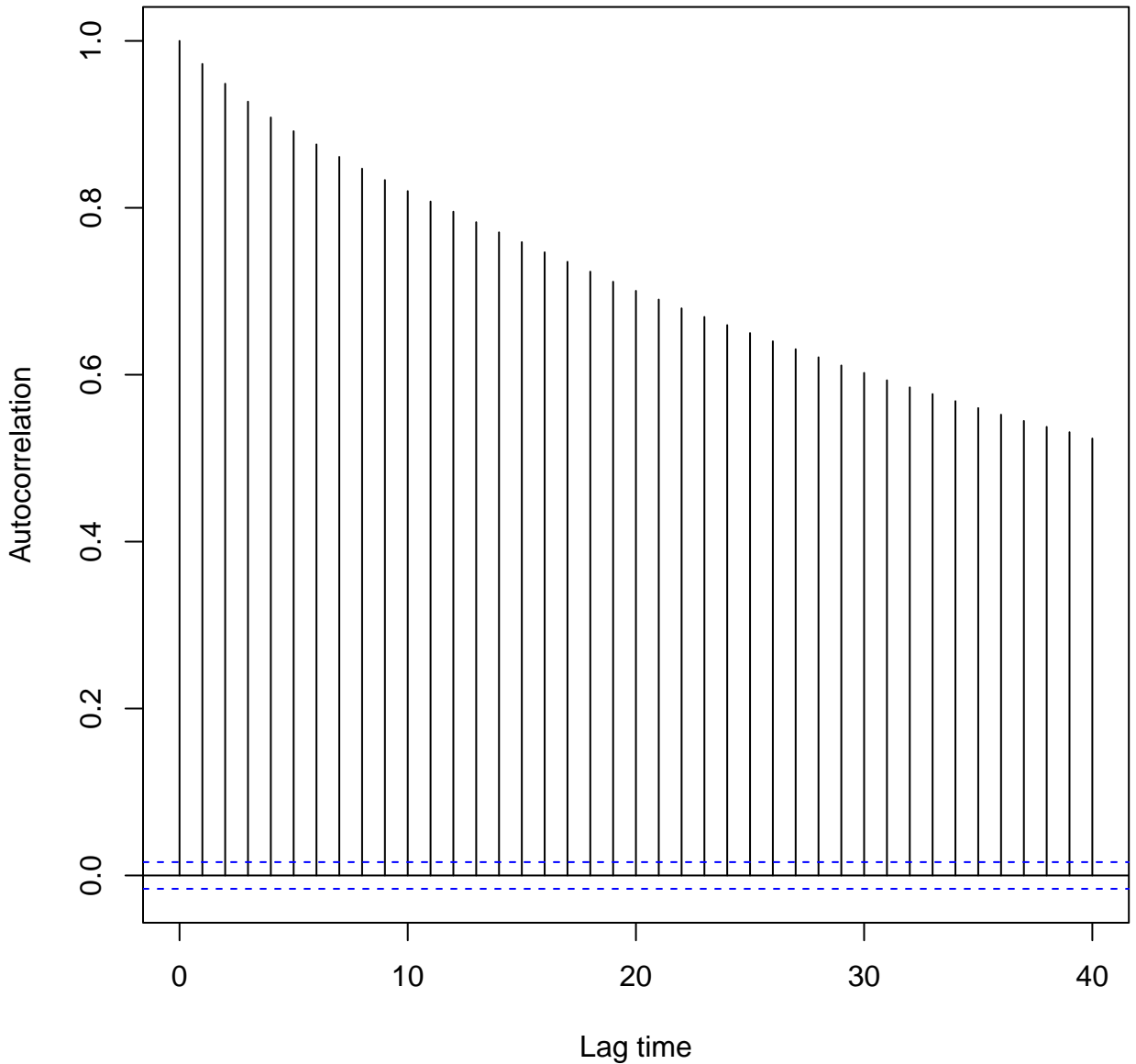
## Selection L CTA Mixture: 2



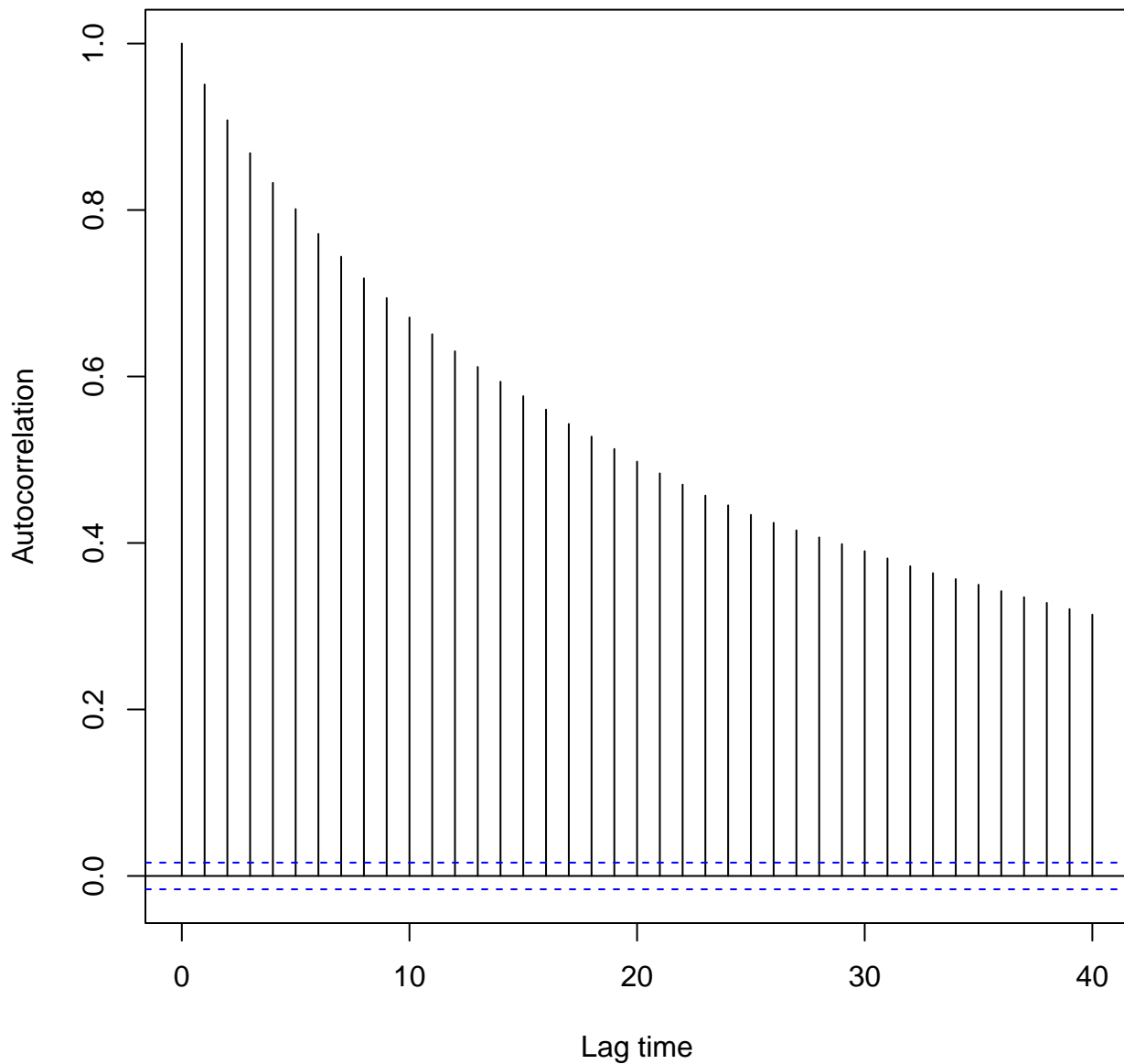
# Selection L CTC Mixture: 1



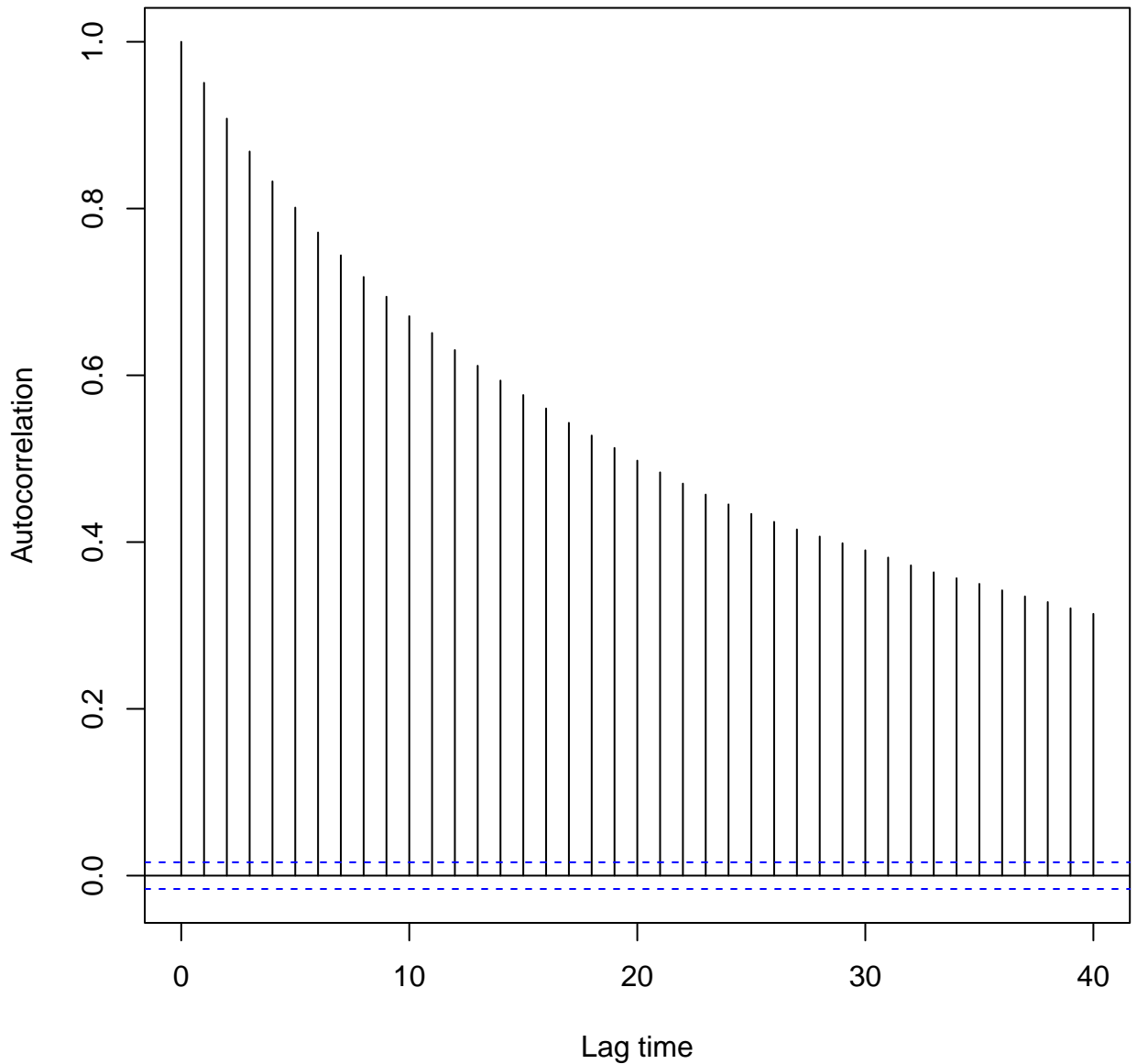
## Selection L CTC Mixture: 2



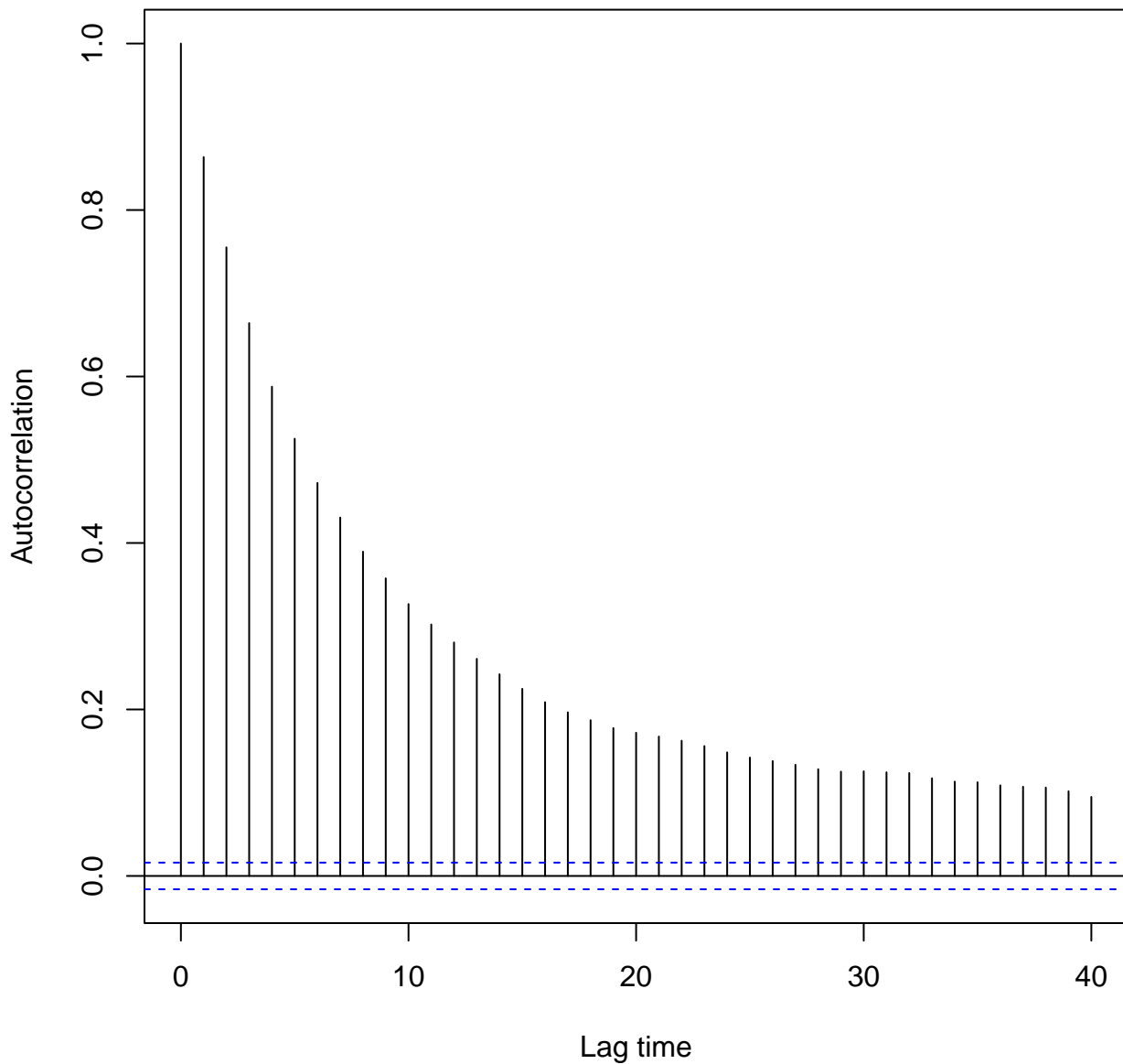
# Selection L CTT Mixture: 1



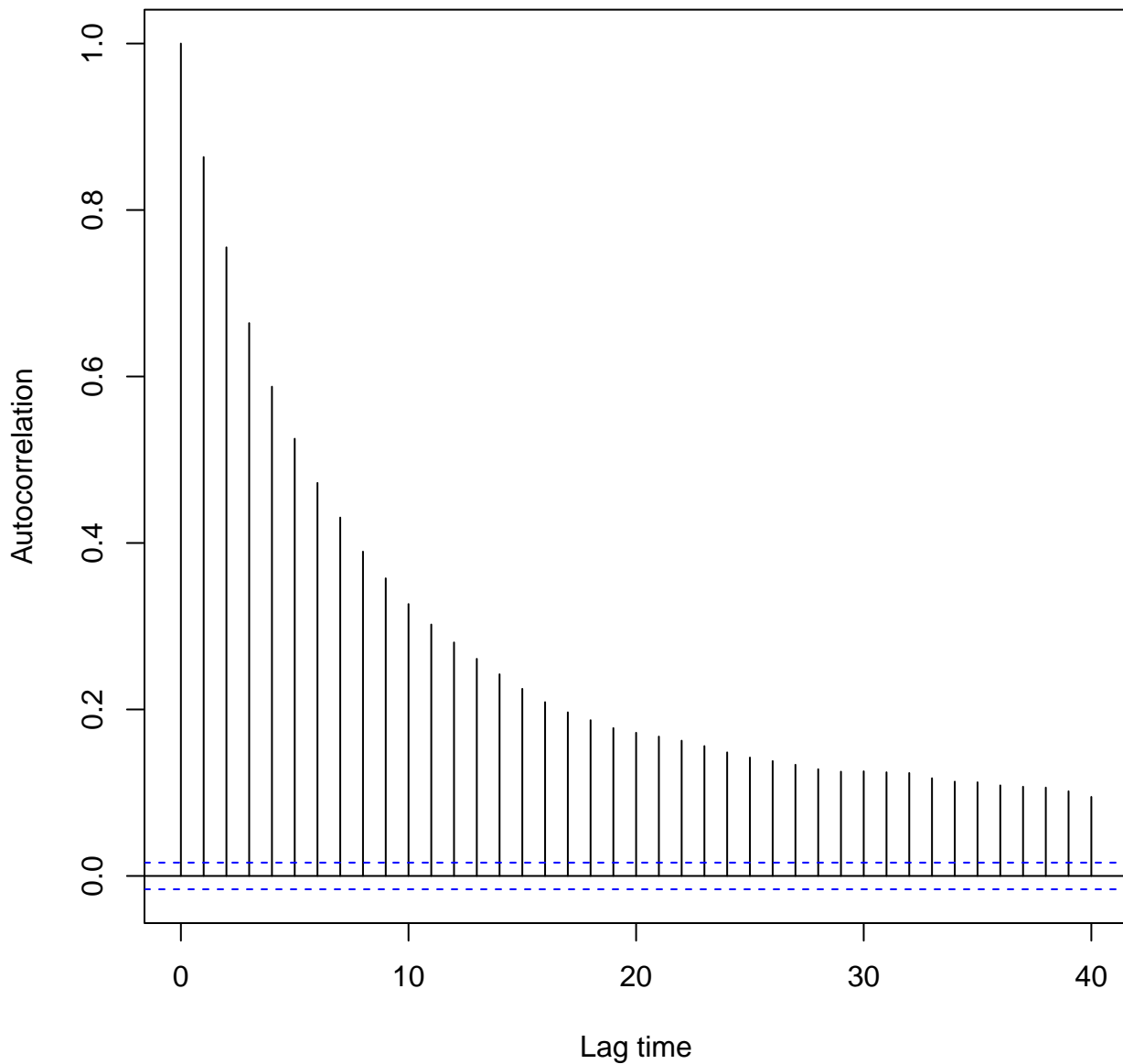
## Selection L CTT Mixture: 2



# Selection L TTA Mixture: 1

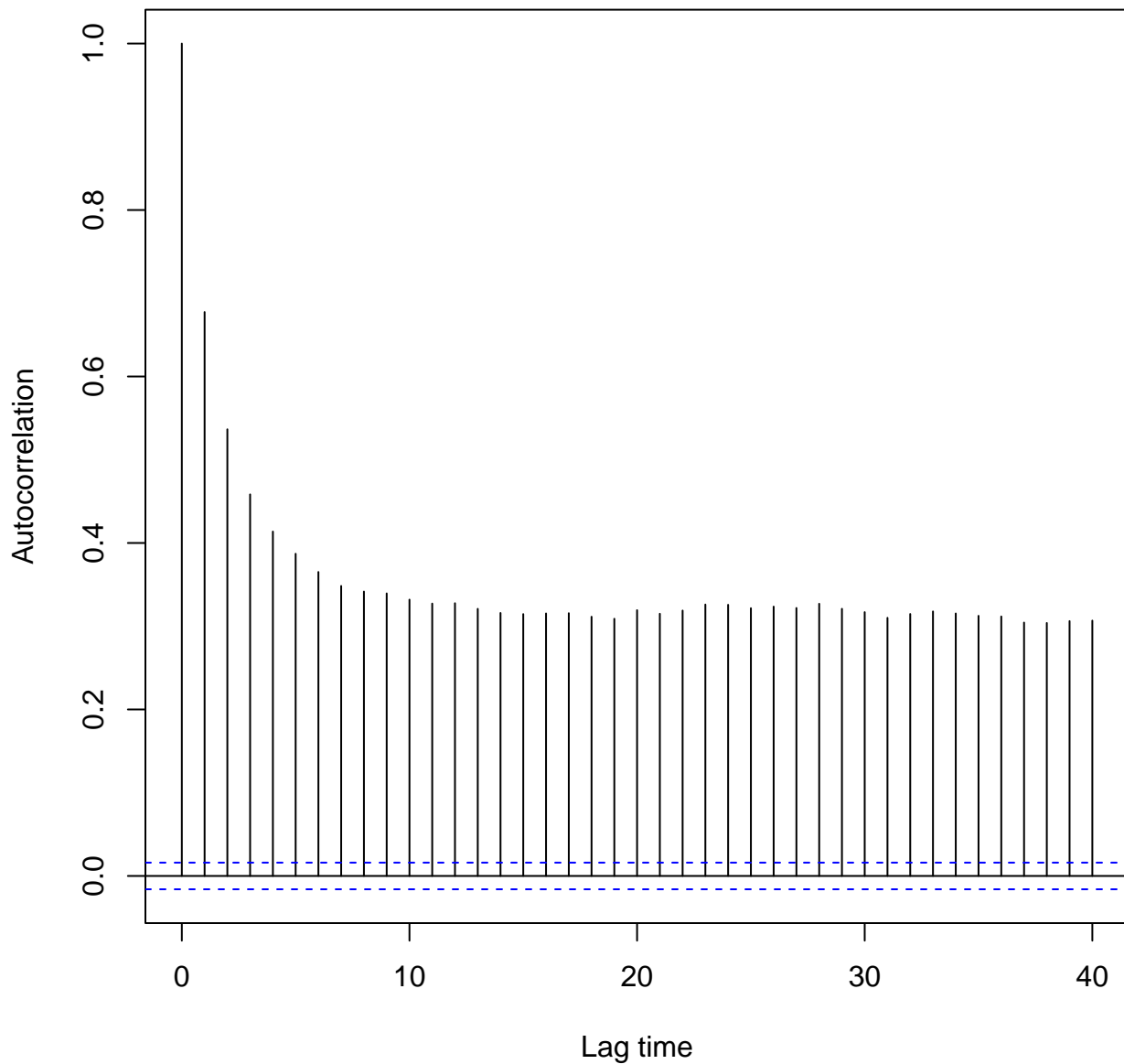


## Selection L TTA Mixture: 2

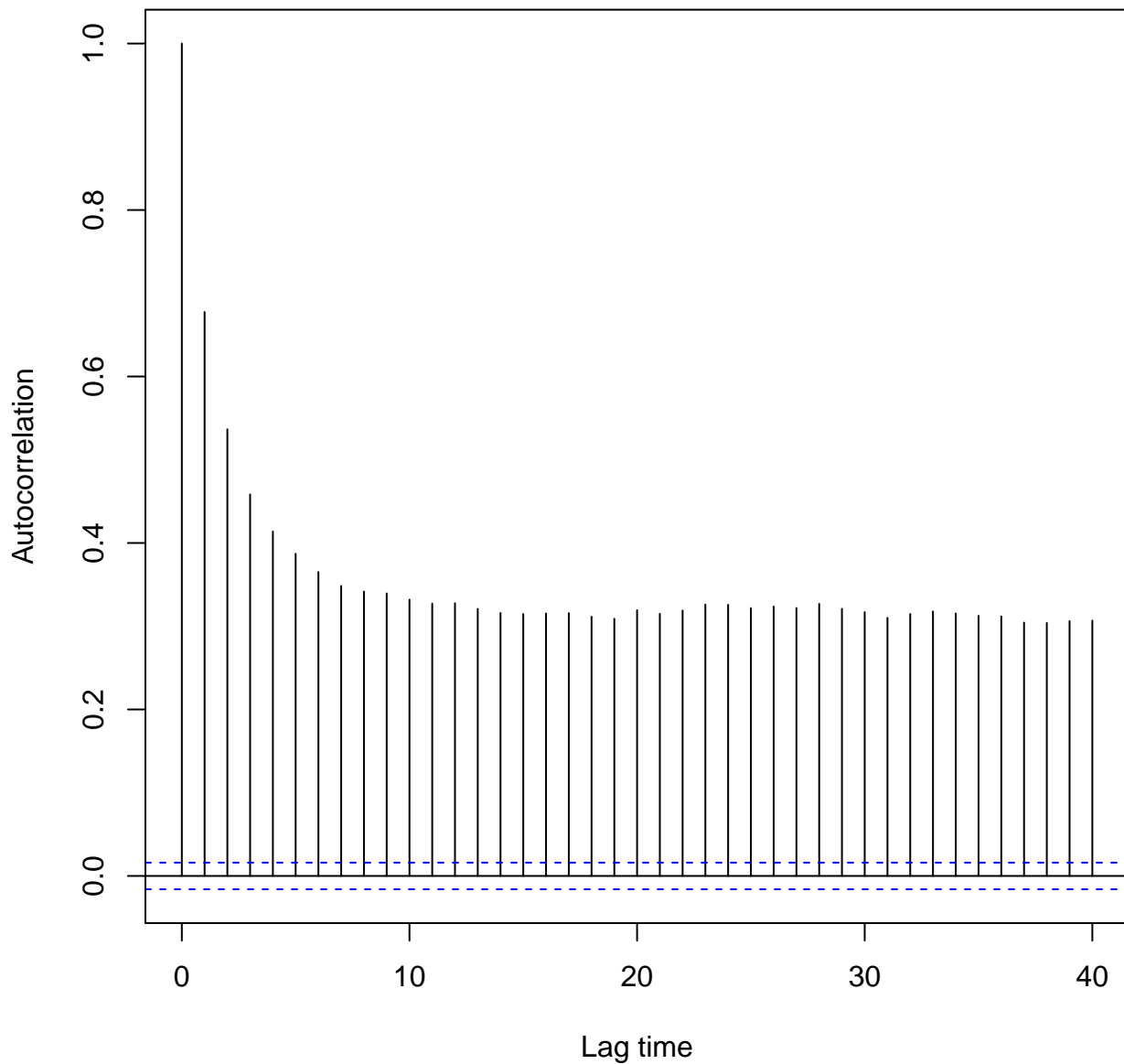




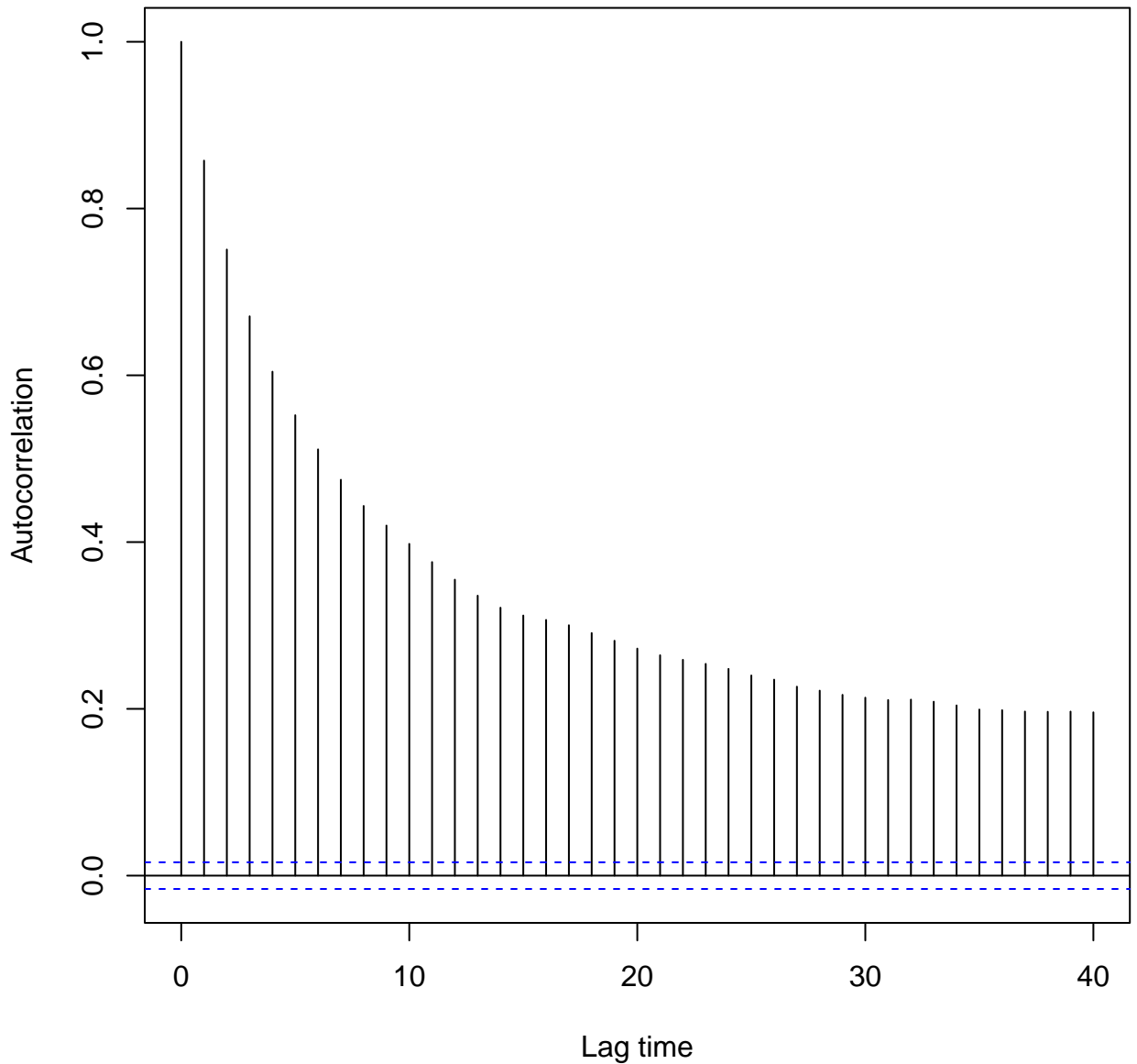
# Selection N AAC Mixture: 1



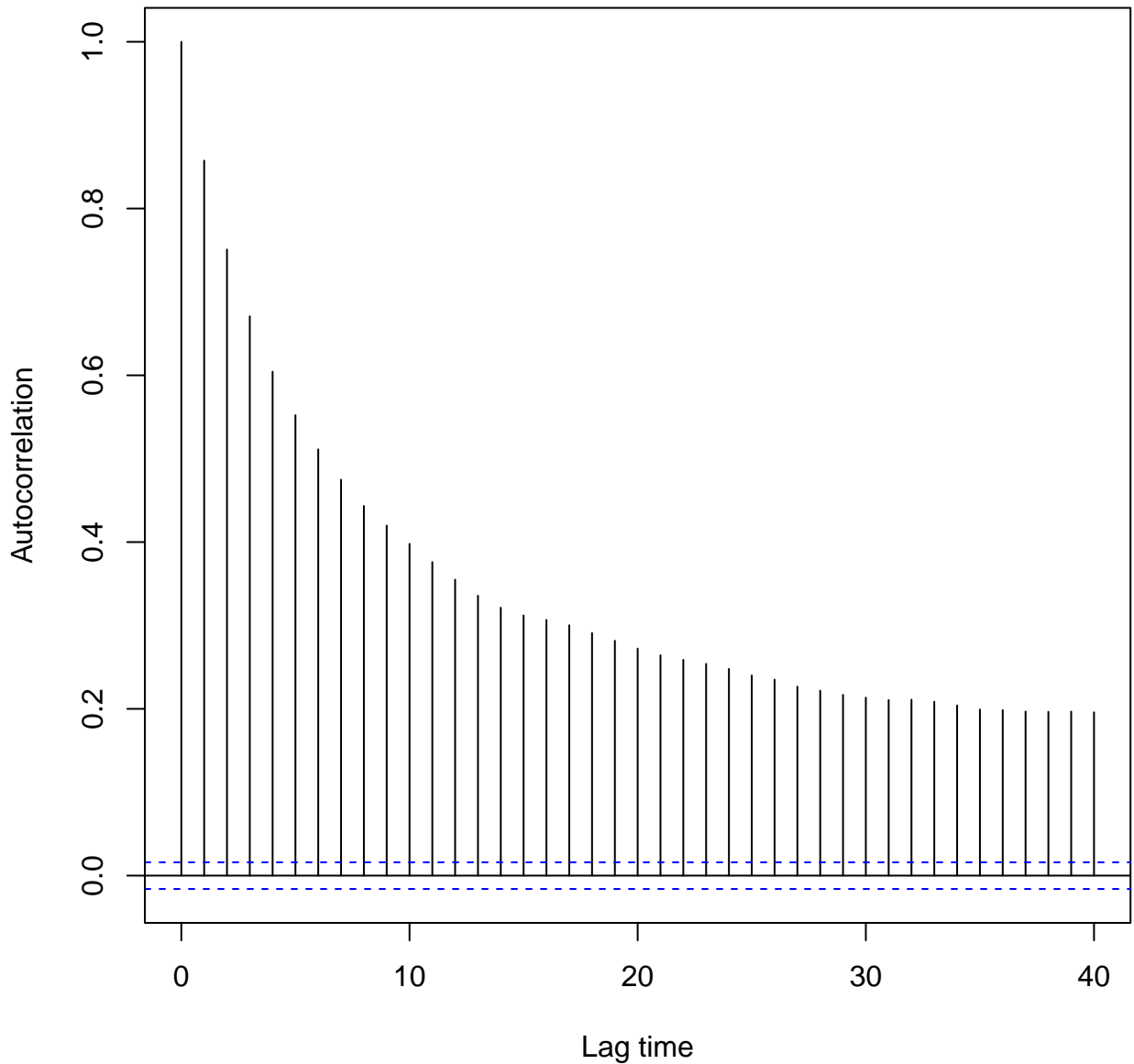
## Selection N AAC Mixture: 2



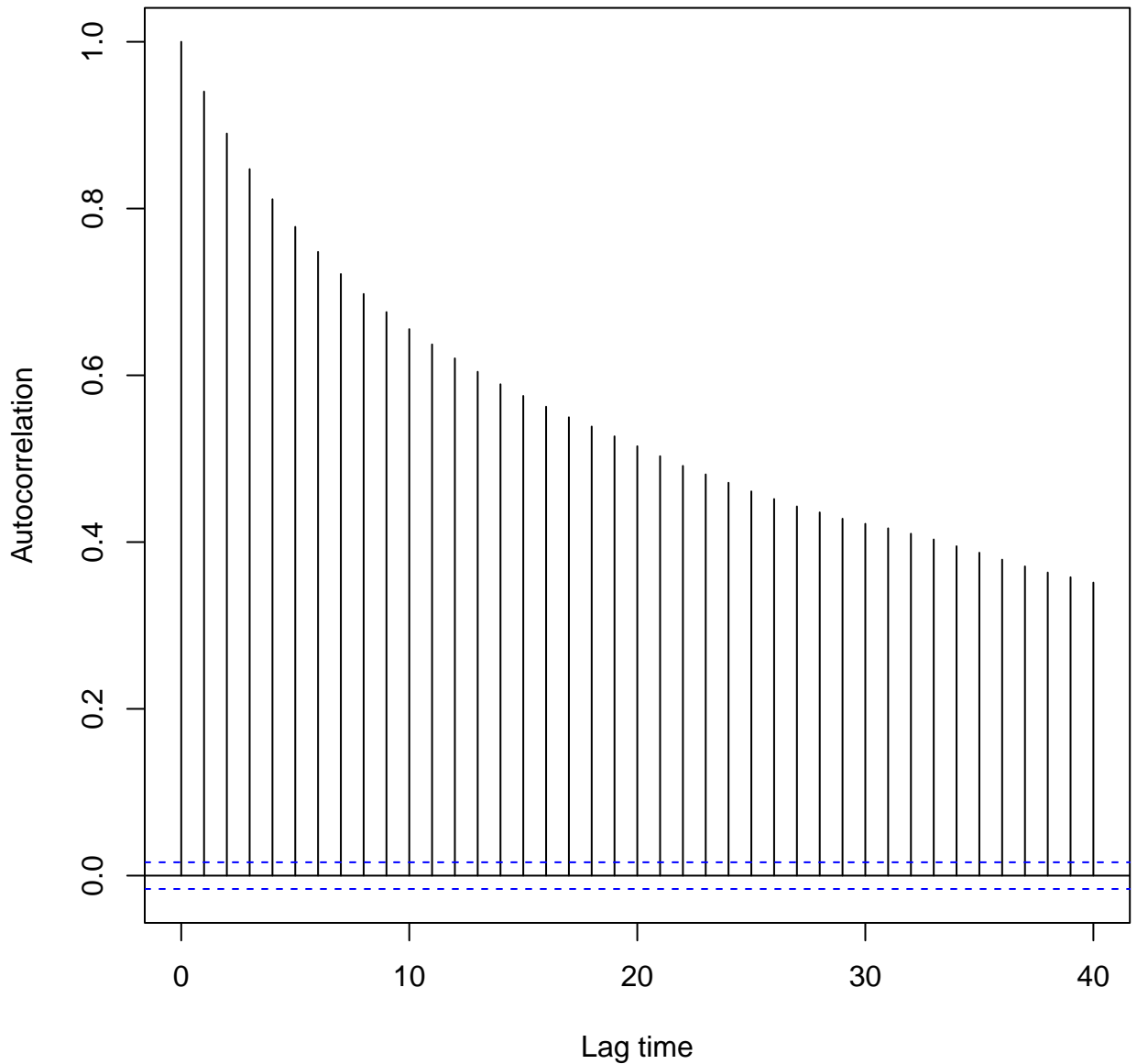
# Selection P CCA Mixture: 1



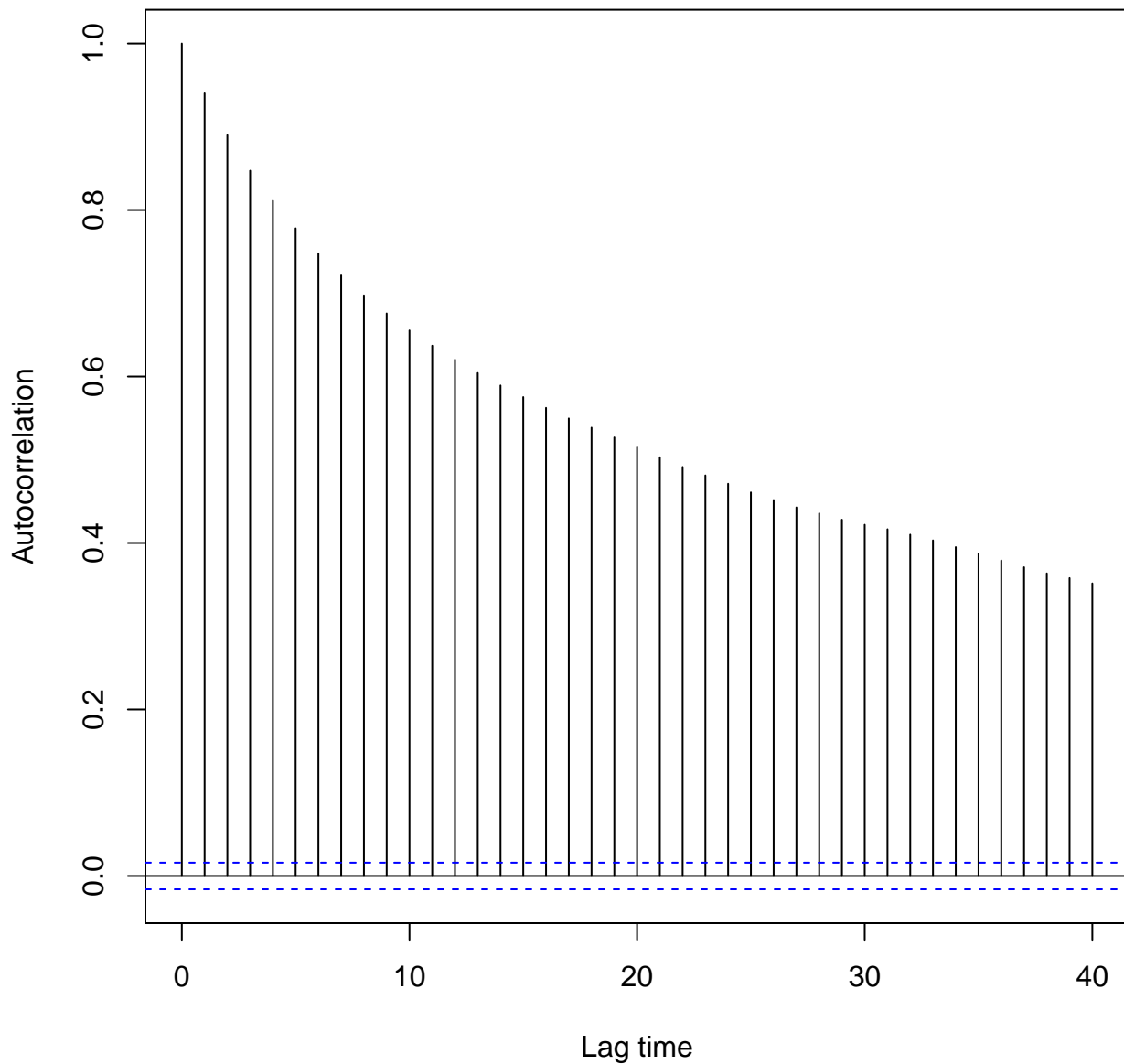
## Selection P CCA Mixture: 2



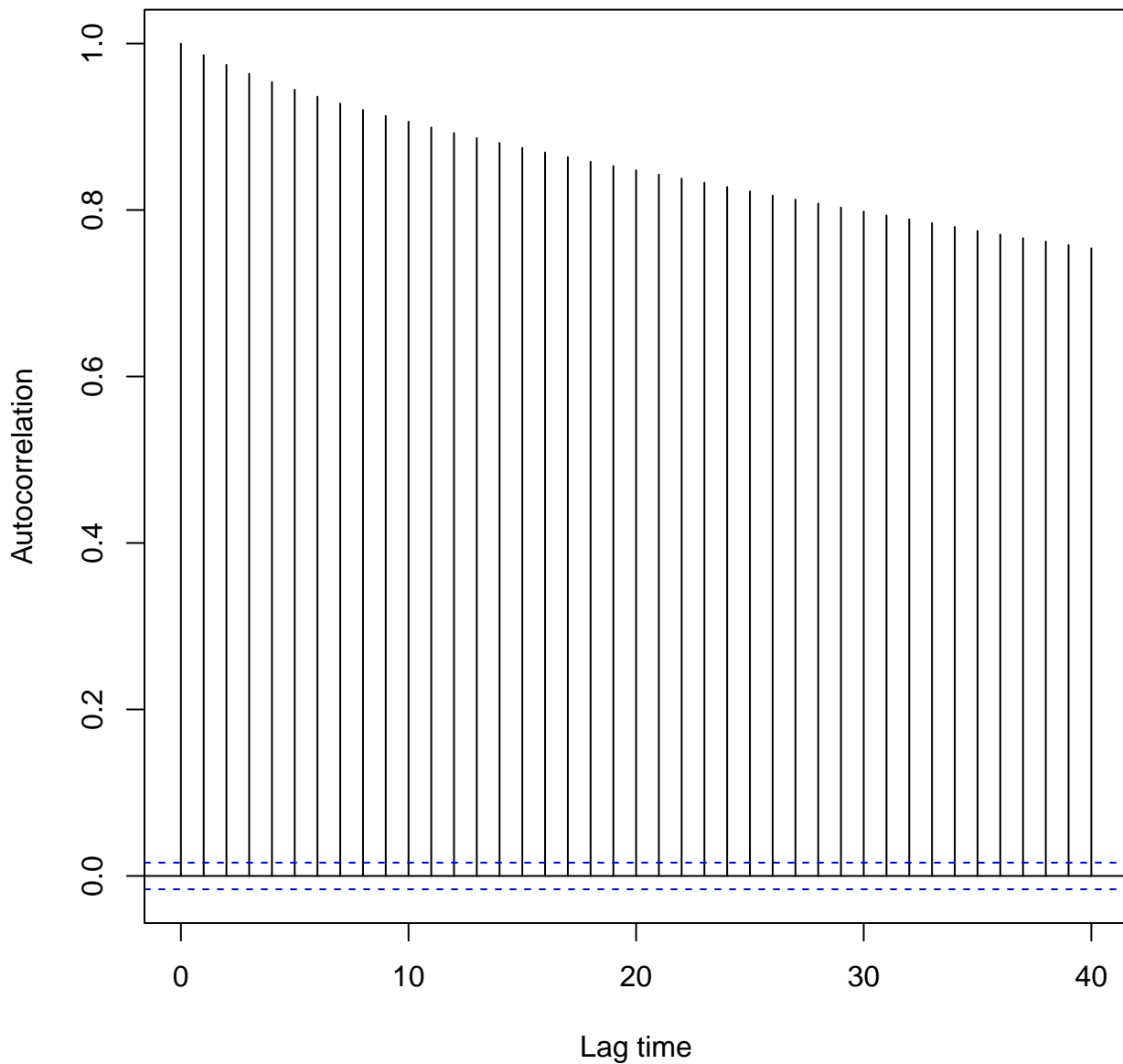
# Selection P CCC Mixture: 1



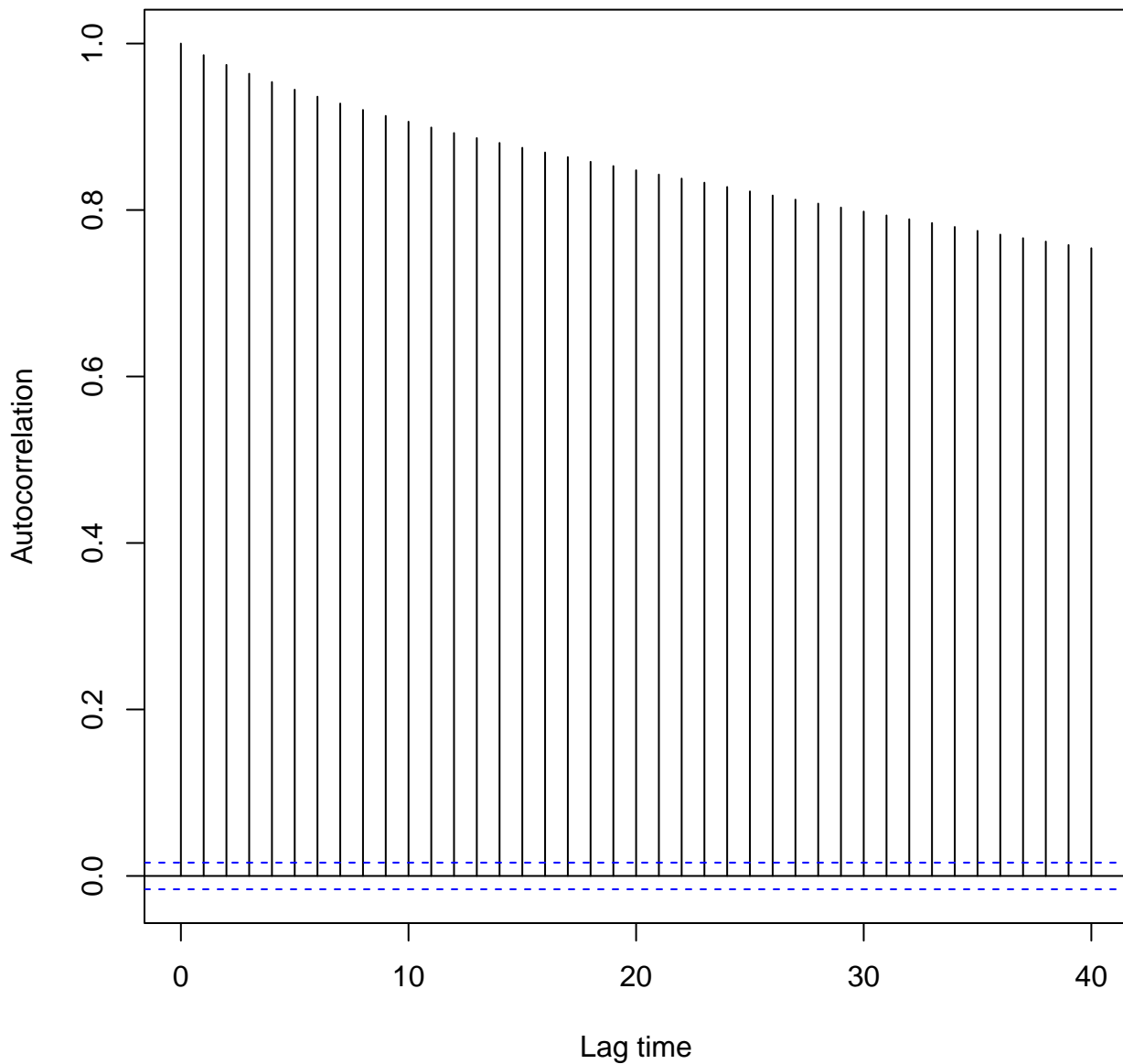
## Selection P CCC Mixture: 2



# Selection P CCG Mixture: 1

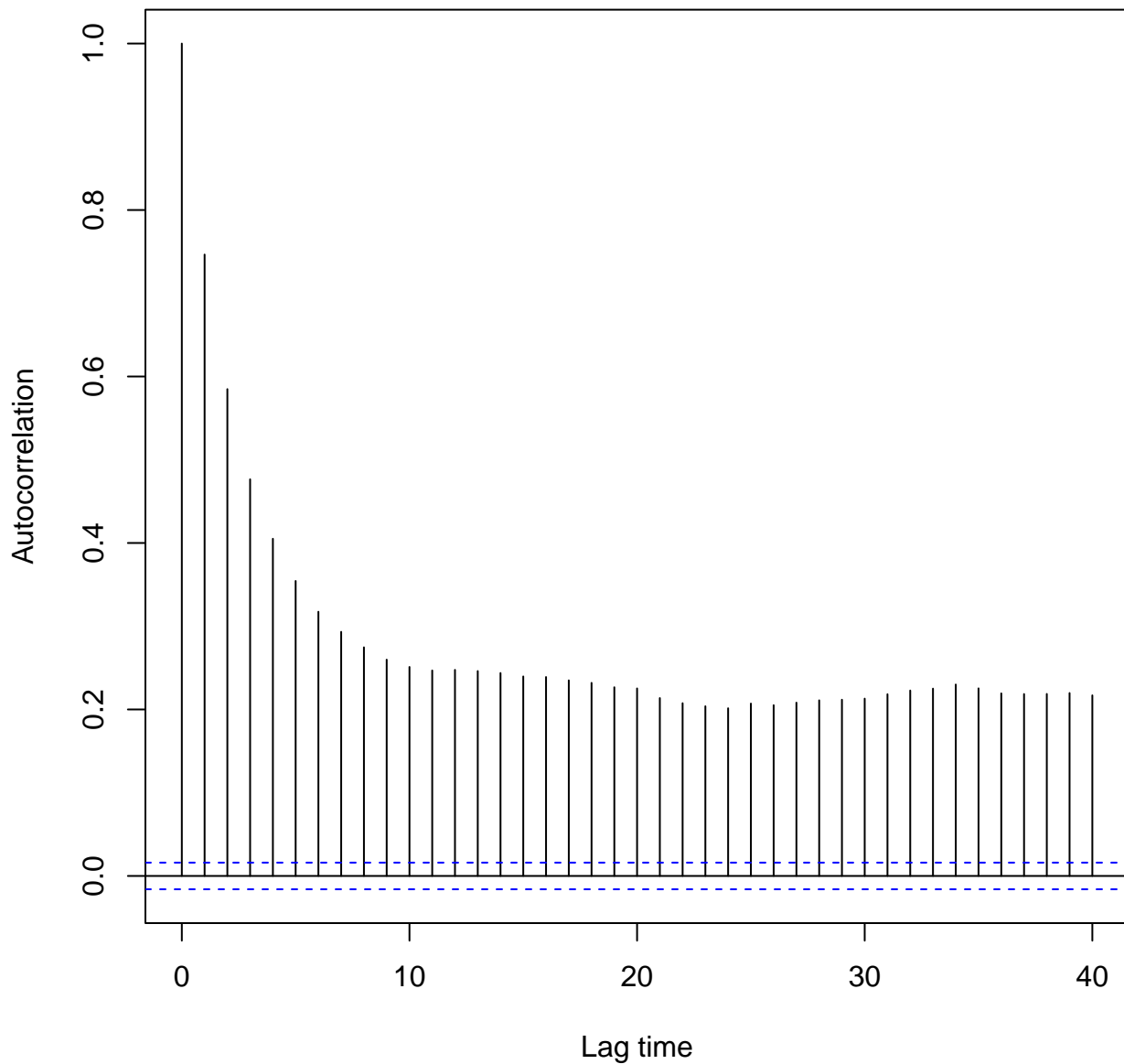


## Selection P CCG Mixture: 2

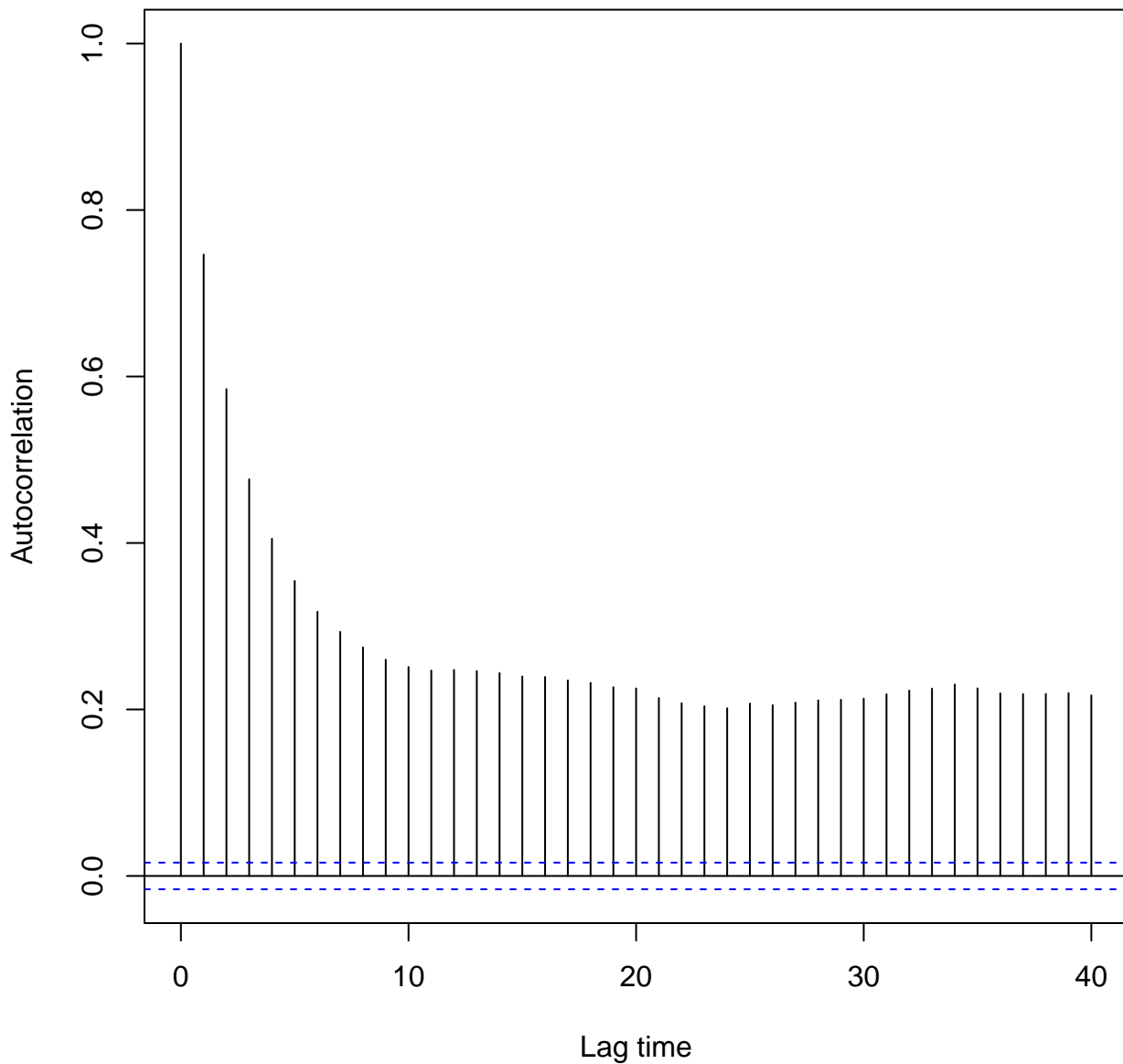




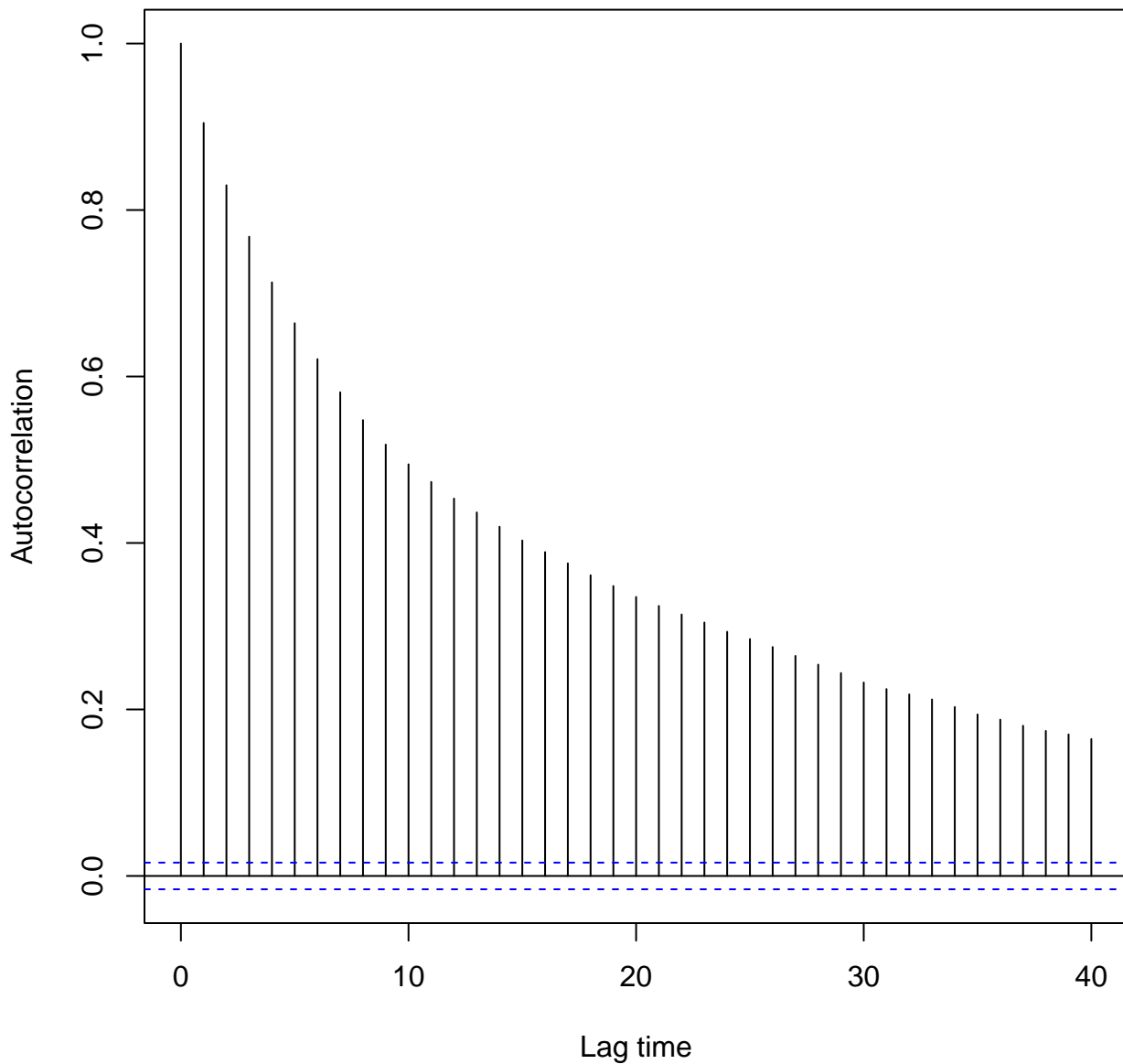
# Selection Q CAA Mixture: 1



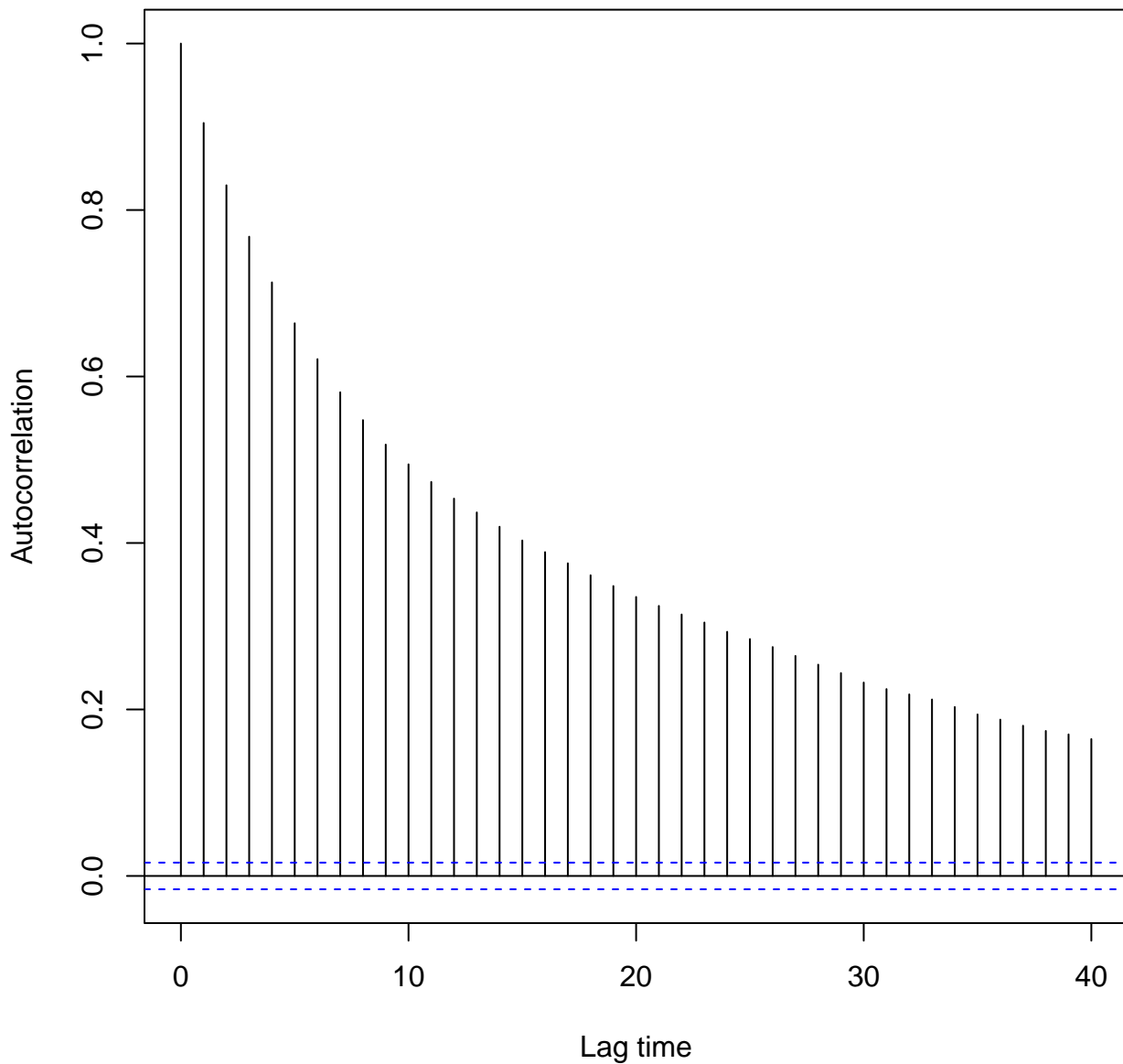
## Selection Q CAA Mixture: 2



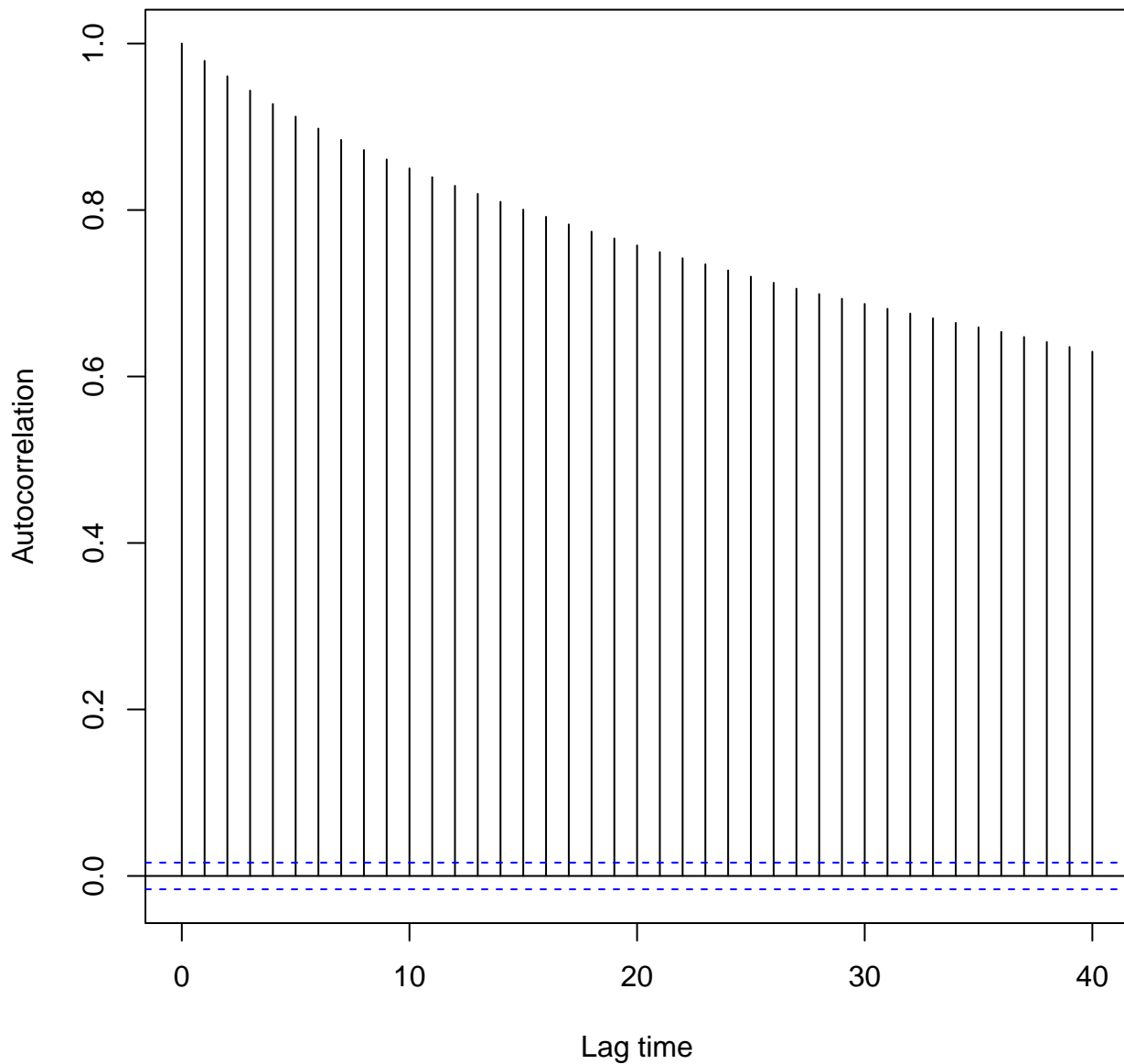
# Selection R AGA Mixture: 1



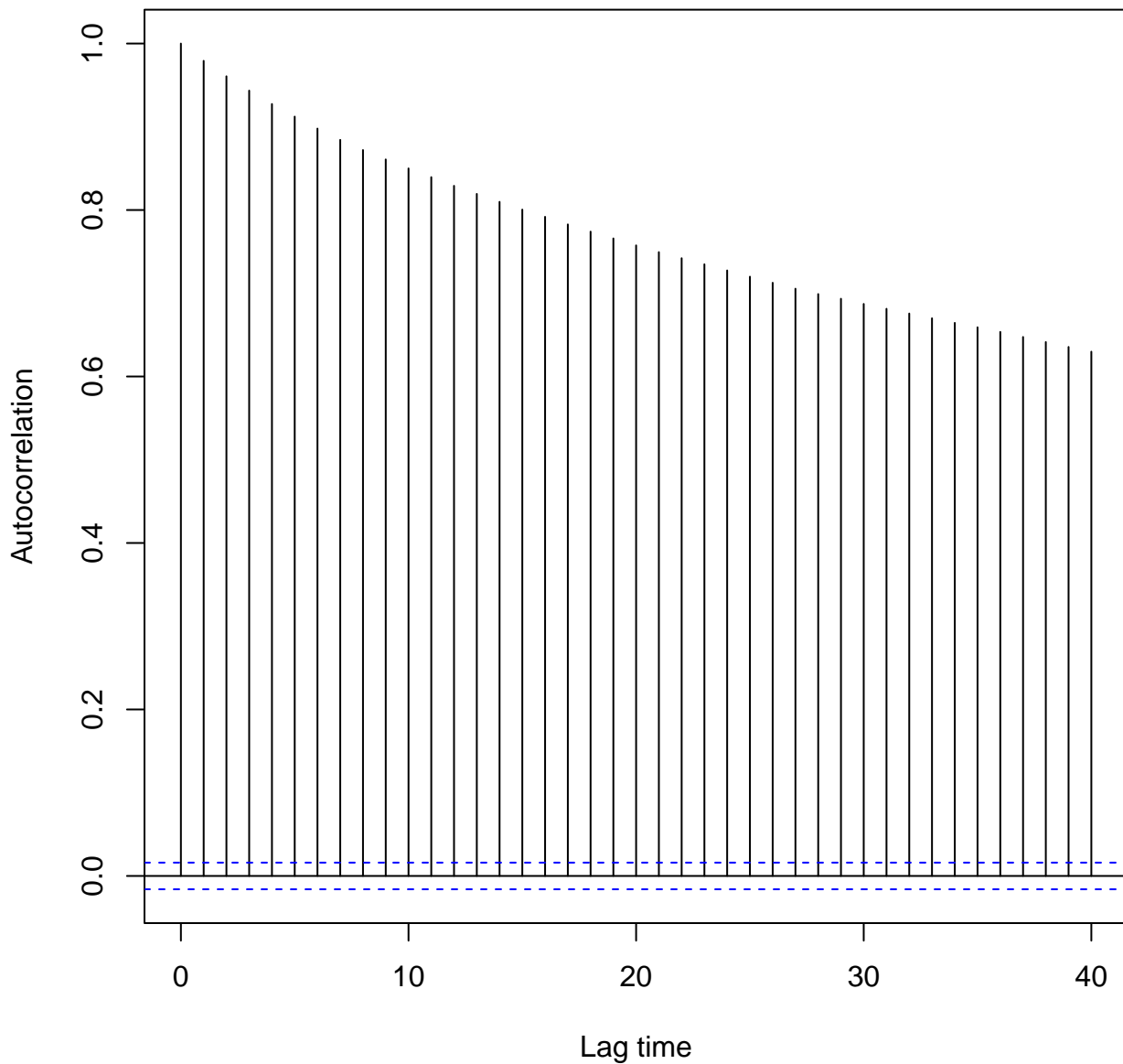
## Selection R AGA Mixture: 2



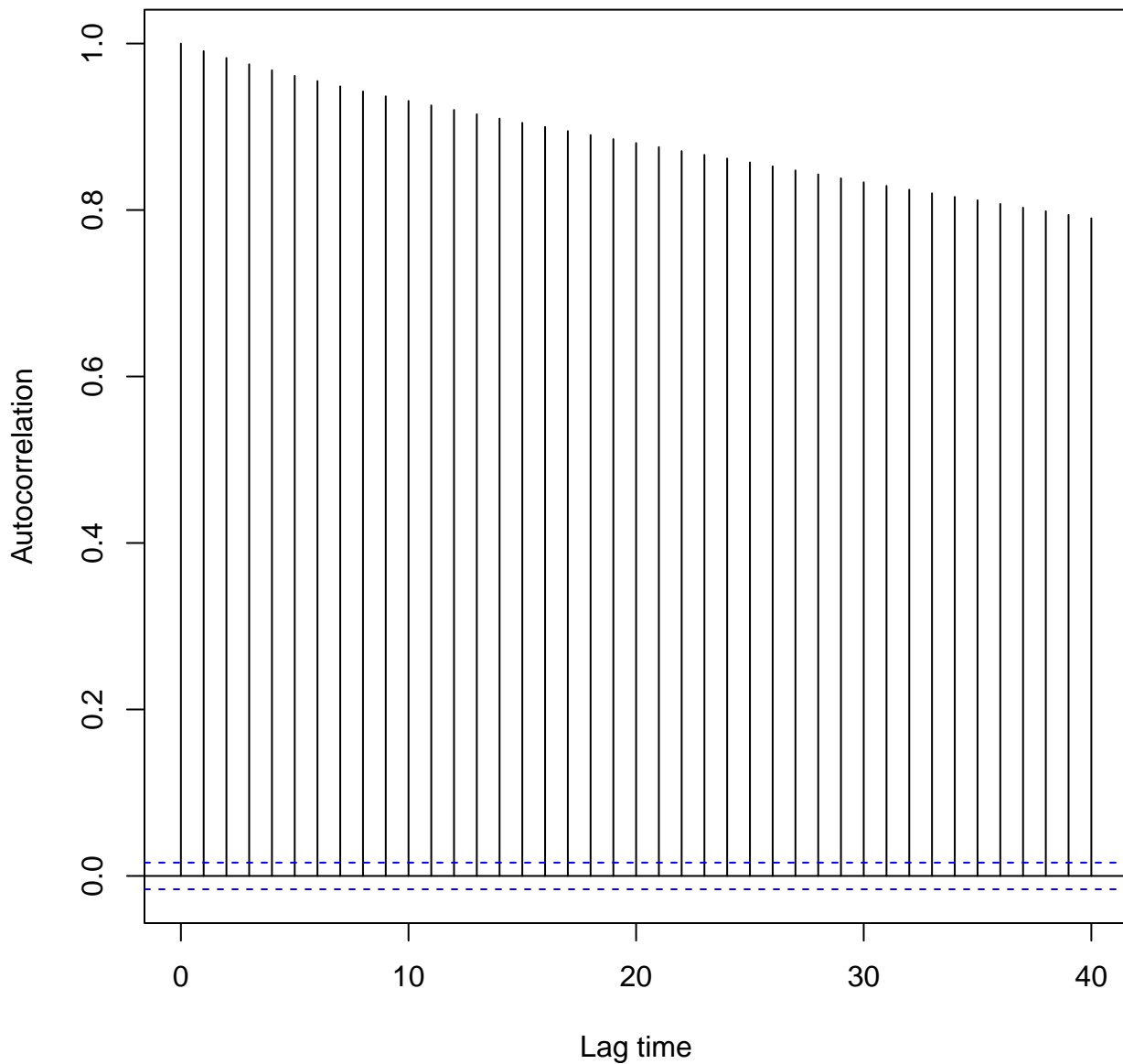
# Selection R AGG Mixture: 1



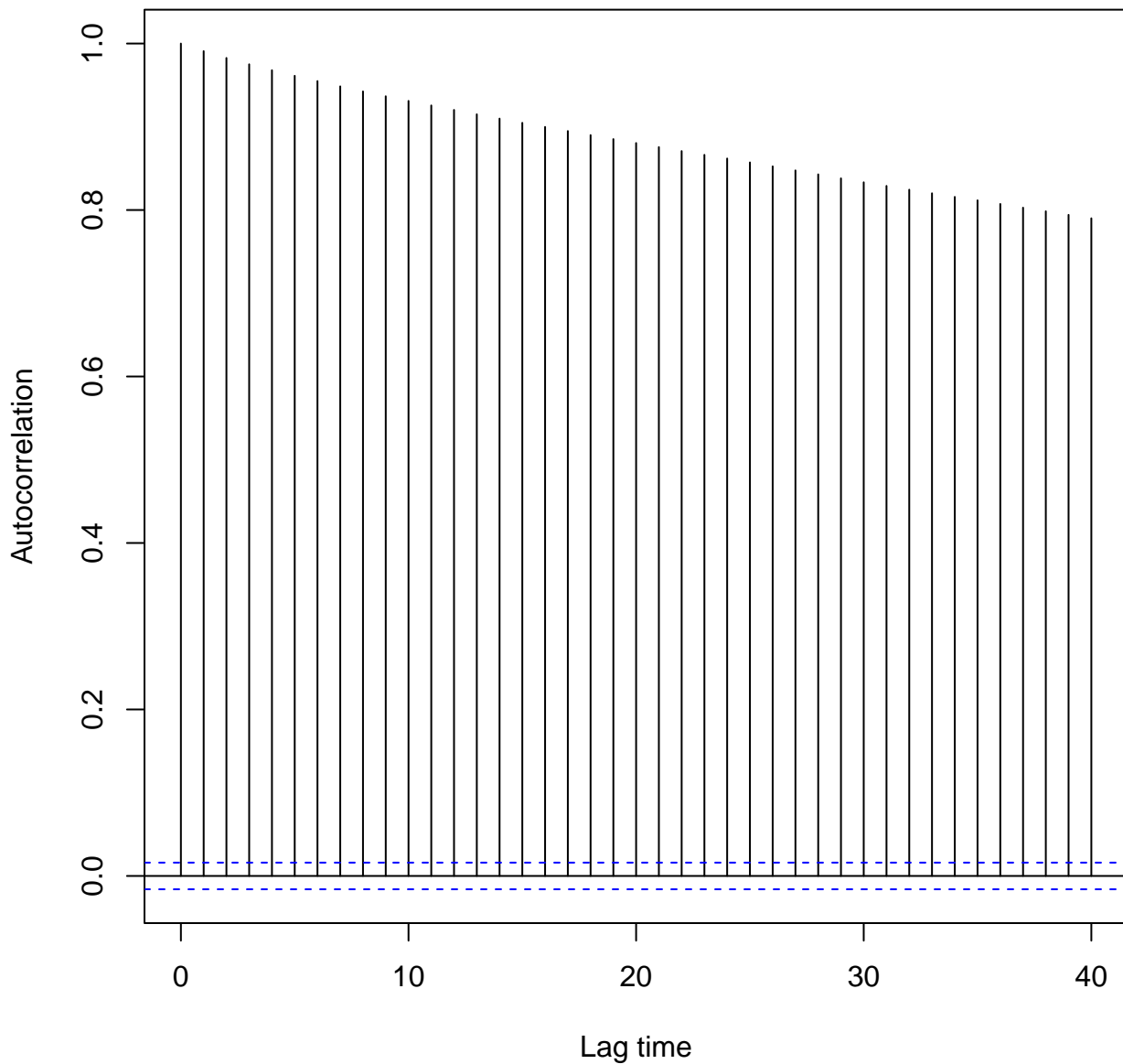
## Selection R AGG Mixture: 2



# Selection R CGA Mixture: 1

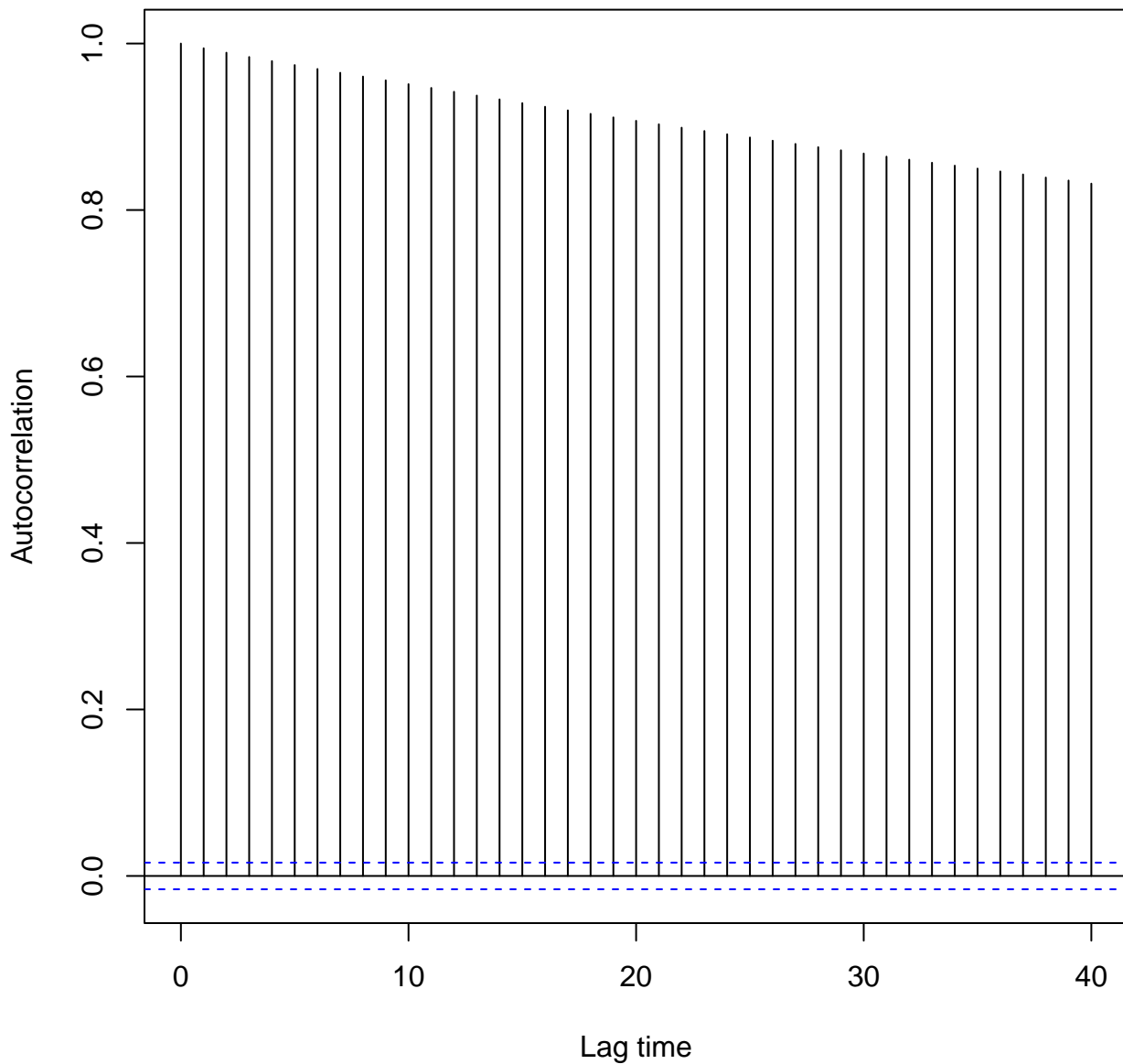


## Selection R CGA Mixture: 2

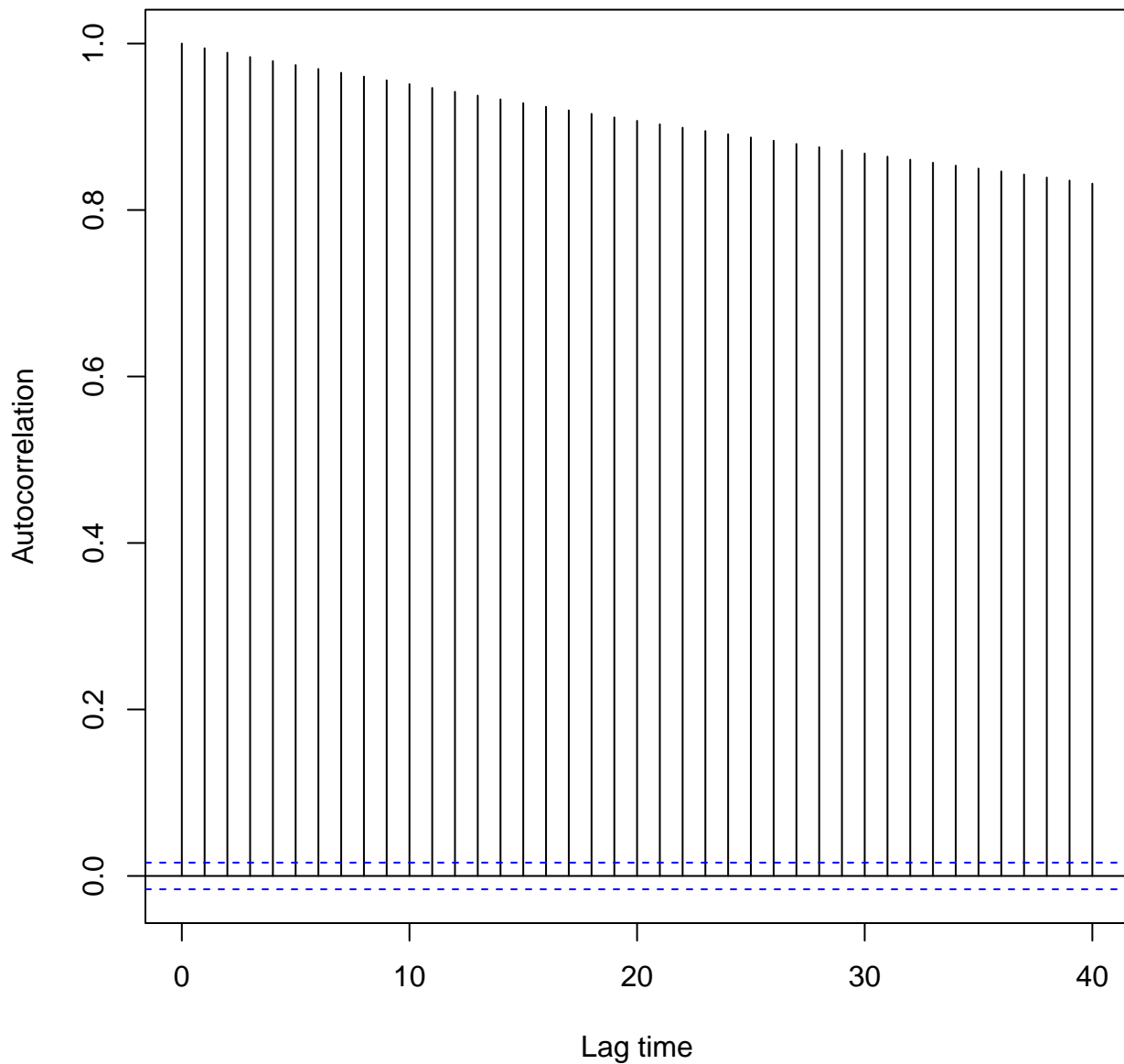




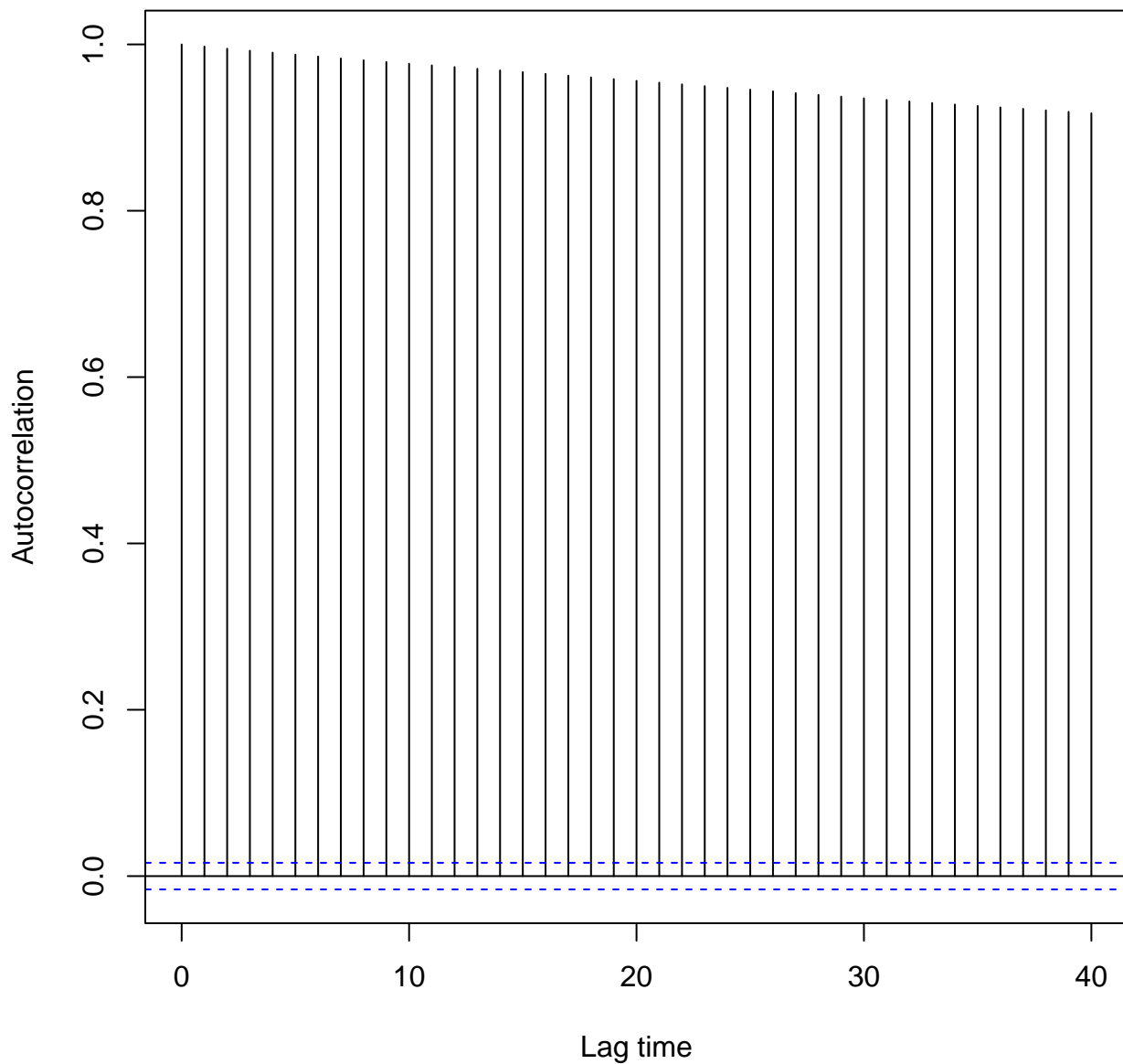
# Selection R CGC Mixture: 1



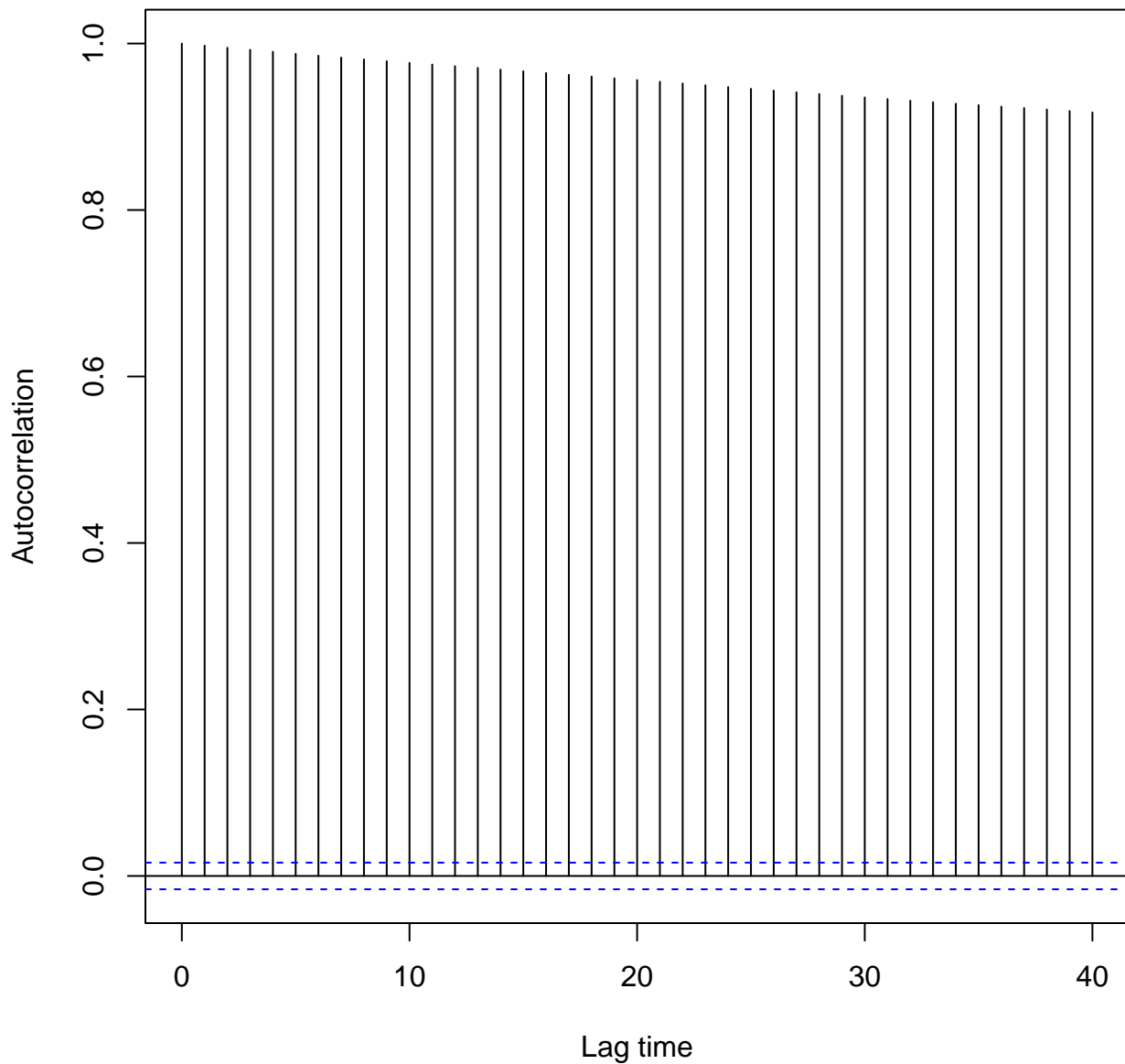
## Selection R CGC Mixture: 2



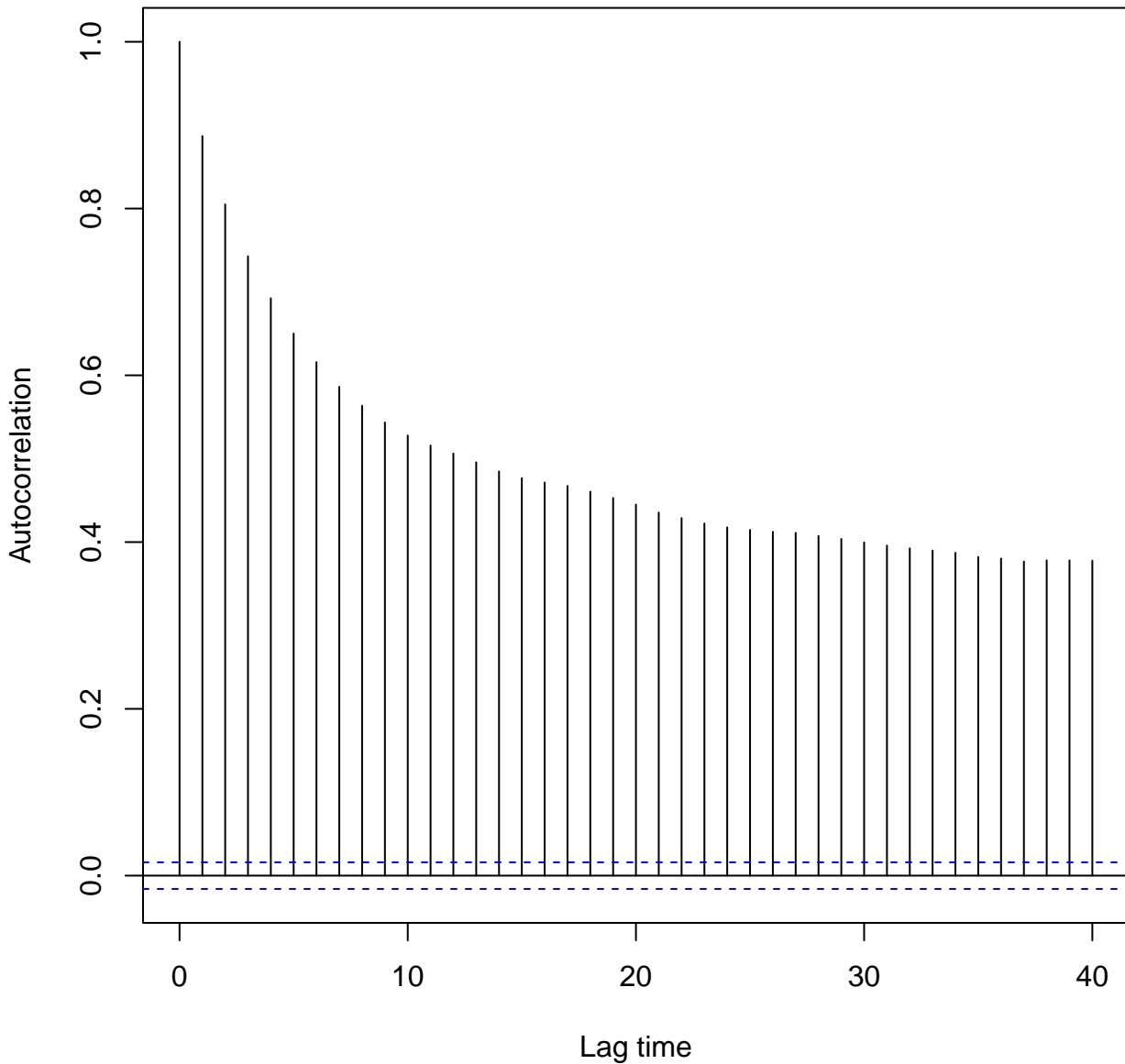
# Selection R CGG Mixture: 1



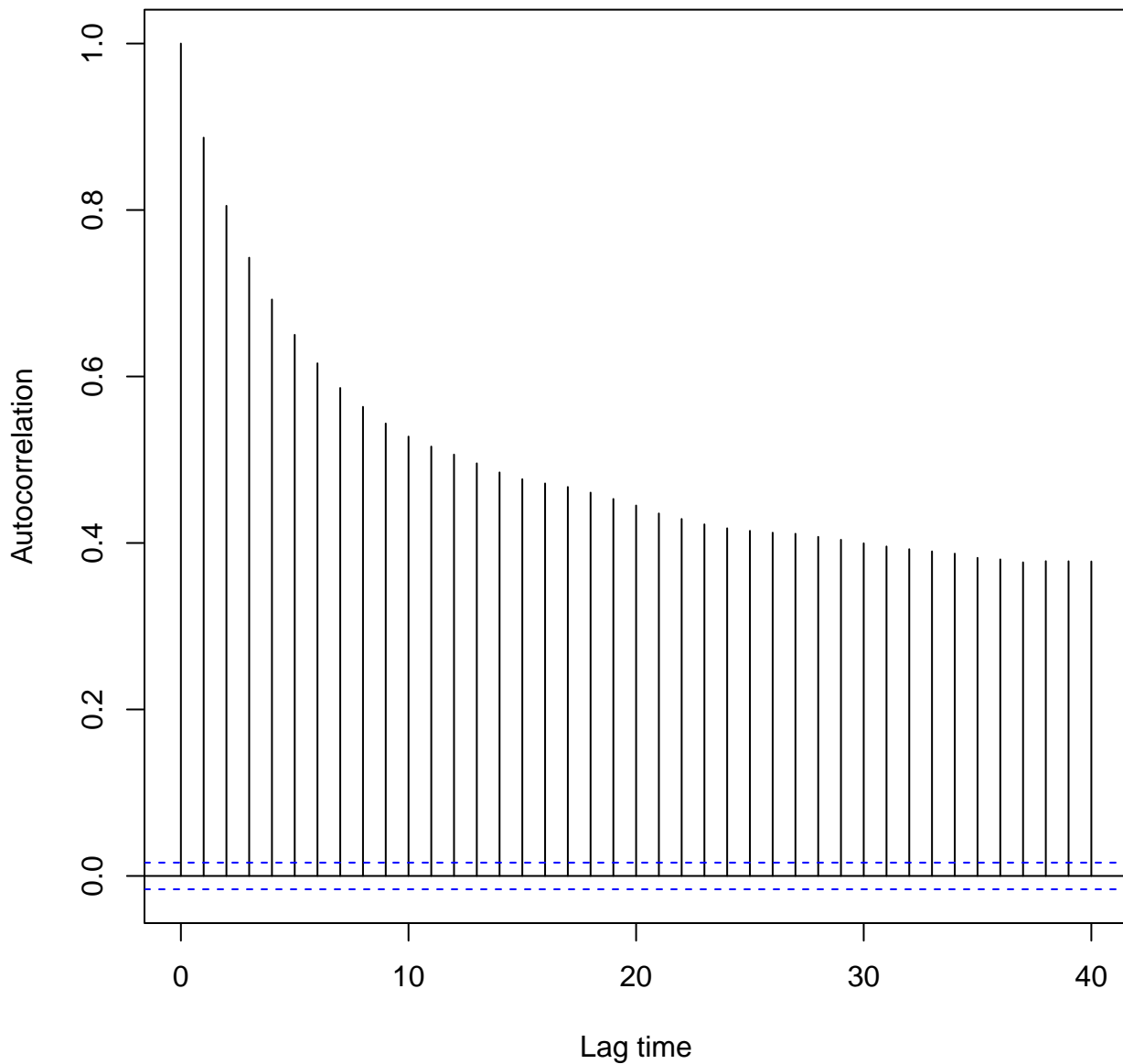
## Selection R CGG Mixture: 2



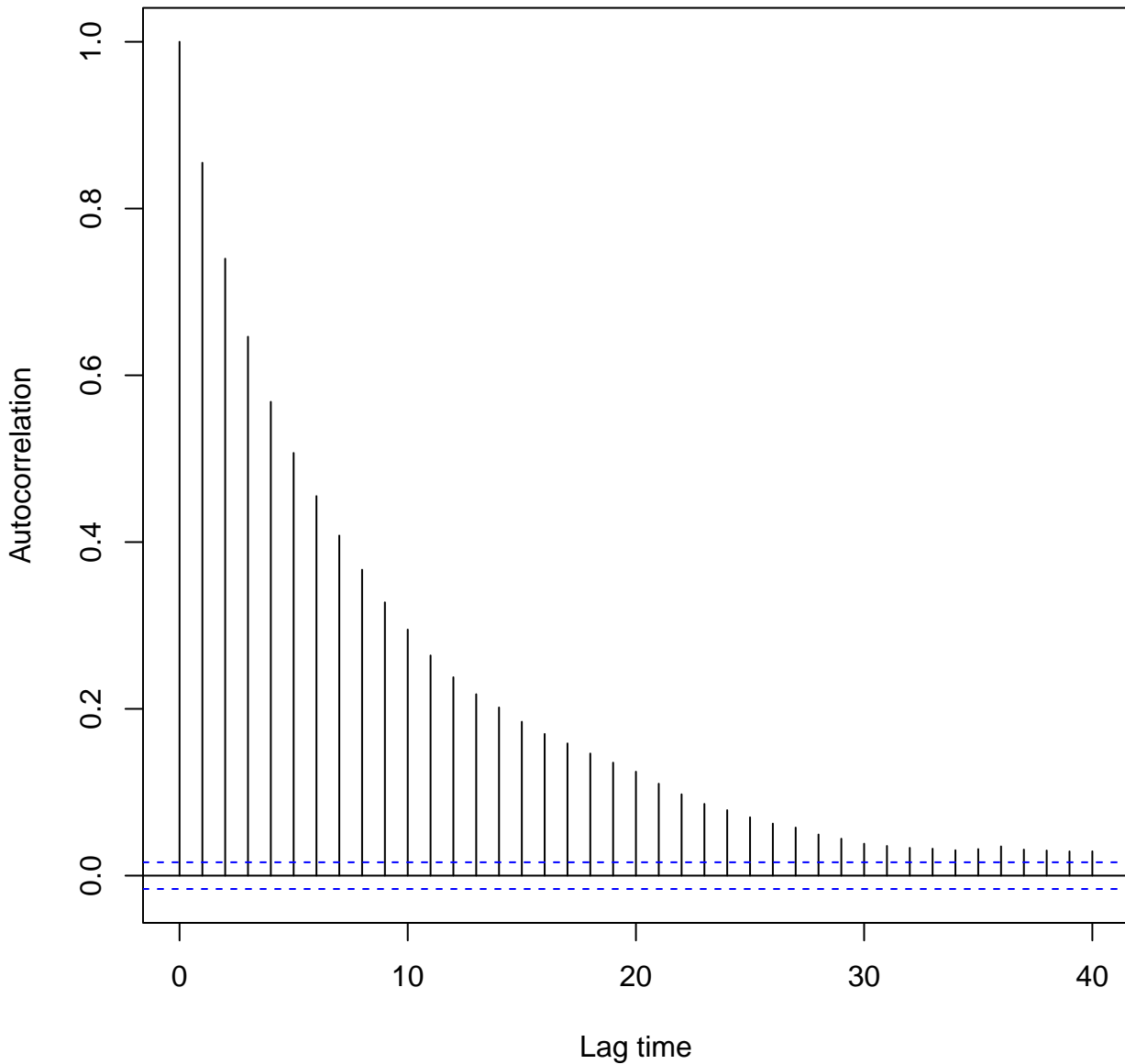
# Selection S TCA Mixture: 1



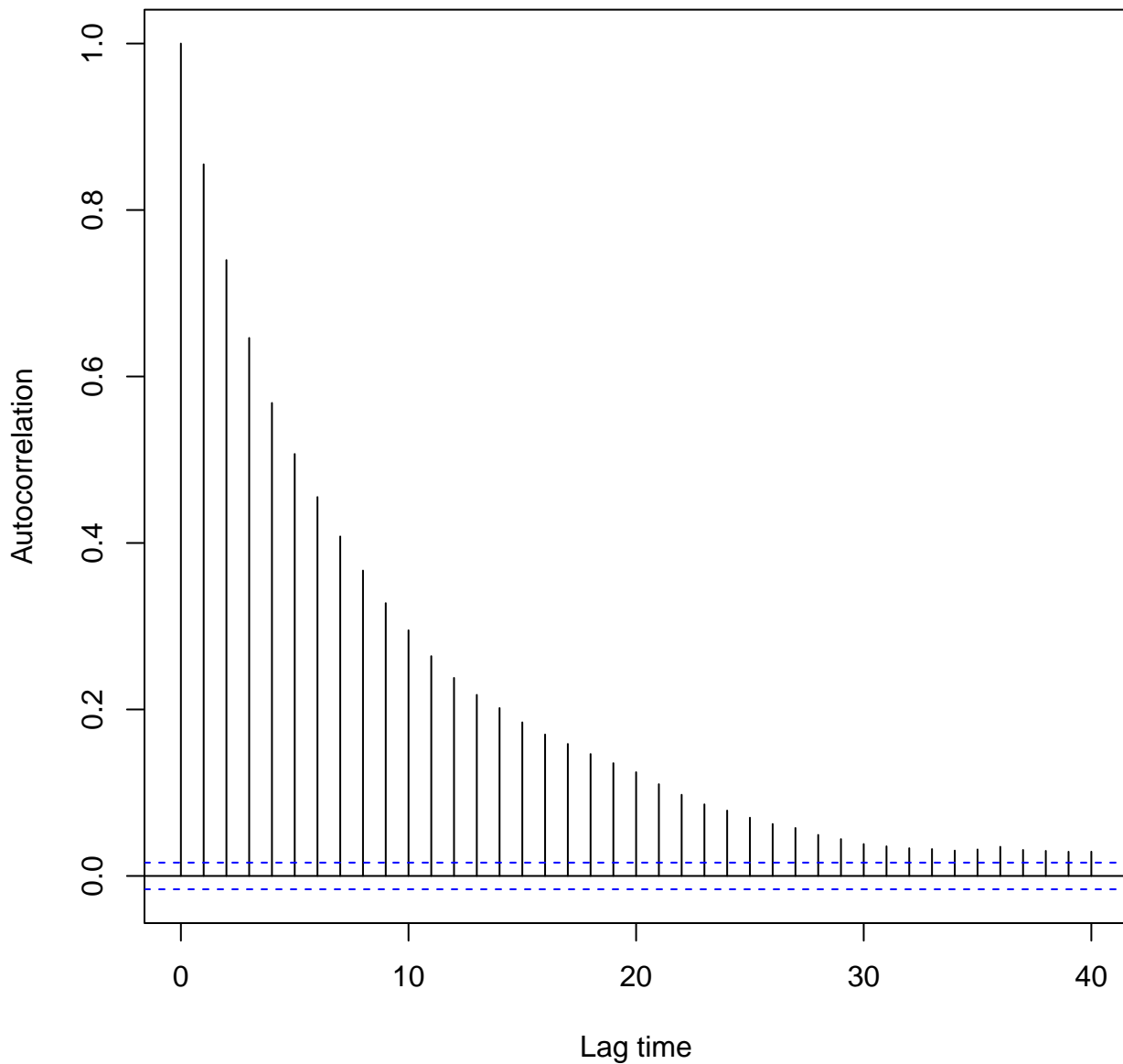
## Selection S TCA Mixture: 2



# Selection S TCC Mixture: 1

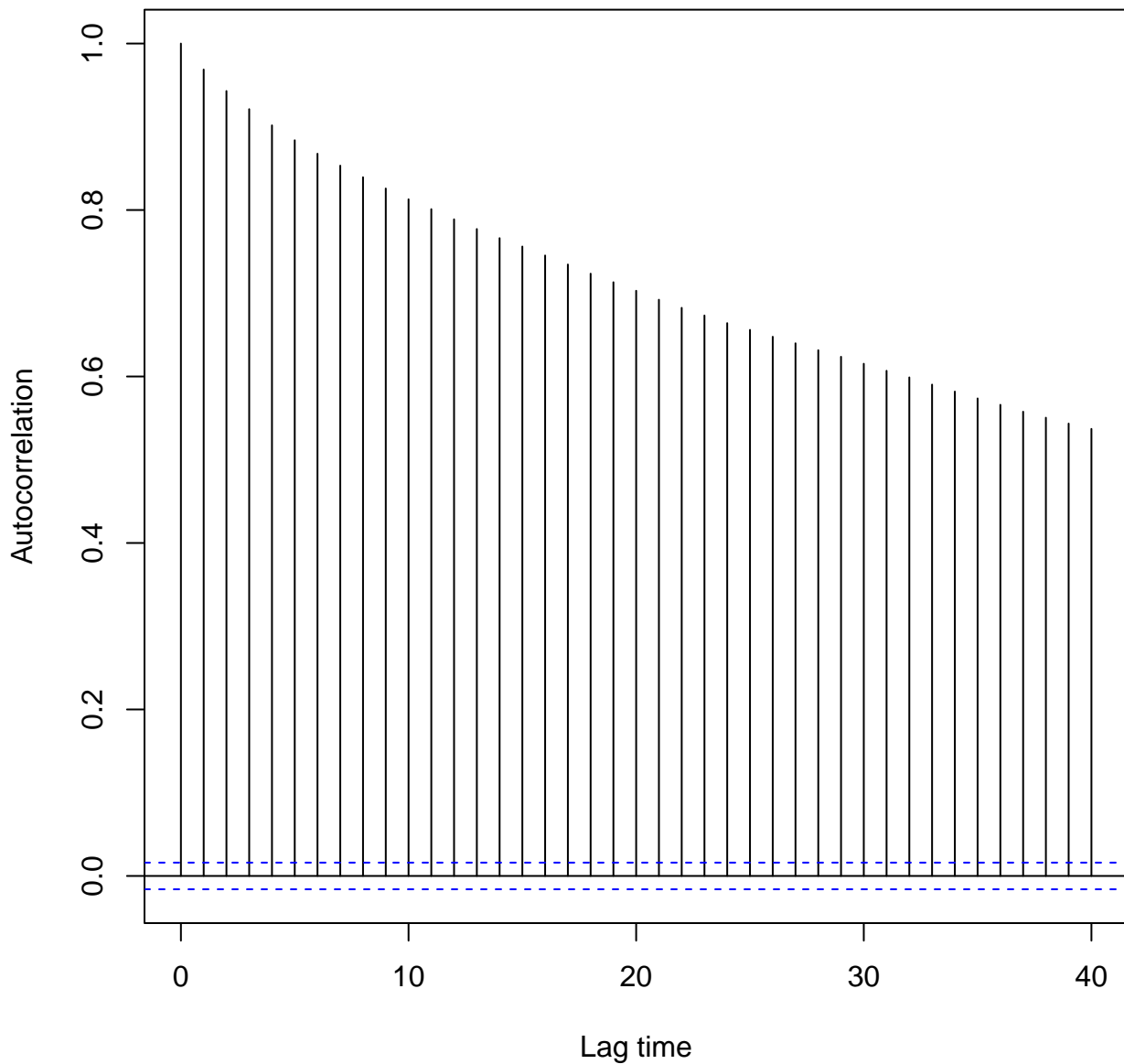


## Selection S TCC Mixture: 2

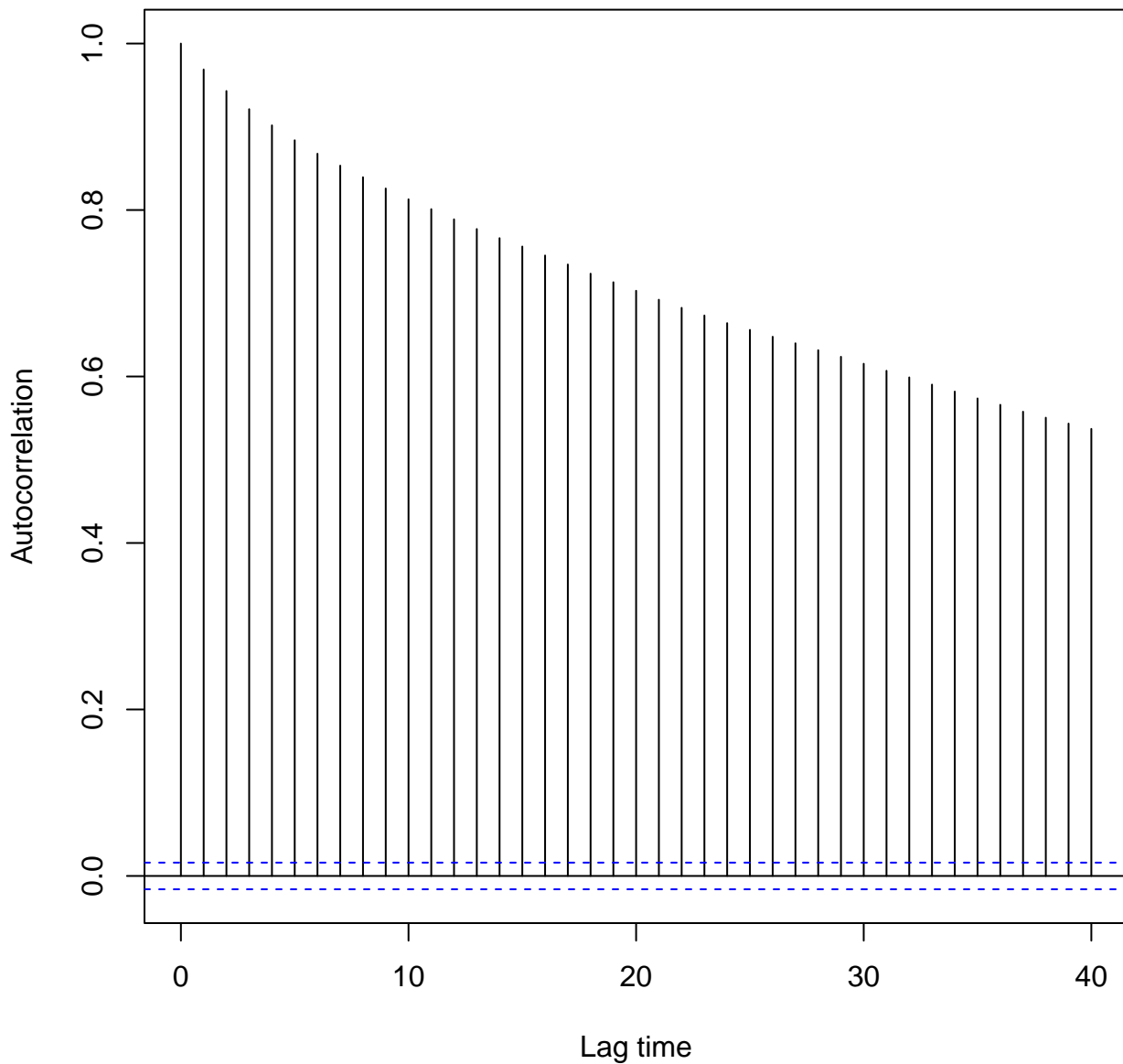




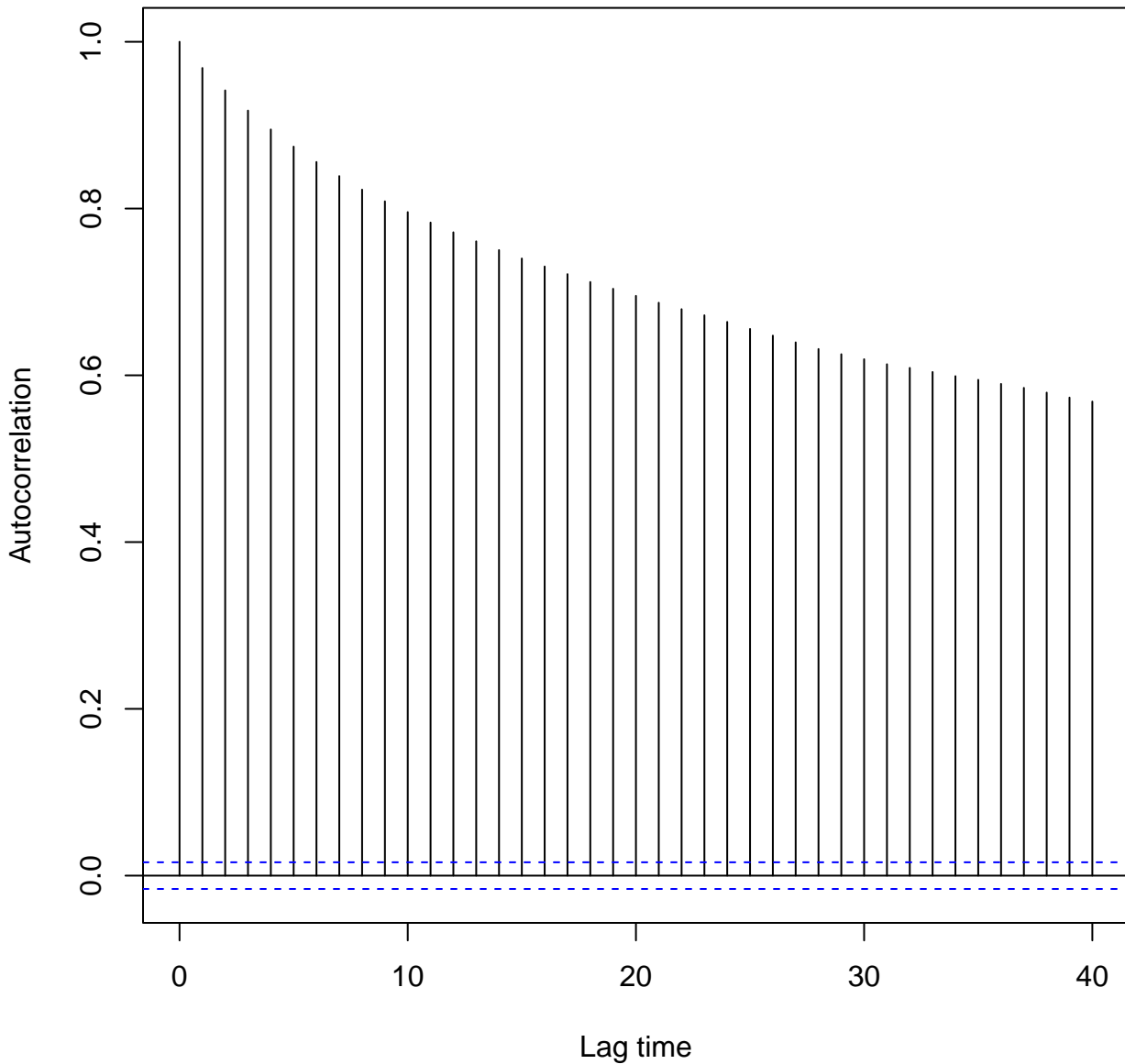
# Selection S TCG Mixture: 1



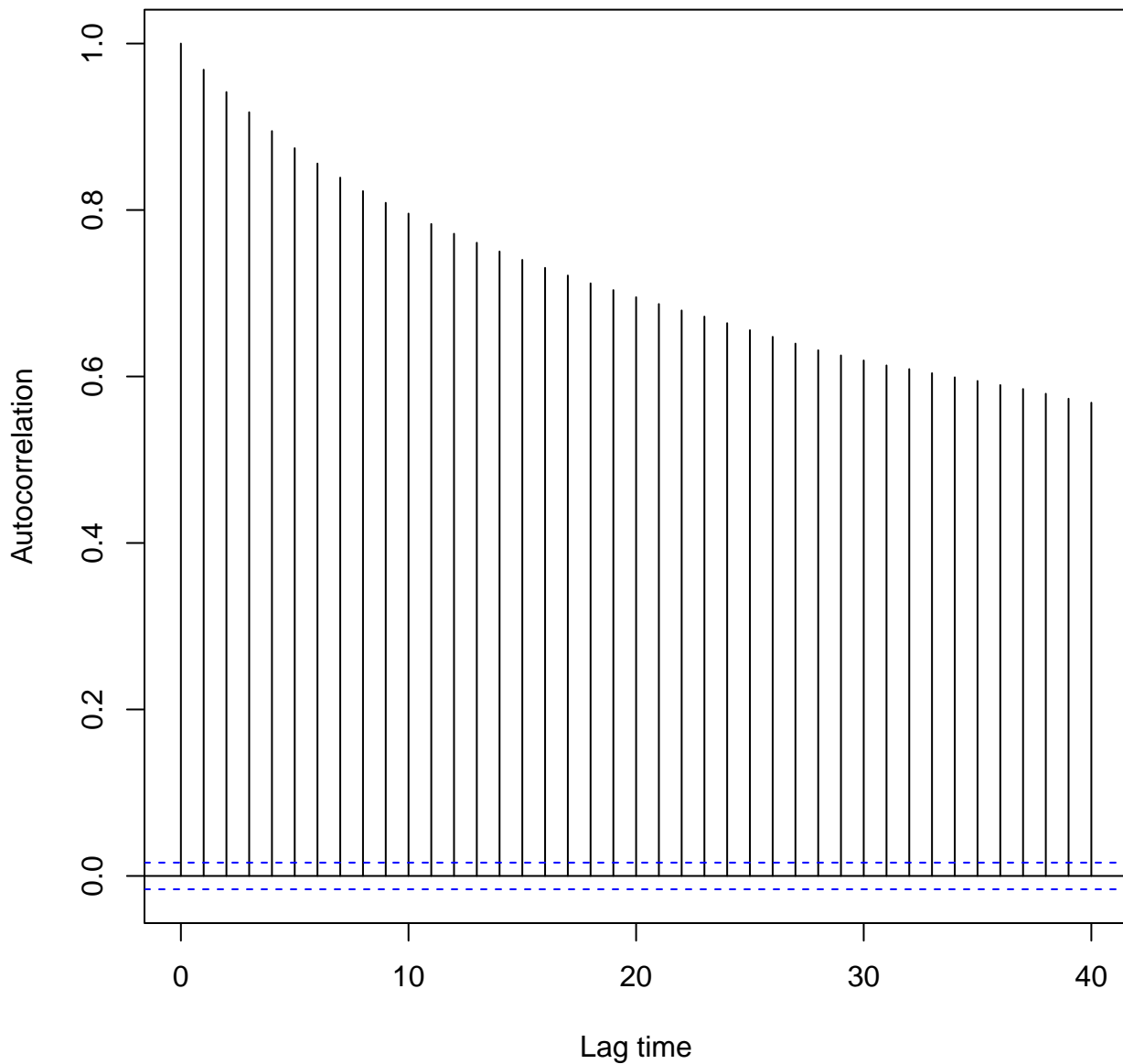
## Selection S TCG Mixture: 2



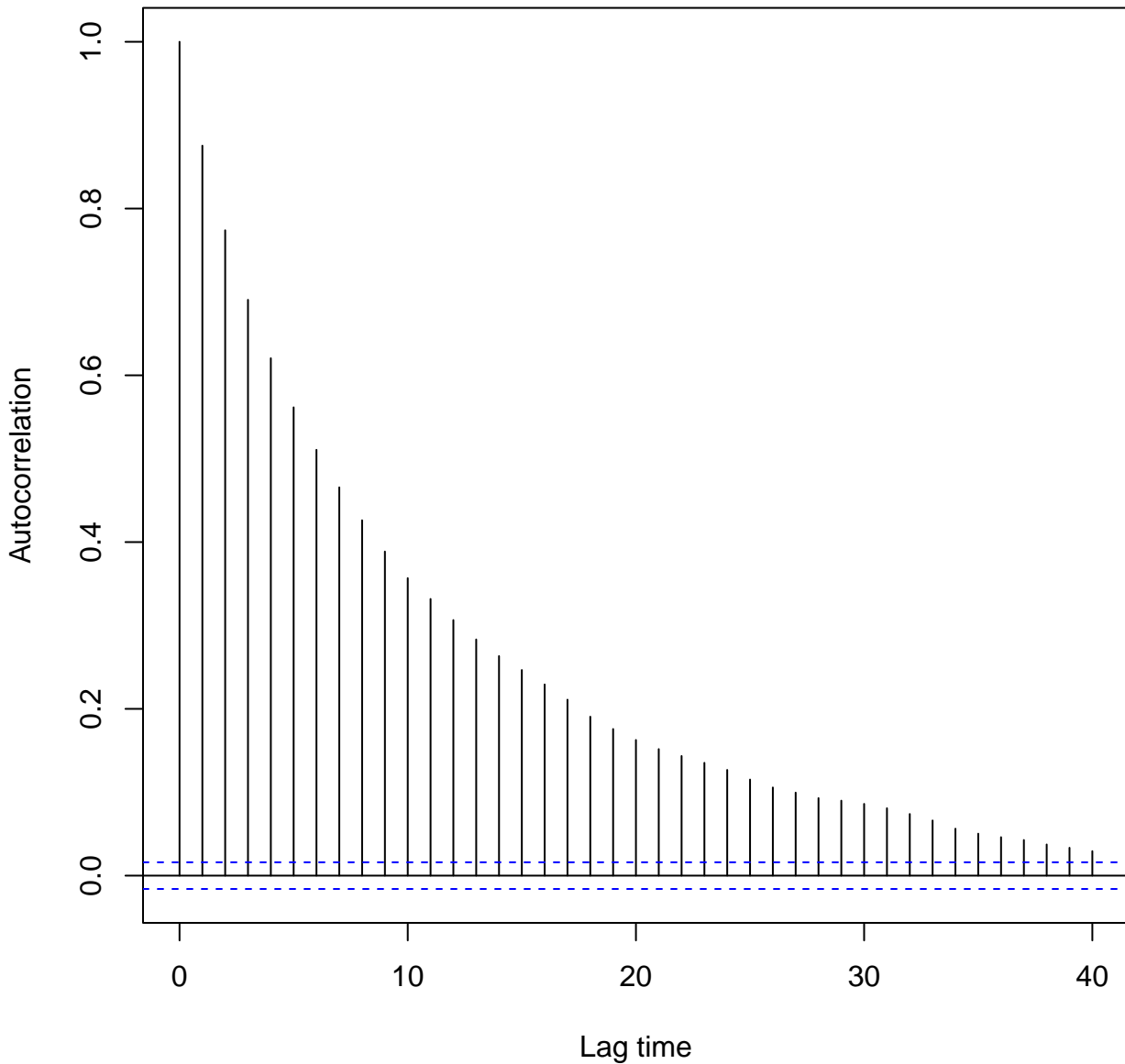
# Selection T ACA Mixture: 1



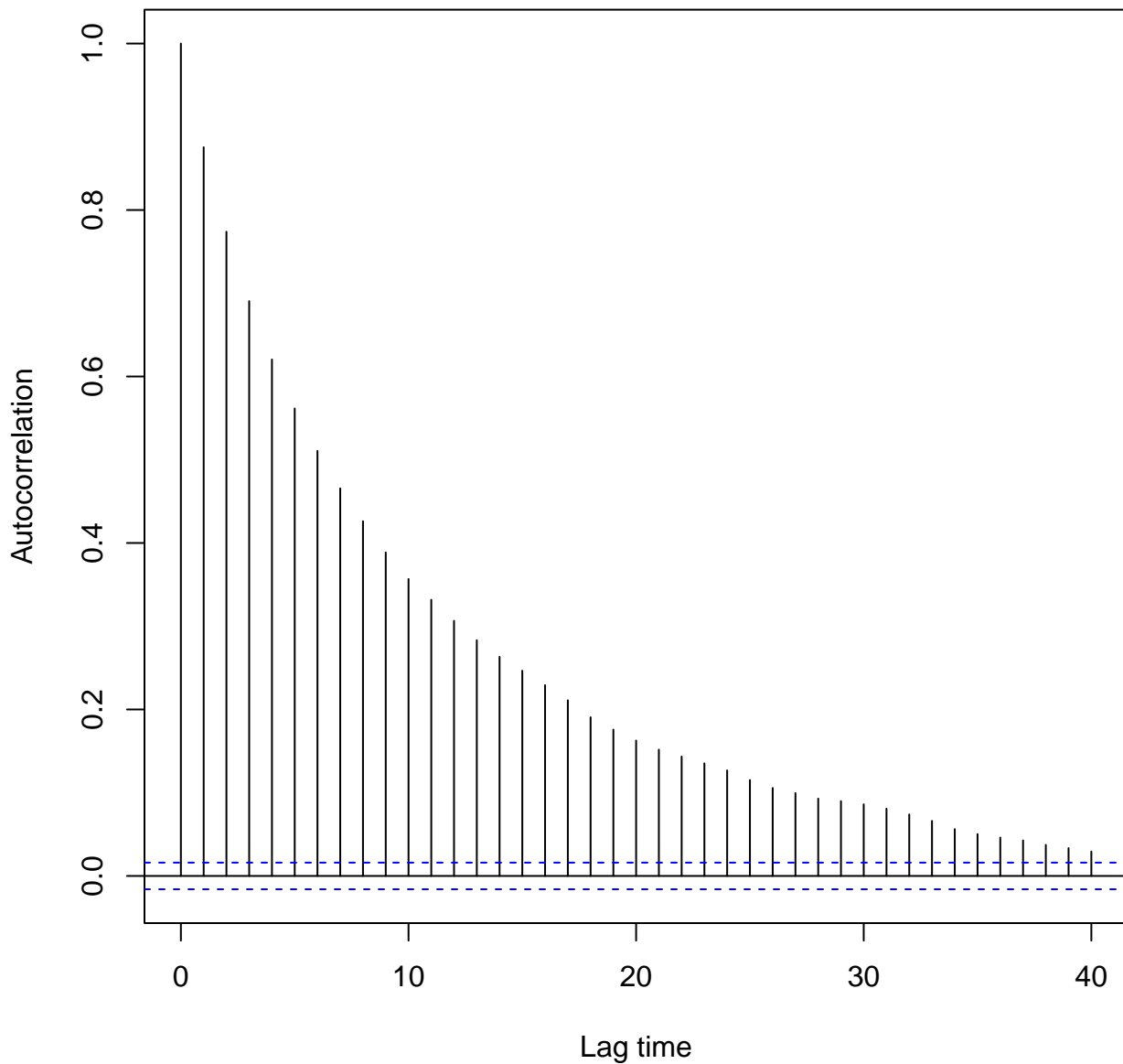
## Selection T ACA Mixture: 2



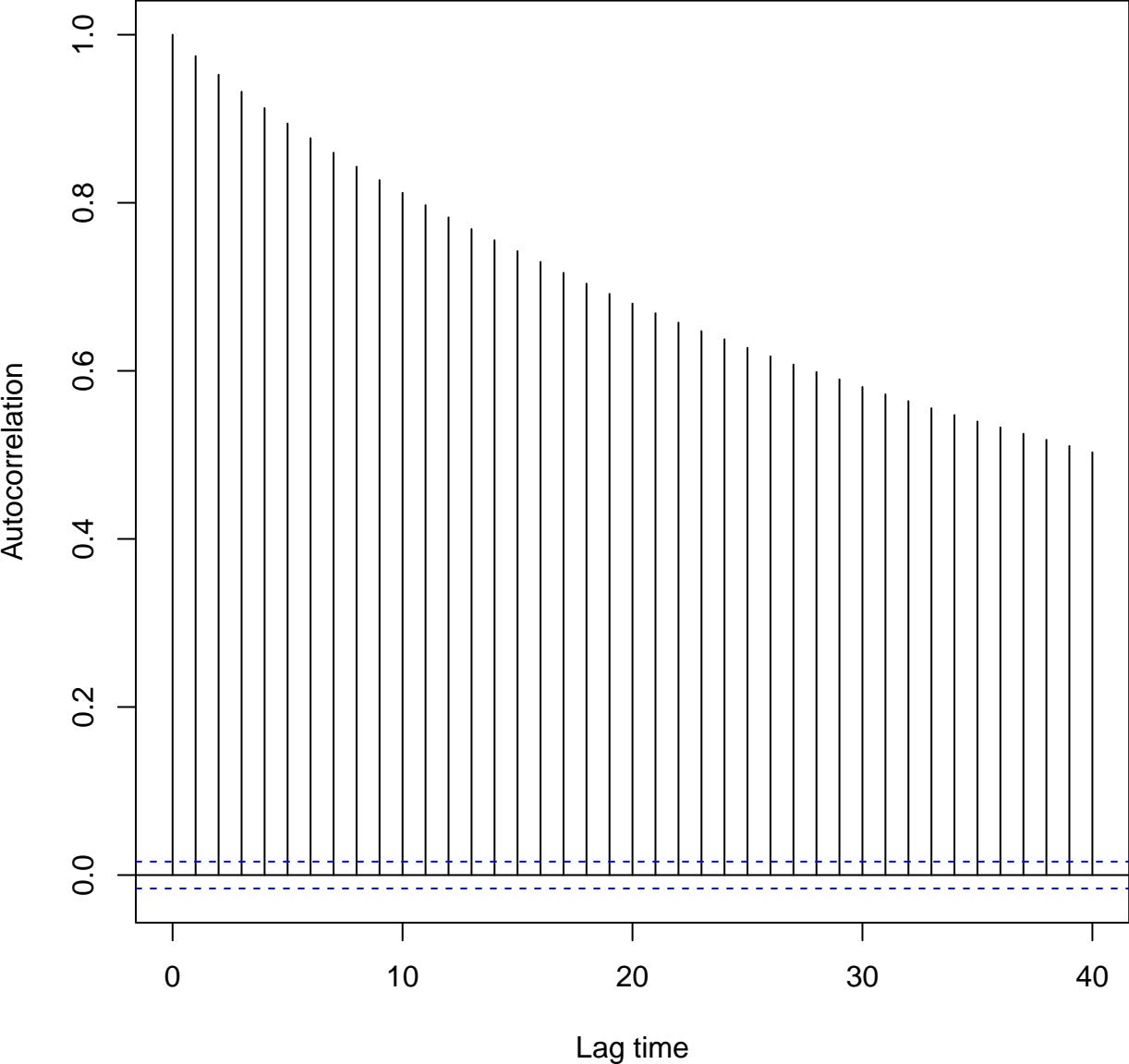
# Selection T ACC Mixture: 1



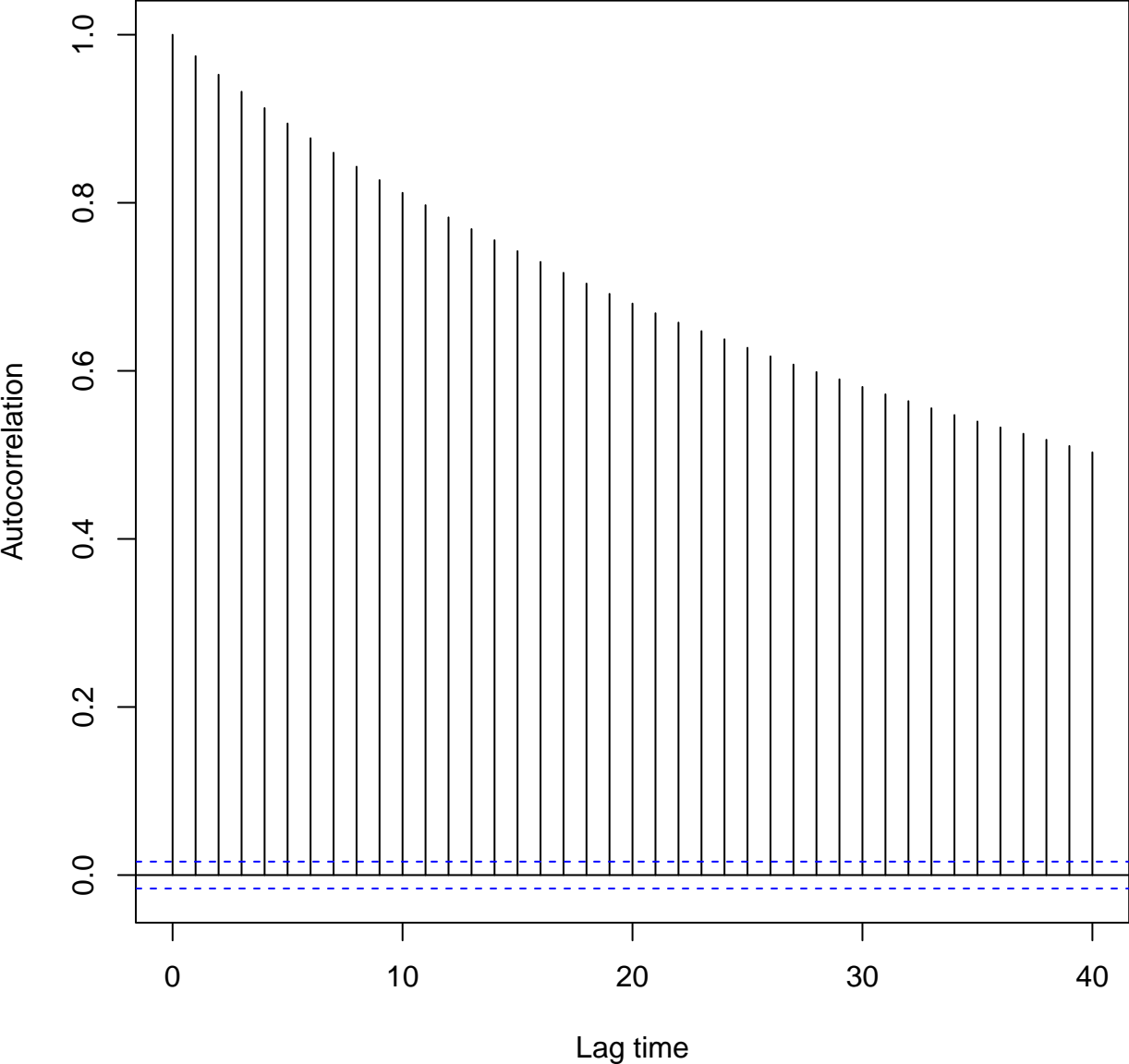
## Selection T ACC Mixture: 2



Selection T ACG Mixture: 1

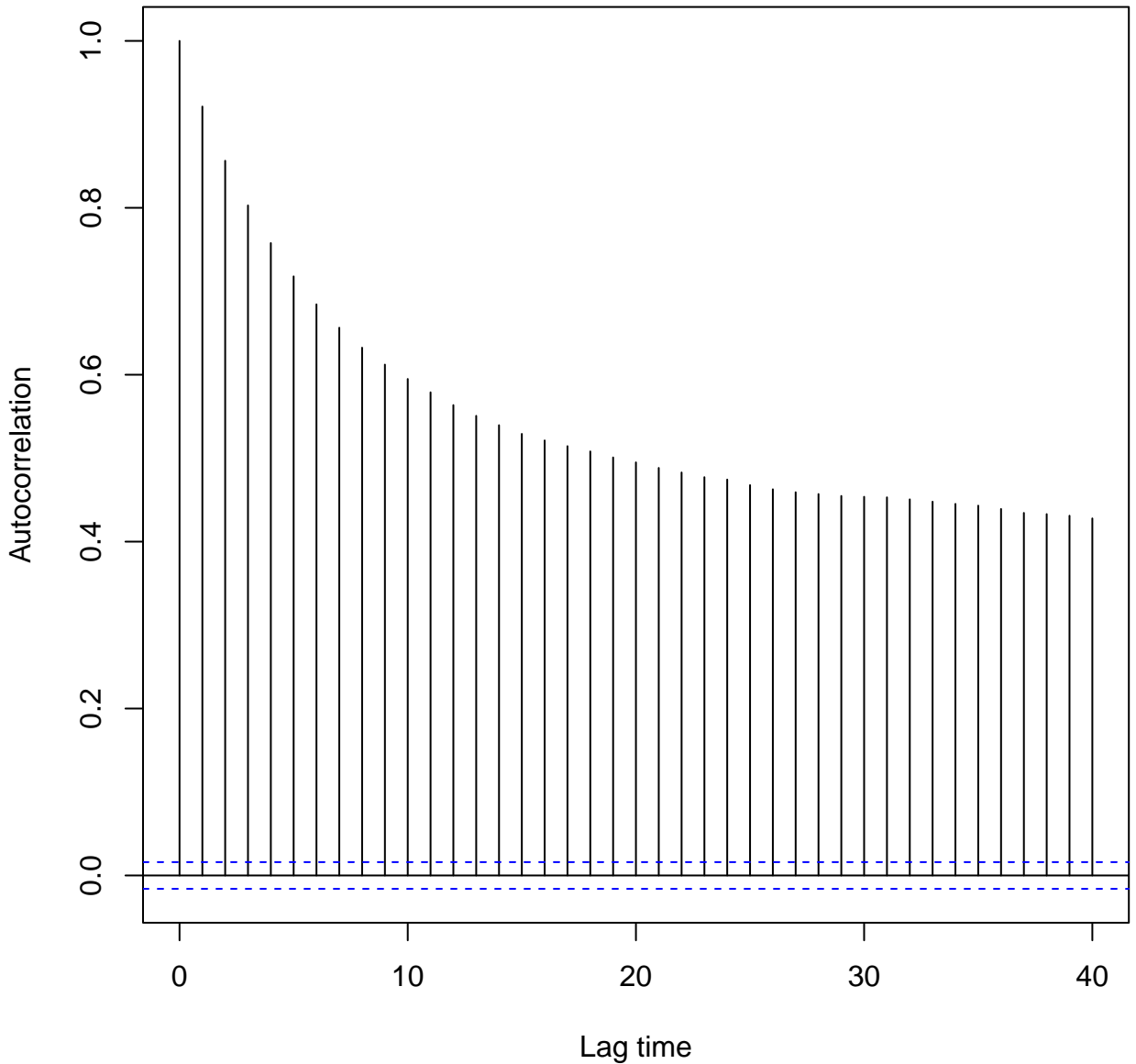


Selection T ACG Mixture: 2

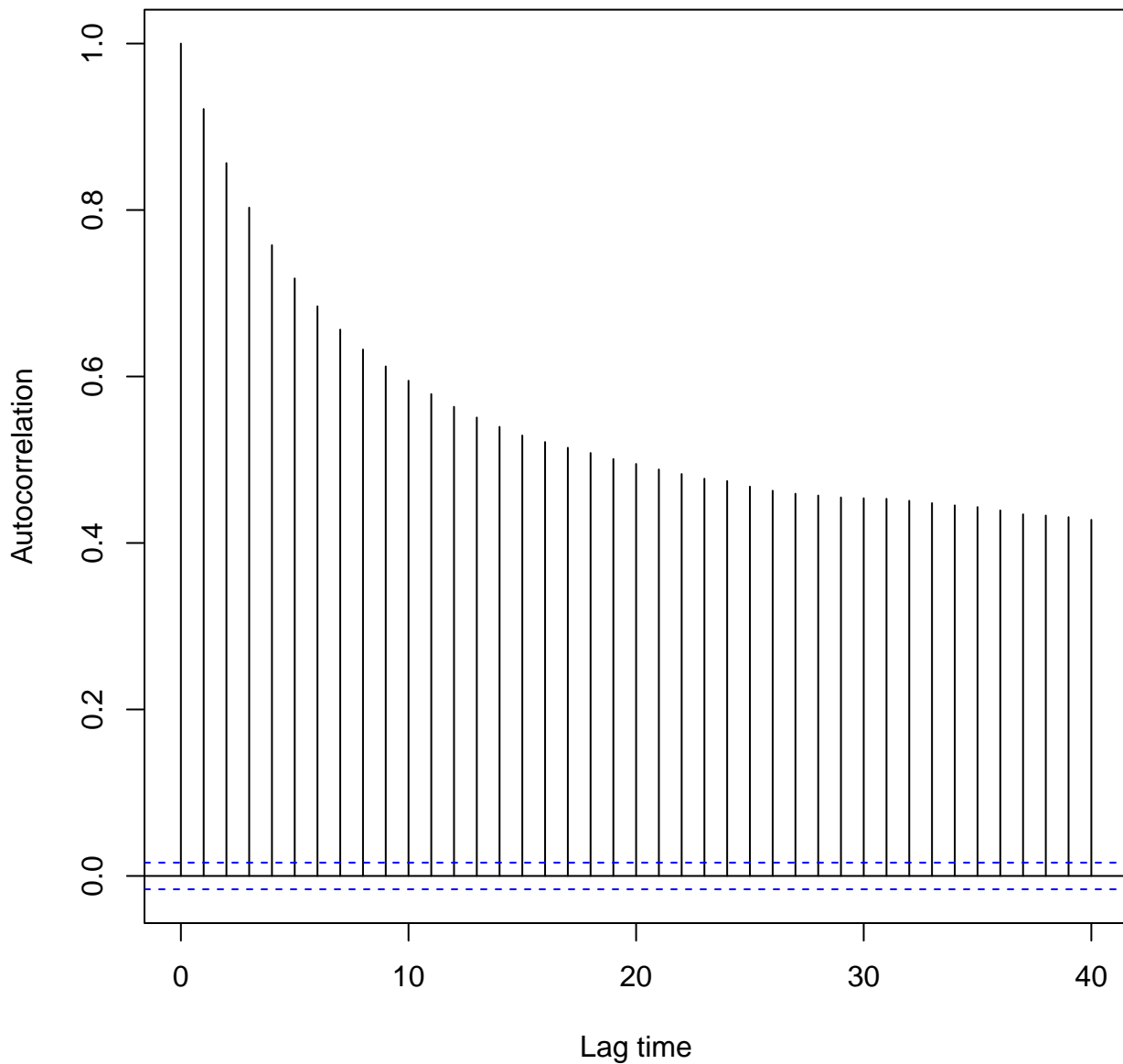




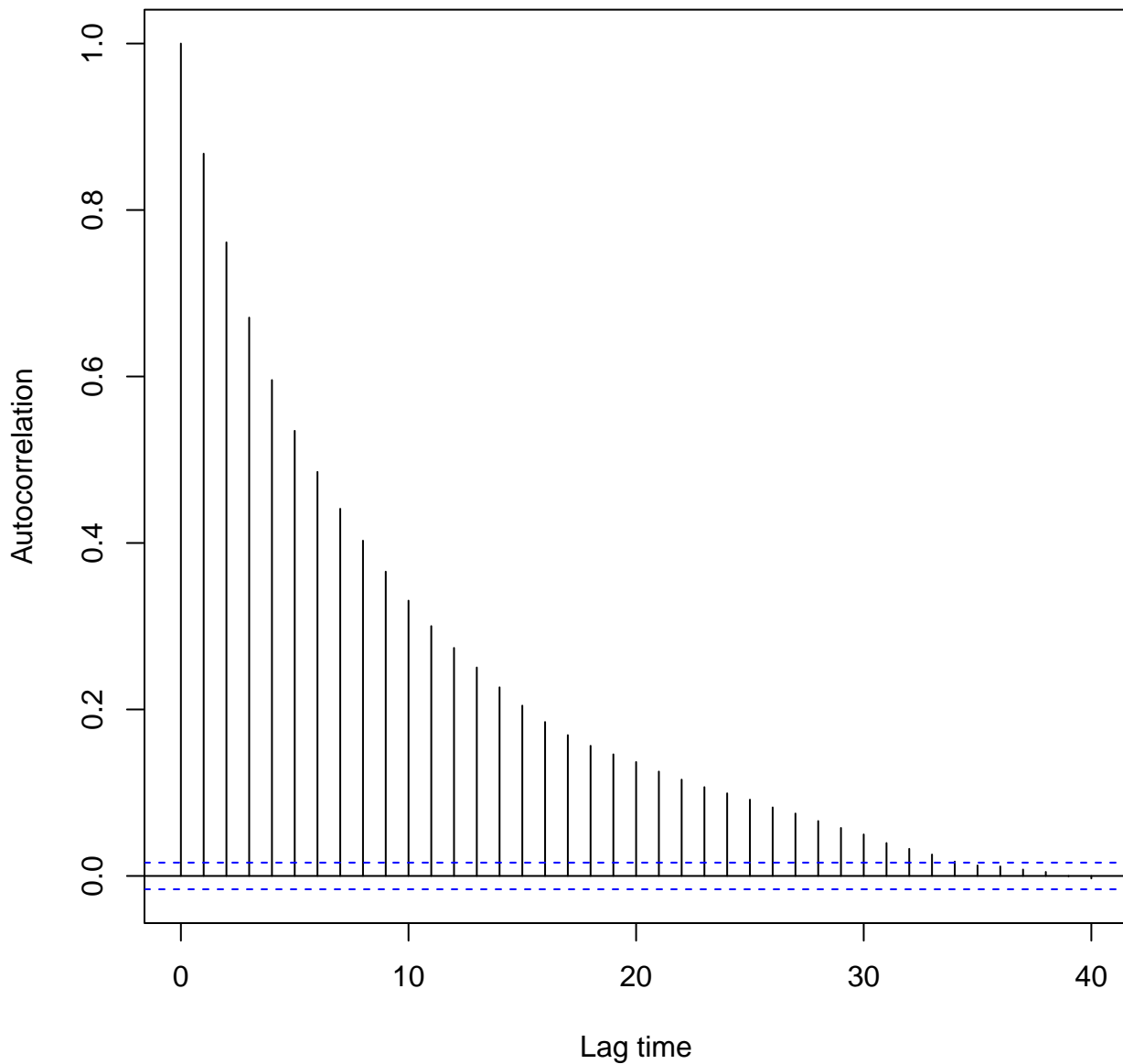
# Selection V GTA Mixture: 1



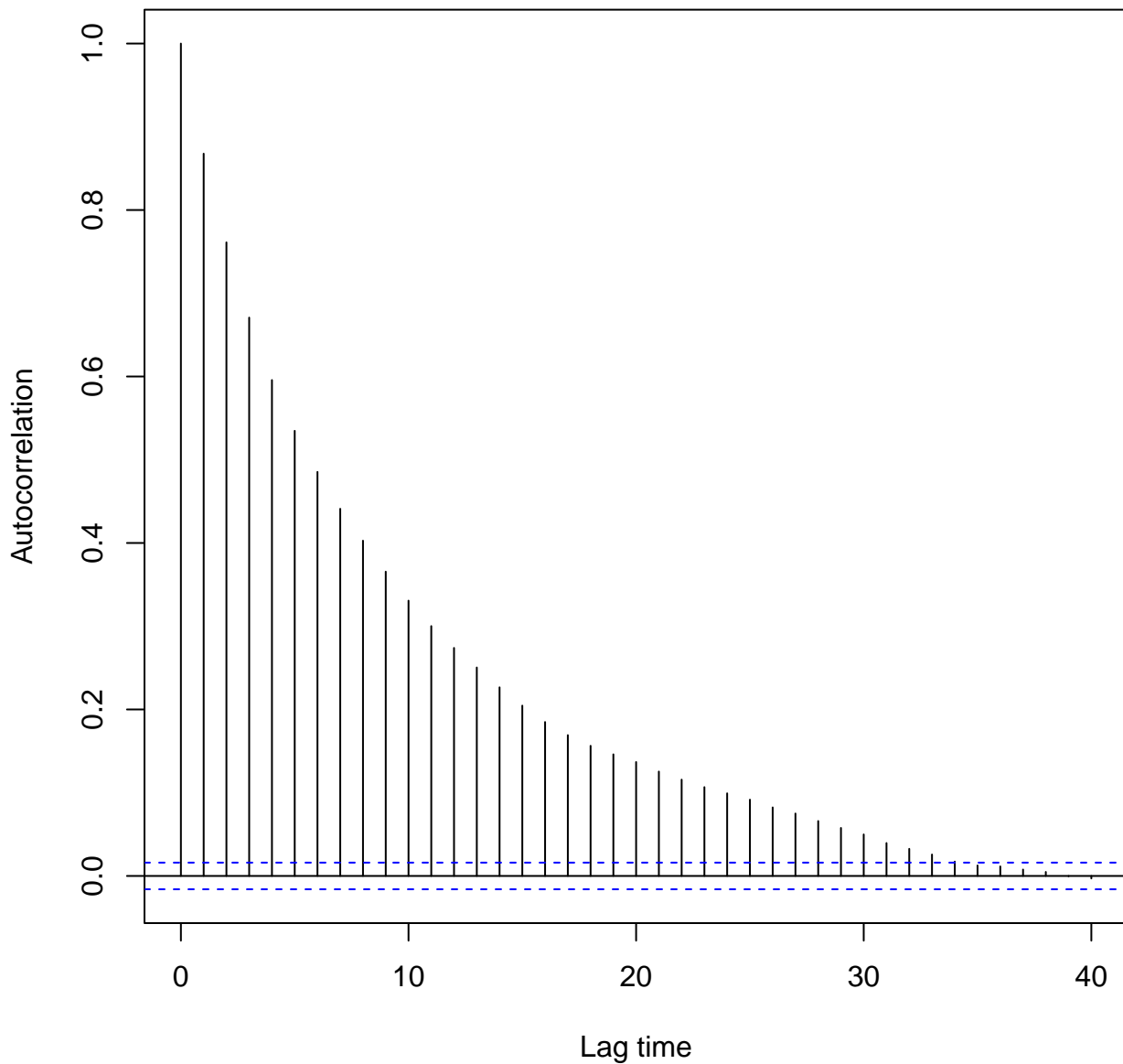
## Selection V GTA Mixture: 2



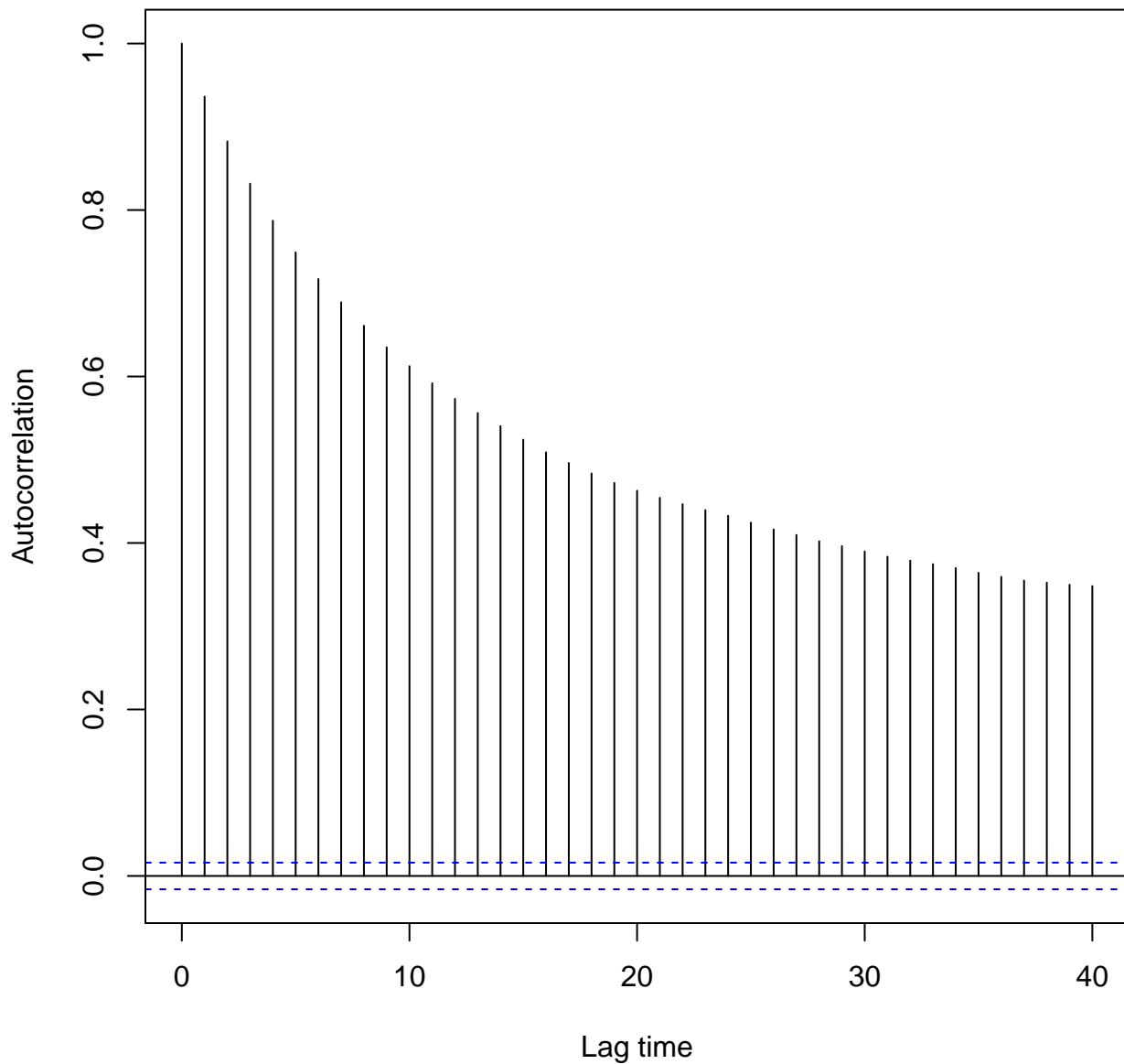
# Selection V GTC Mixture: 1



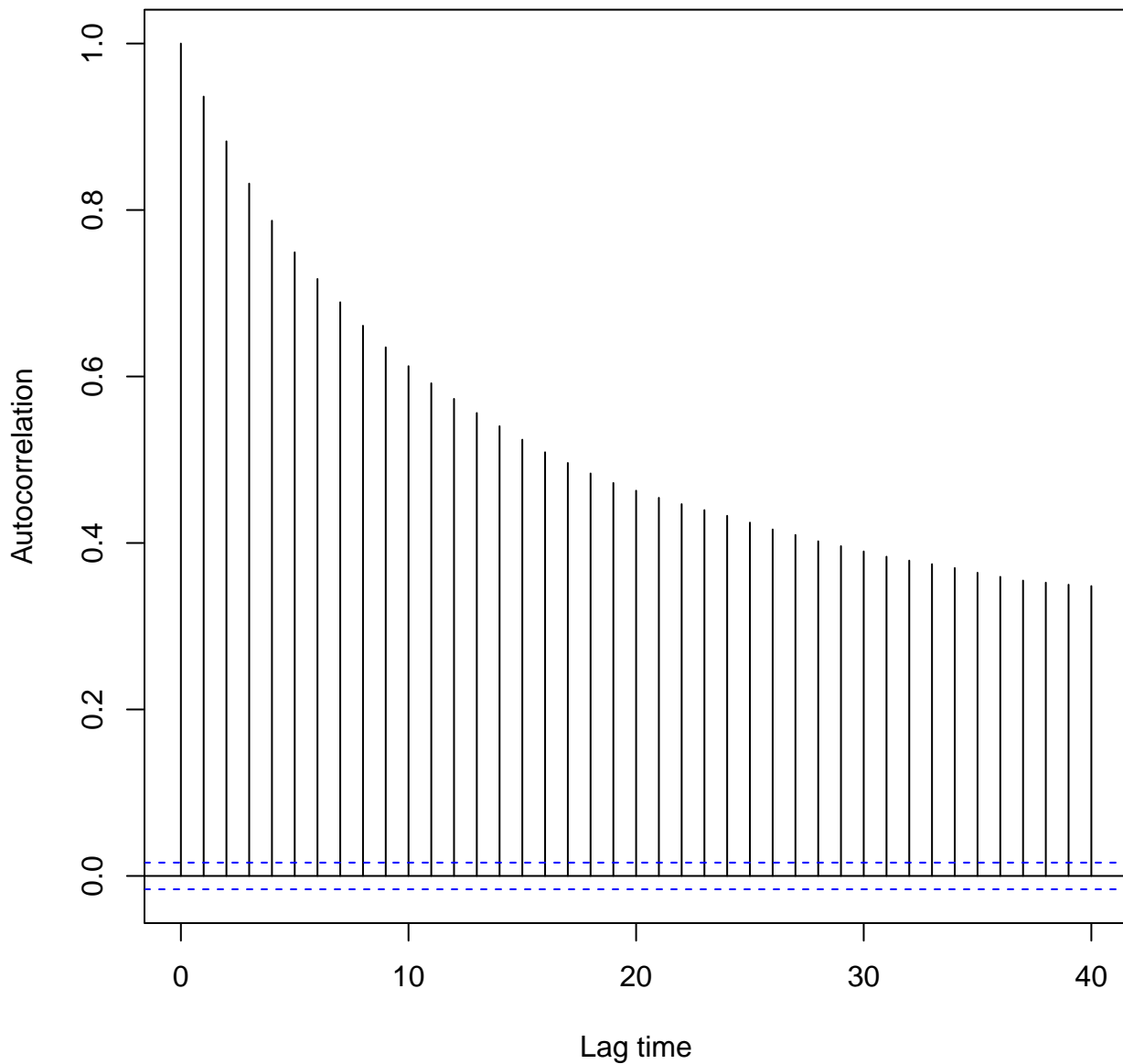
## Selection V GTC Mixture: 2



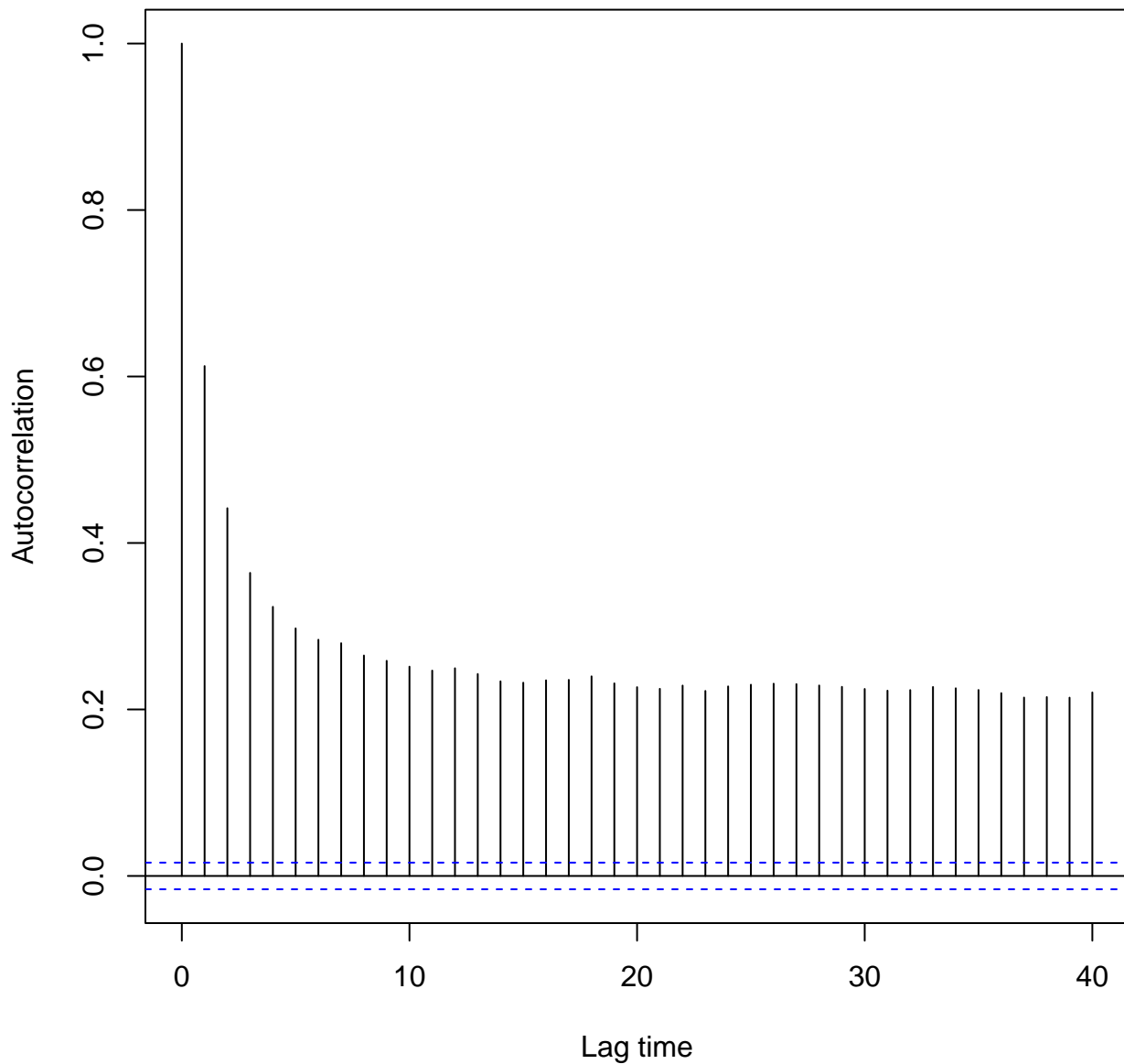
# Selection V GTG Mixture: 1



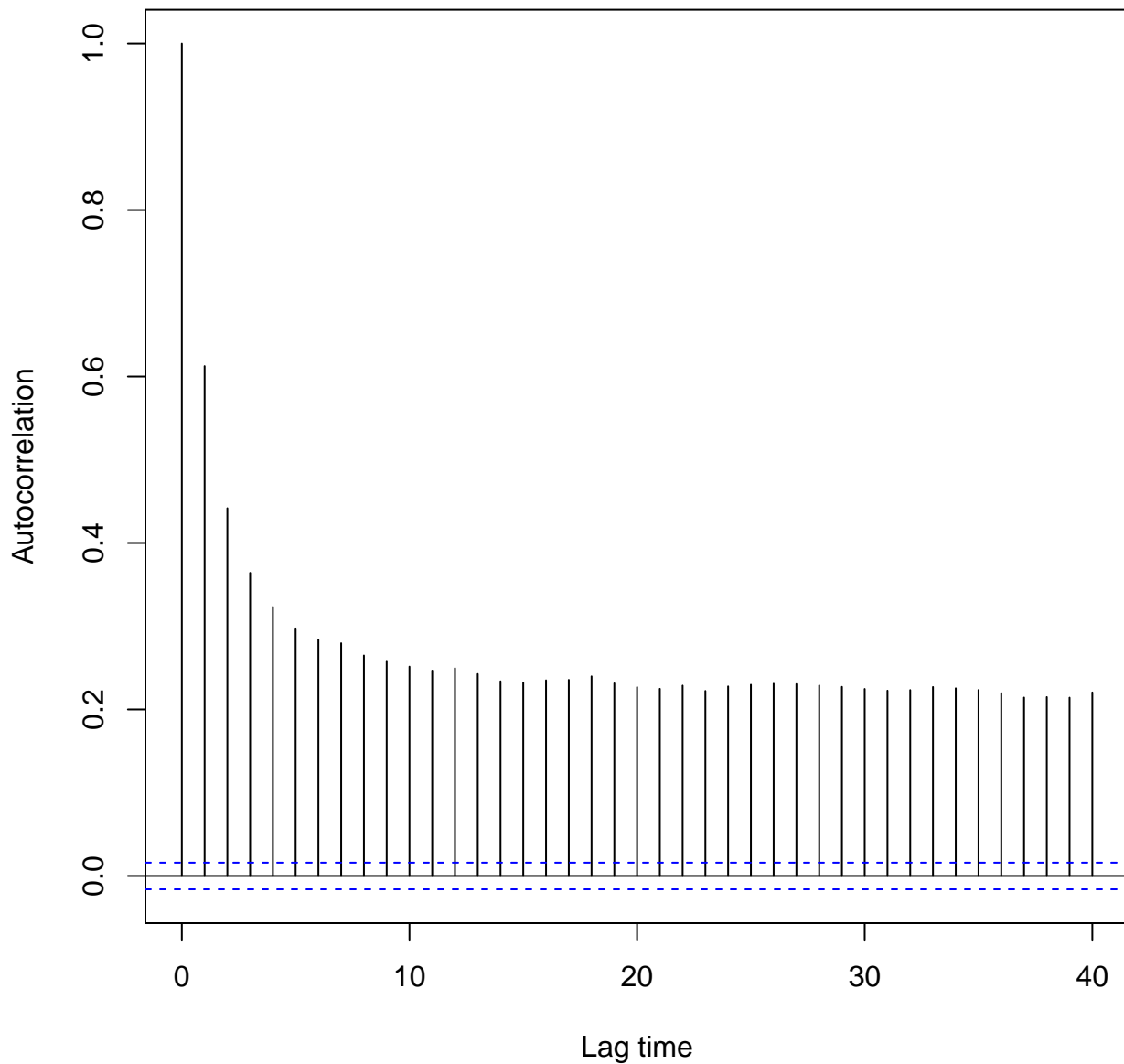
## Selection V GTG Mixture: 2



# Selection Y TAC Mixture: 1

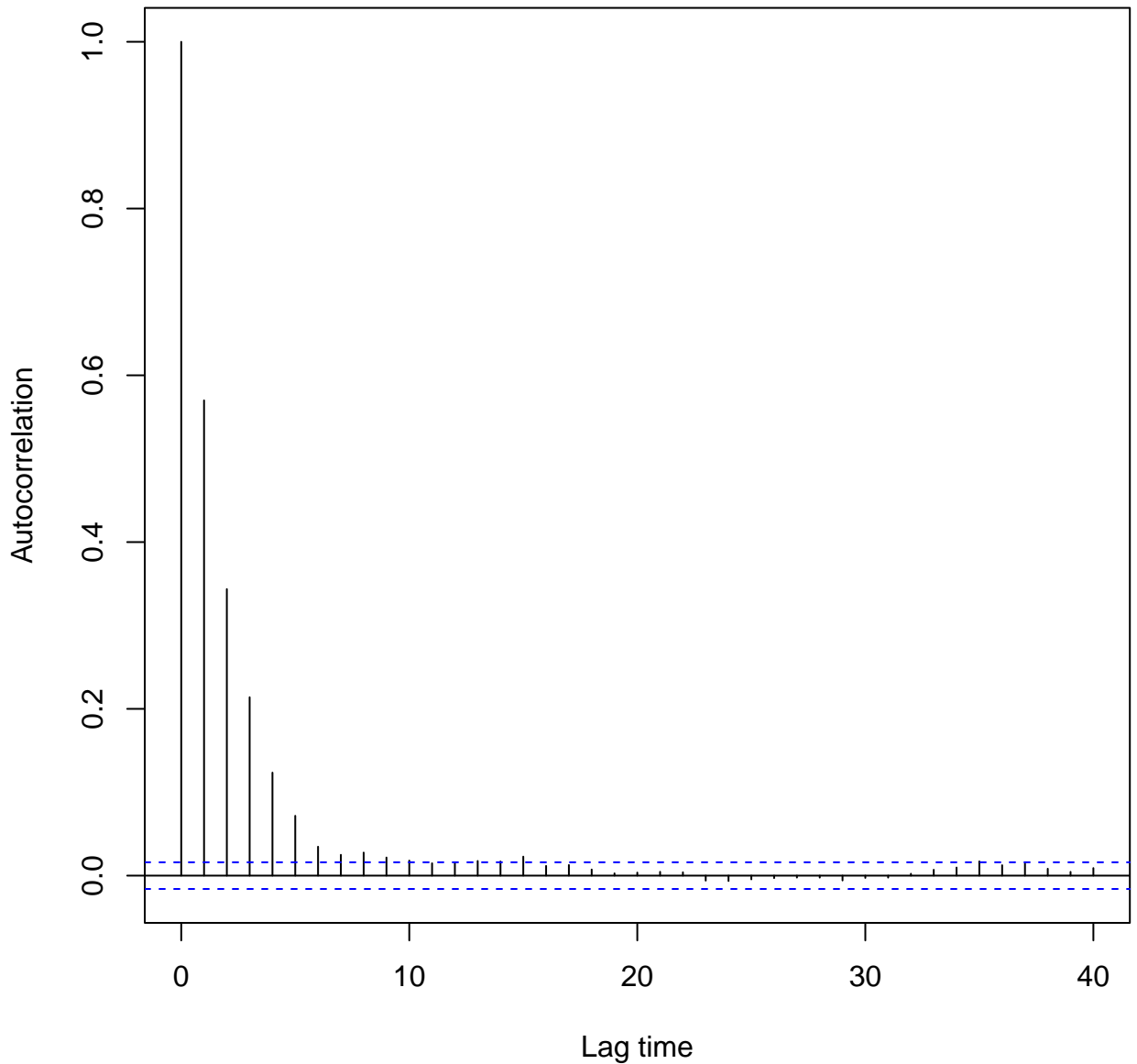


## Selection Y TAC Mixture: 2

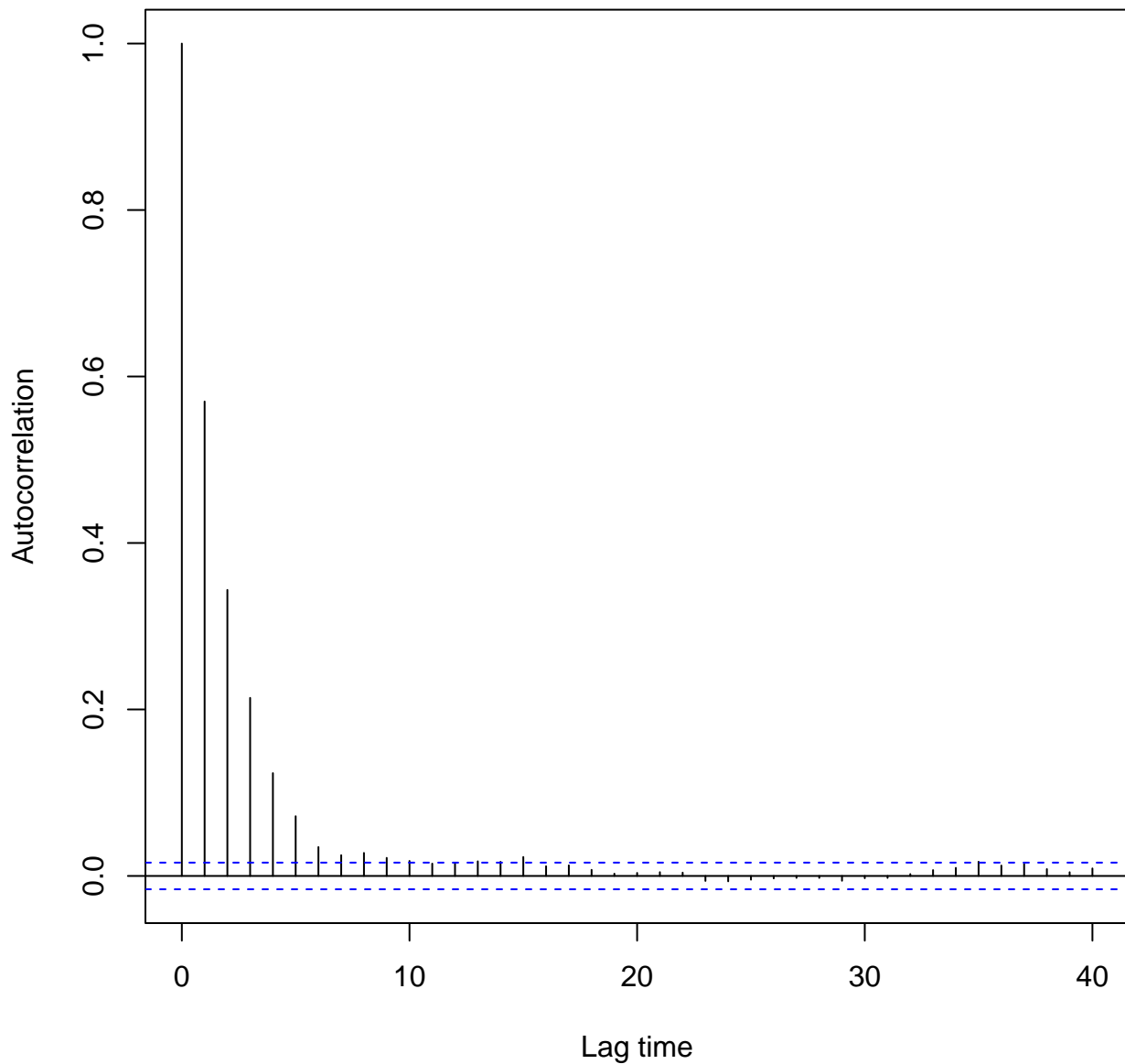




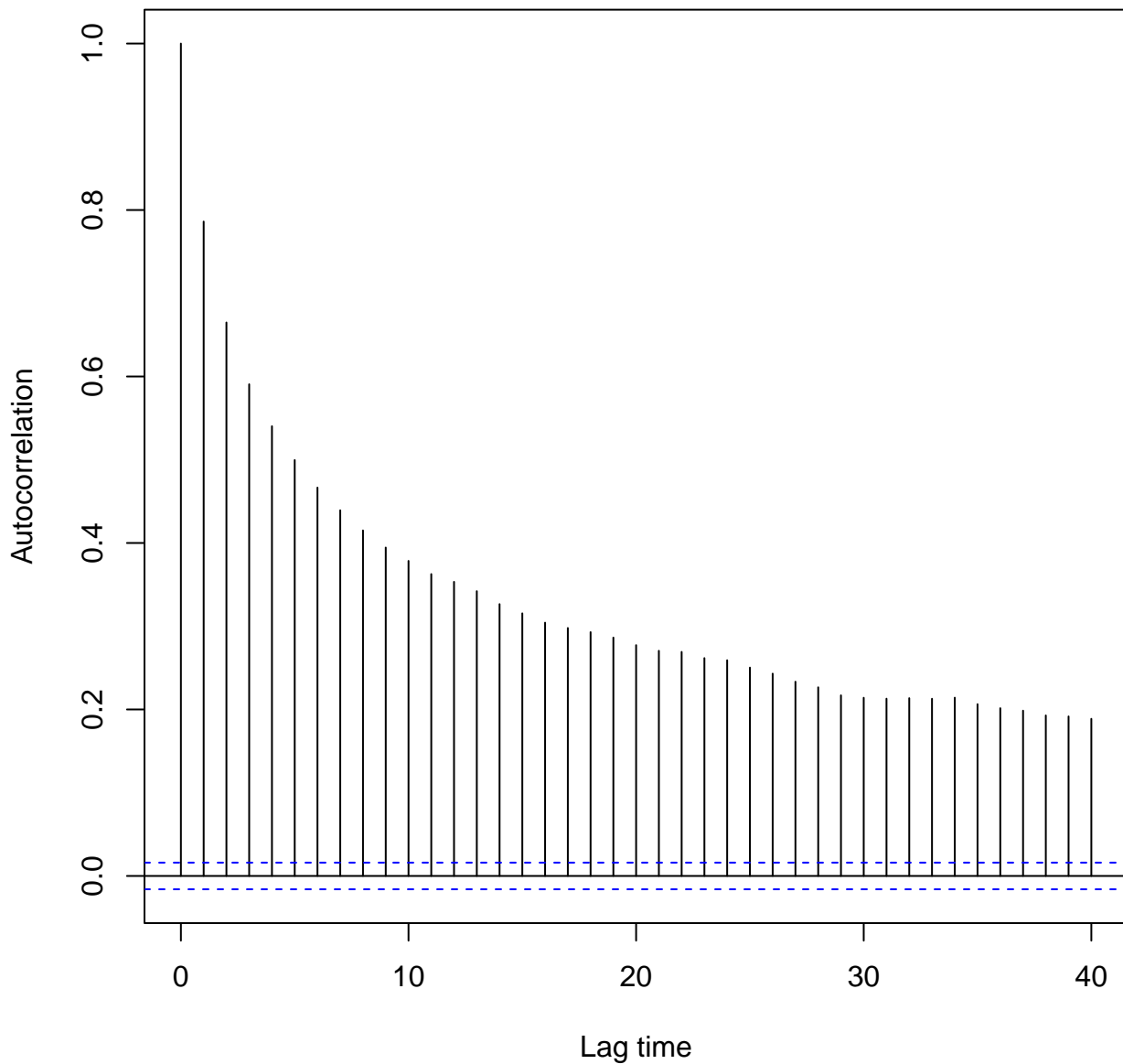
# Selection Z AGC Mixture: 1



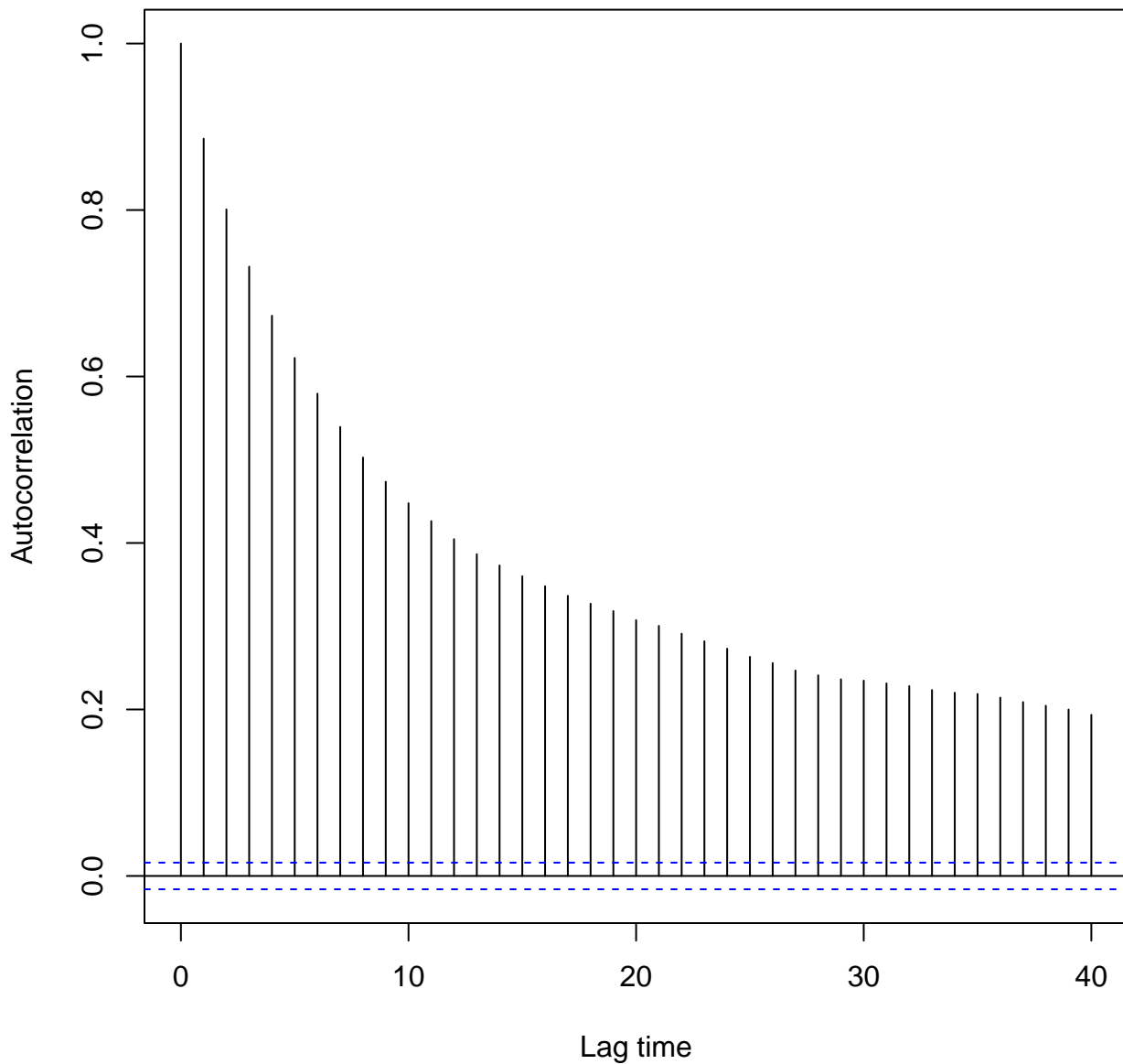
## Selection Z AGC Mixture: 2



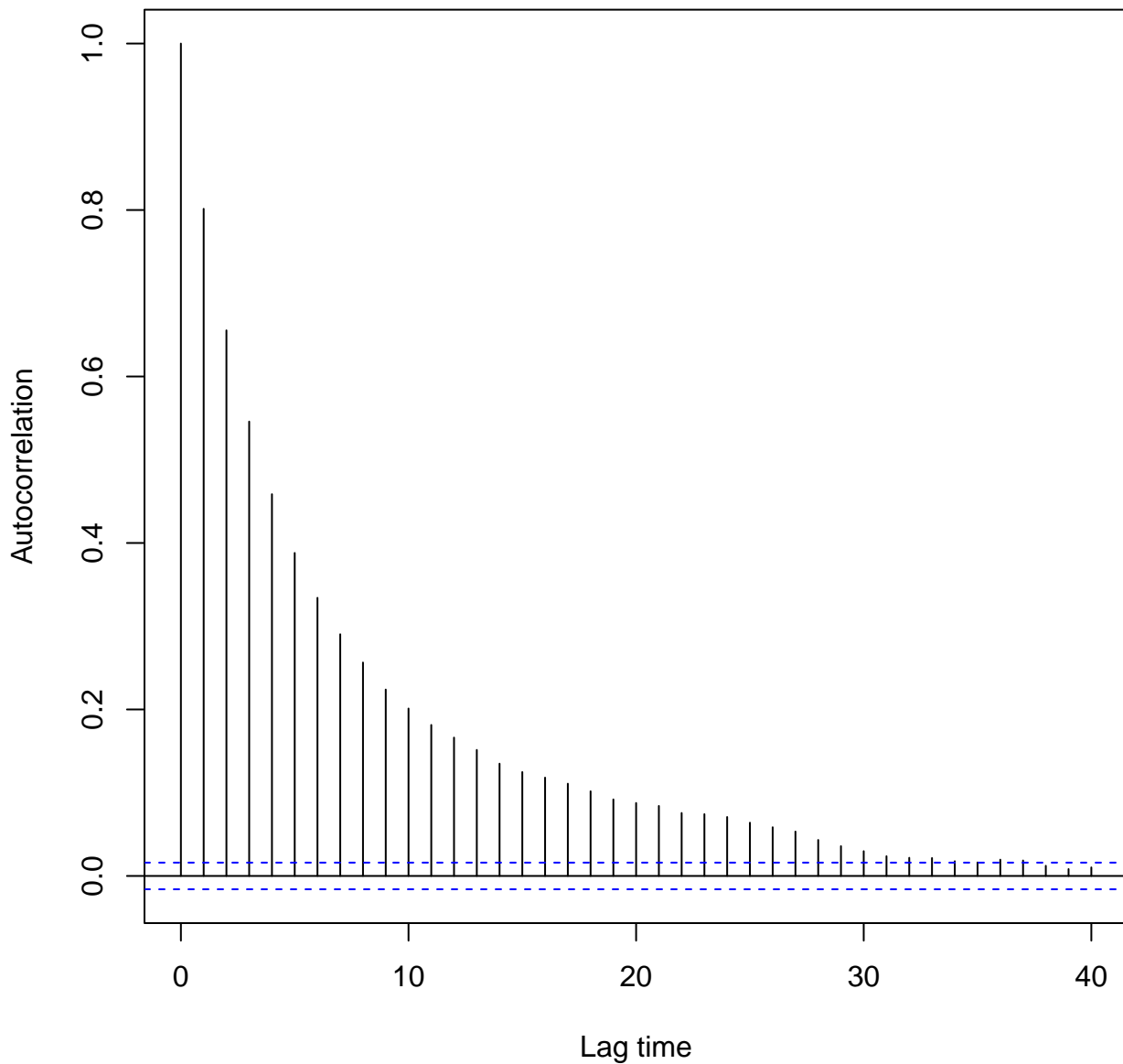
# Mutation A GCA Mixture: 1



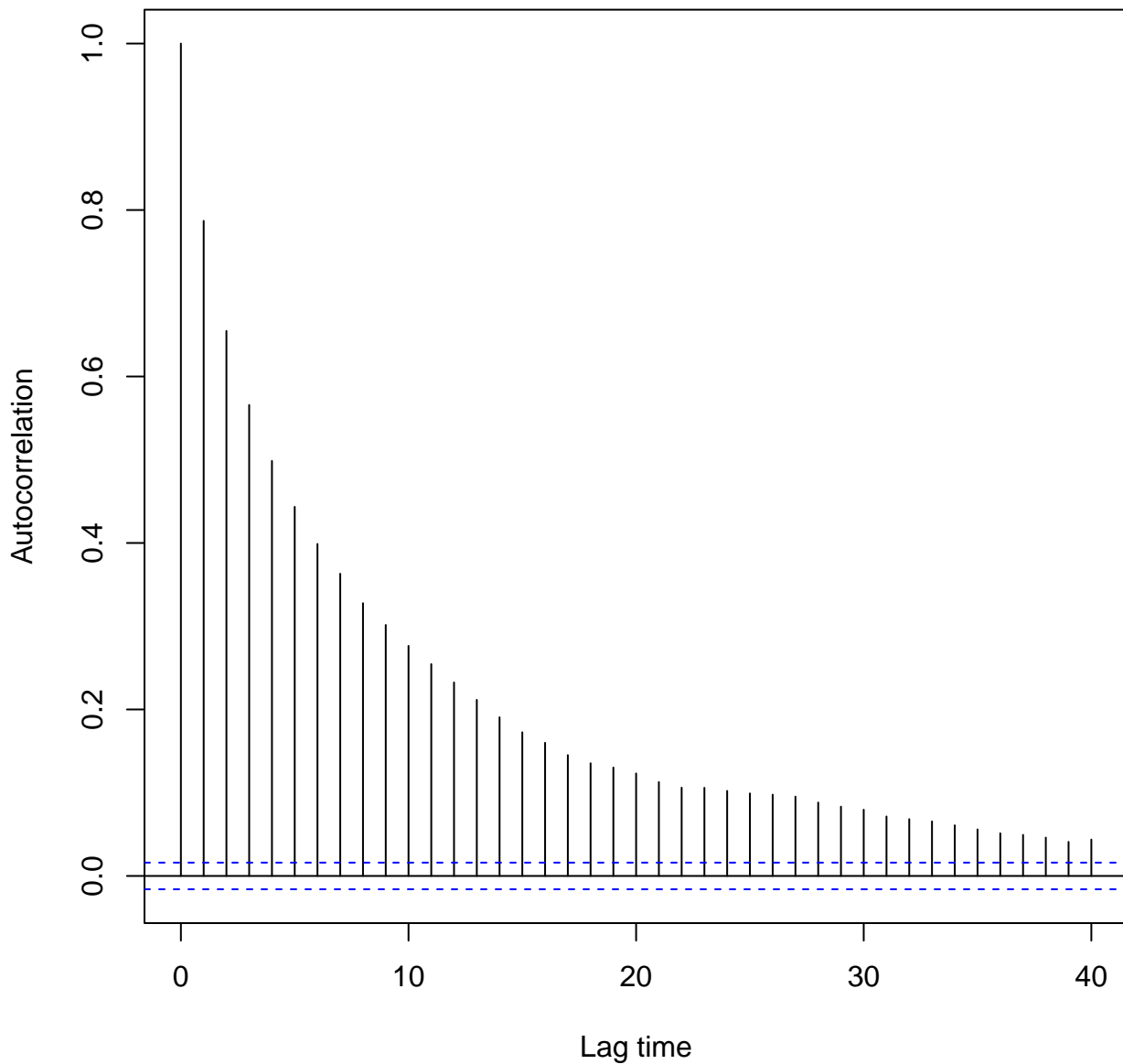
## Mutation A GCA Mixture: 2



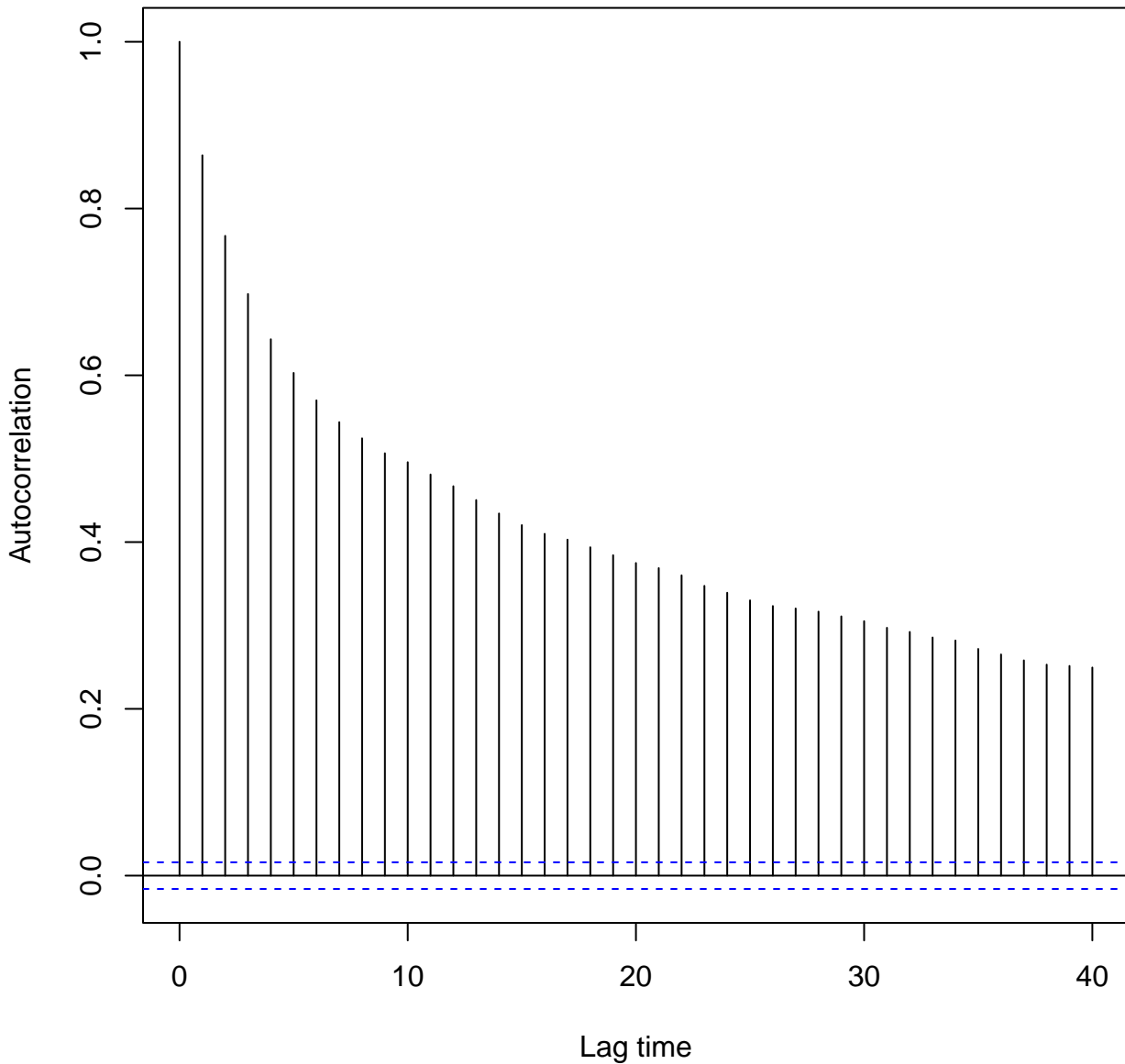
# Mutation A GCC Mixture: 1



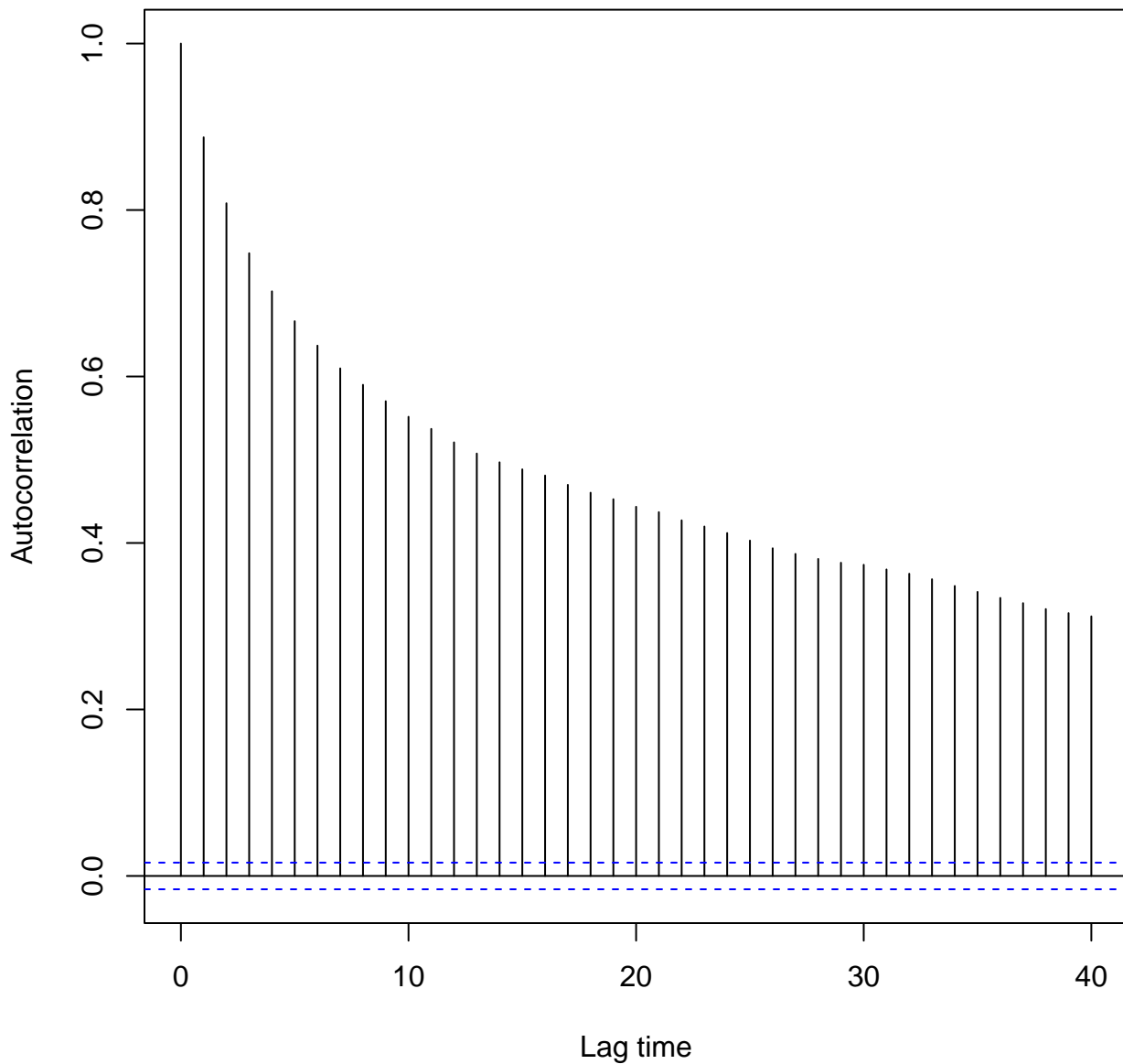
## Mutation A GCC Mixture: 2



# Mutation A GCG Mixture: 1

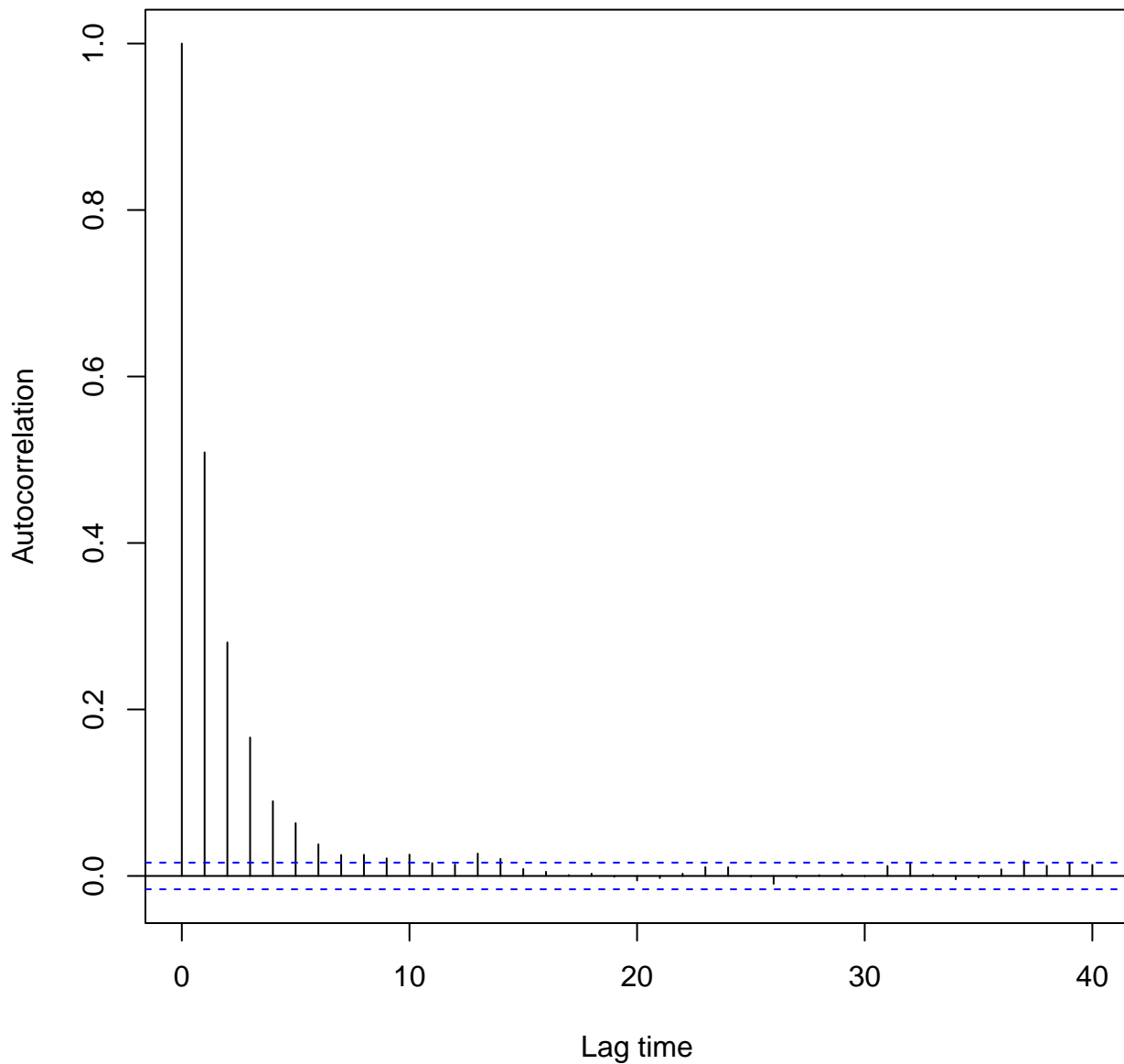


## Mutation A GCG Mixture: 2

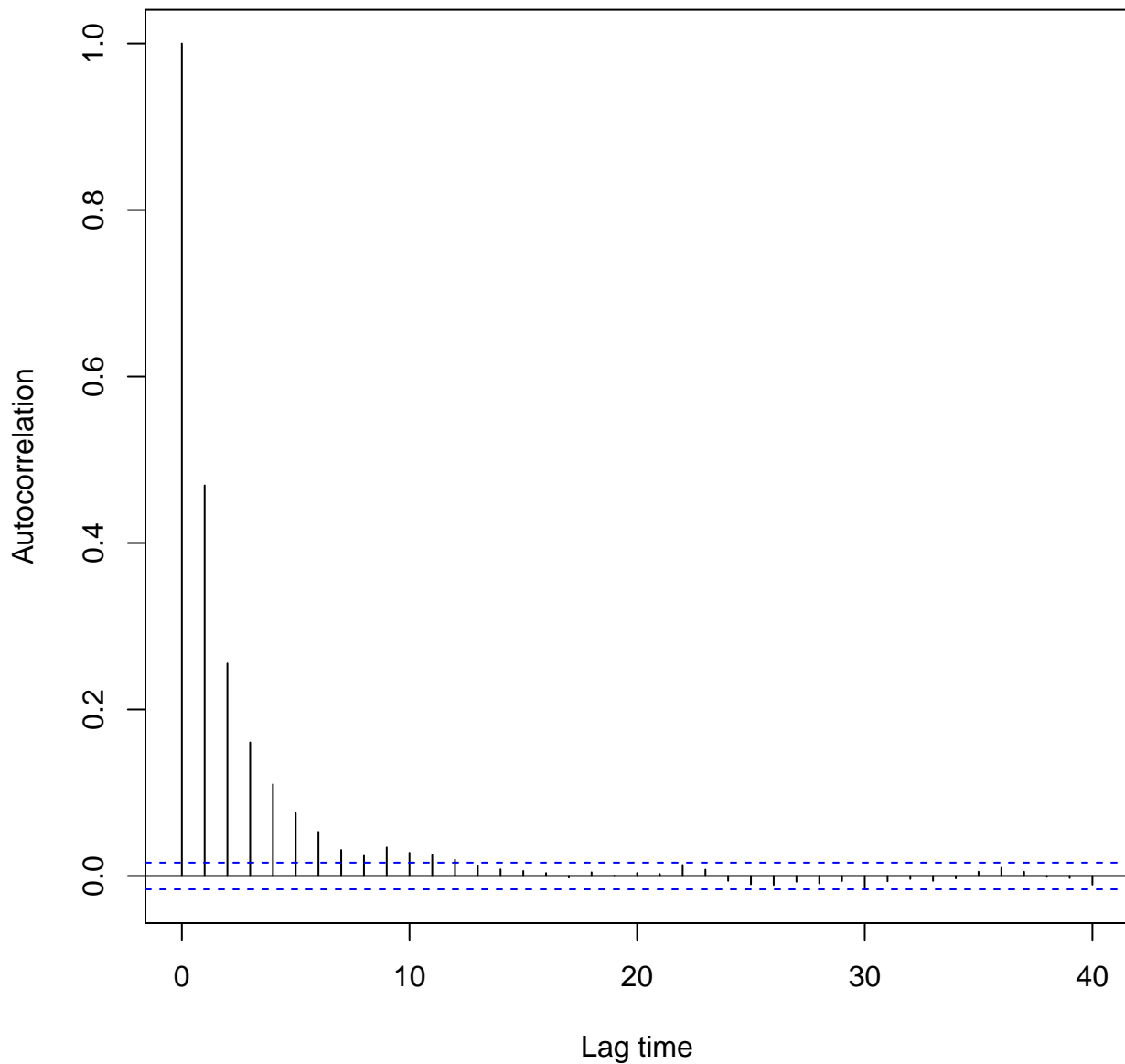




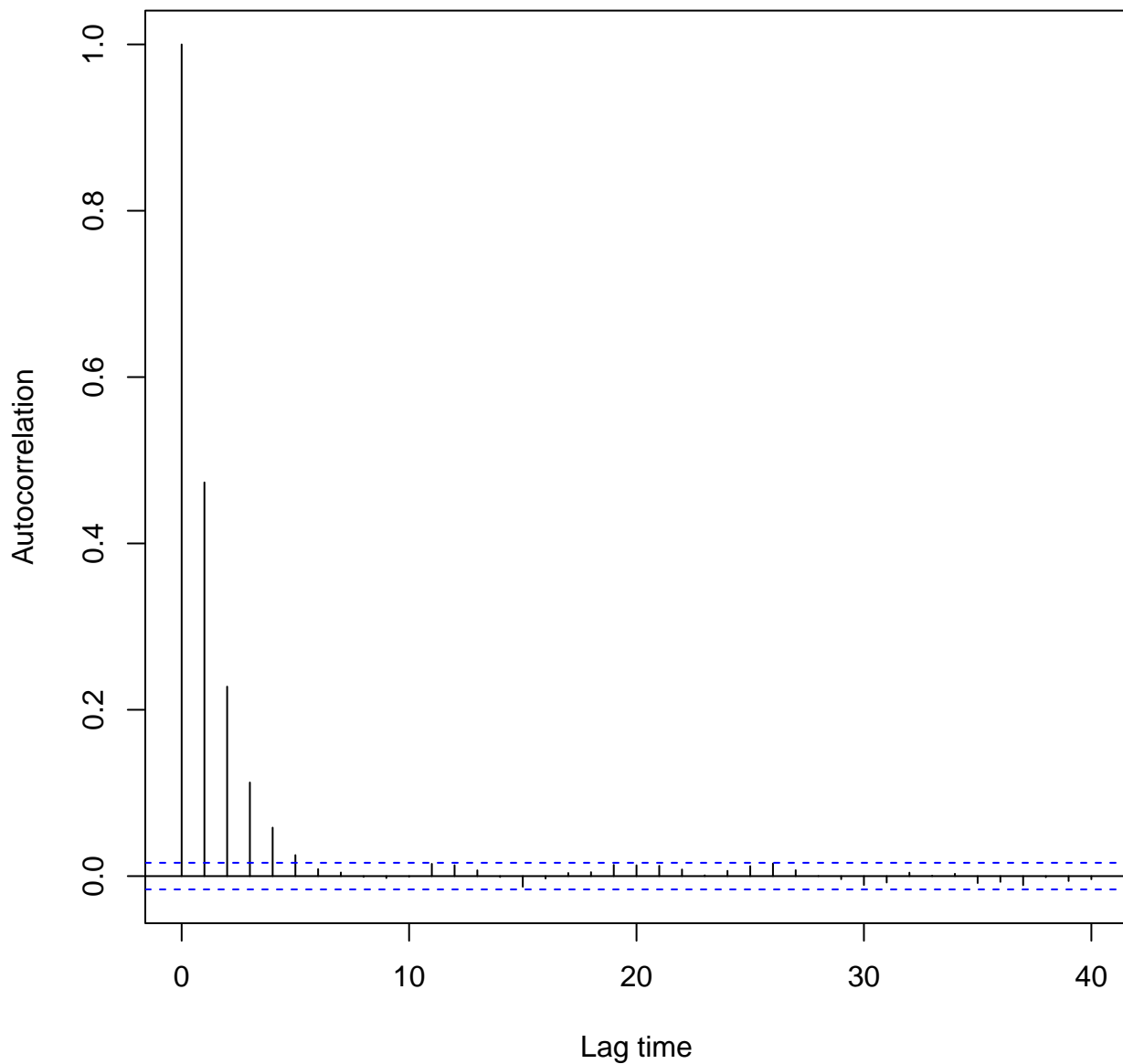
# Mutation C TGC Mixture: 1



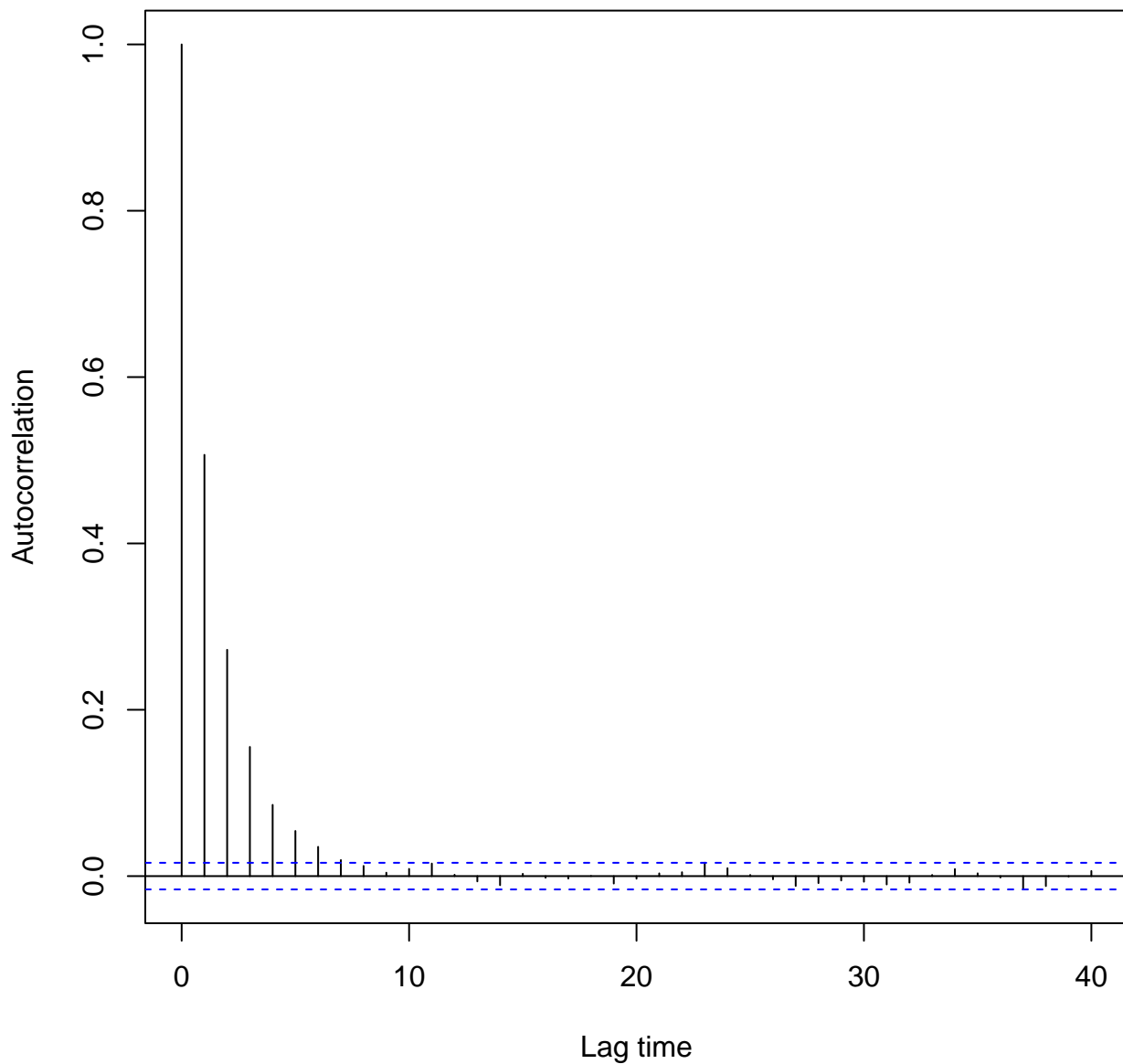
## Mutation C TGC Mixture: 2



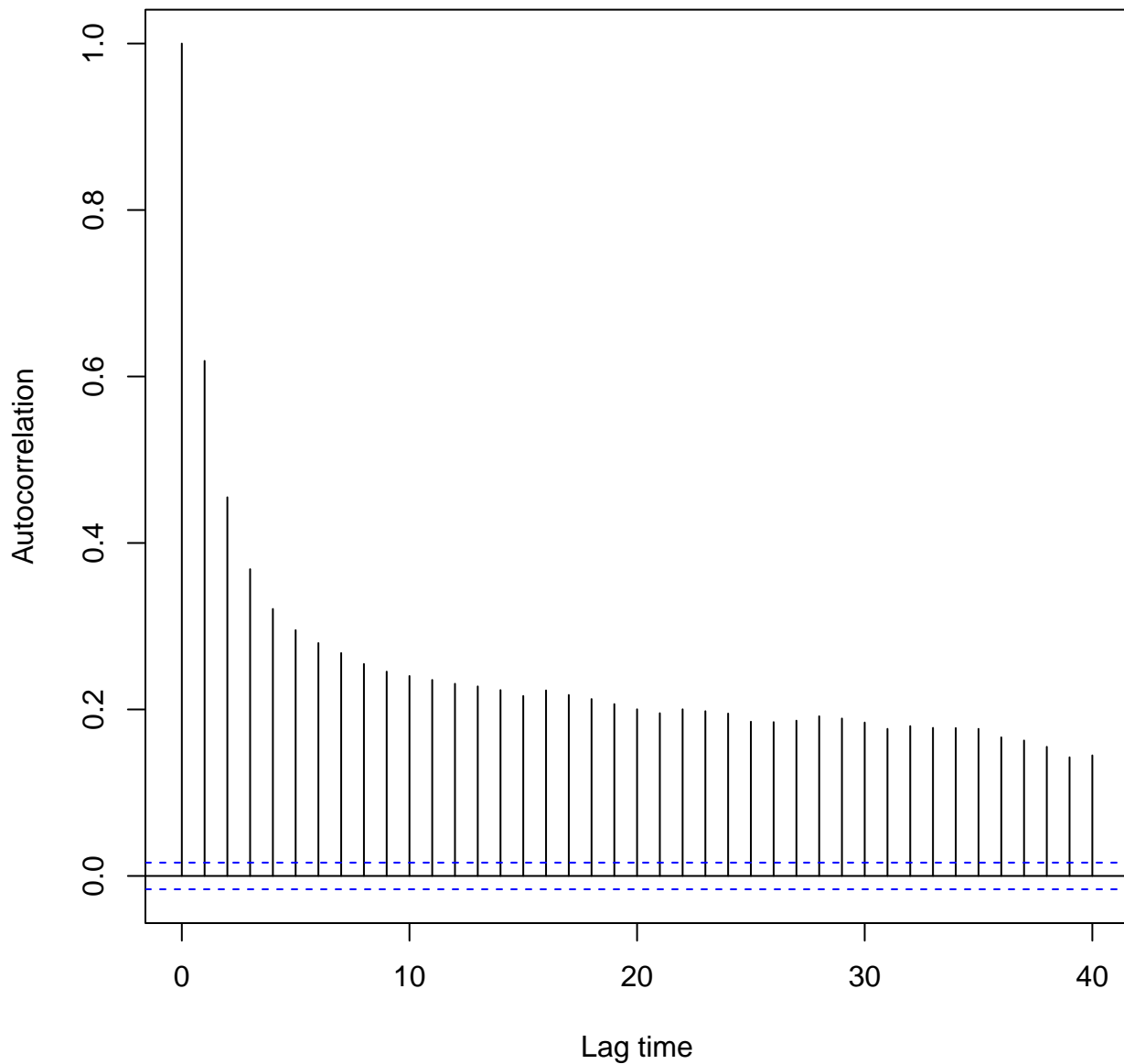
# Mutation D GAC Mixture: 1



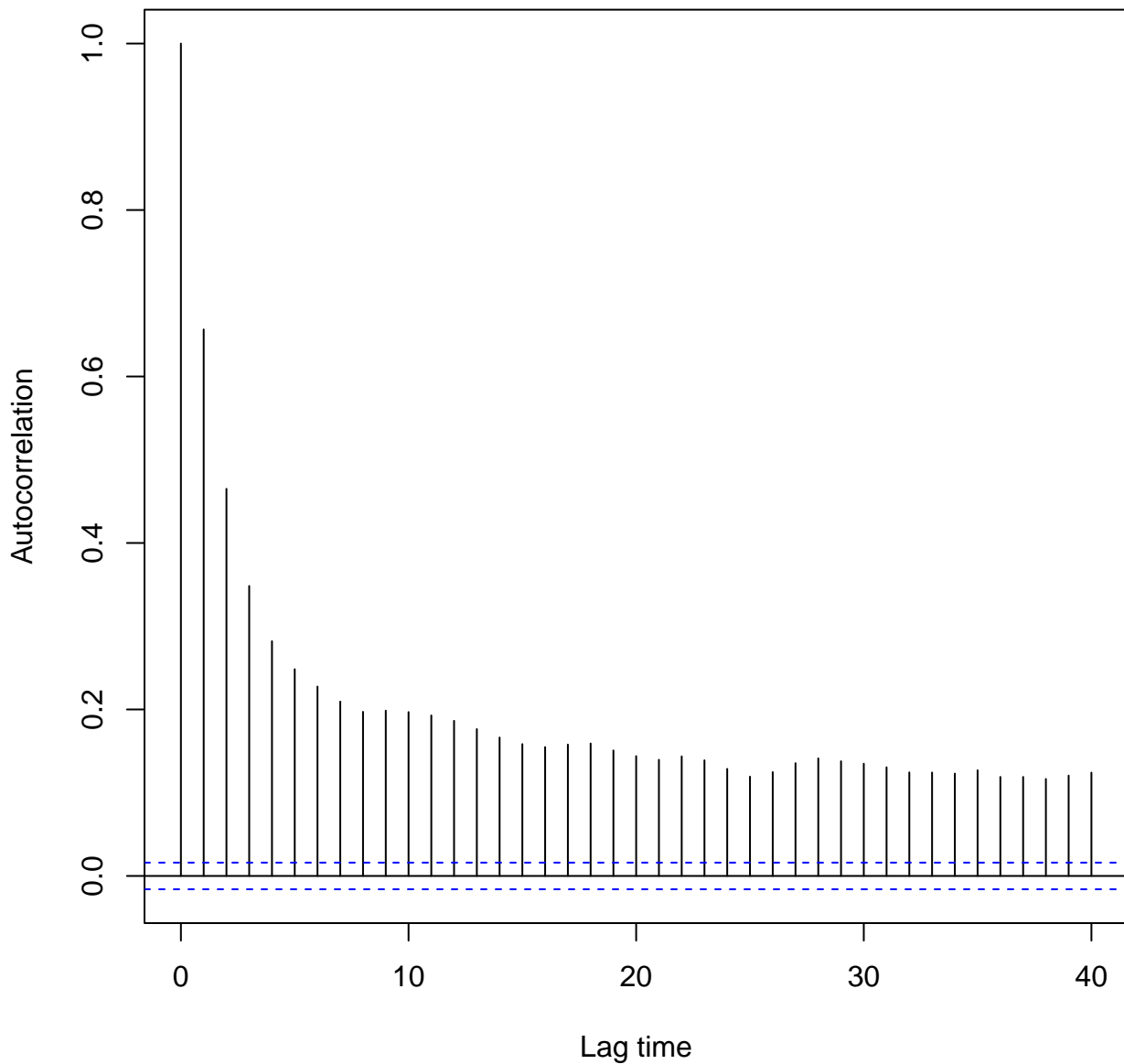
## Mutation D GAC Mixture: 2



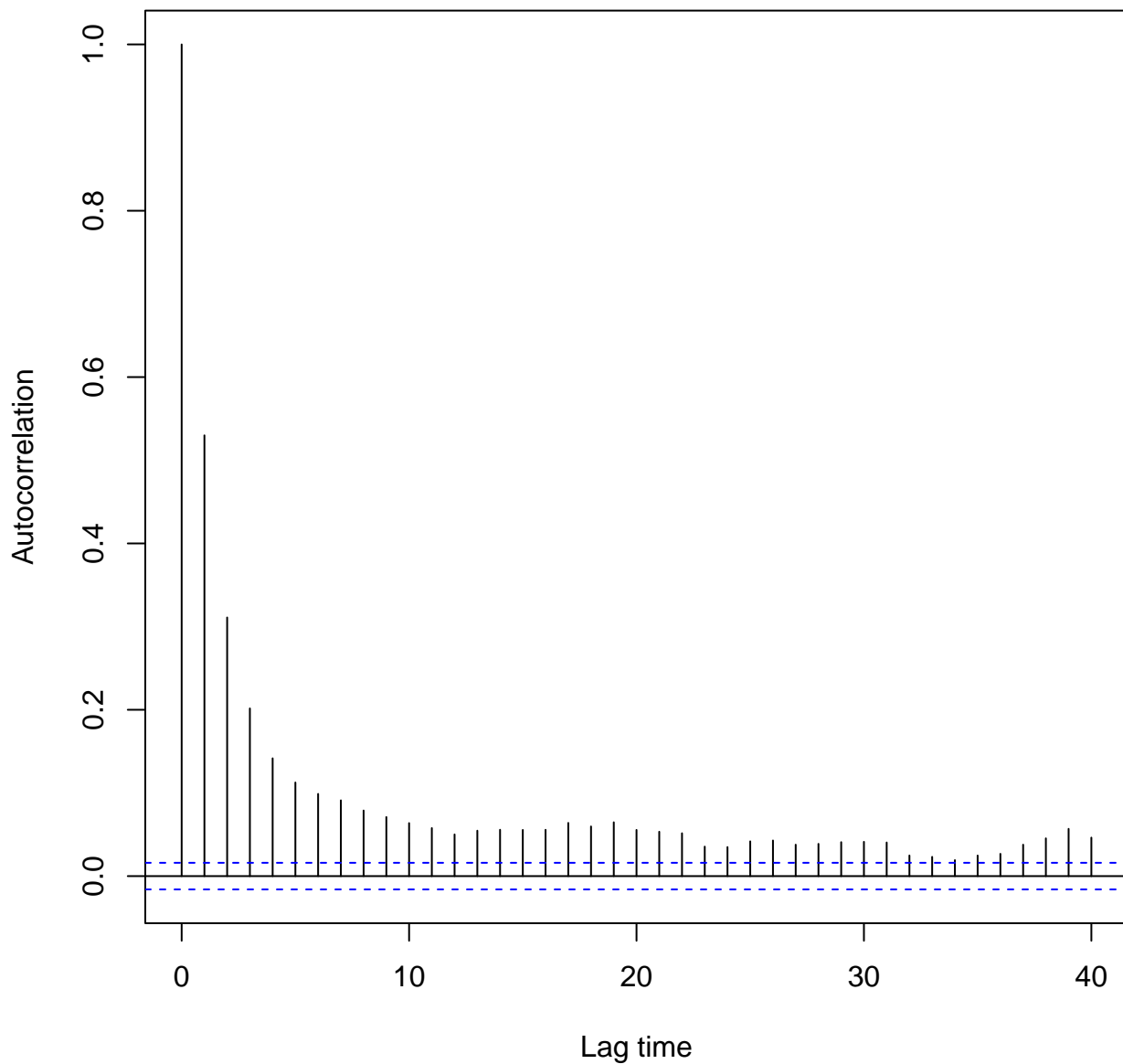
# Mutation E GAA Mixture: 1



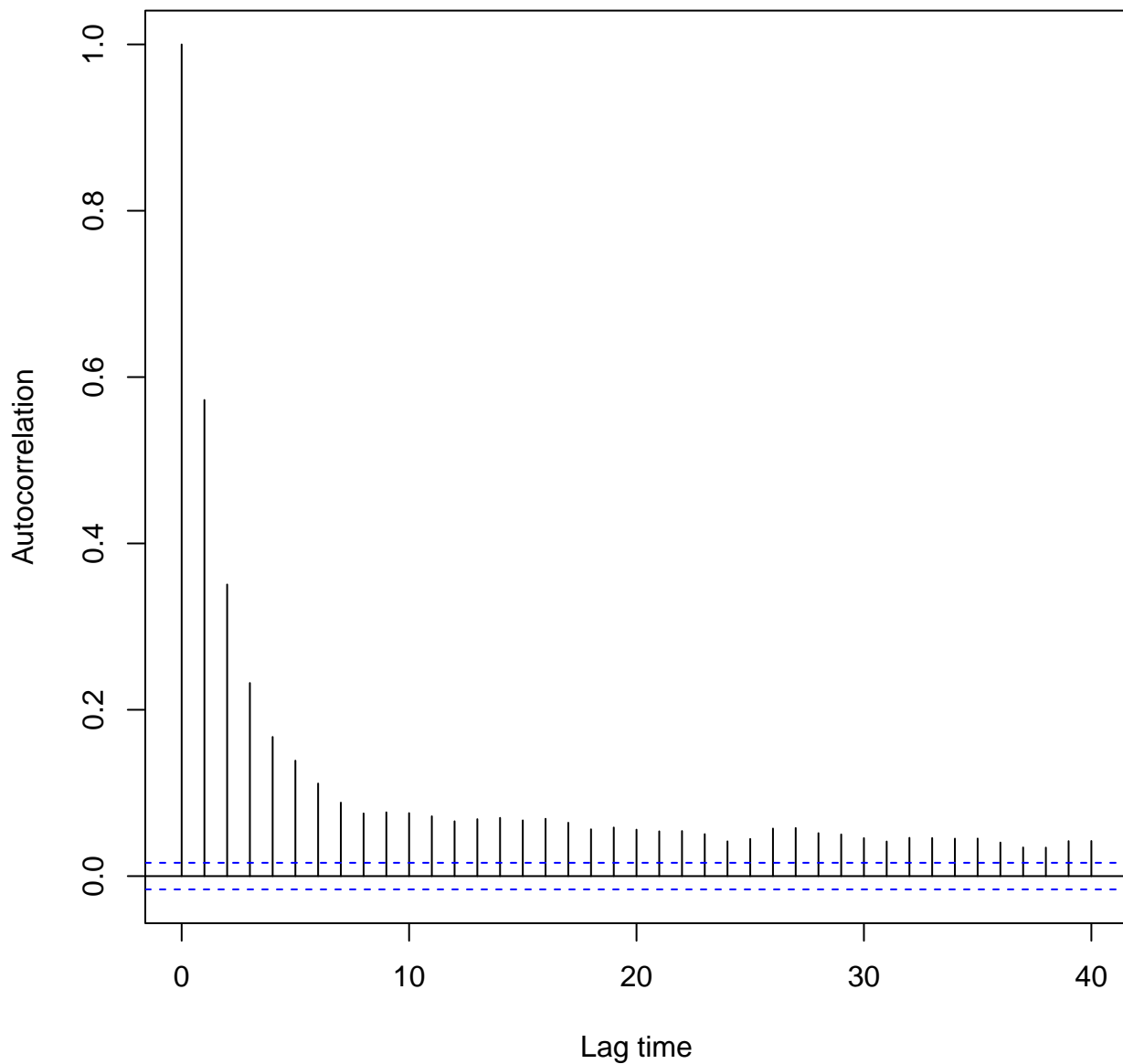
## Mutation E GAA Mixture: 2



# Mutation F TTC Mixture: 1

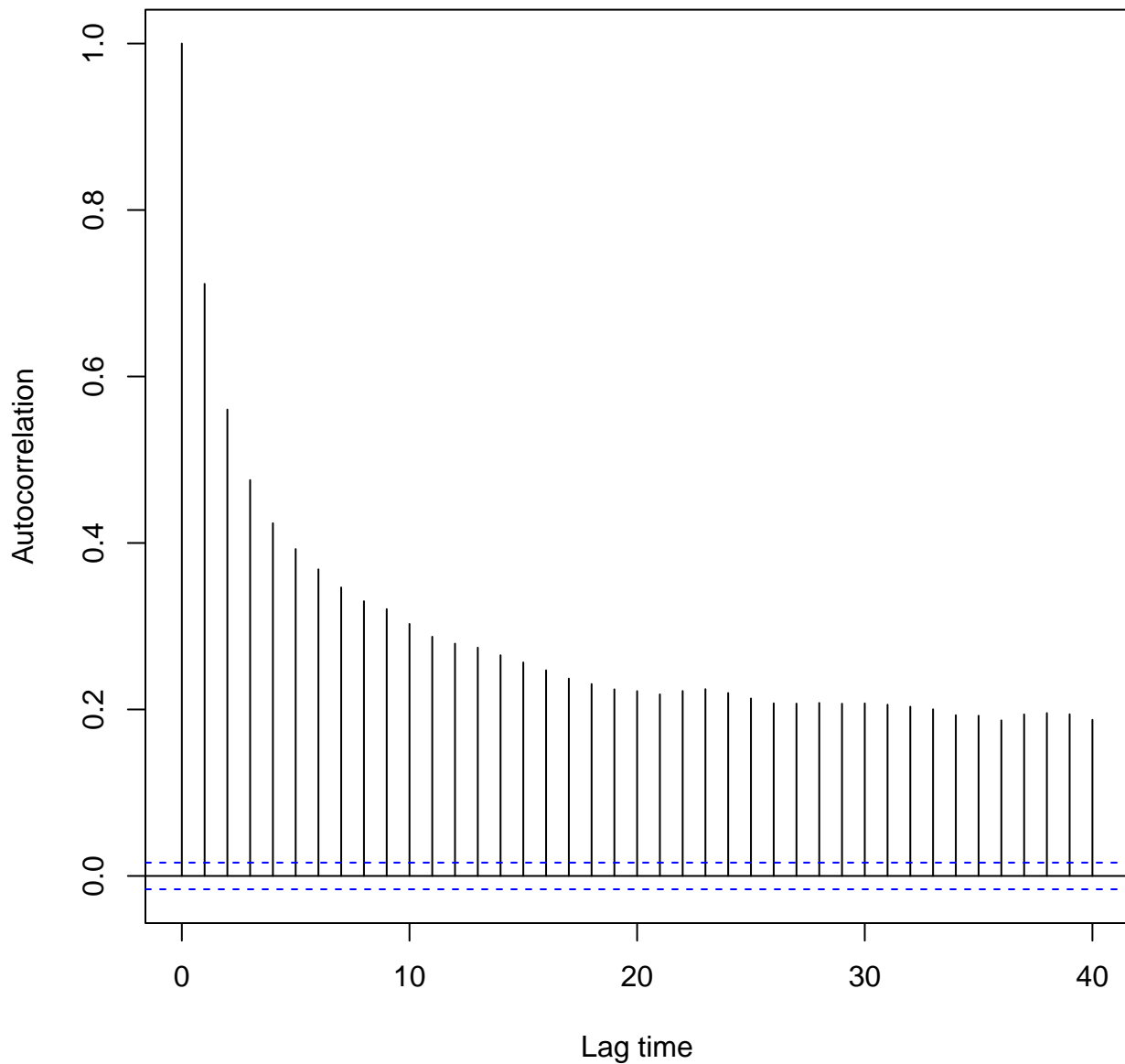


## Mutation F TTC Mixture: 2

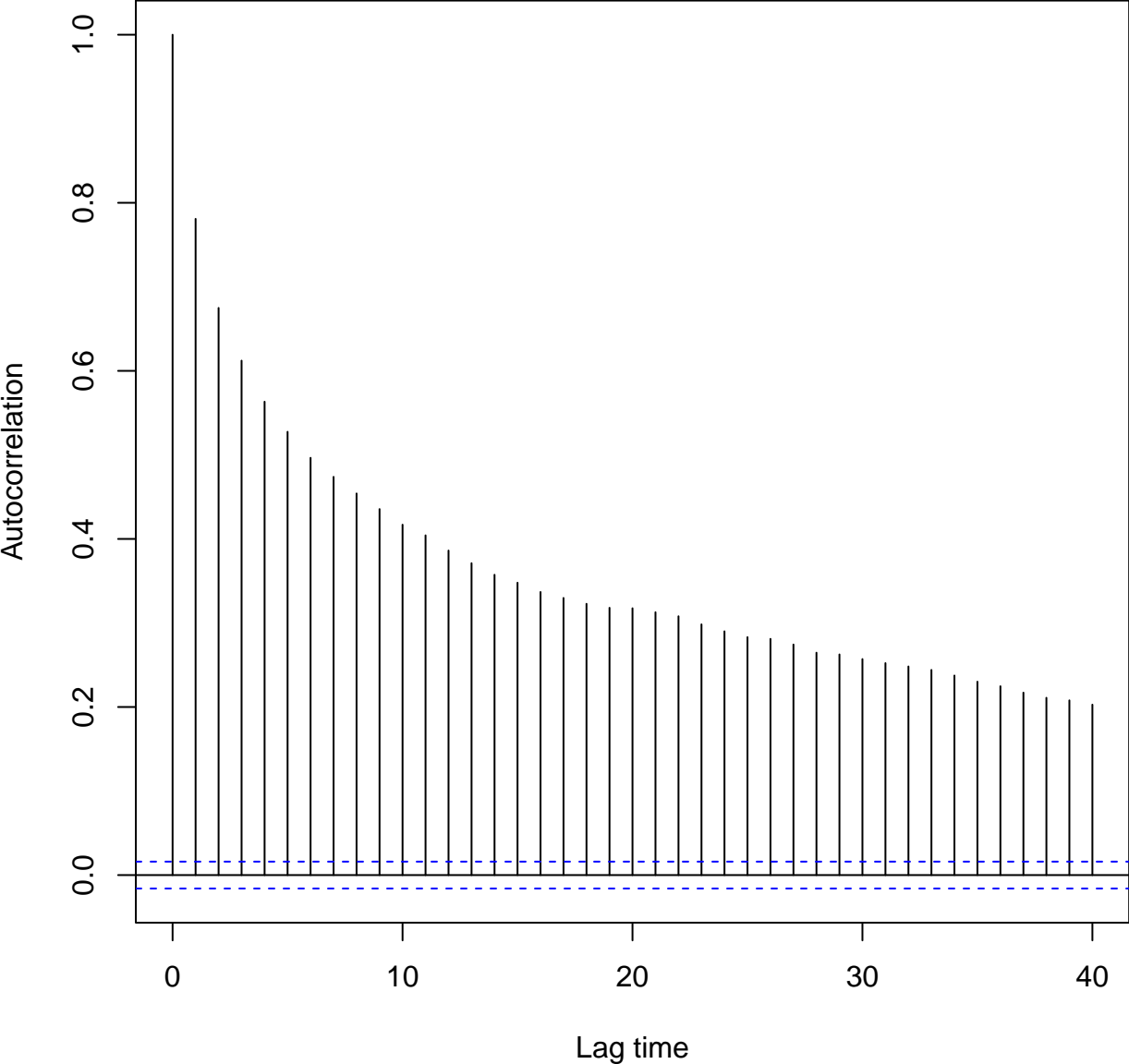




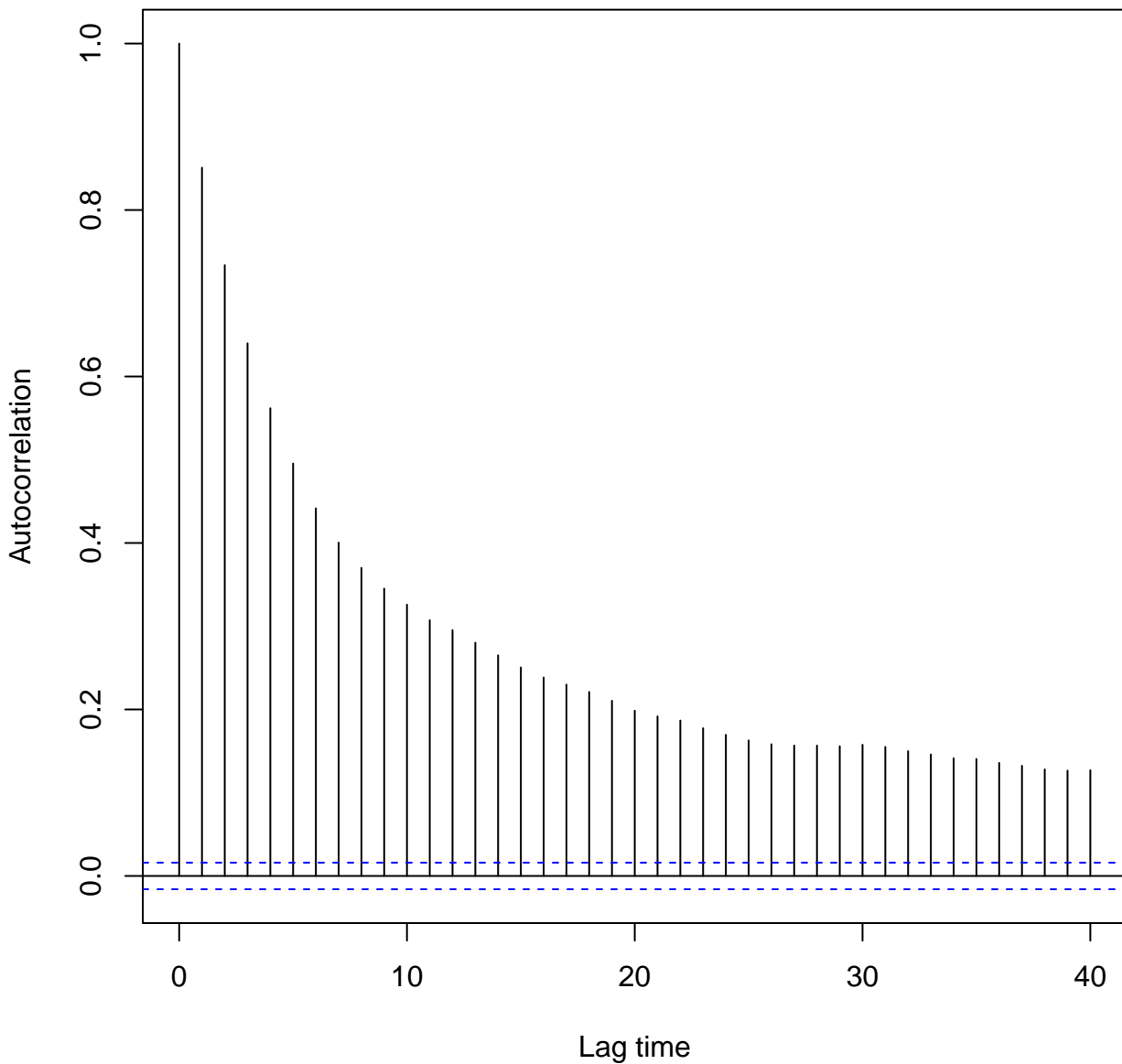
# Mutation G GGA Mixture: 1



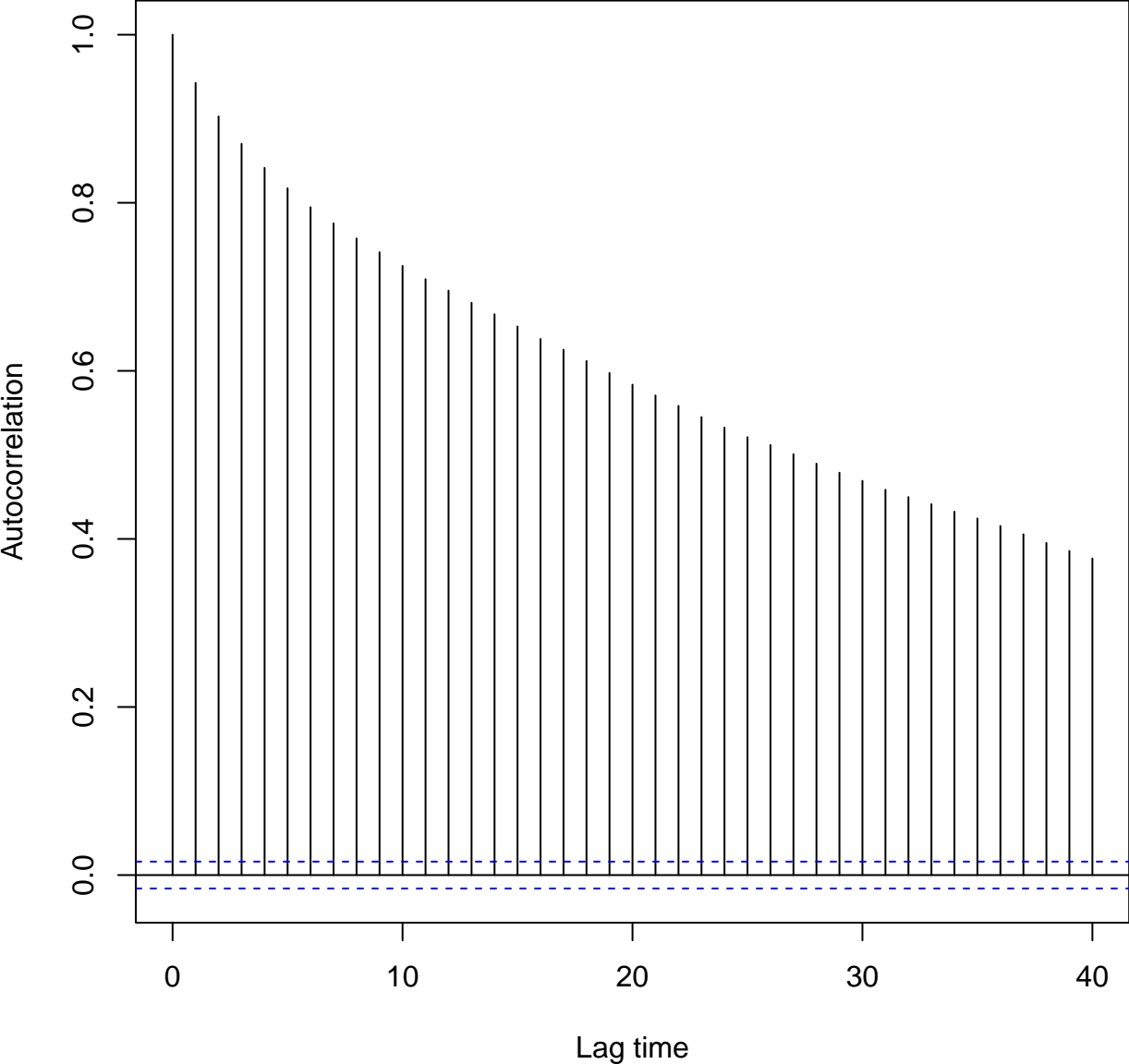
**Mutation G GGA Mixture: 2**



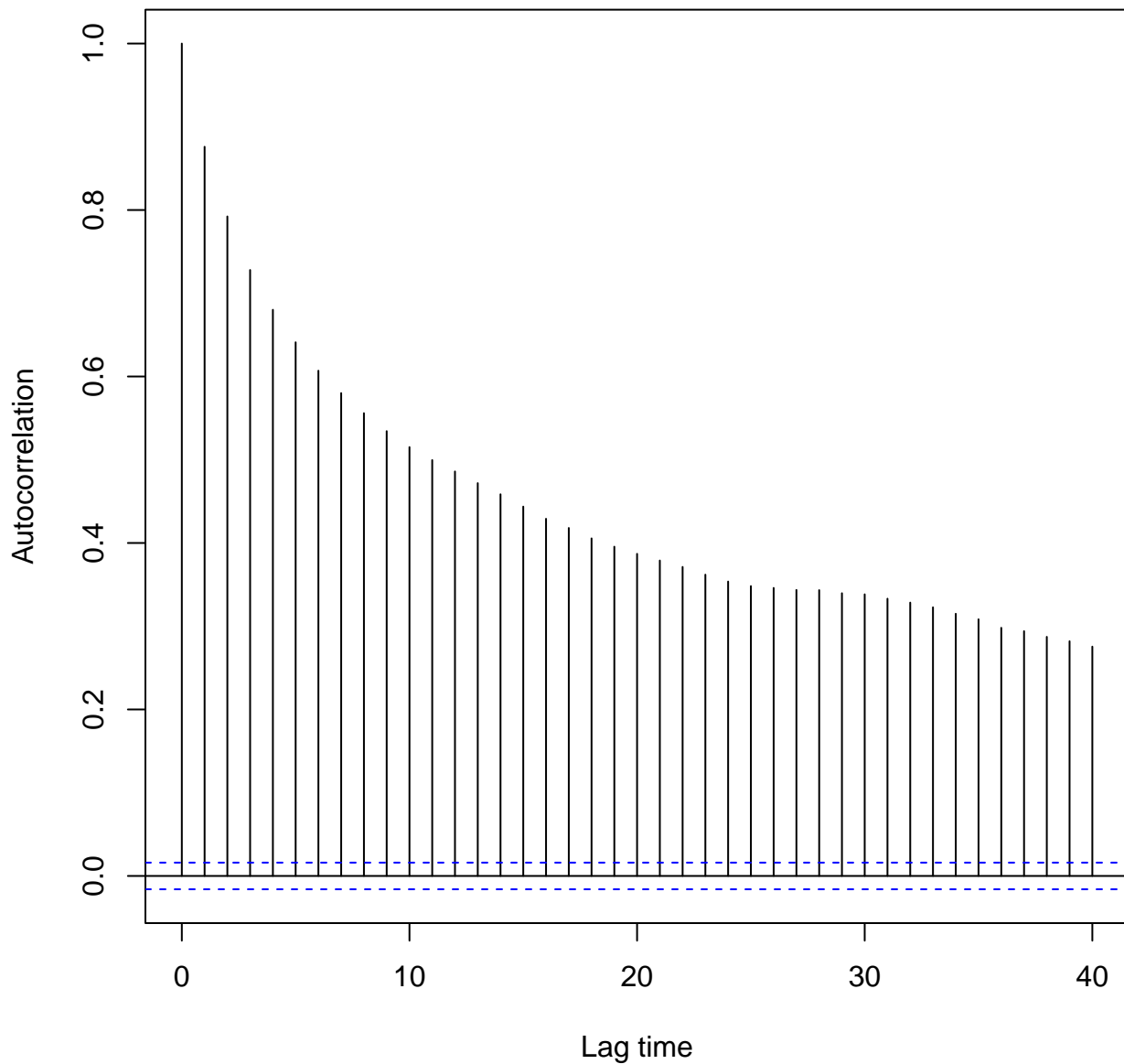
# Mutation G GGC Mixture: 1



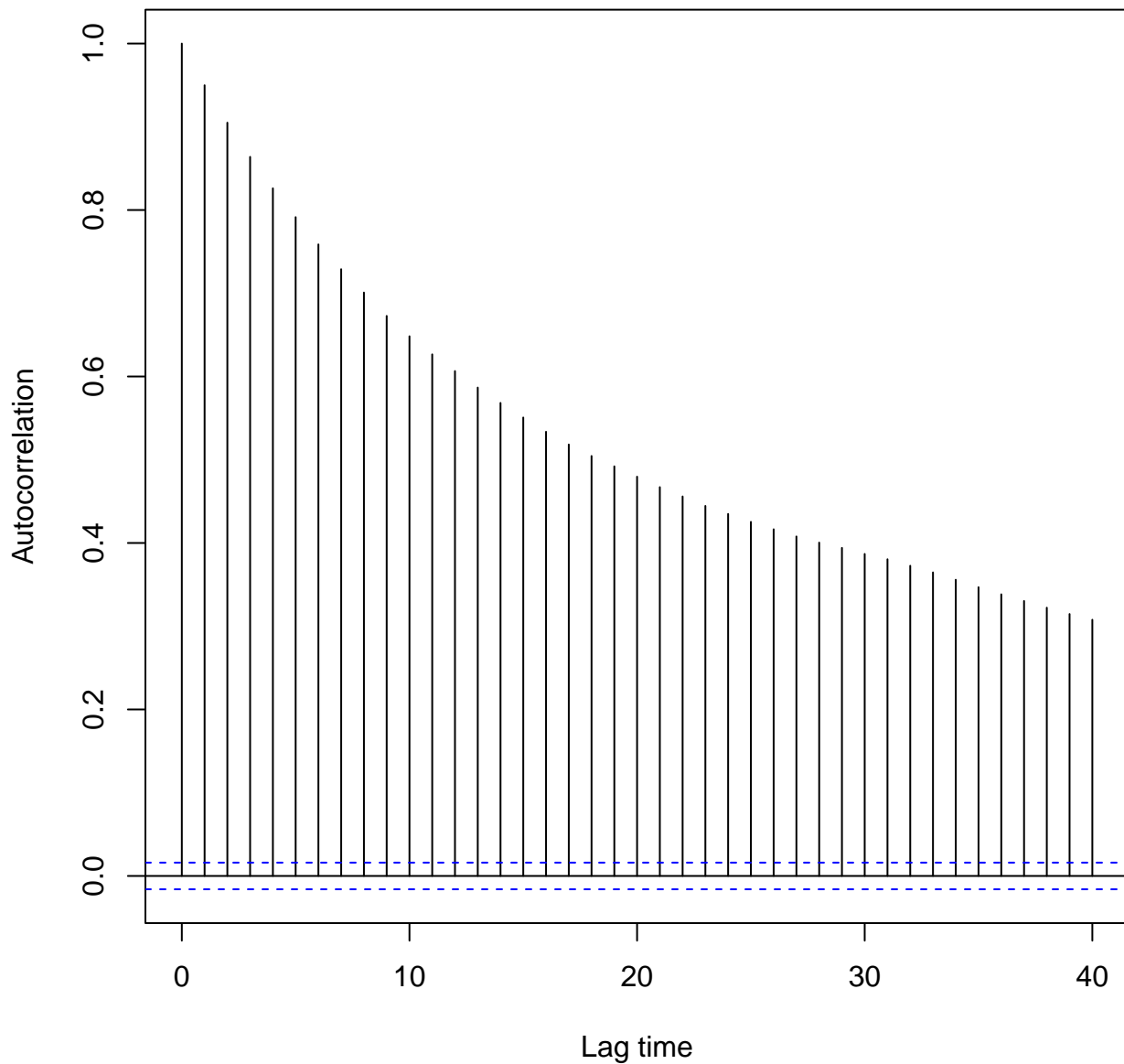
**Mutation G GGC Mixture: 2**



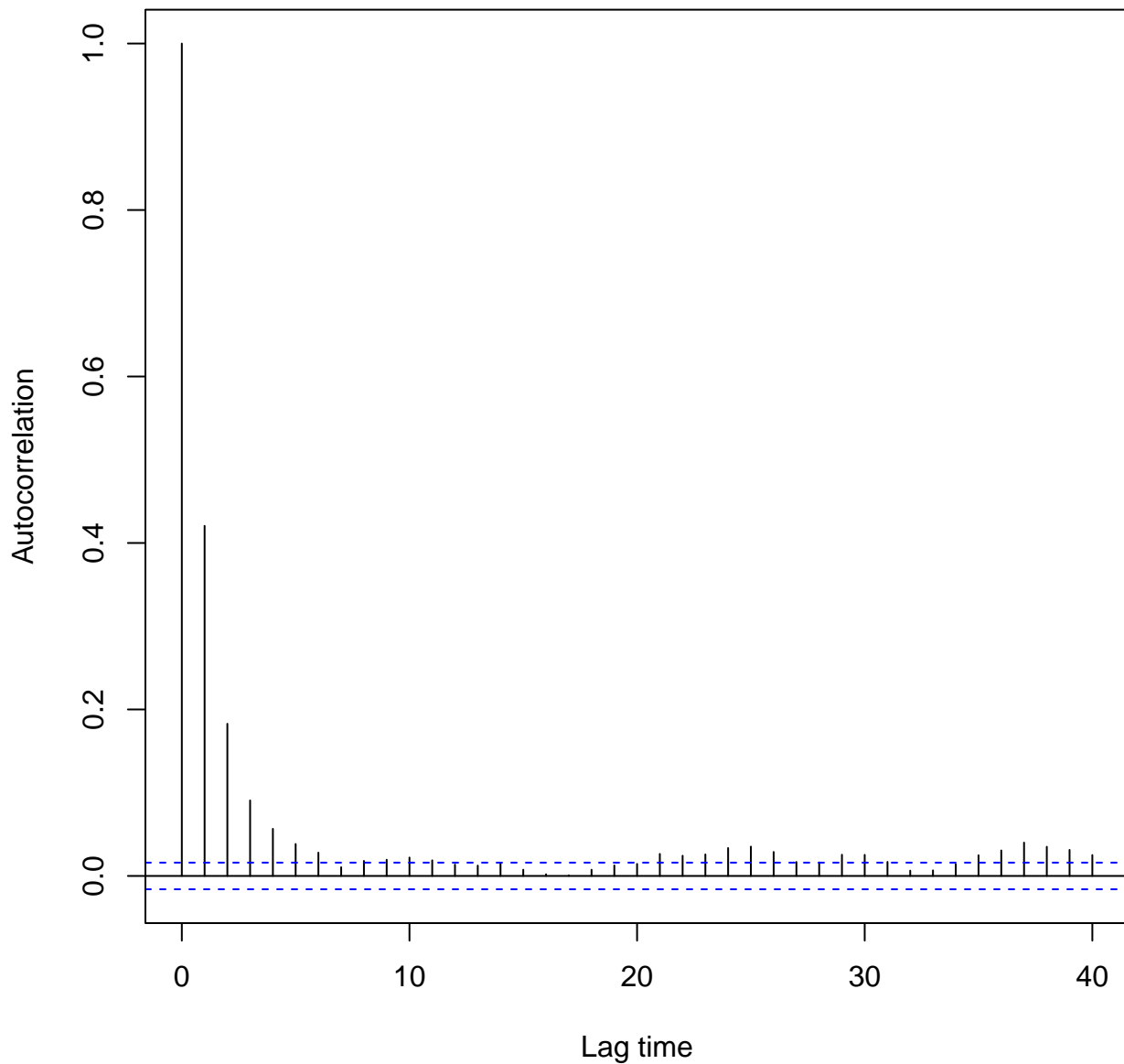
# Mutation G GGG Mixture: 1



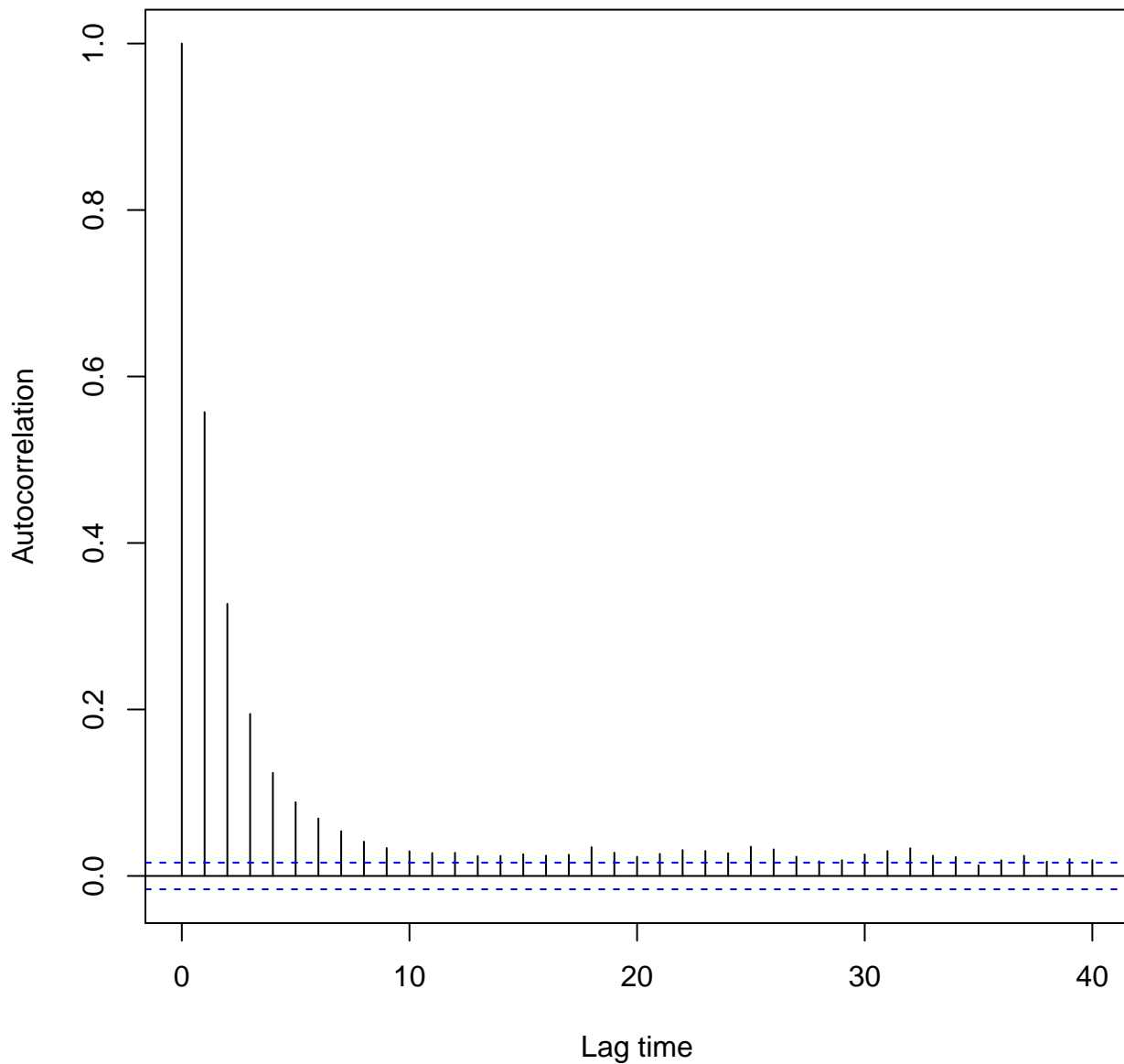
## Mutation G GGG Mixture: 2



# Mutation H CAC Mixture: 1

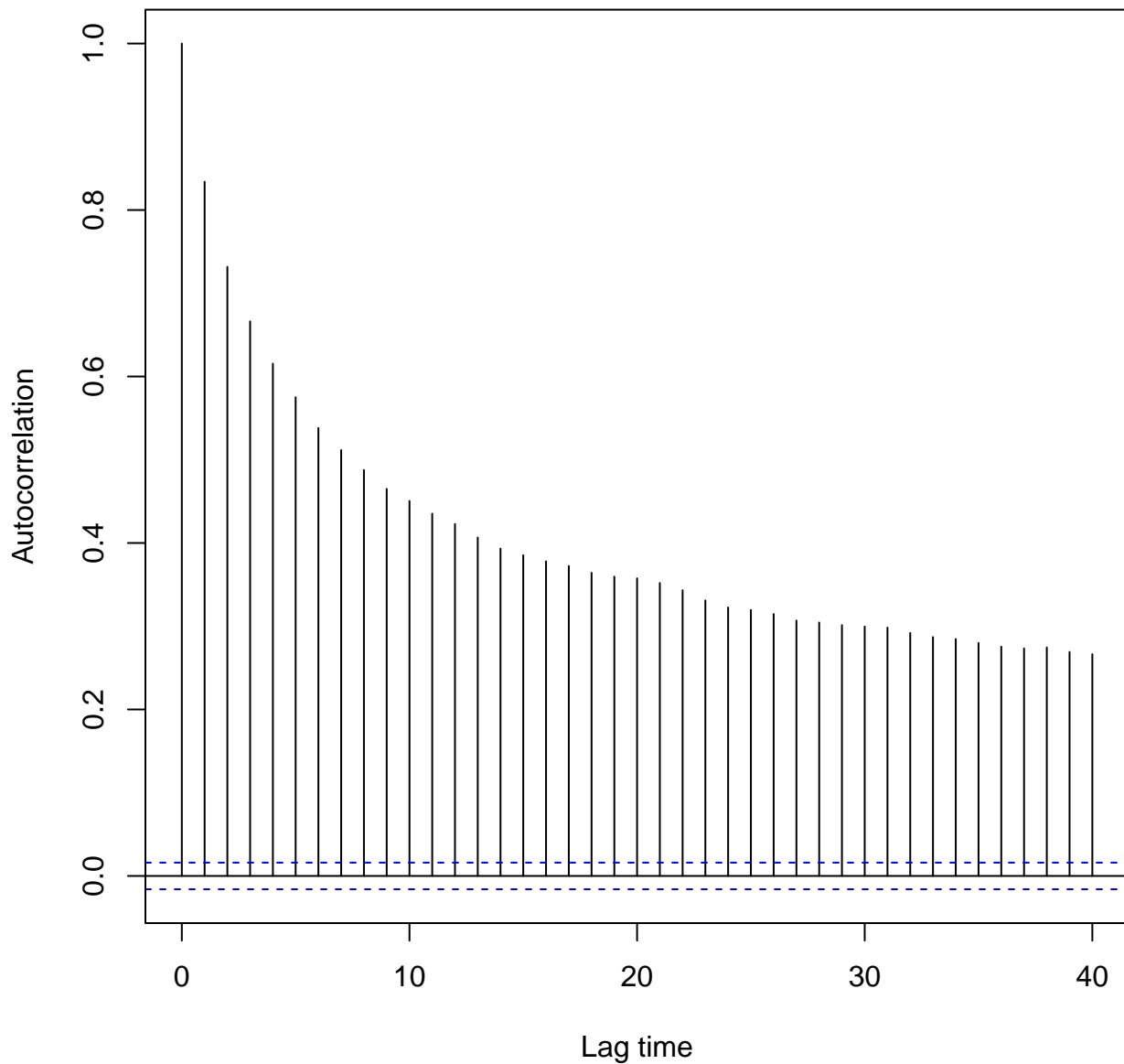


## Mutation H CAC Mixture: 2

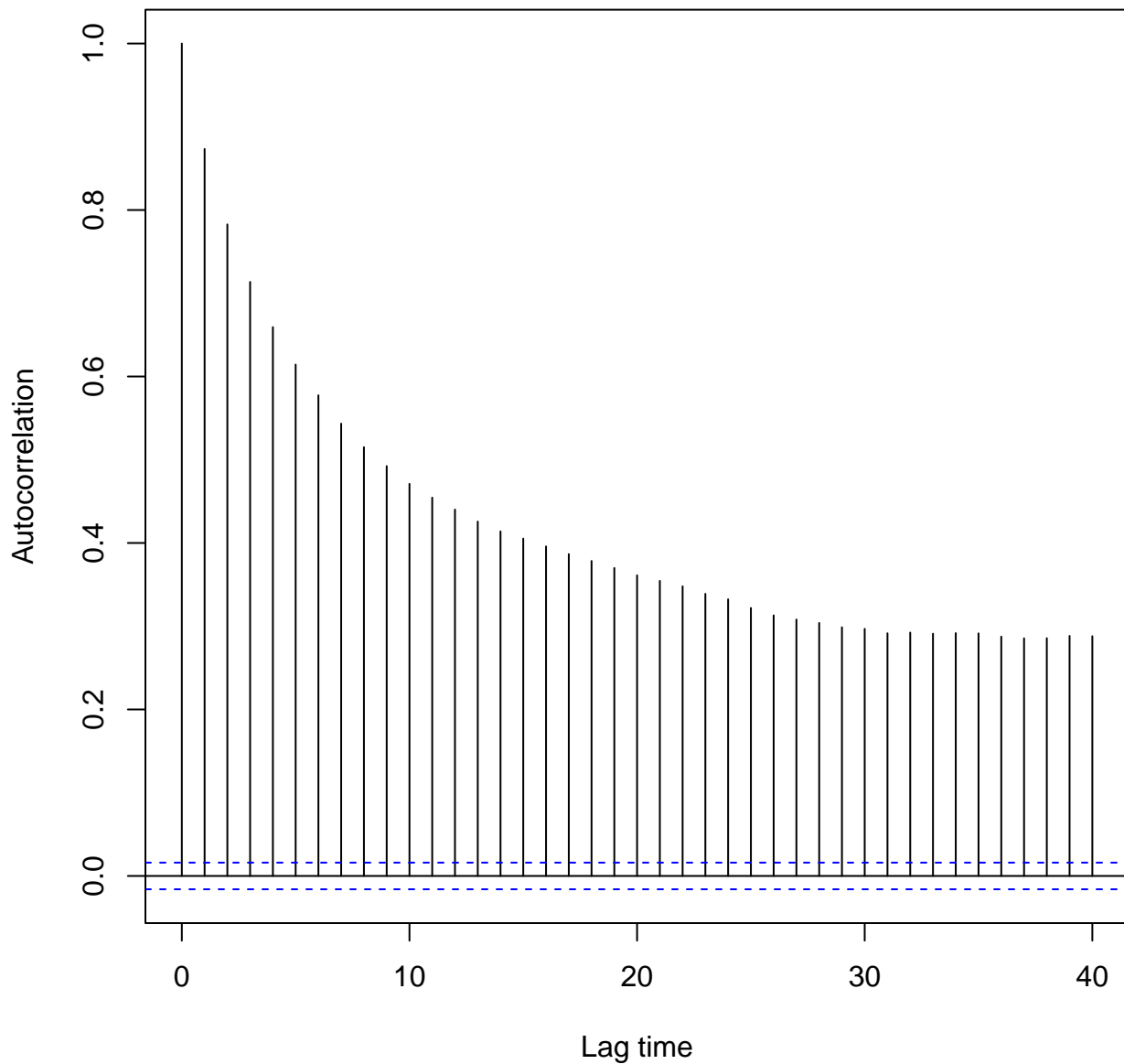




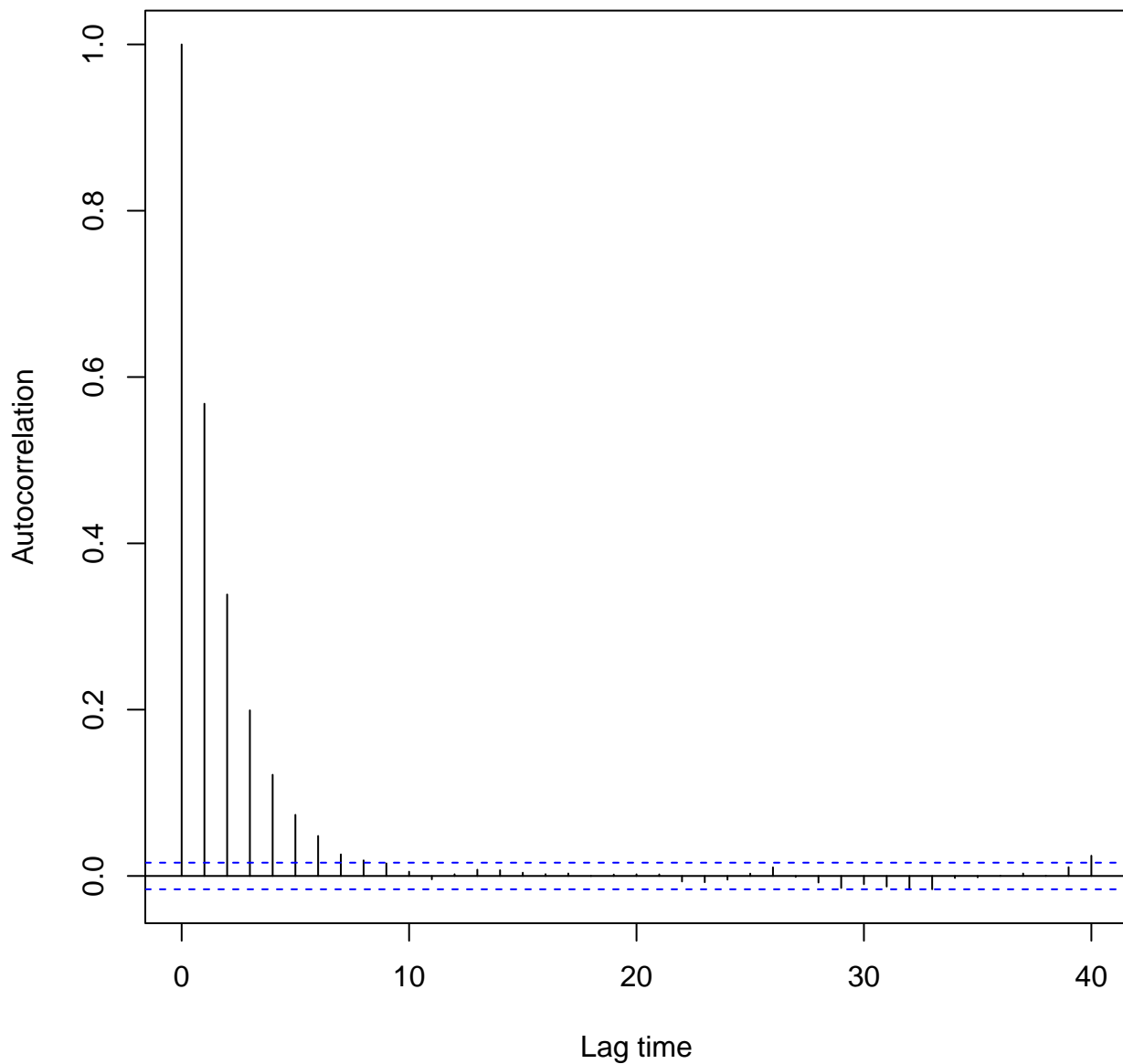
# Mutation I ATA Mixture: 1



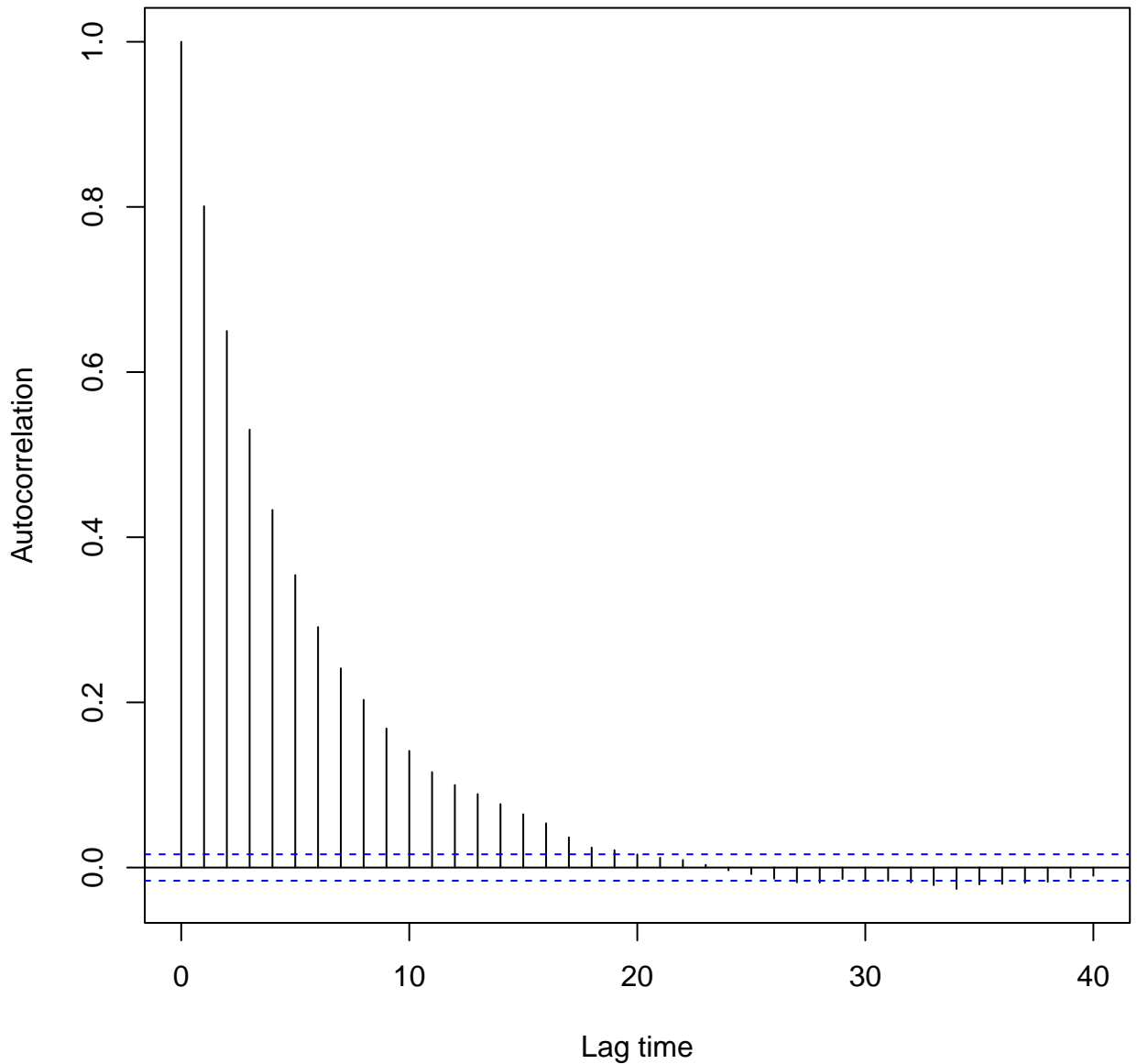
## Mutation I ATA Mixture: 2



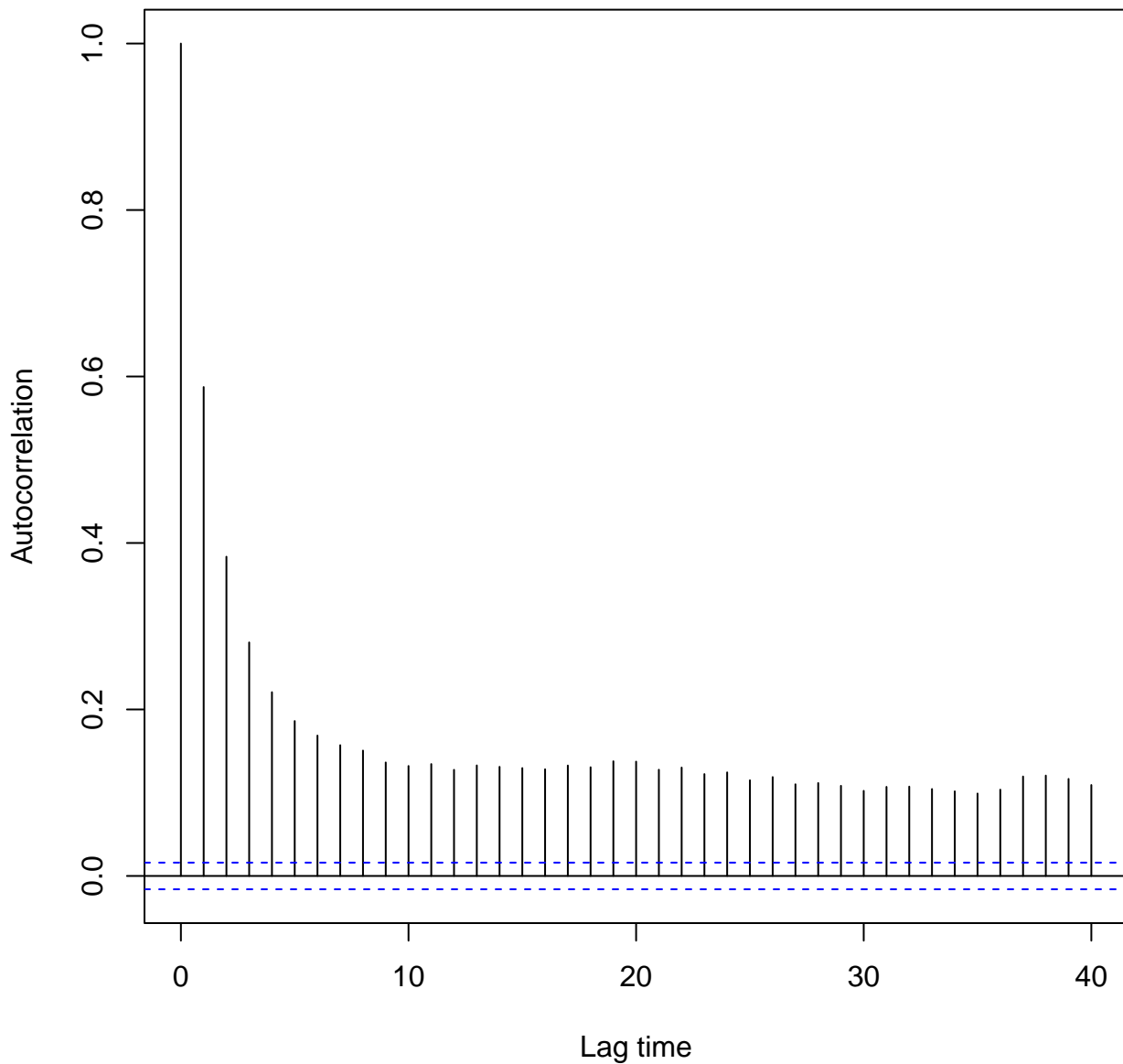
# Mutation I ATC Mixture: 1



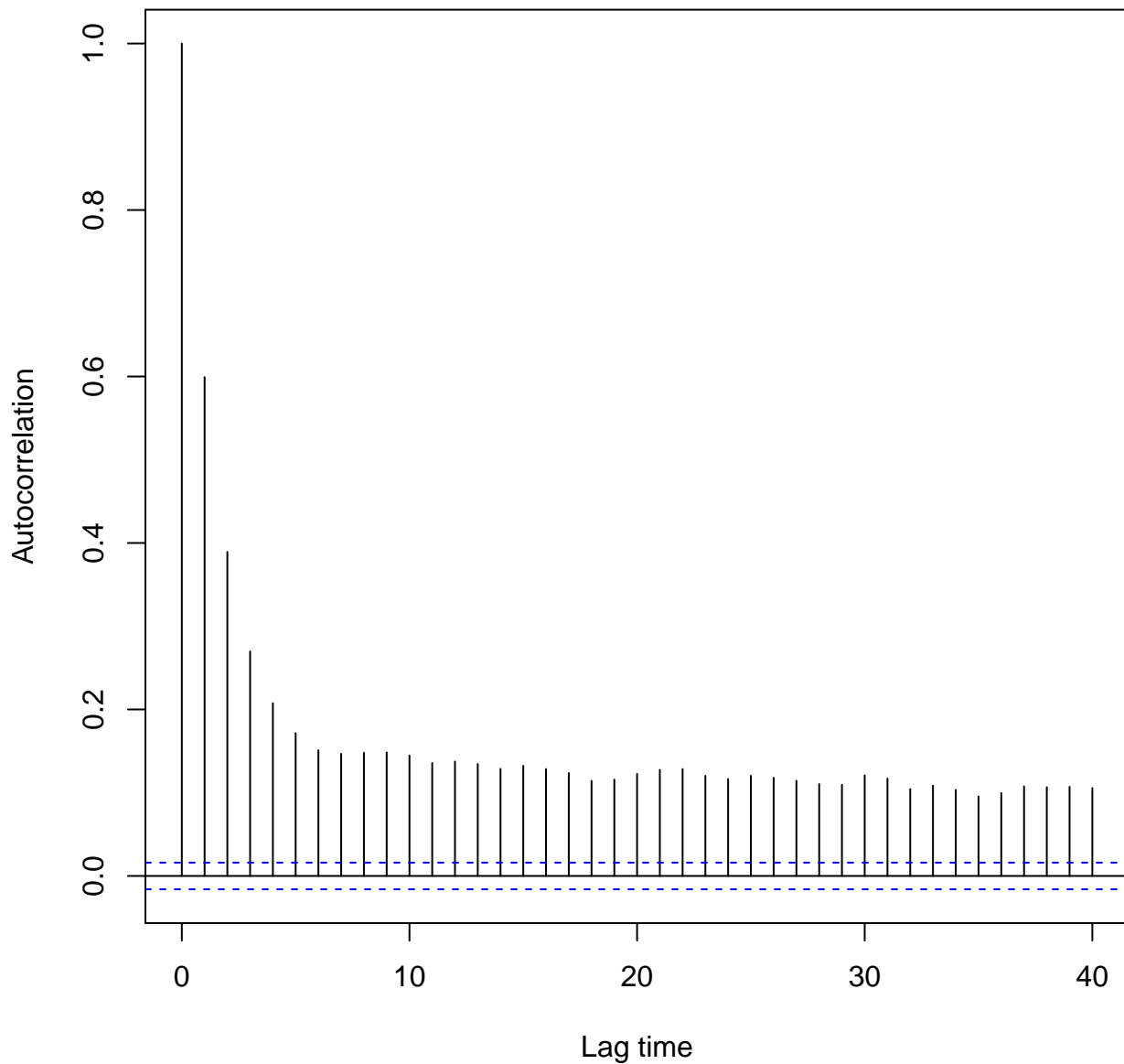
## Mutation I ATC Mixture: 2



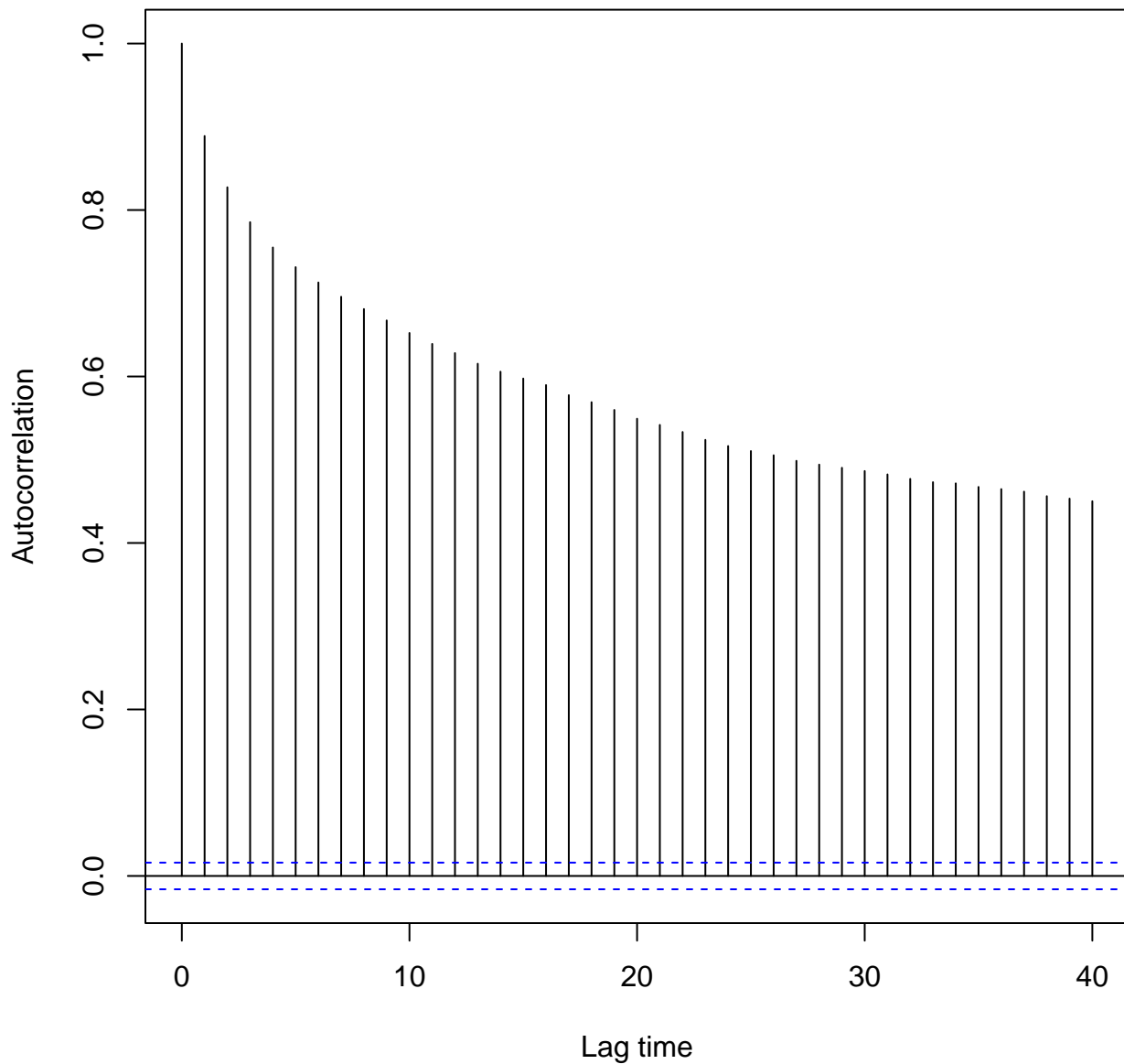
# Mutation K AAA Mixture: 1



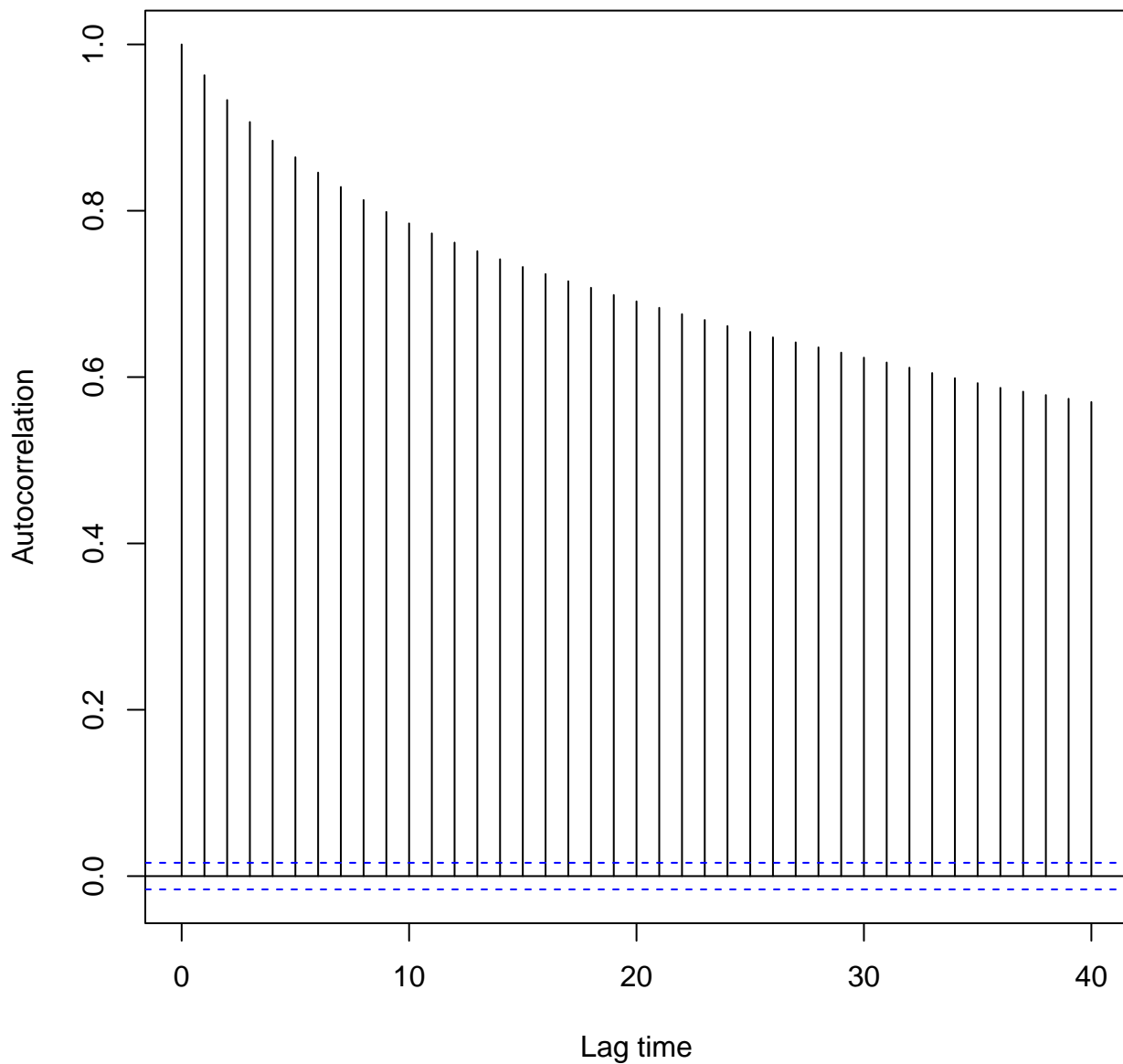
## Mutation K AAA Mixture: 2



# Mutation L CTA Mixture: 1

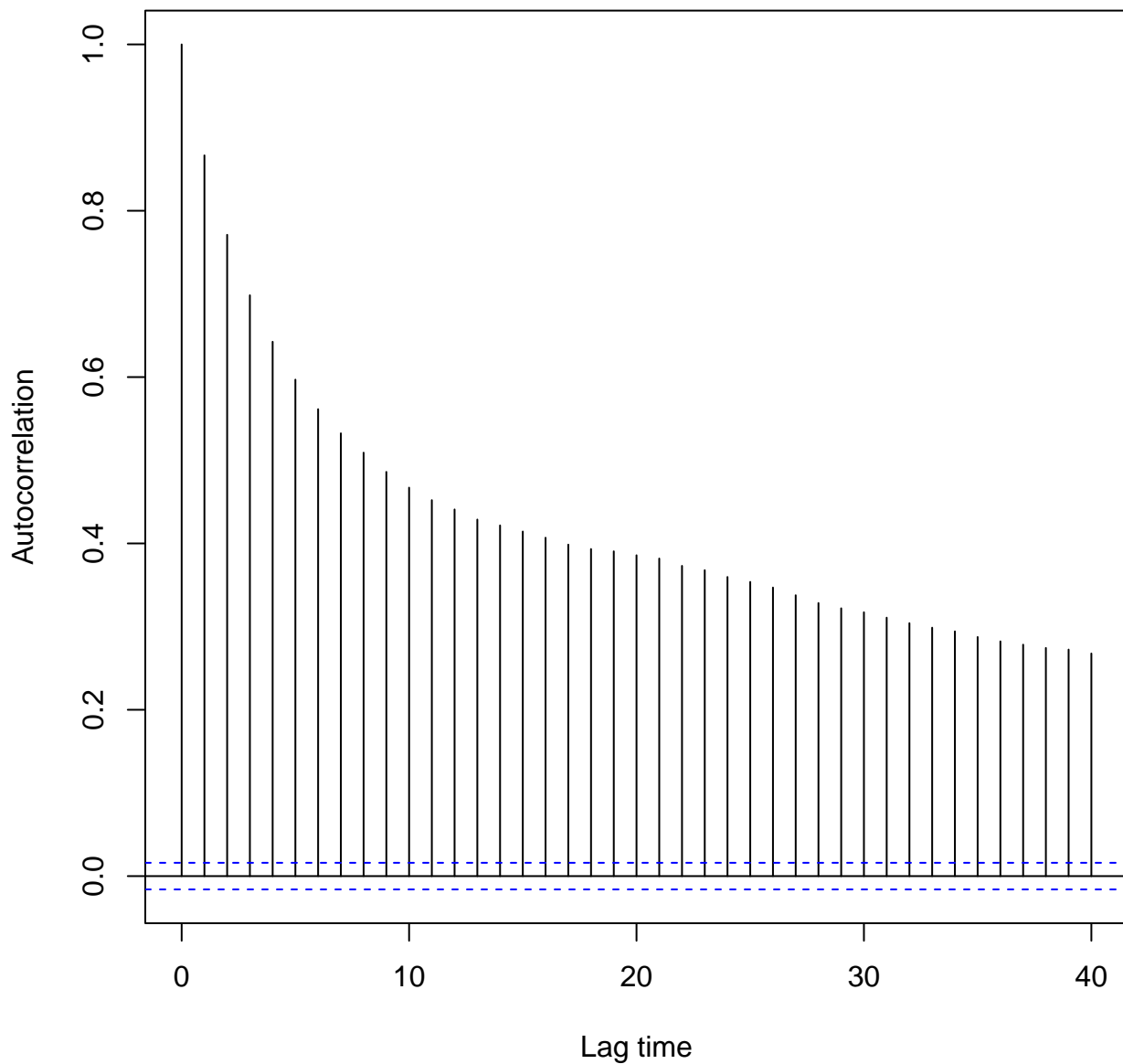


## Mutation L CTA Mixture: 2

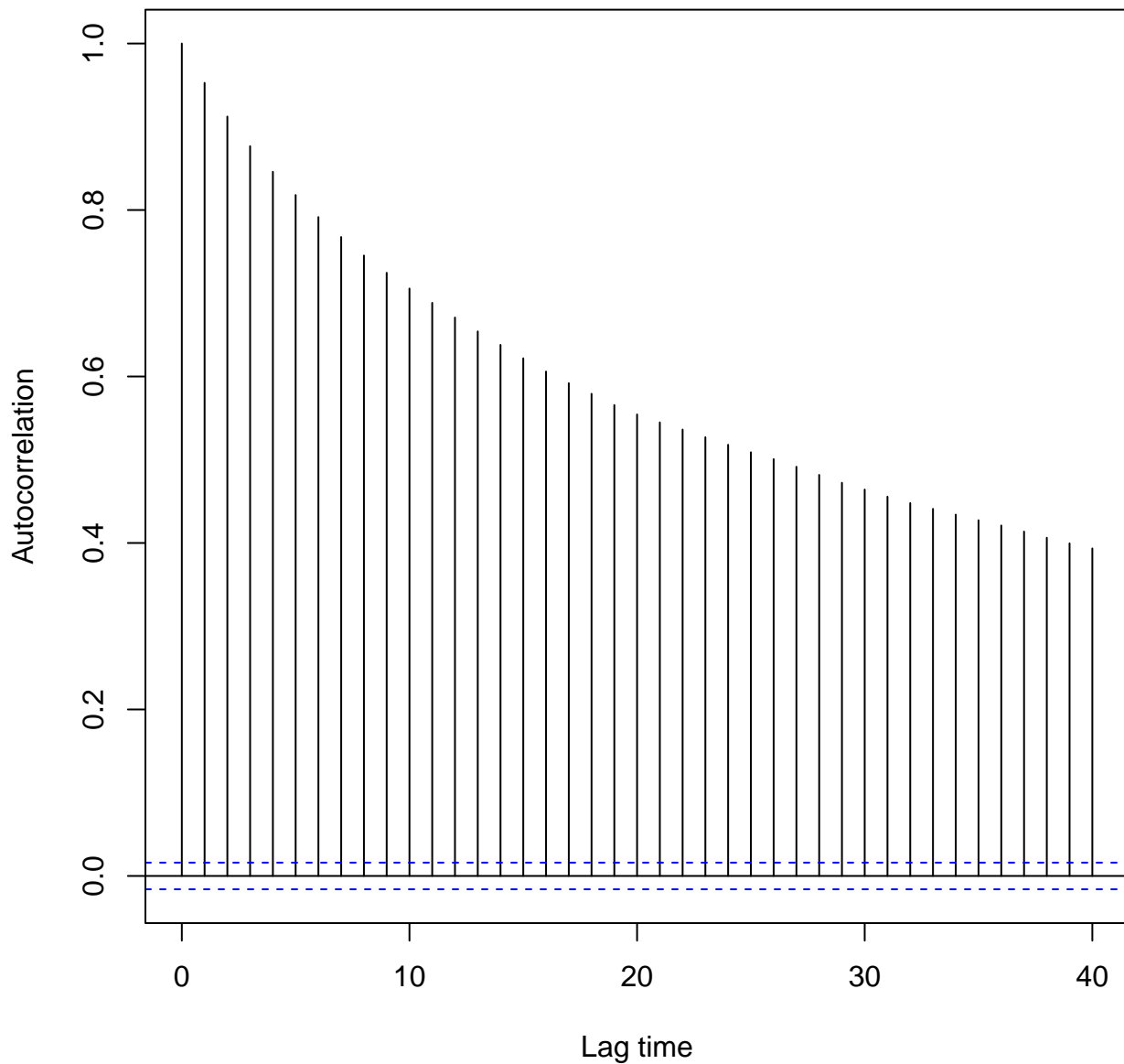




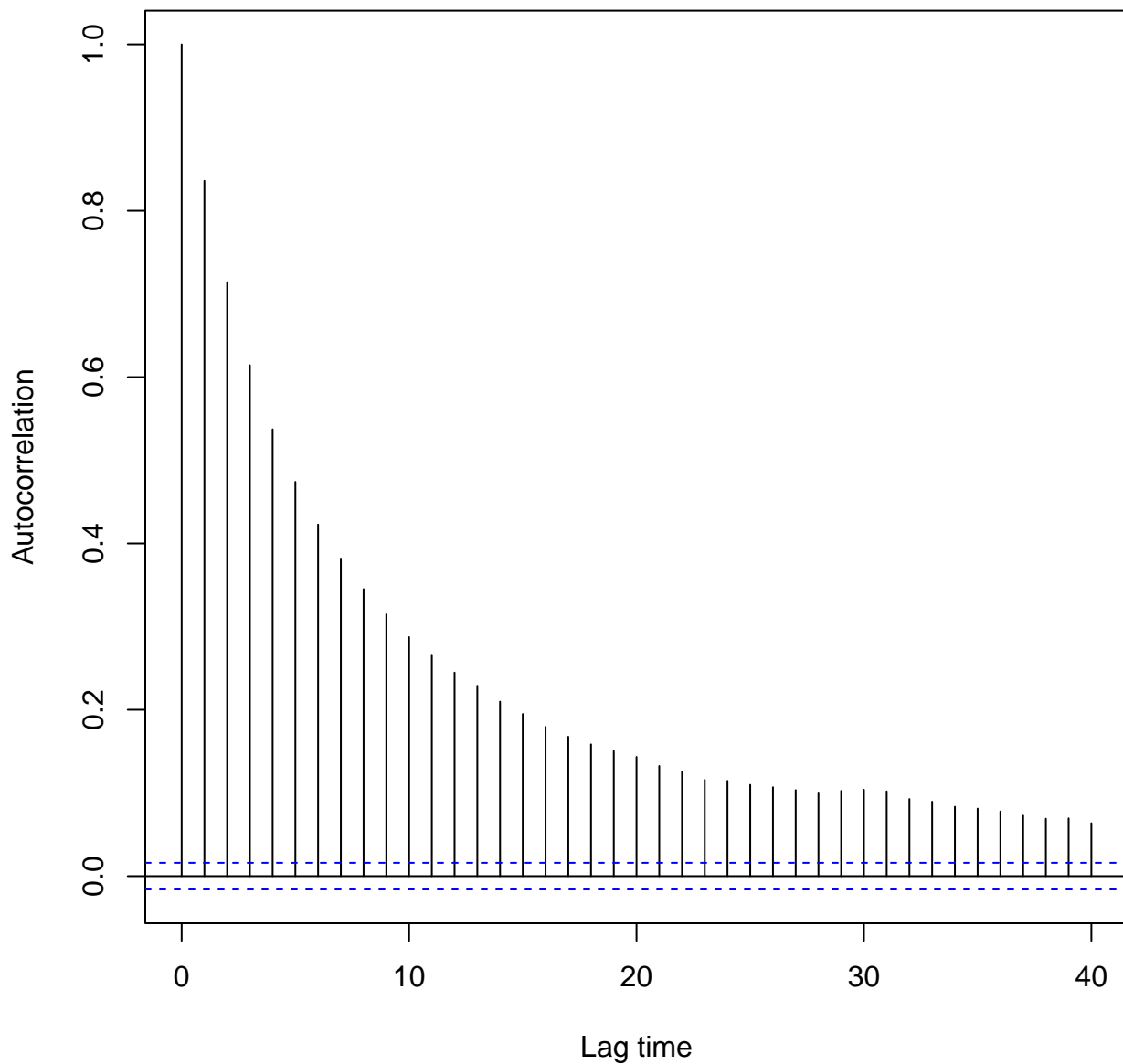
# Mutation L CTC Mixture: 1



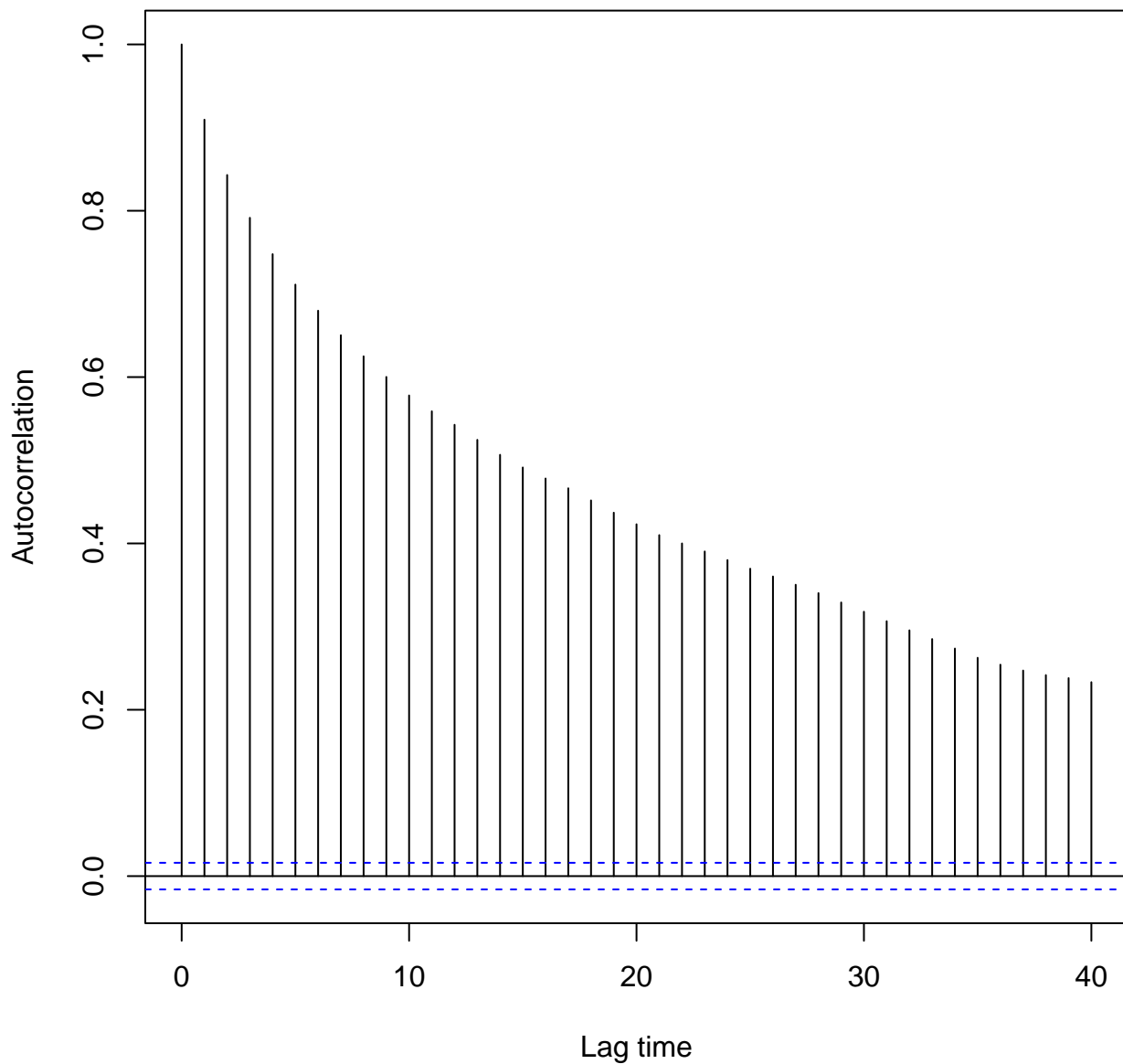
## Mutation L CTC Mixture: 2



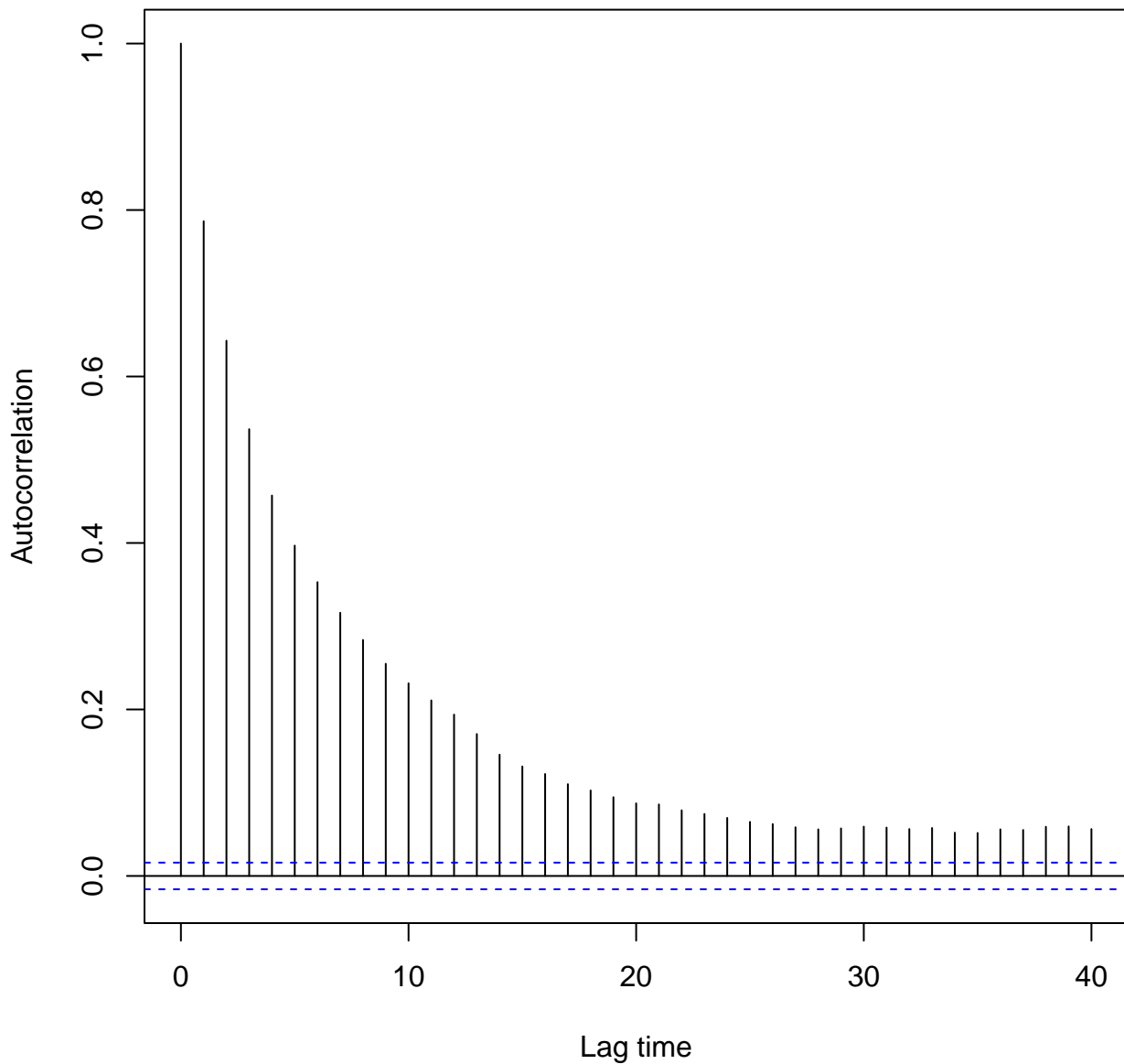
# Mutation L CTT Mixture: 1



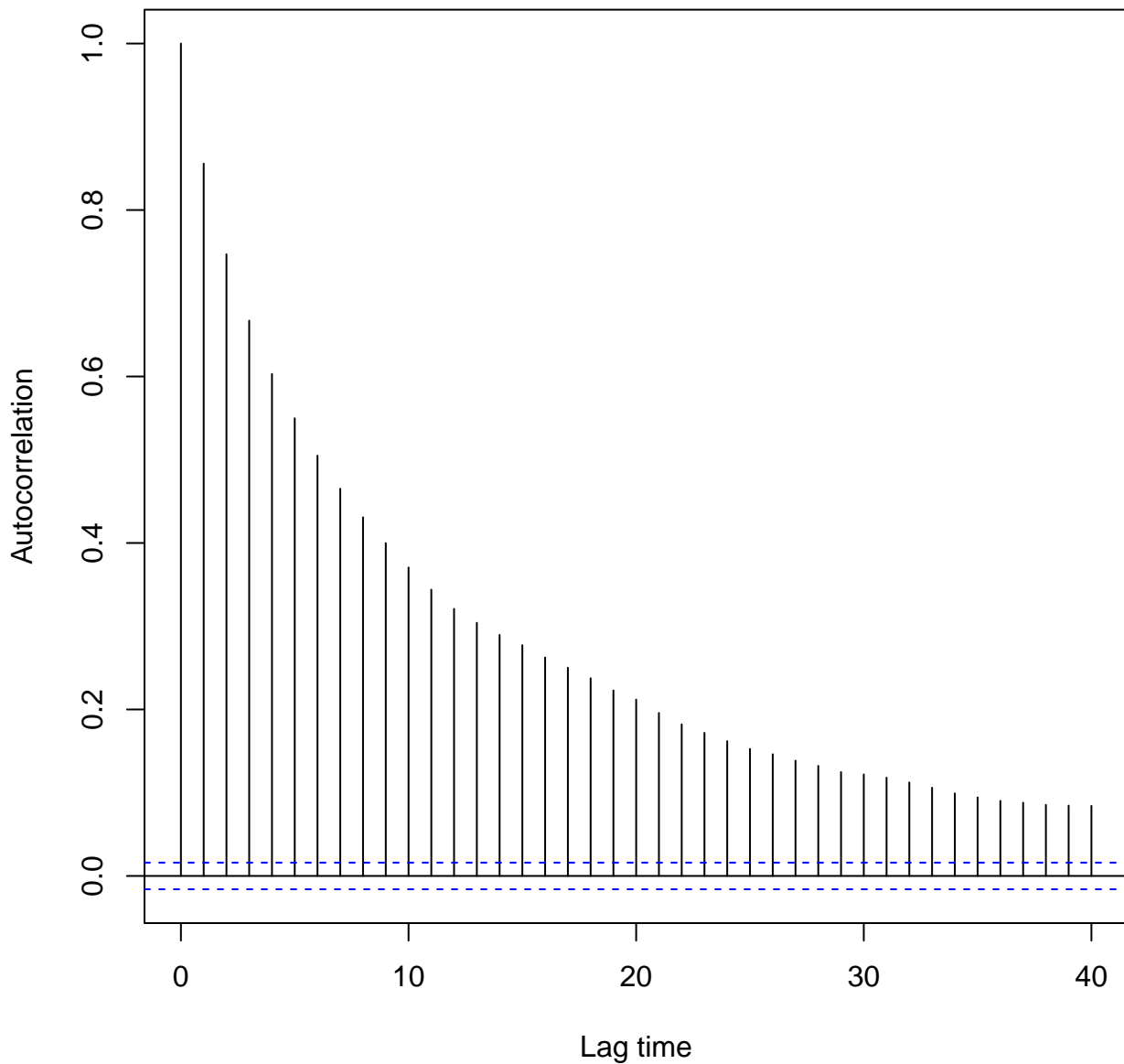
## Mutation L CTT Mixture: 2



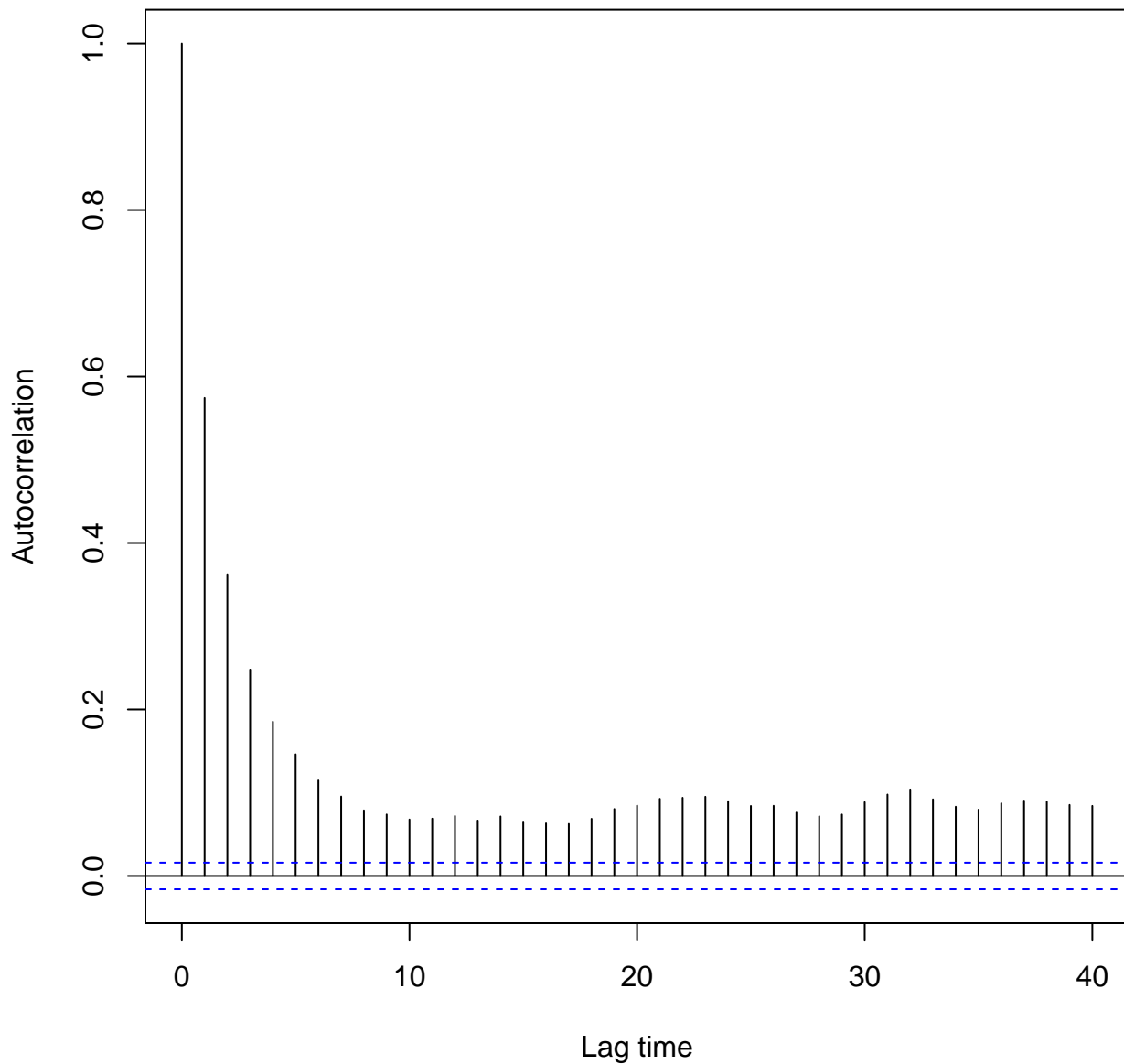
# Mutation L TTA Mixture: 1



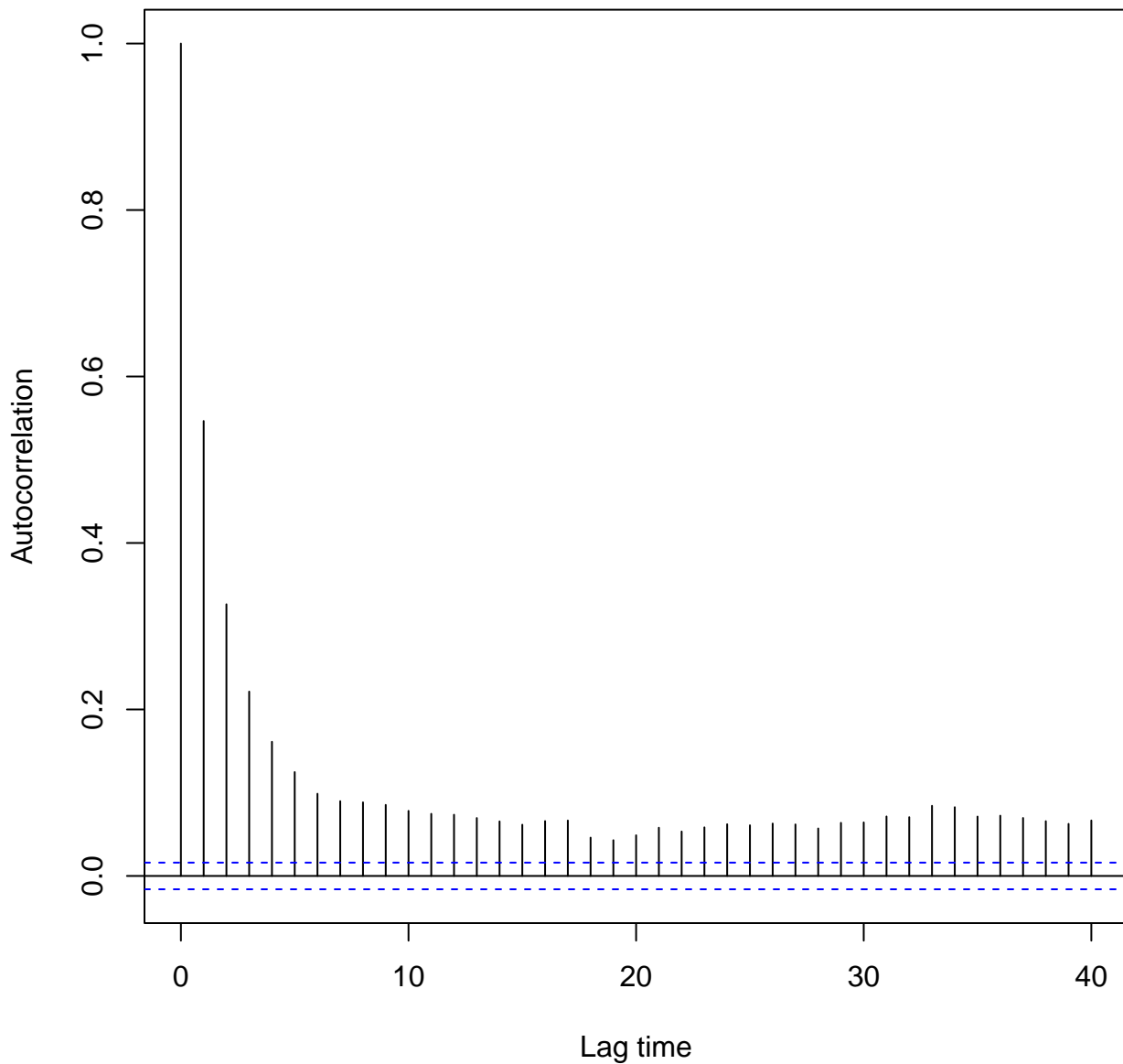
## Mutation L TTA Mixture: 2



# Mutation N AAC Mixture: 1

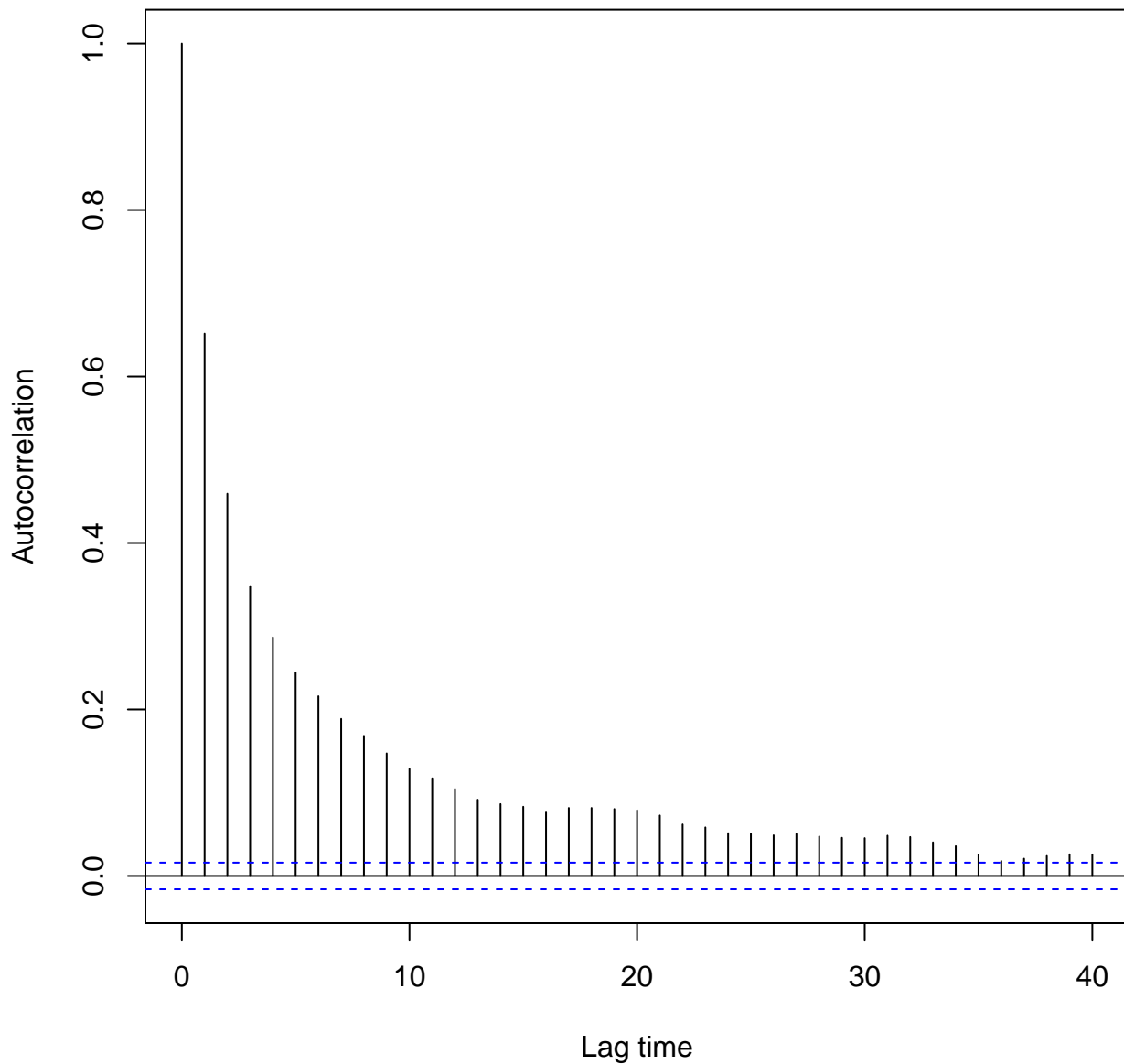


## Mutation N AAC Mixture: 2

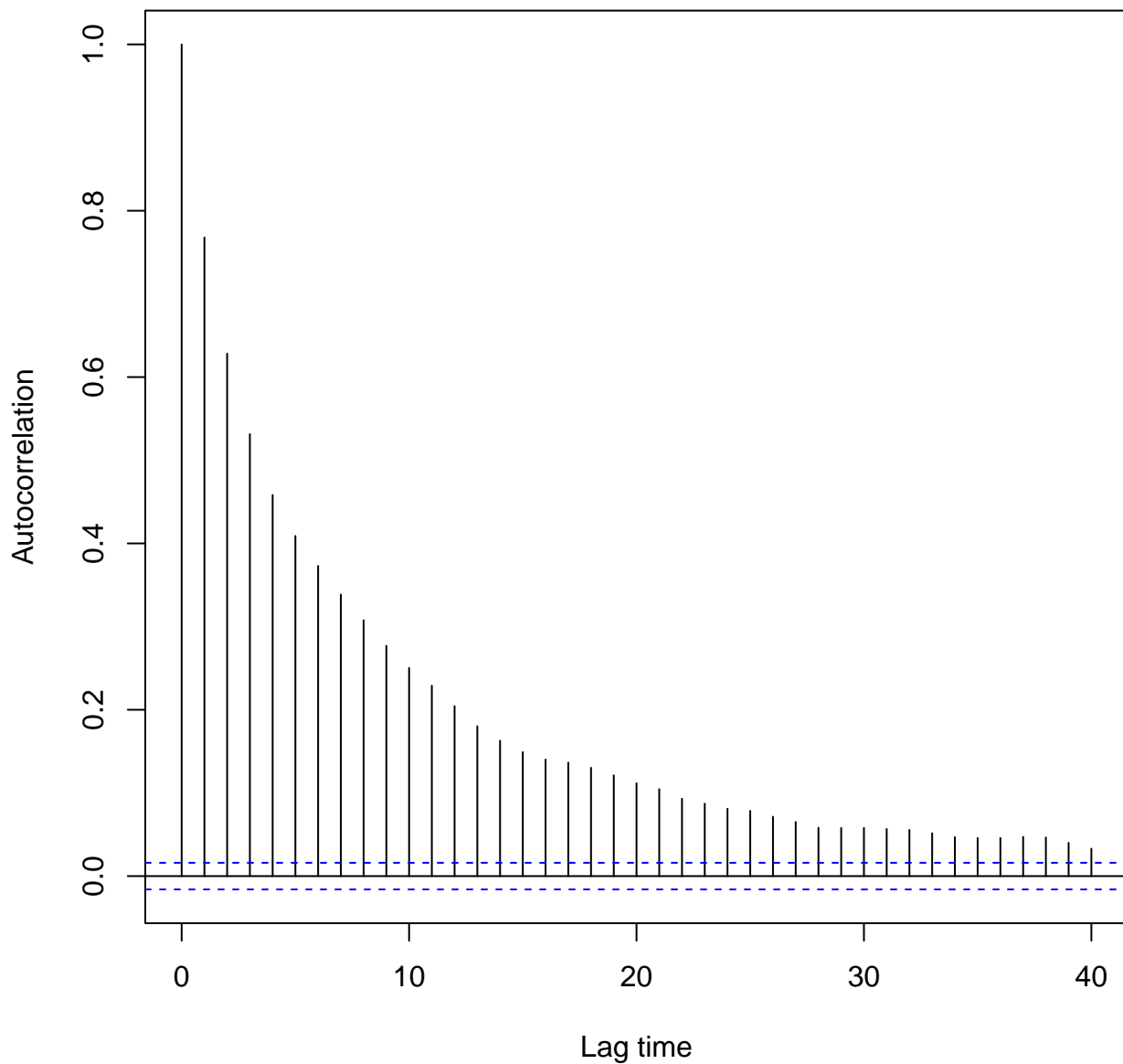




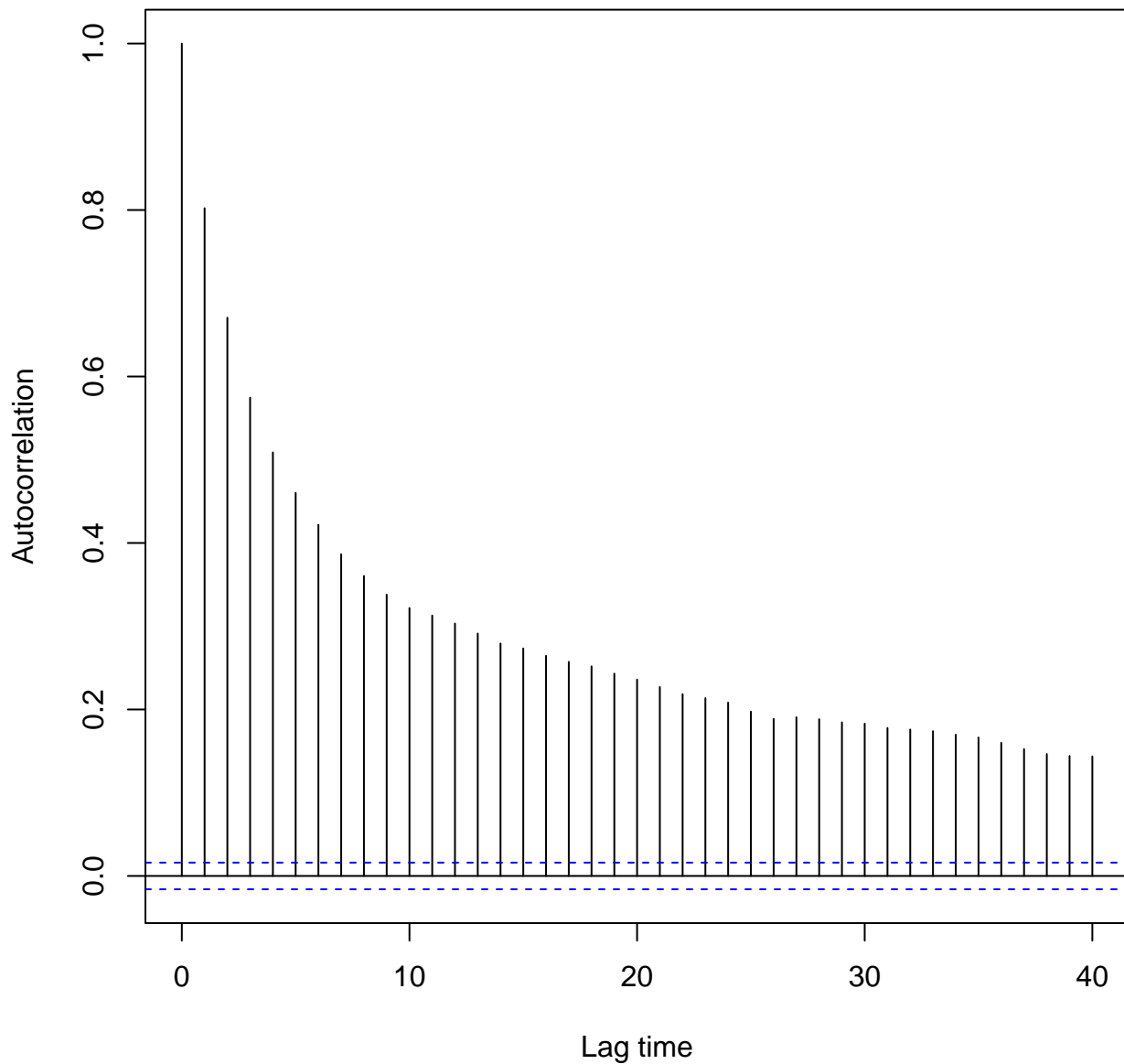
# Mutation P CCA Mixture: 1



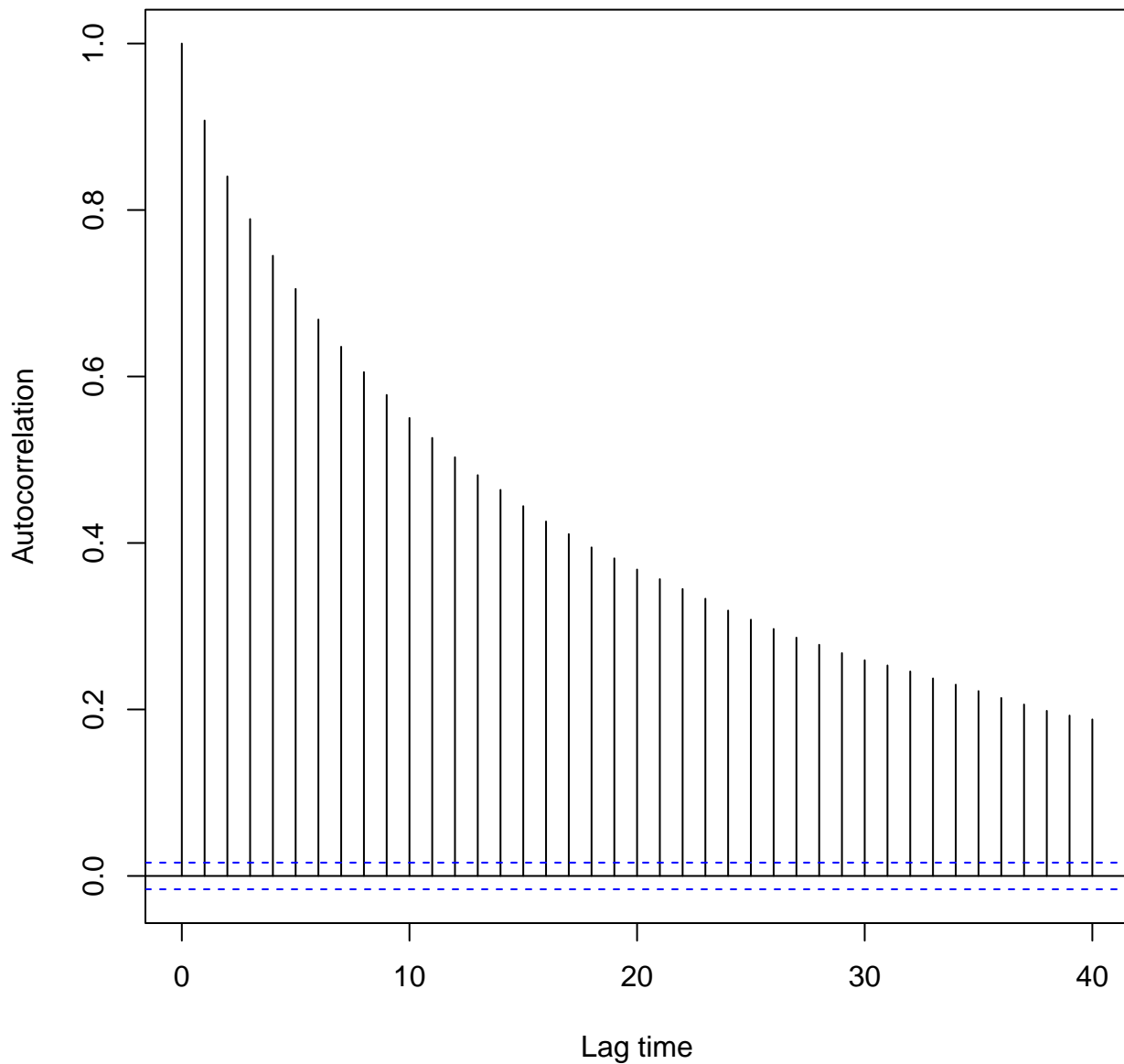
## Mutation P CCA Mixture: 2



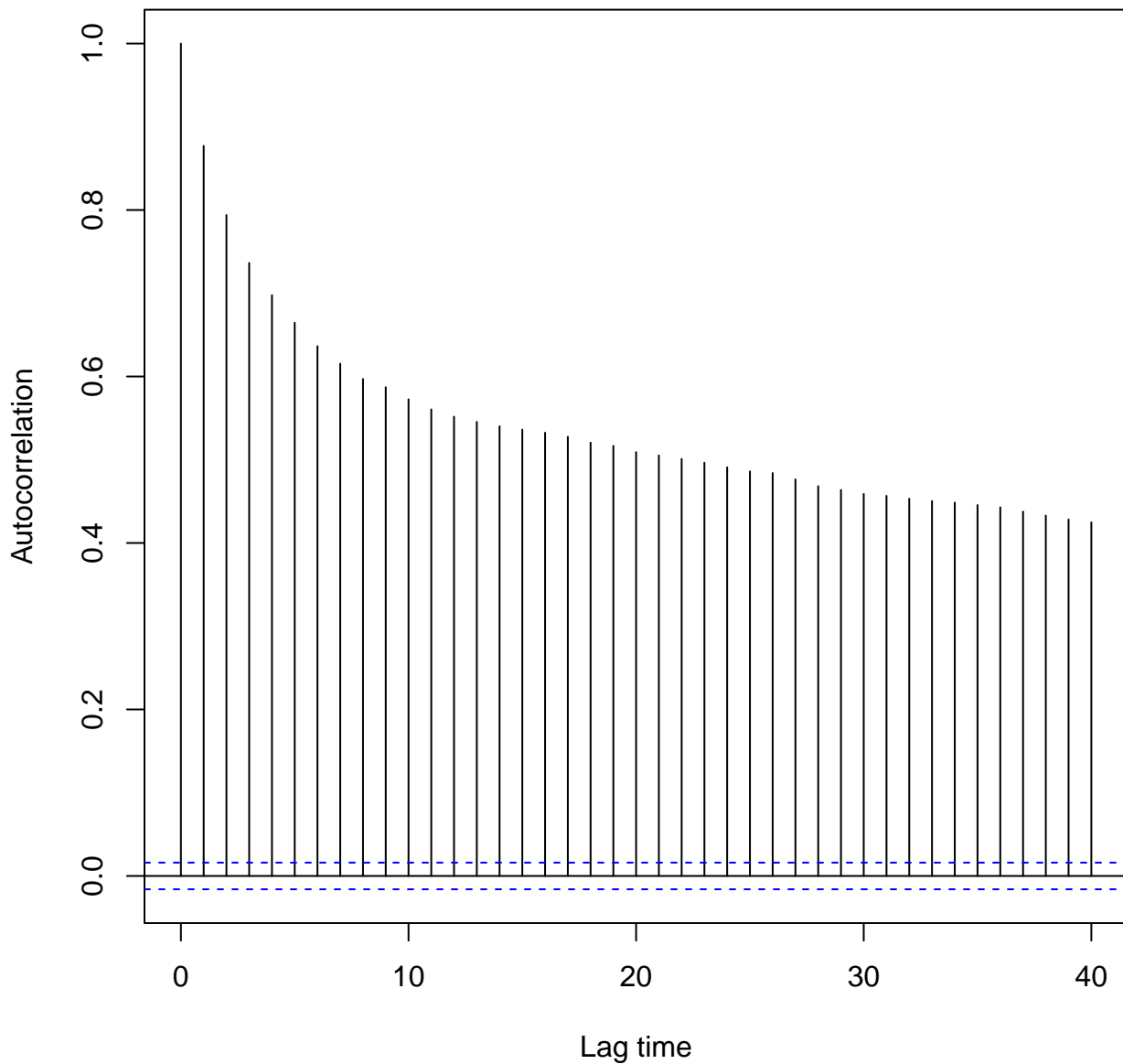
# Mutation P CCC Mixture: 1



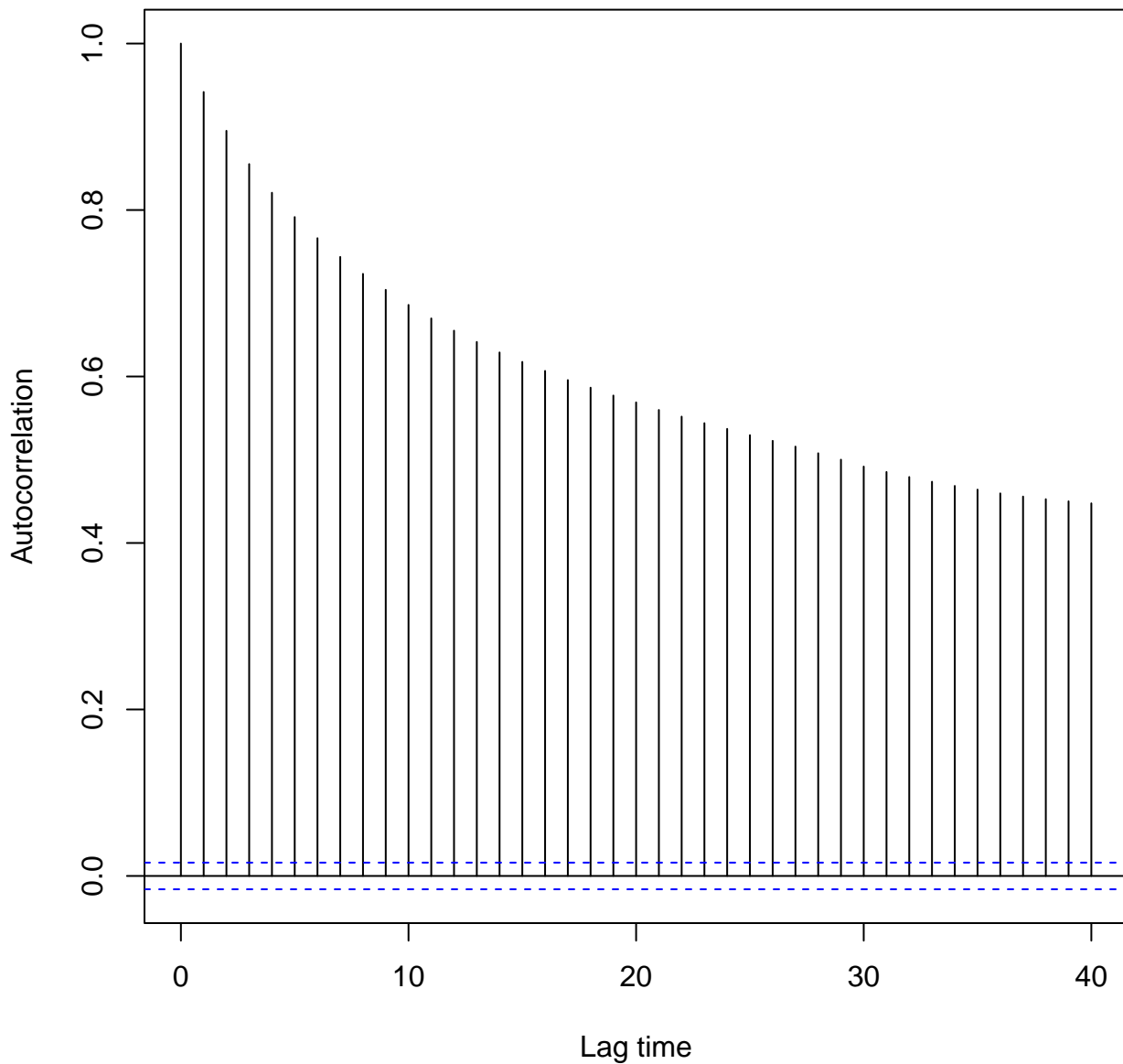
## Mutation P CCC Mixture: 2



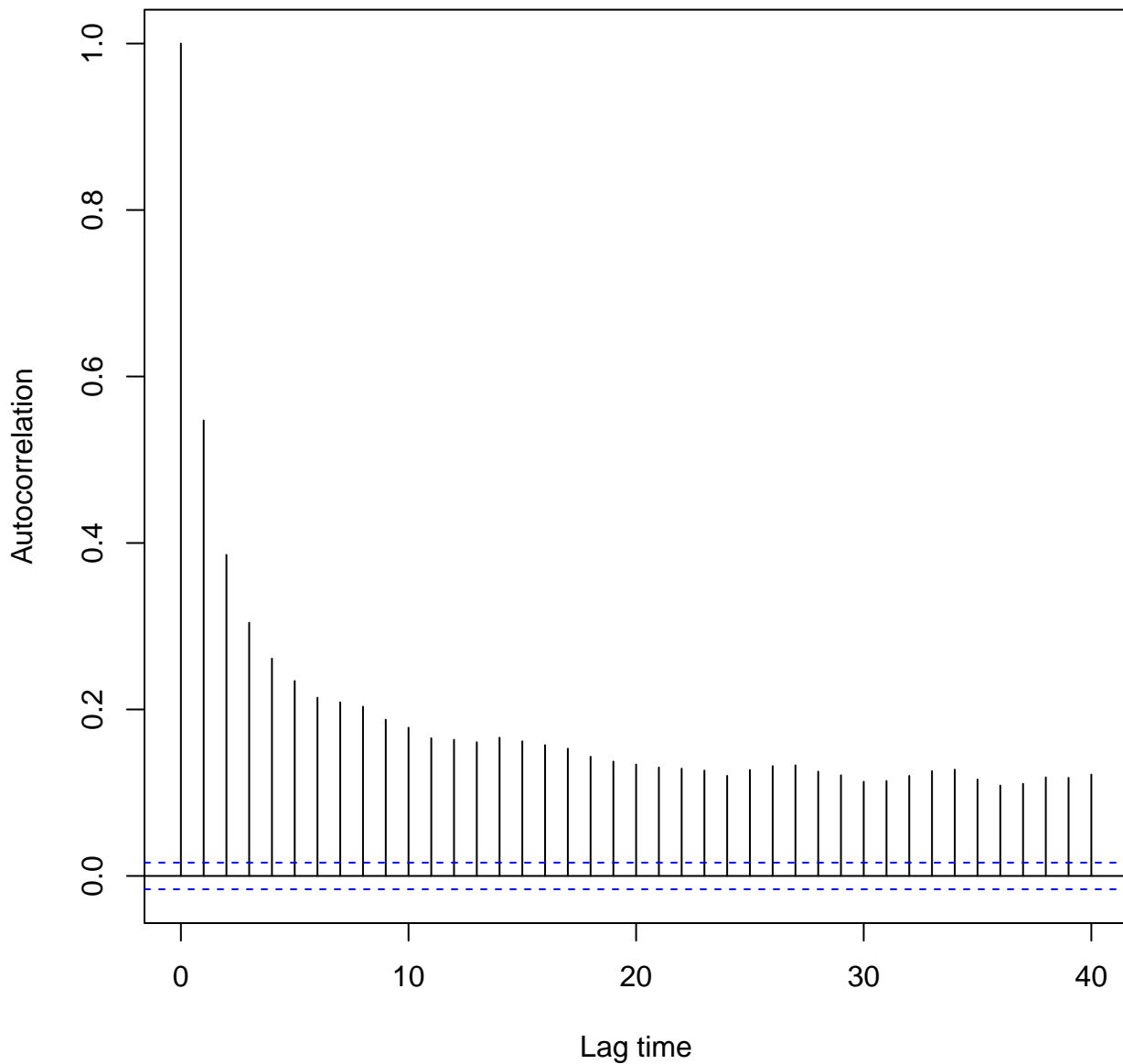
# Mutation P CCG Mixture: 1



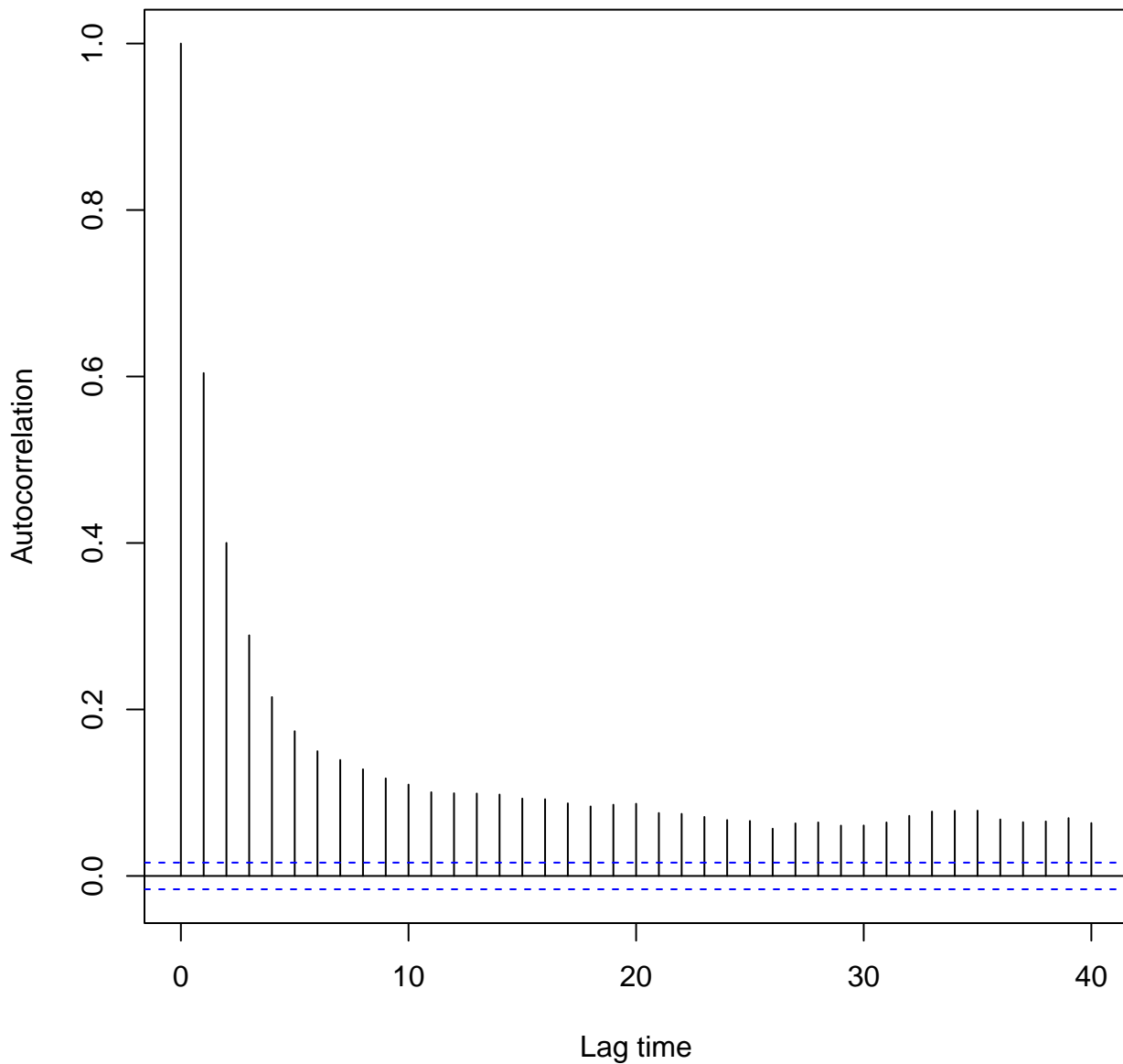
## Mutation P CCG Mixture: 2



# Mutation Q CAA Mixture: 1

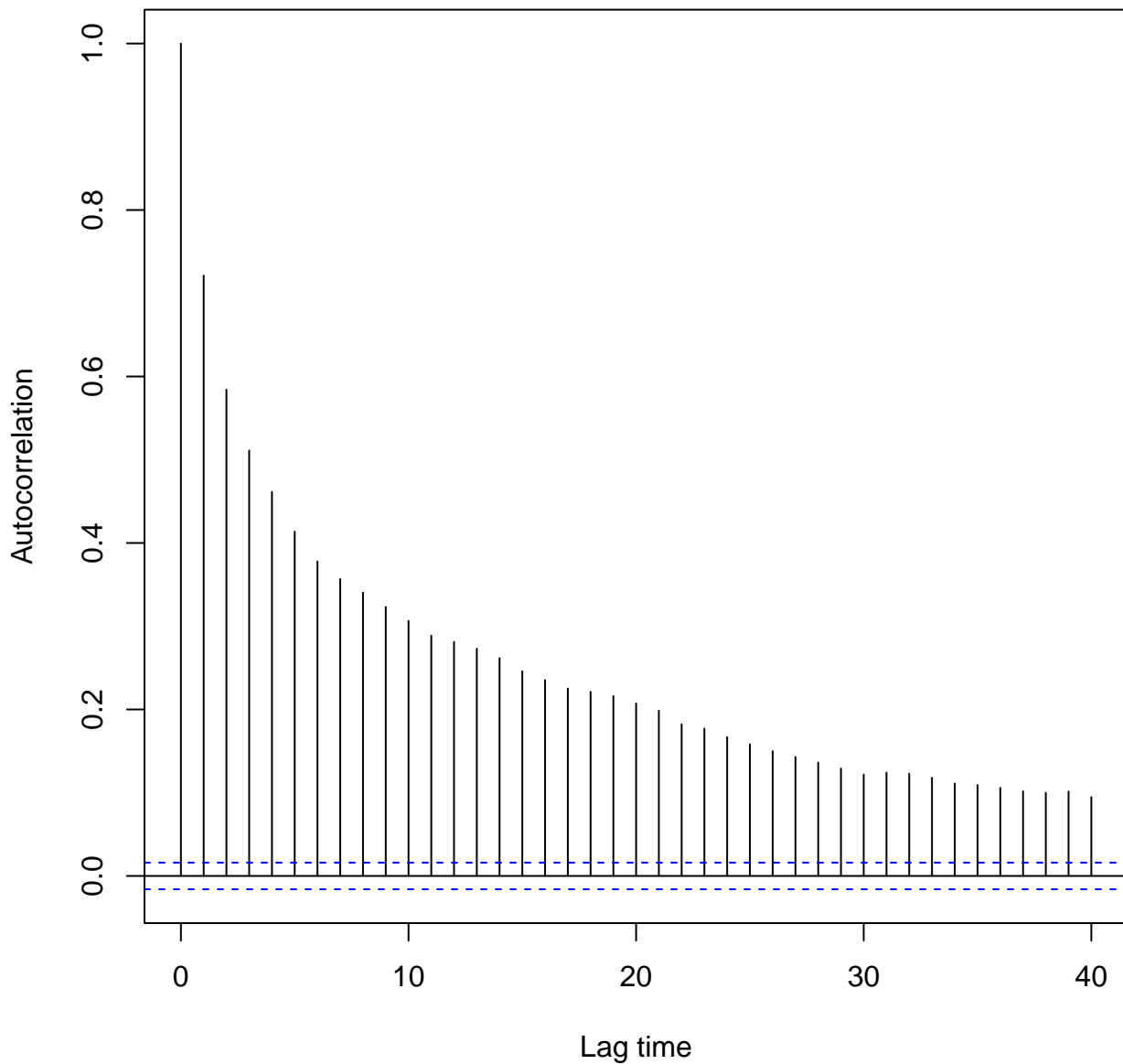


## Mutation Q CAA Mixture: 2

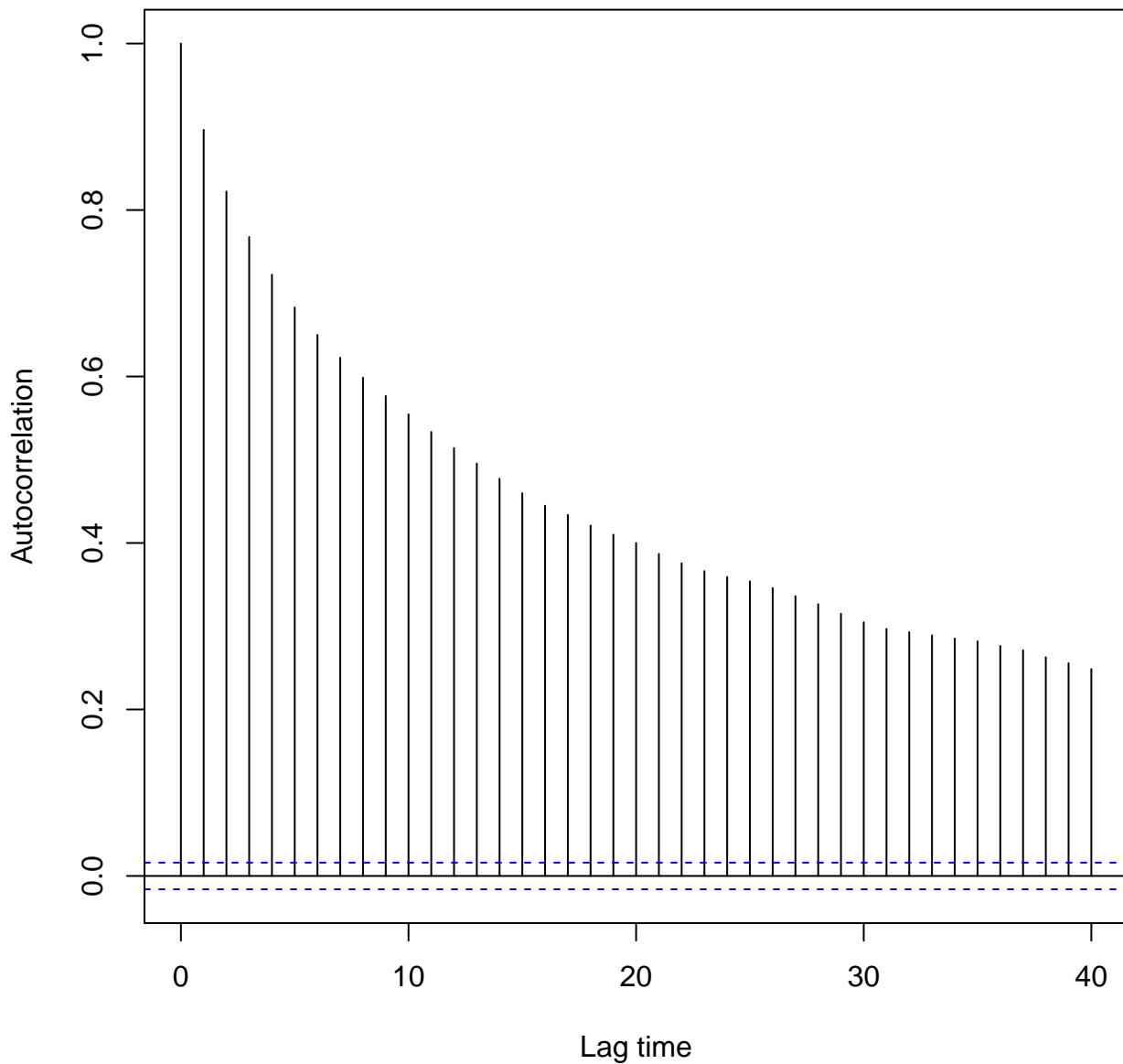




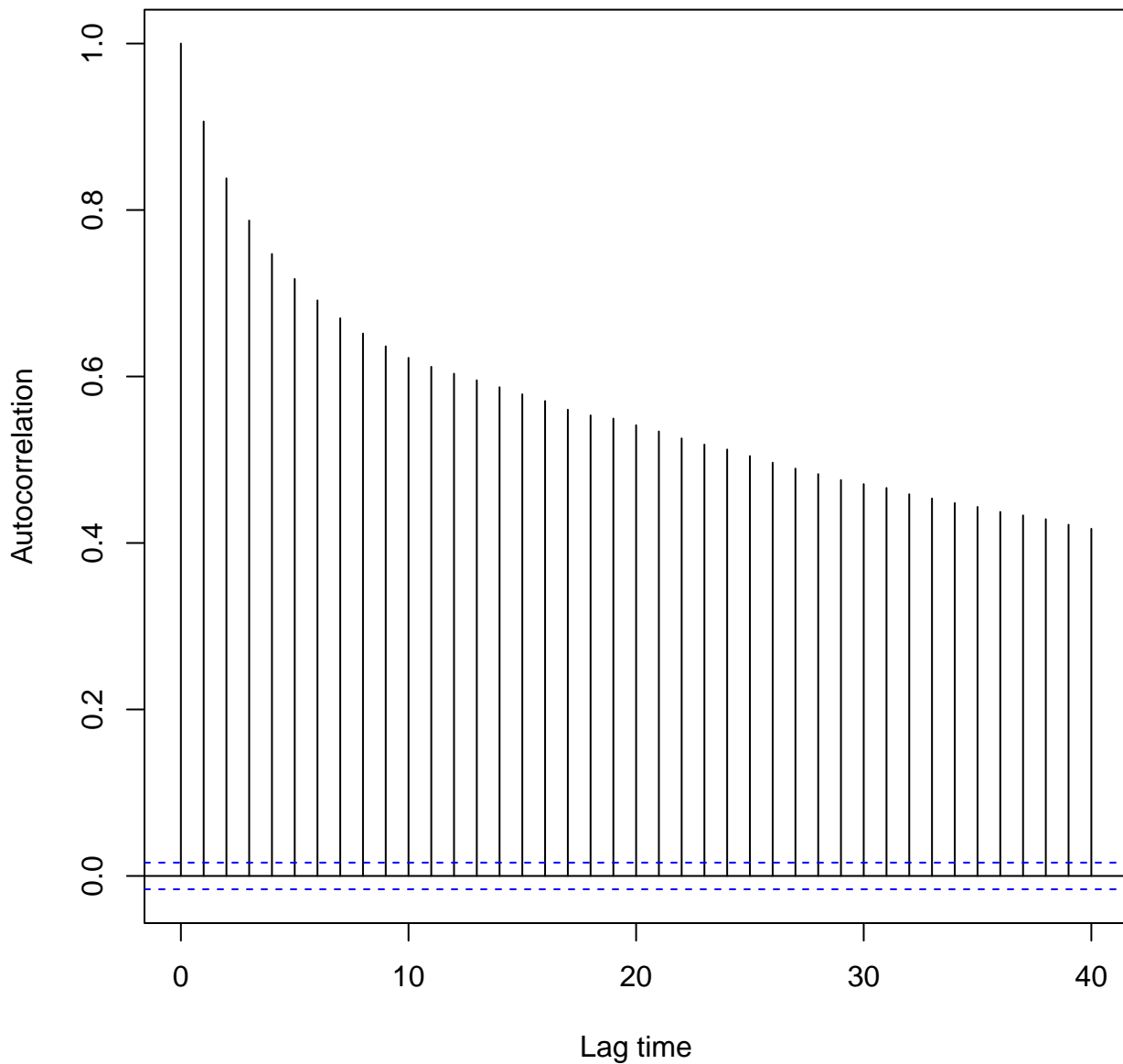
# Mutation R AGA Mixture: 1



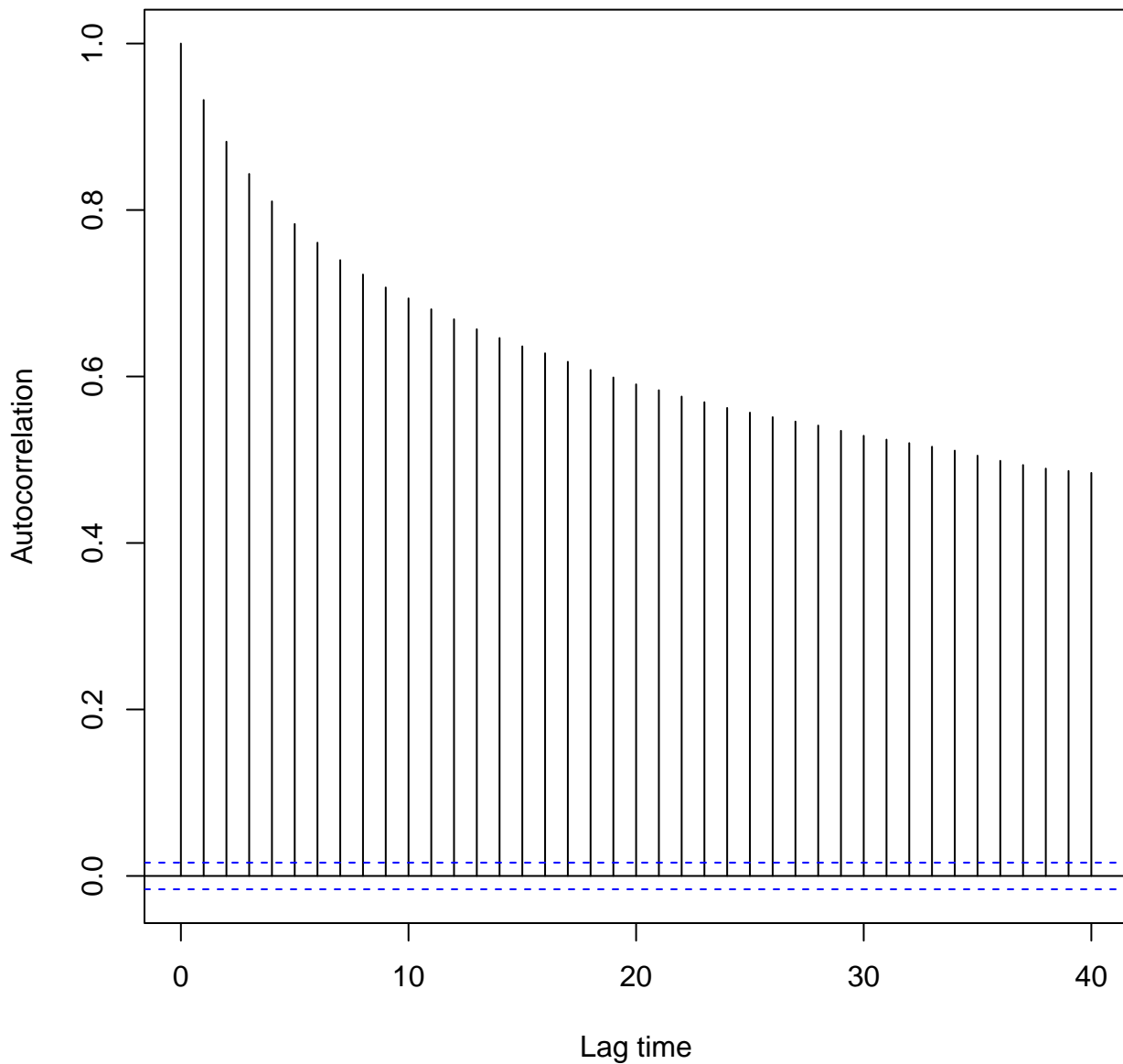
## Mutation R AGA Mixture: 2



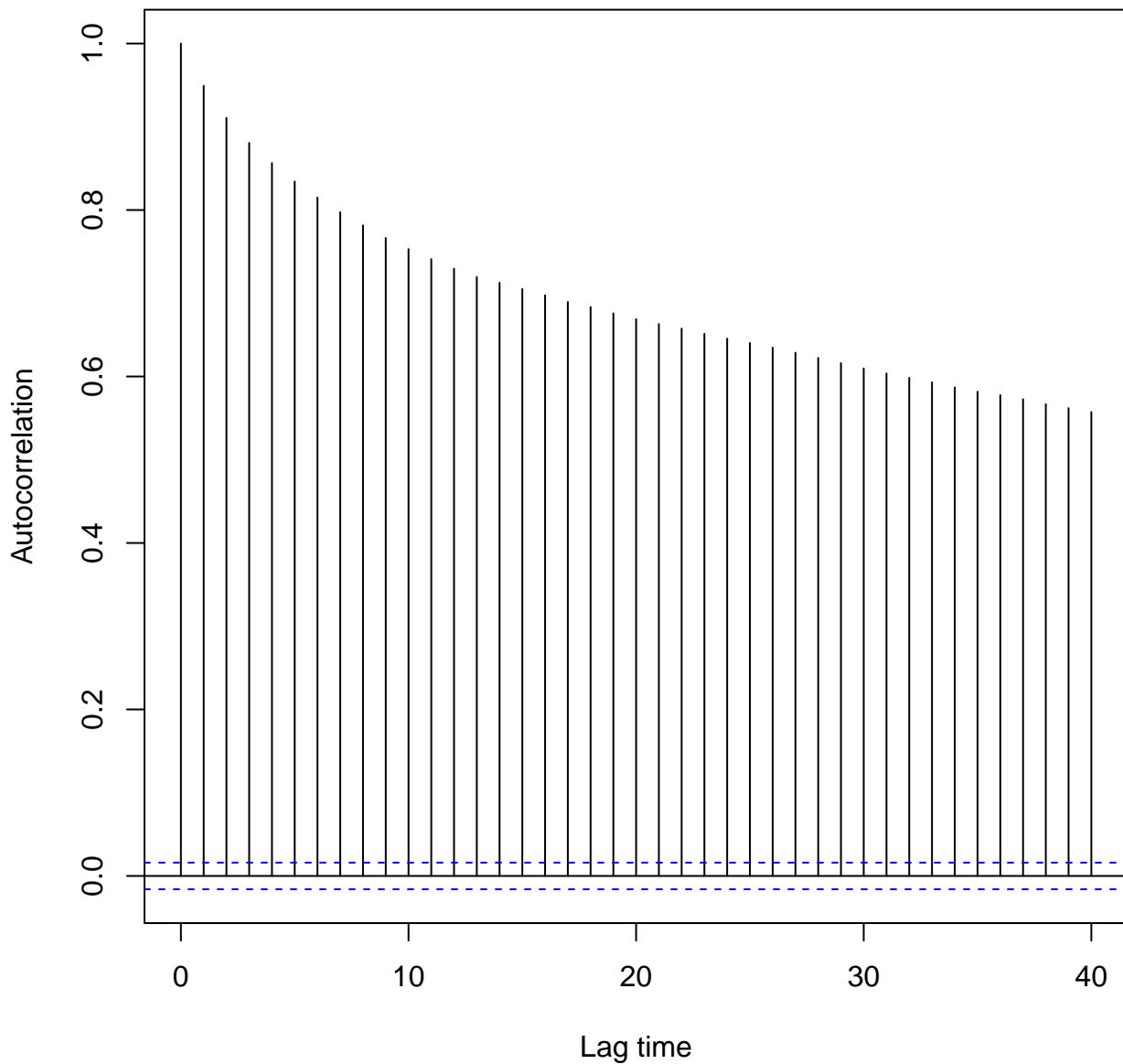
# Mutation R AGG Mixture: 1



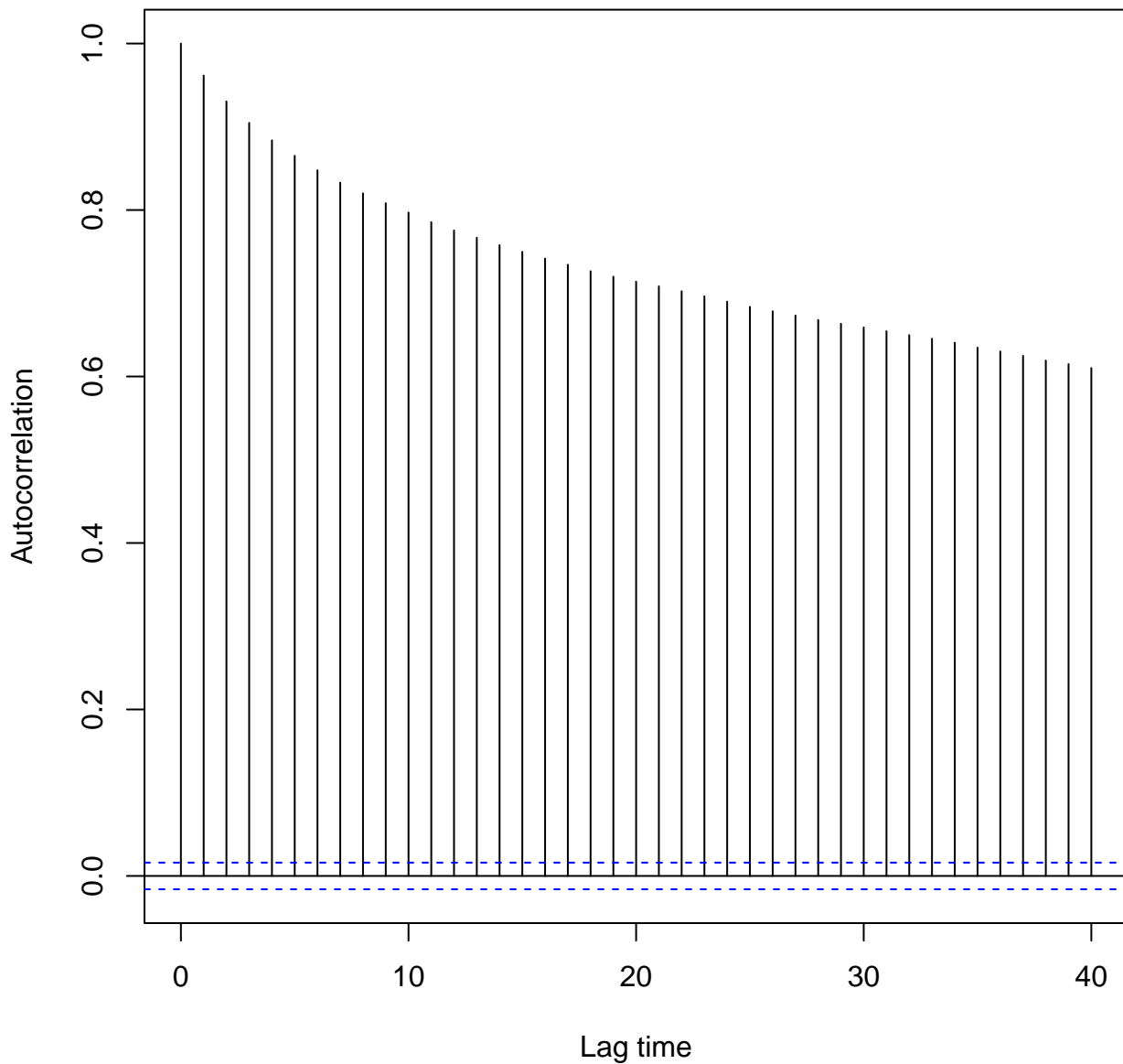
## Mutation R AGG Mixture: 2



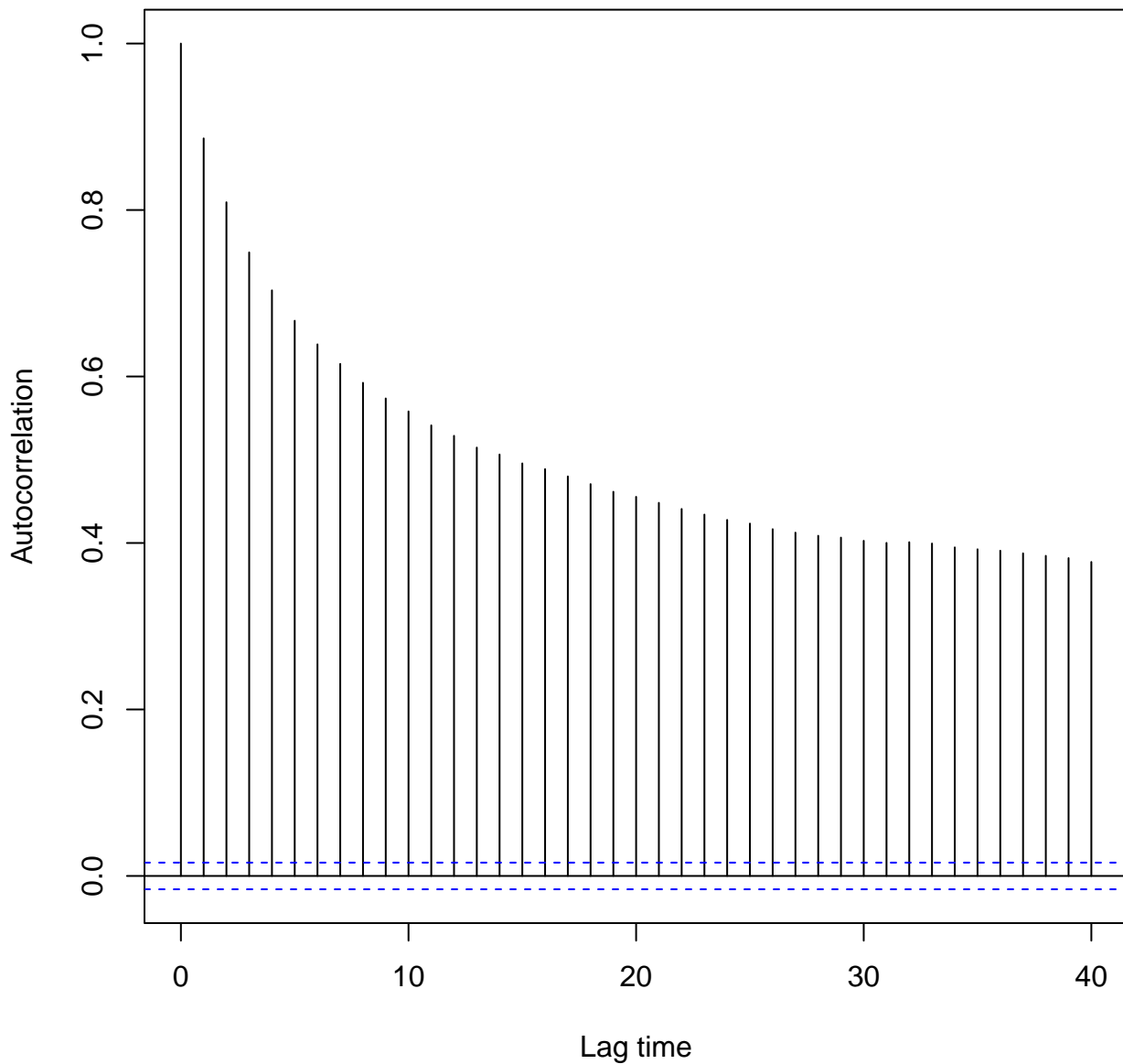
# Mutation R CGA Mixture: 1



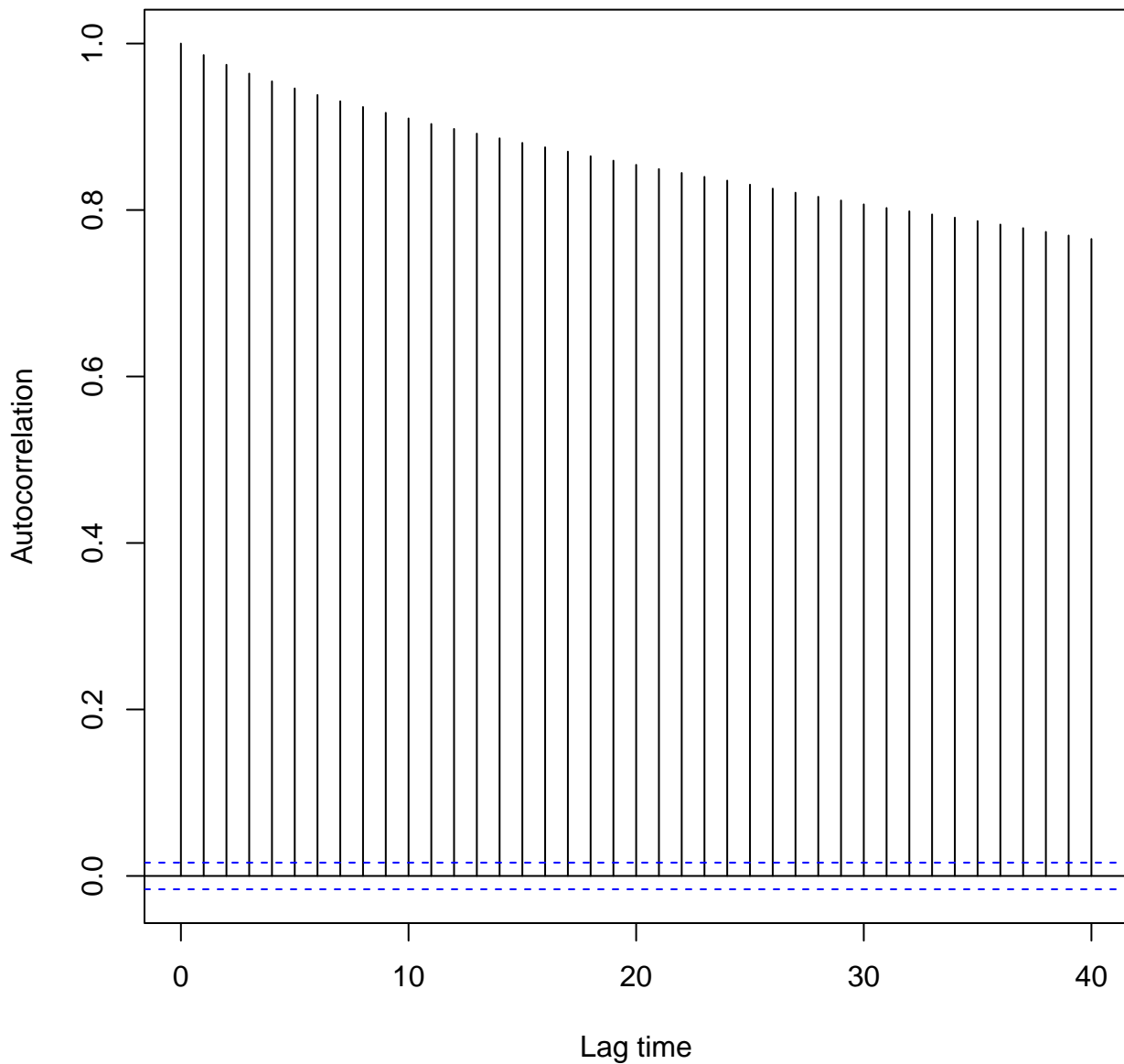
## Mutation R CGA Mixture: 2



# Mutation R CGC Mixture: 1

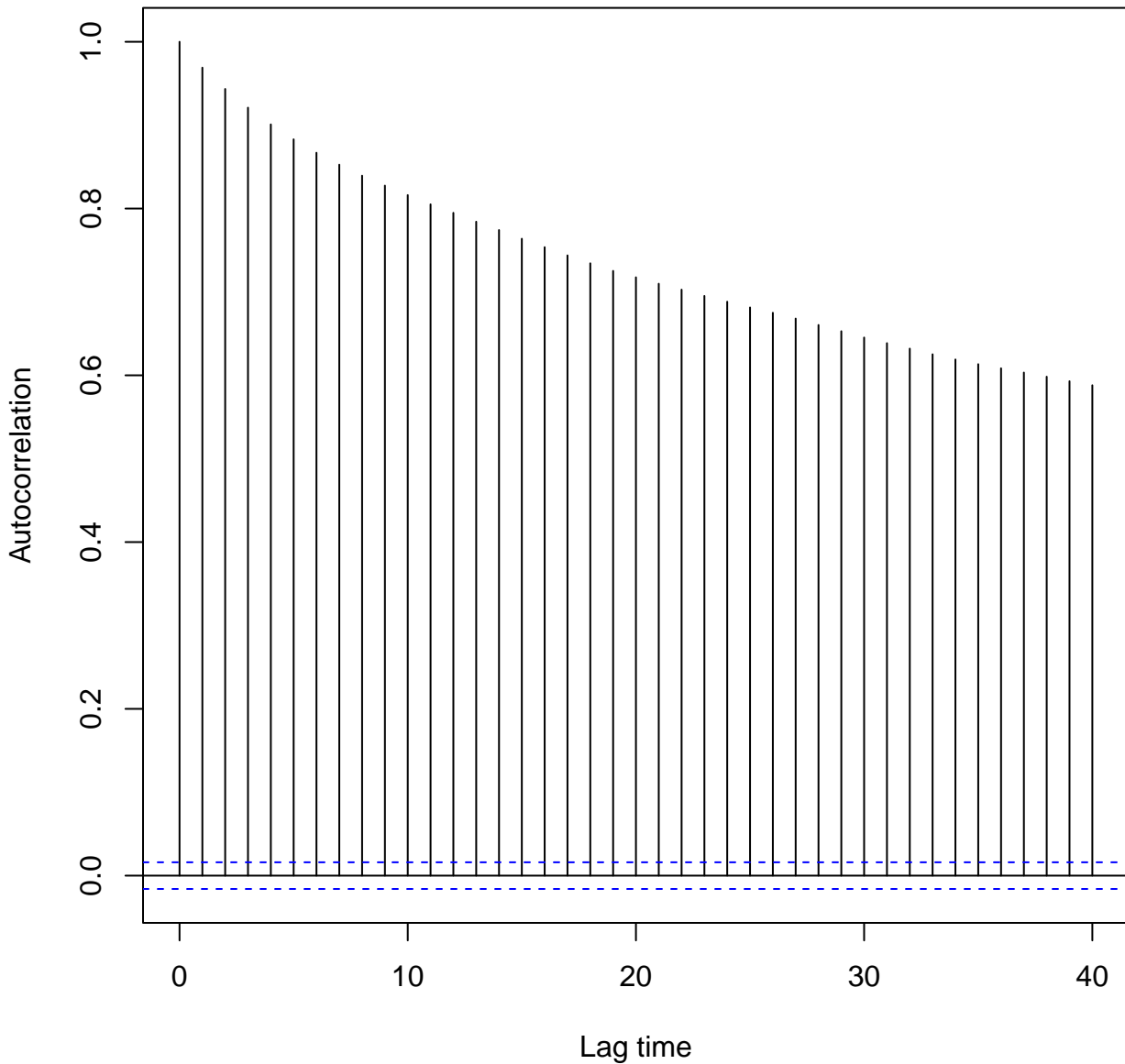


## Mutation R CGC Mixture: 2

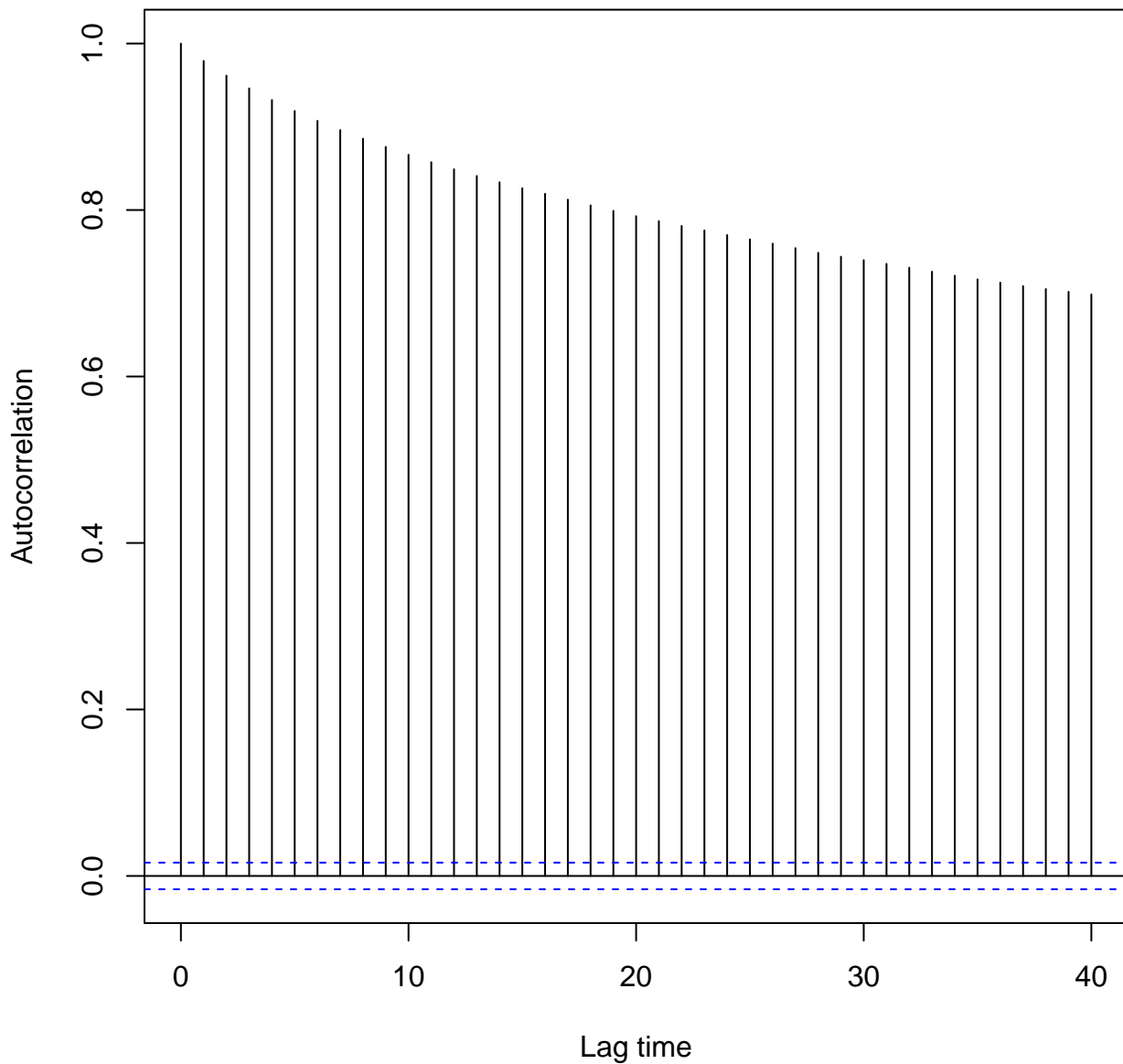




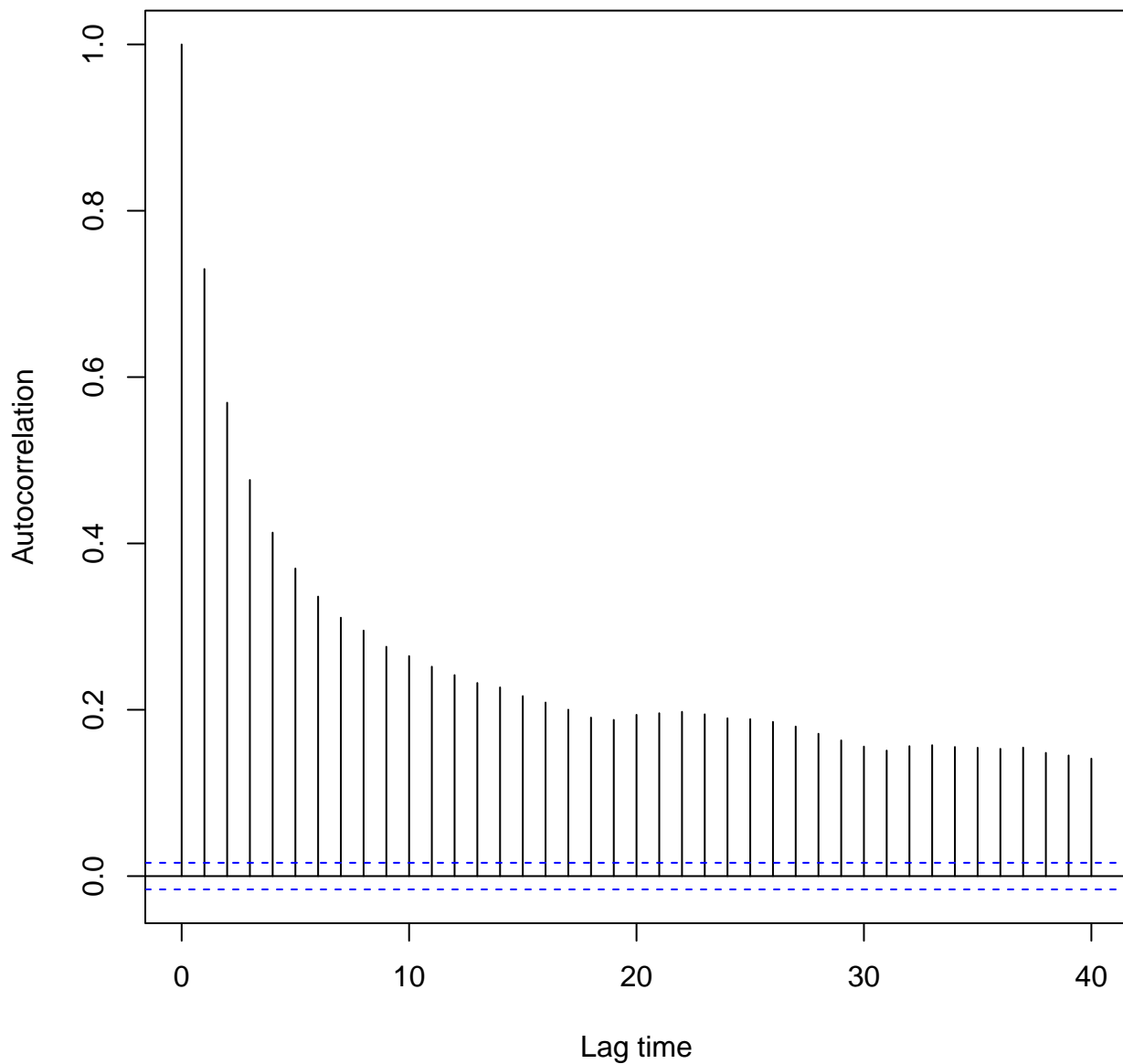
# Mutation R CGG Mixture: 1



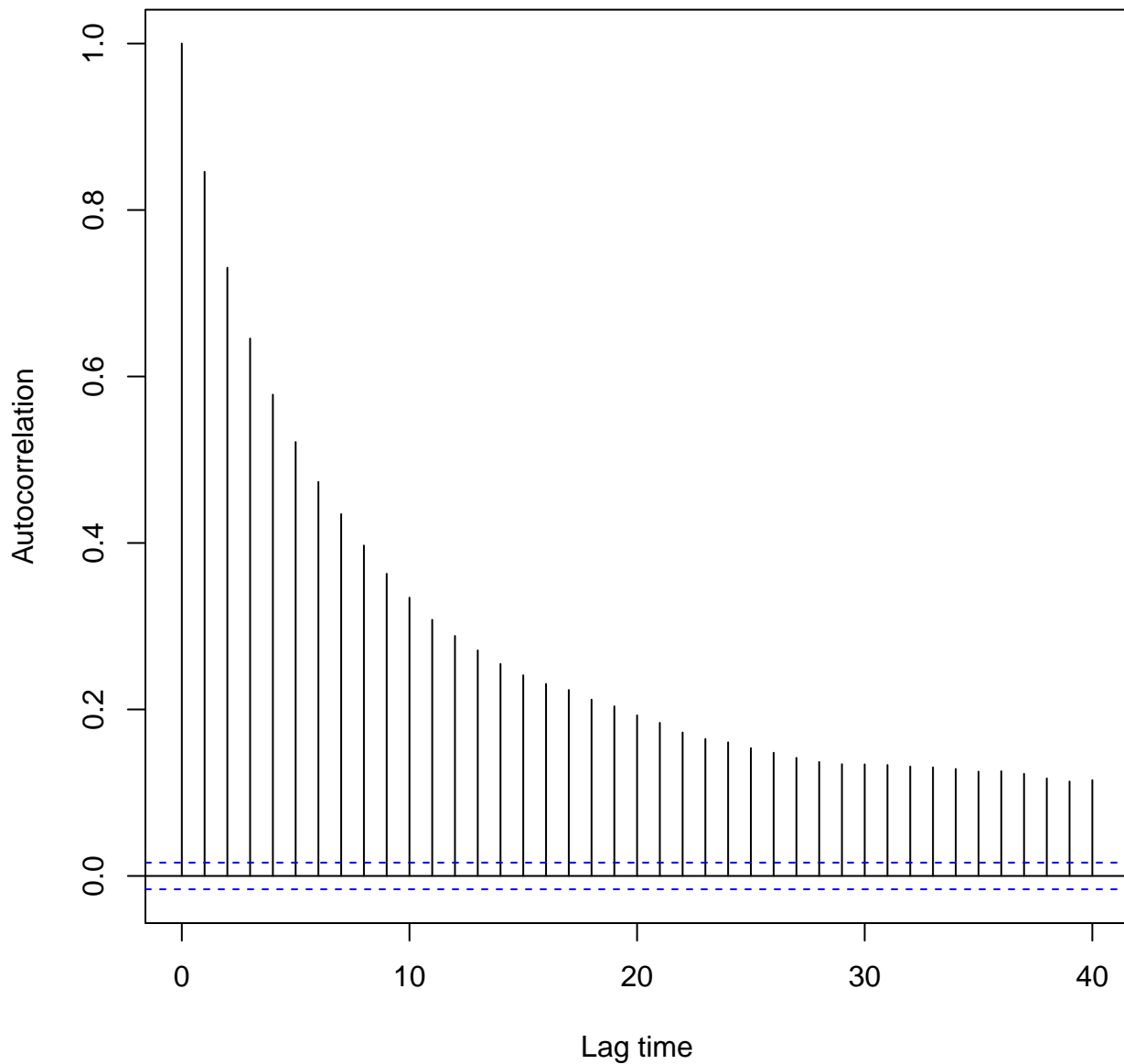
## Mutation R CGG Mixture: 2



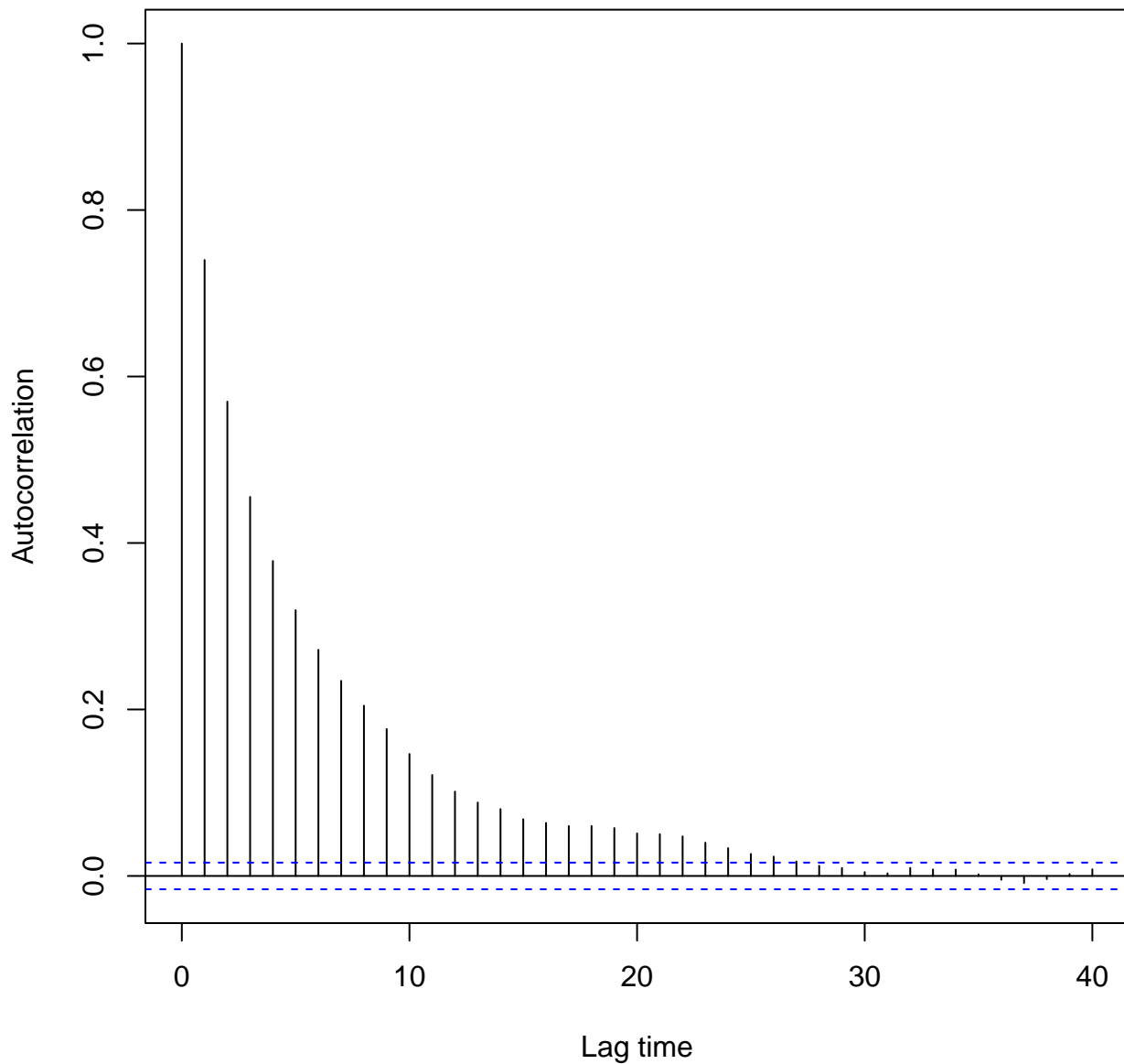
# Mutation S TCA Mixture: 1



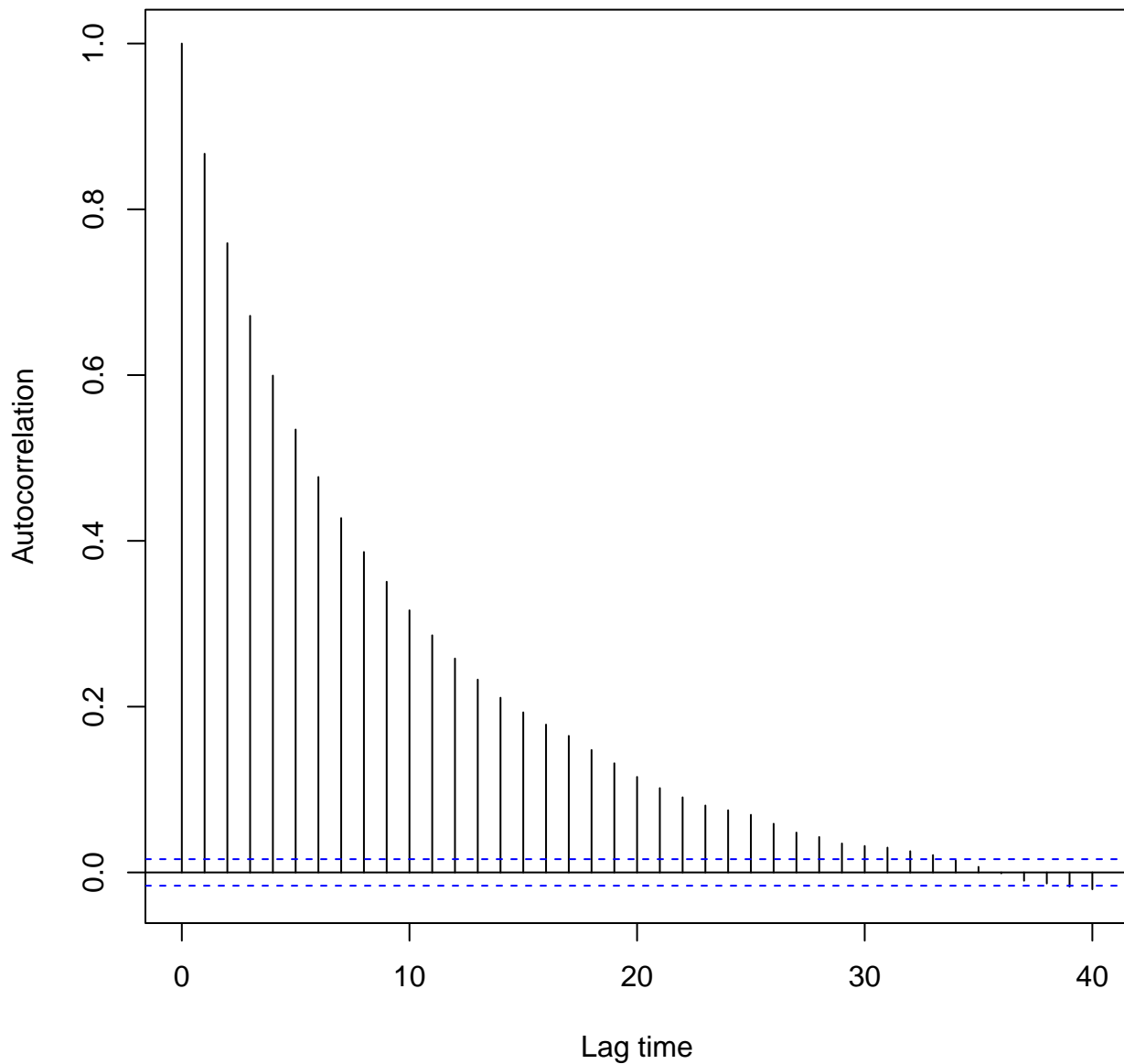
## Mutation S TCA Mixture: 2



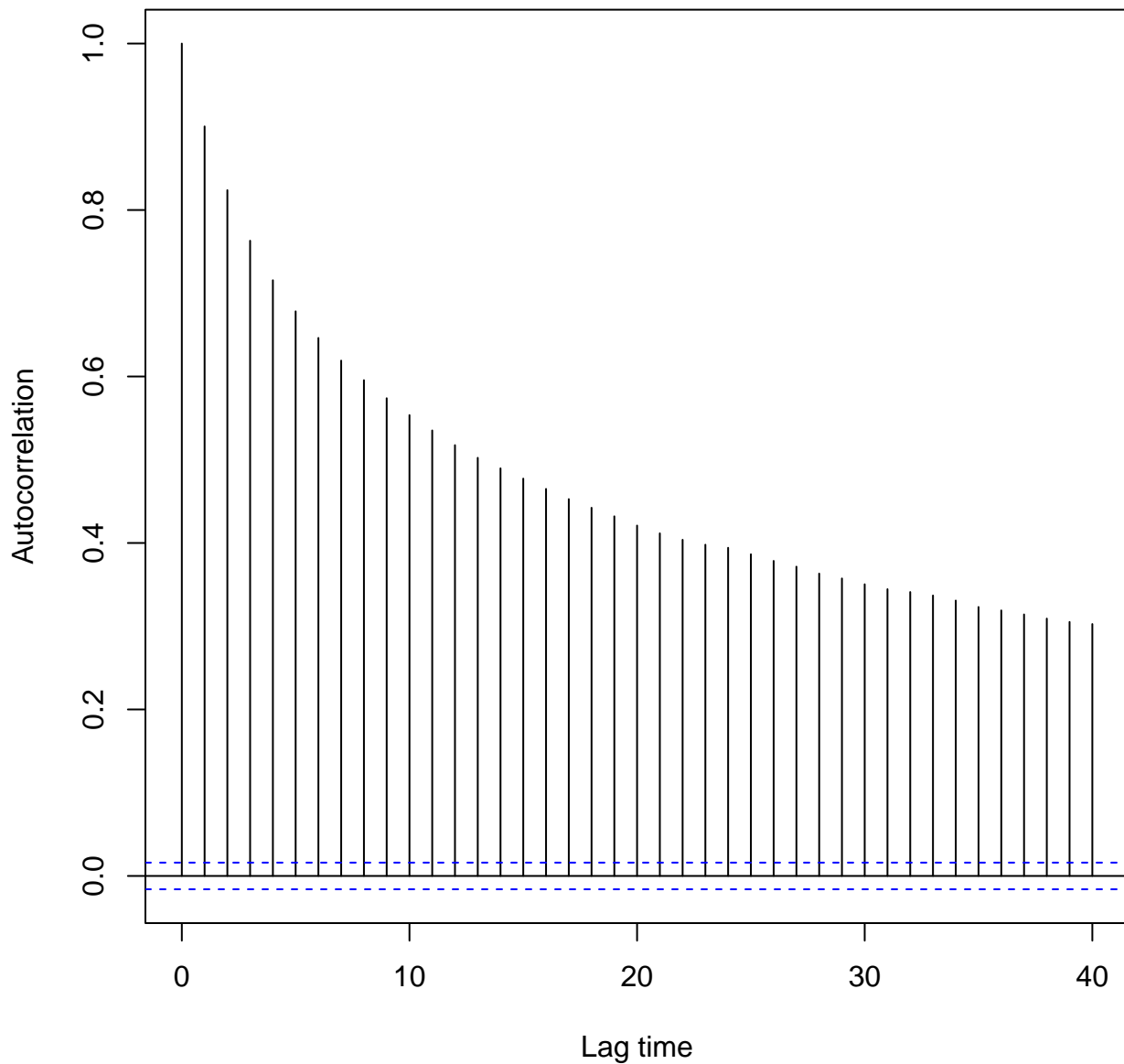
# Mutation S TCC Mixture: 1



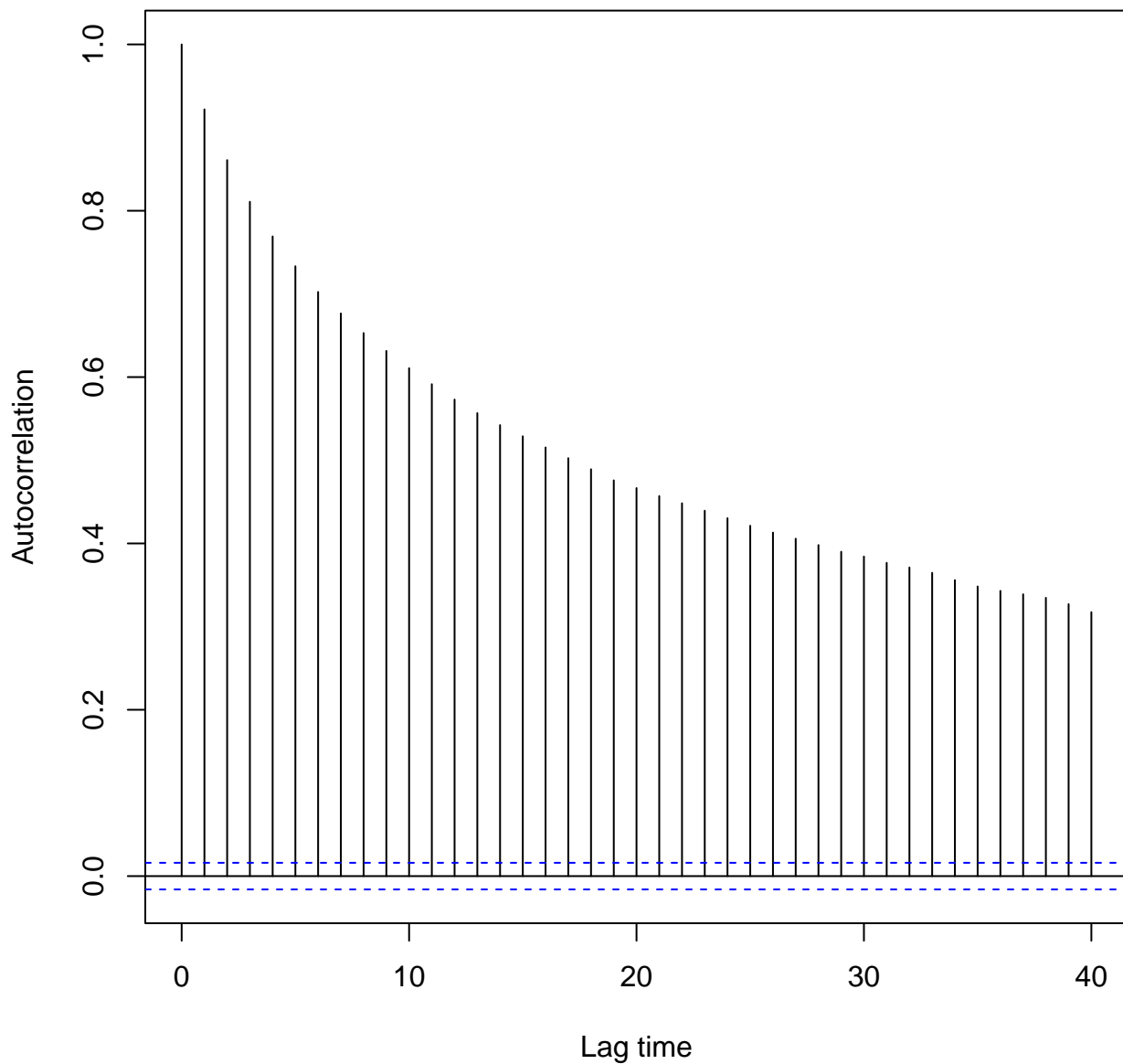
## Mutation S TCC Mixture: 2



# Mutation S TCG Mixture: 1

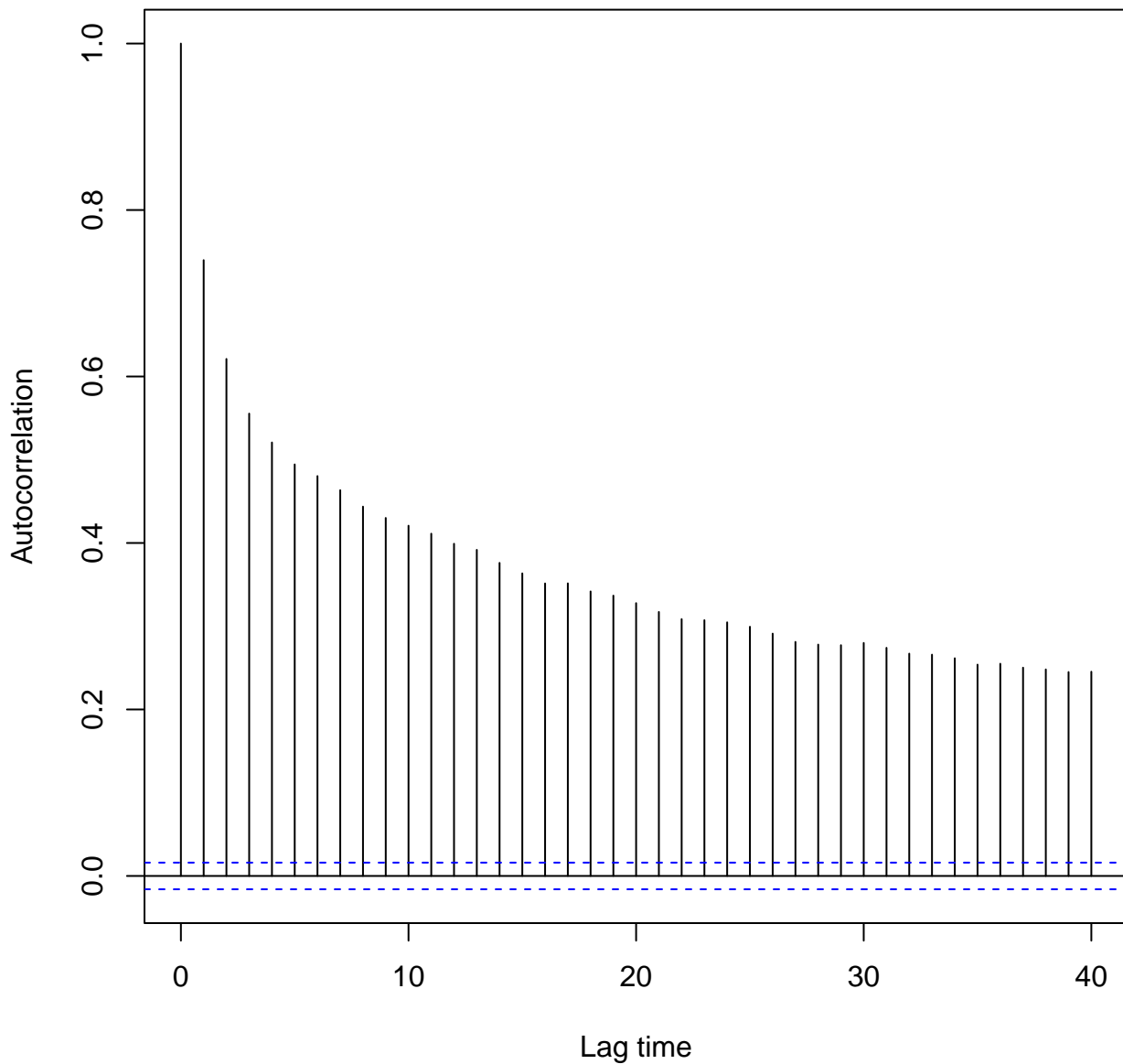


## Mutation S TCG Mixture: 2

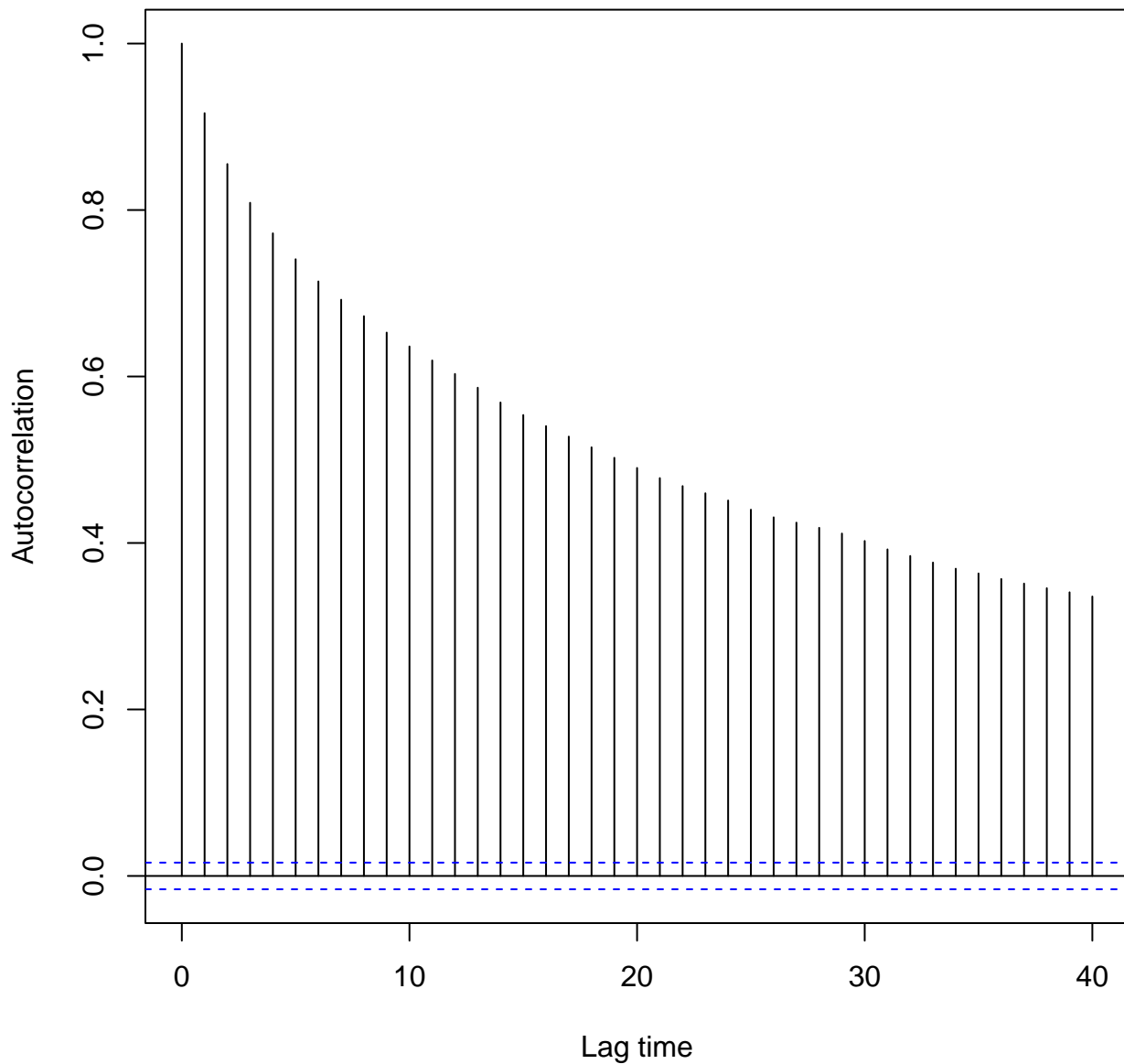




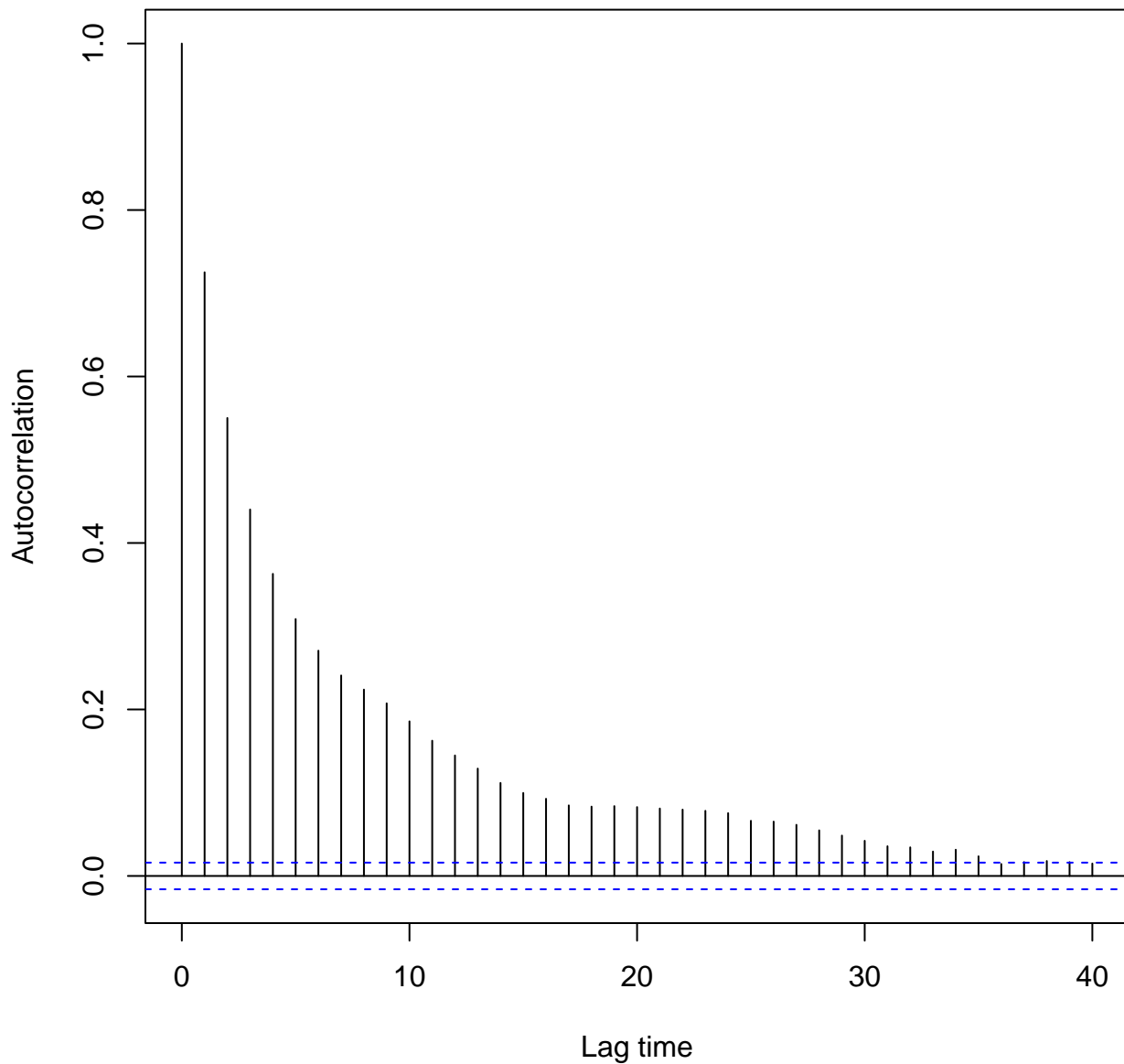
# Mutation T ACA Mixture: 1



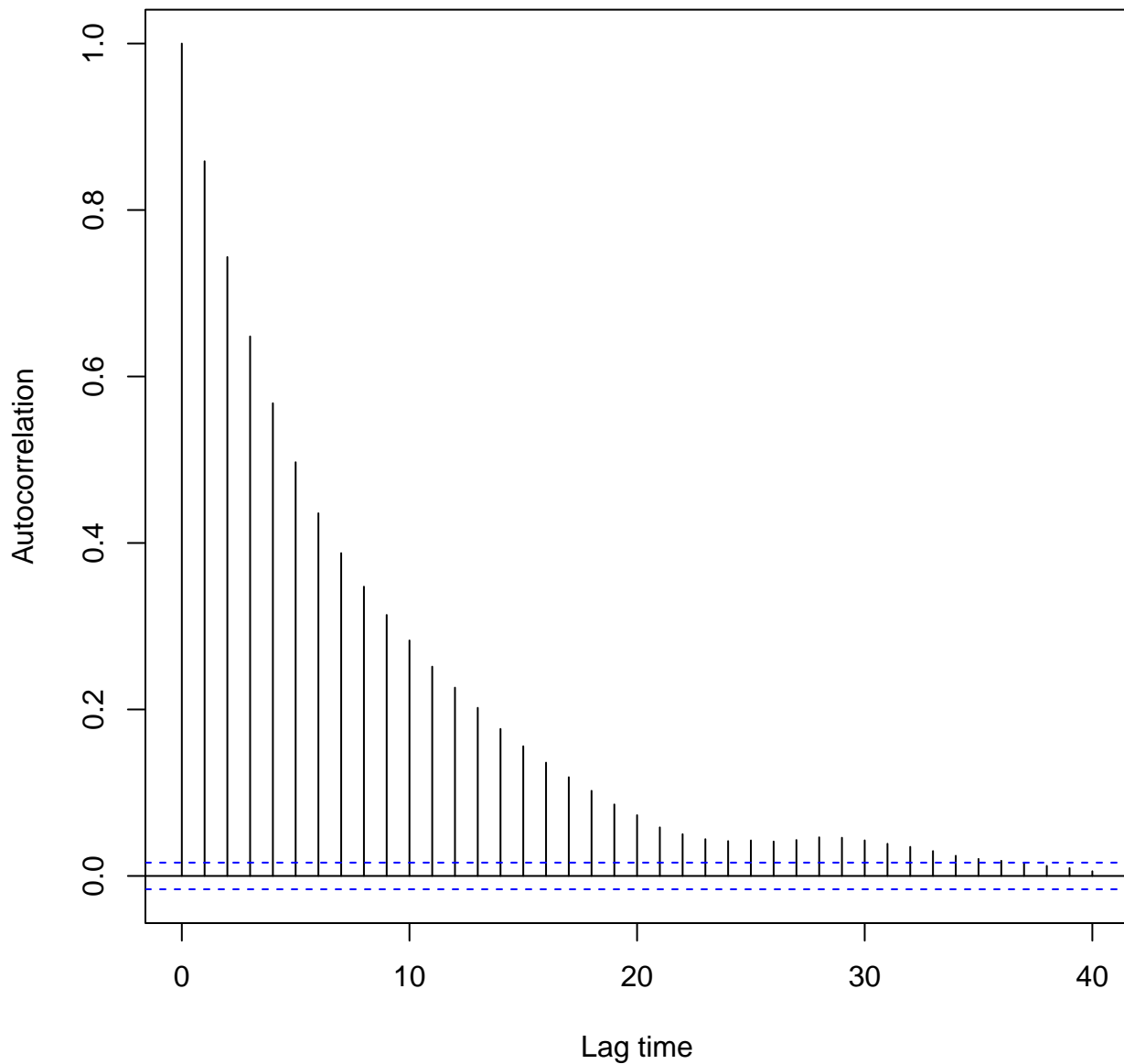
## Mutation T ACA Mixture: 2



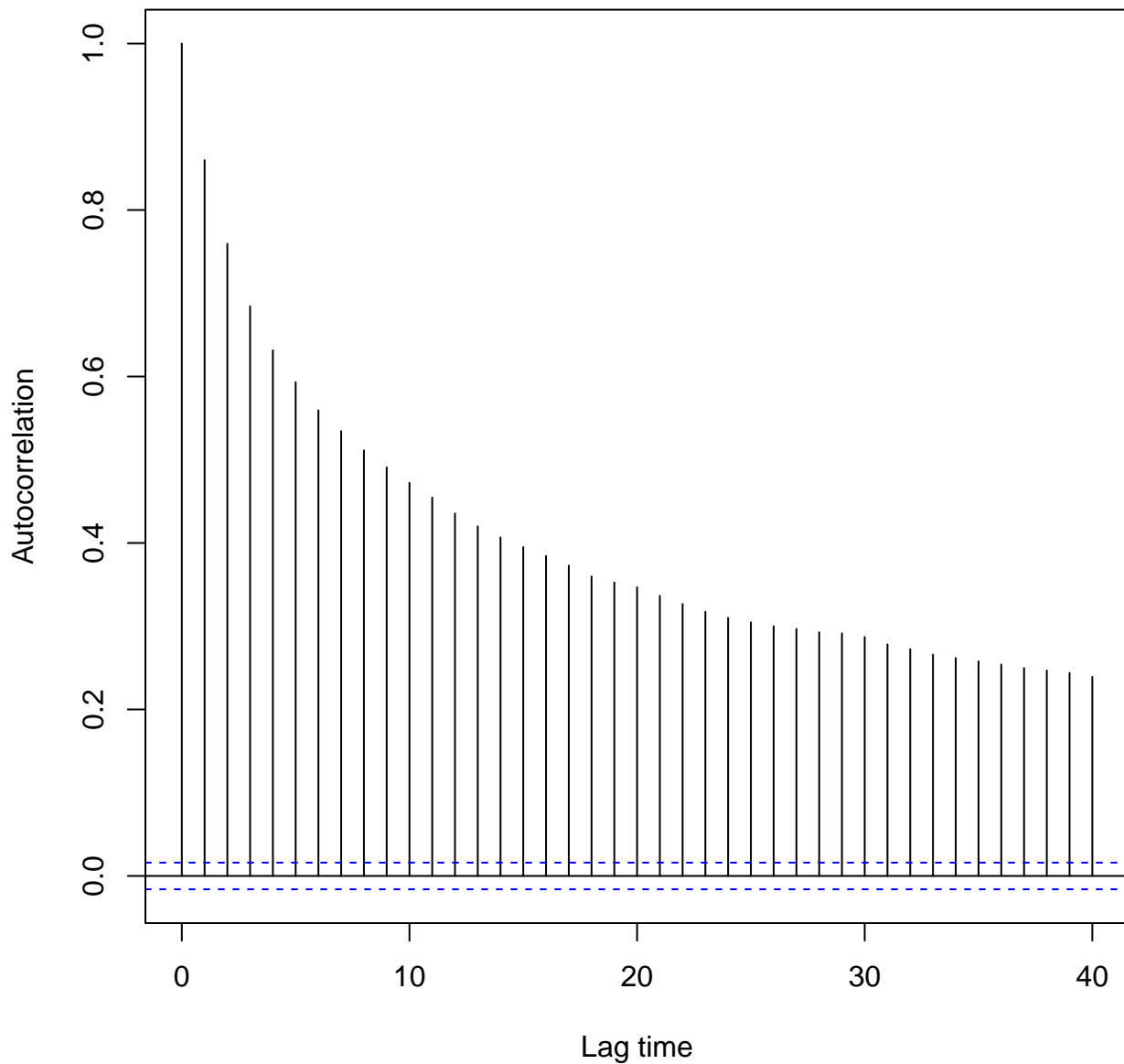
# Mutation T ACC Mixture: 1



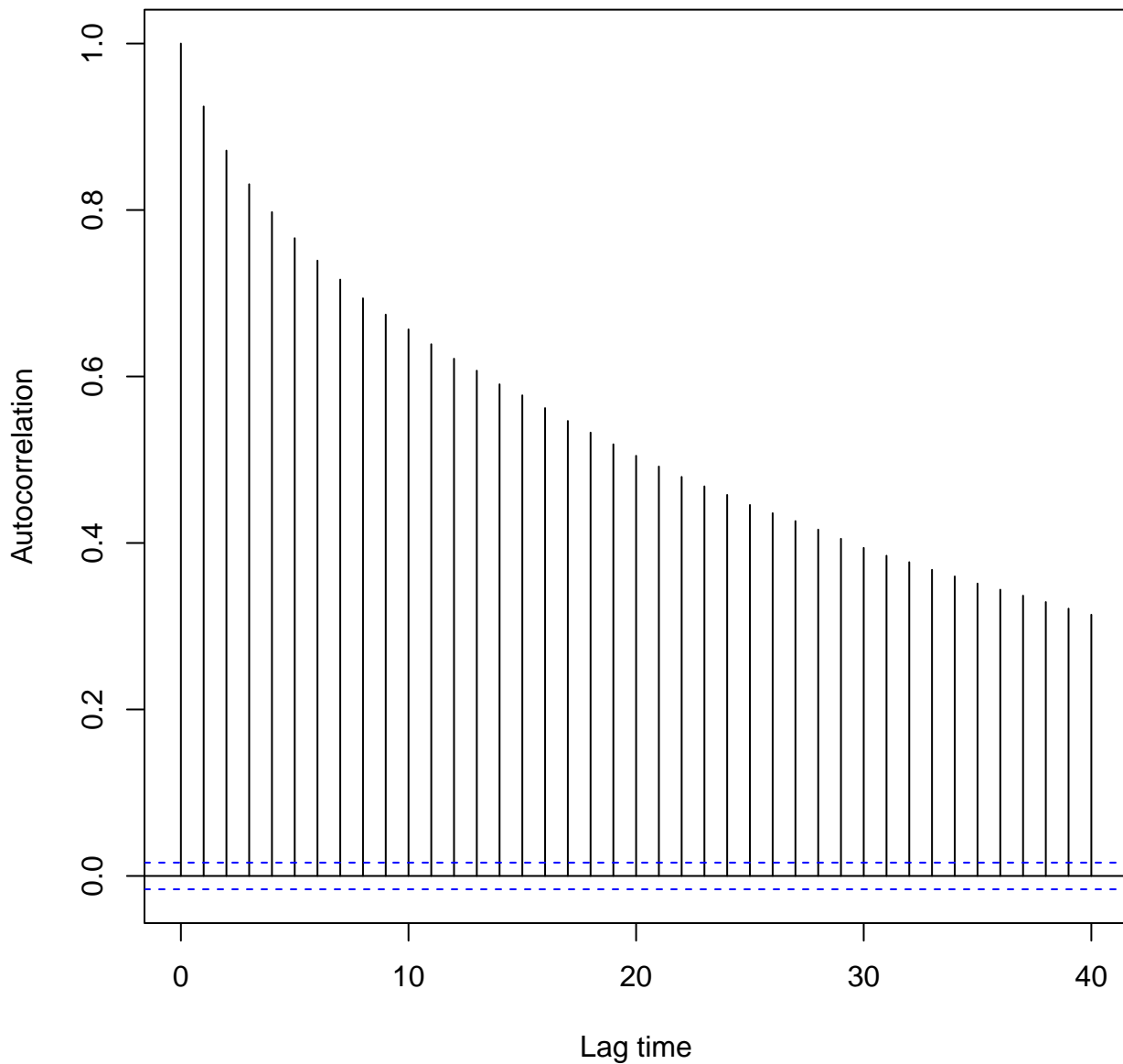
## Mutation T ACC Mixture: 2



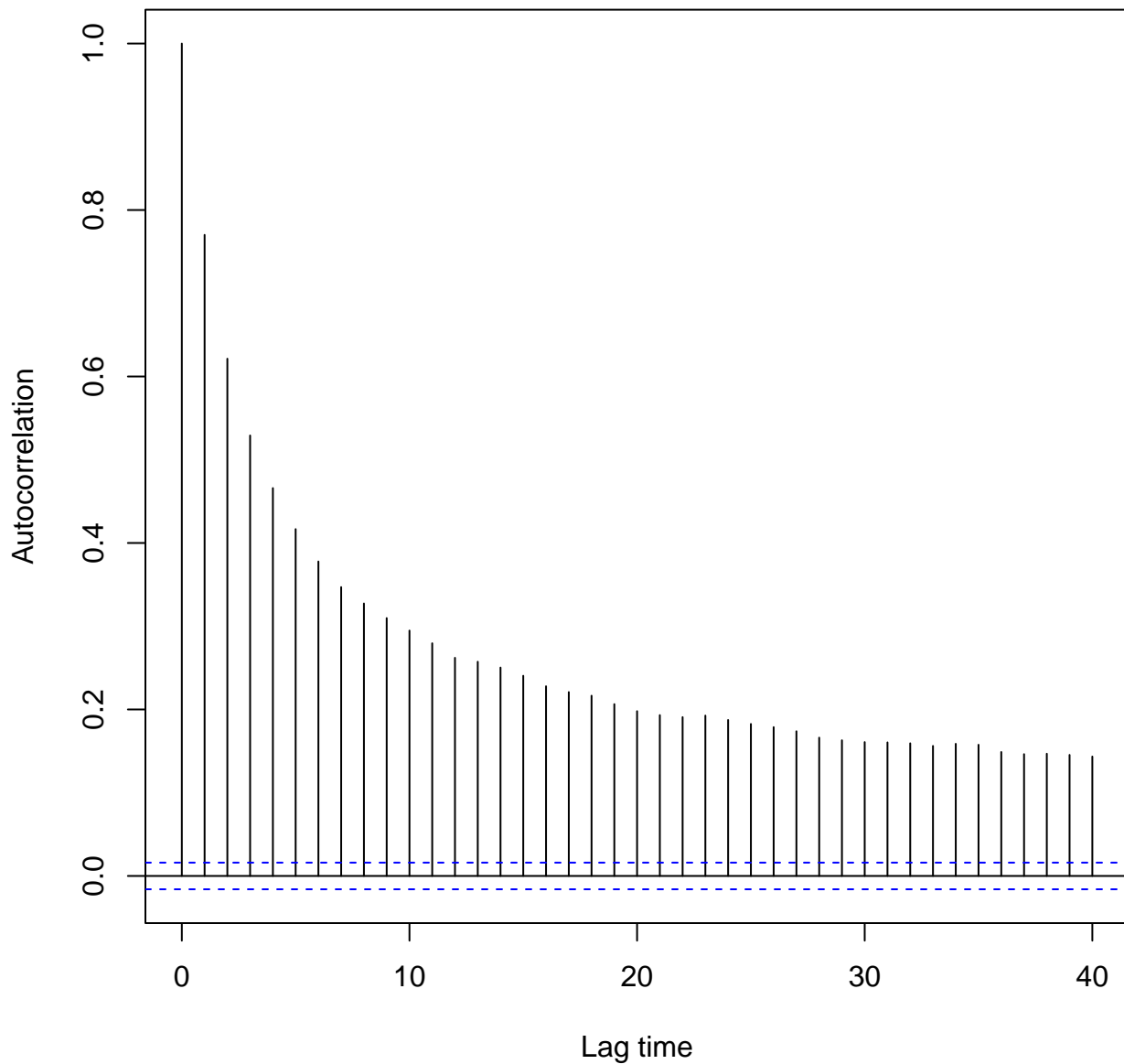
# Mutation T ACG Mixture: 1



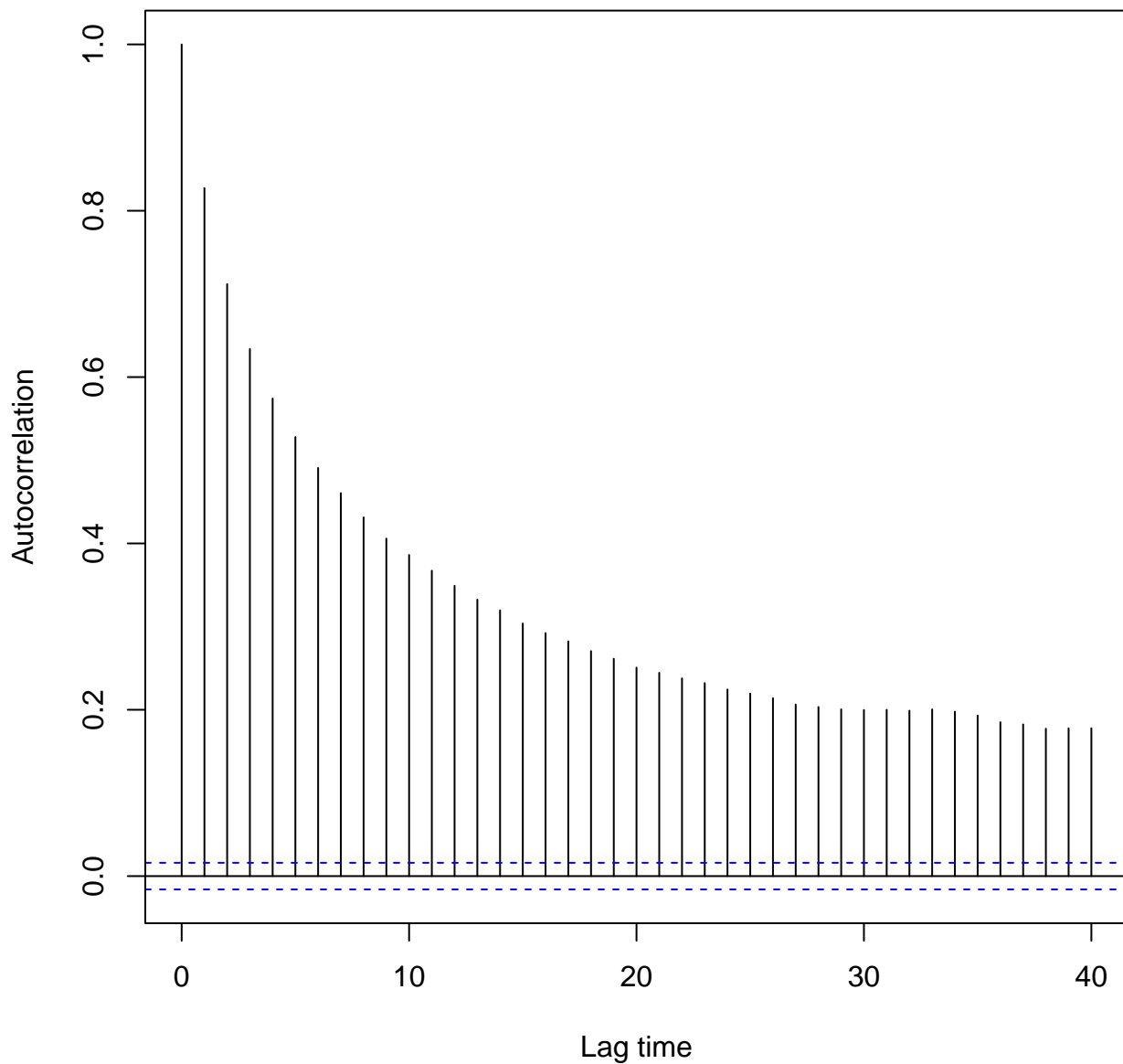
## Mutation T ACG Mixture: 2



# Mutation V GTA Mixture: 1

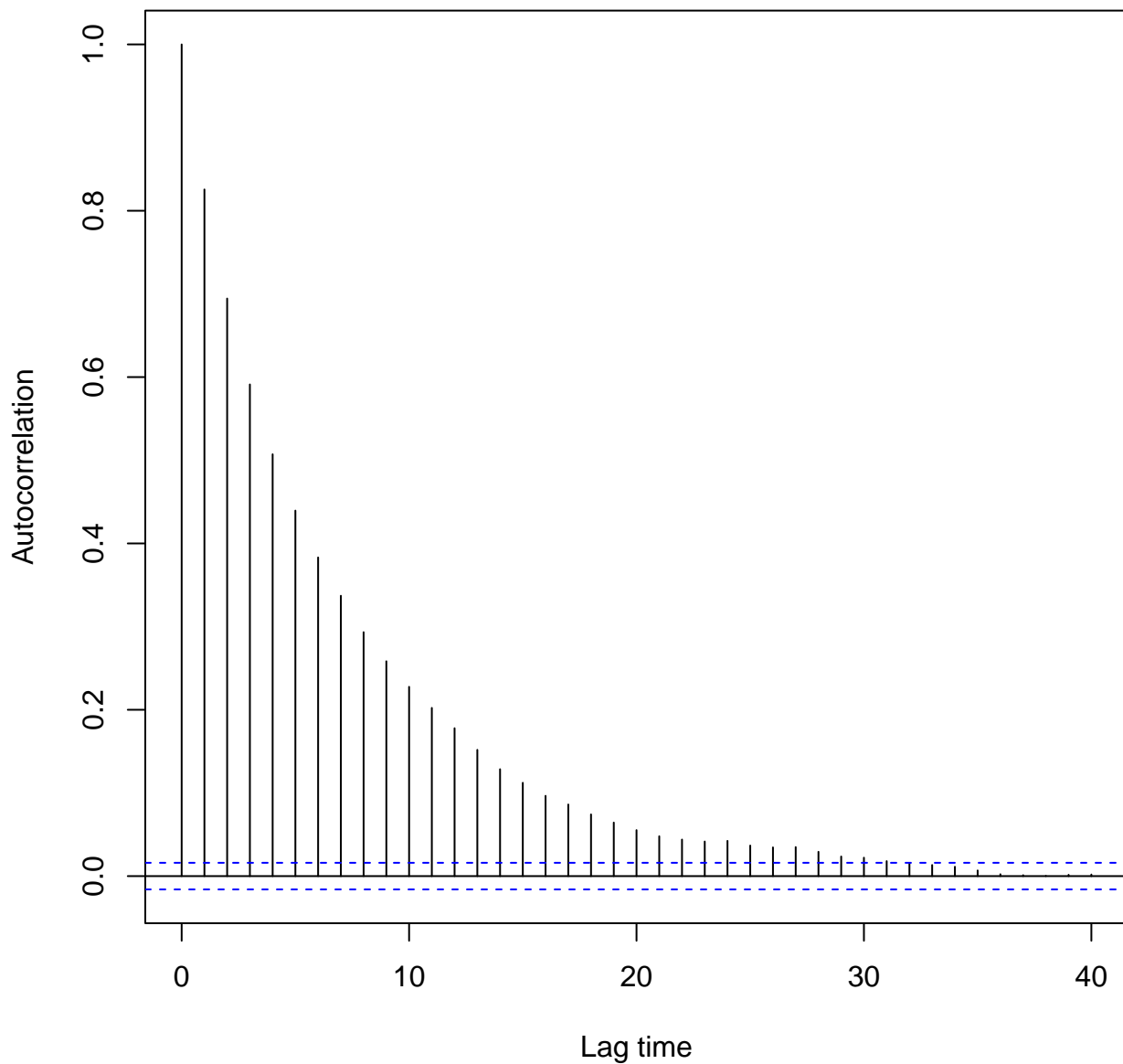


## Mutation V GTA Mixture: 2

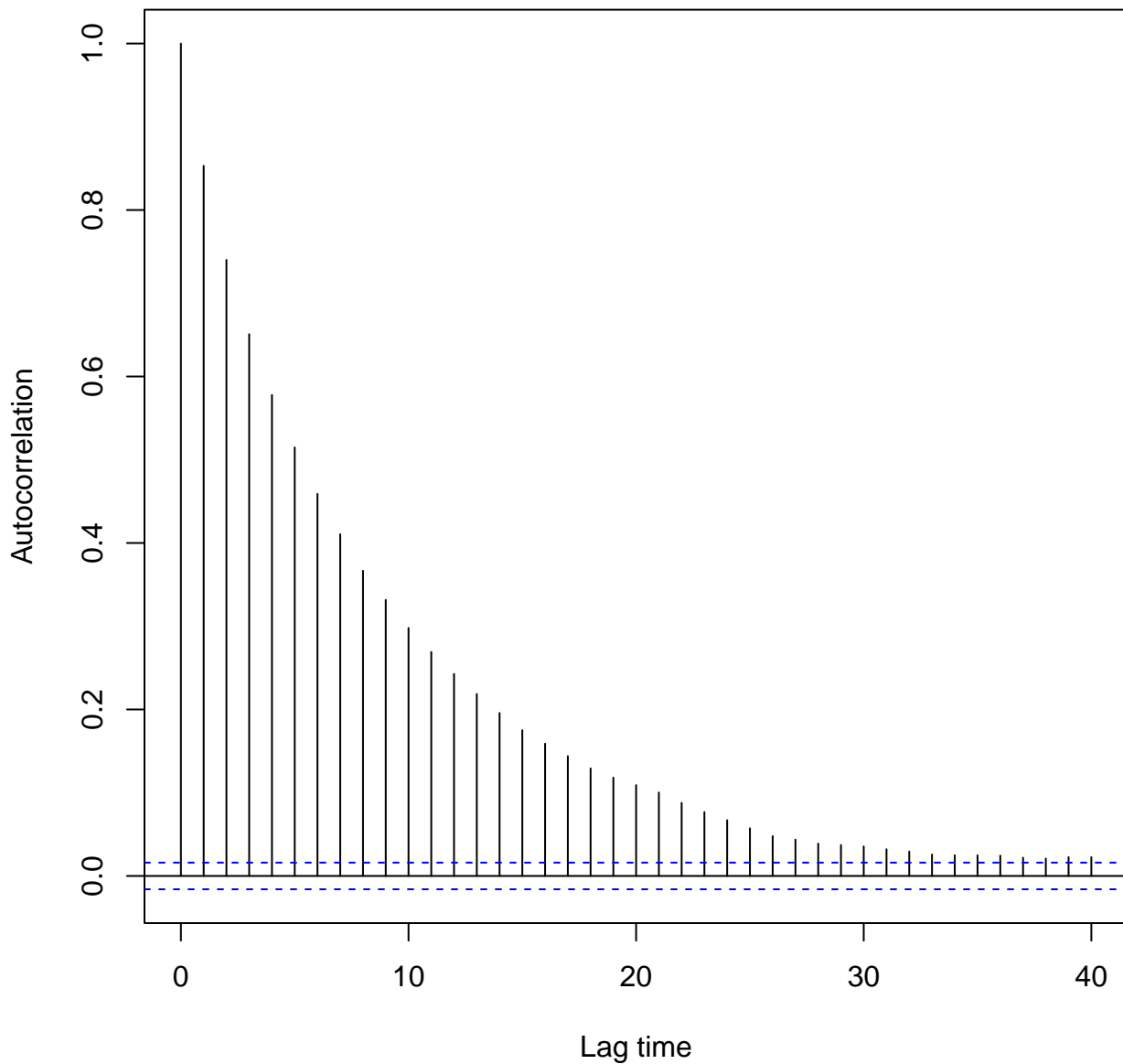




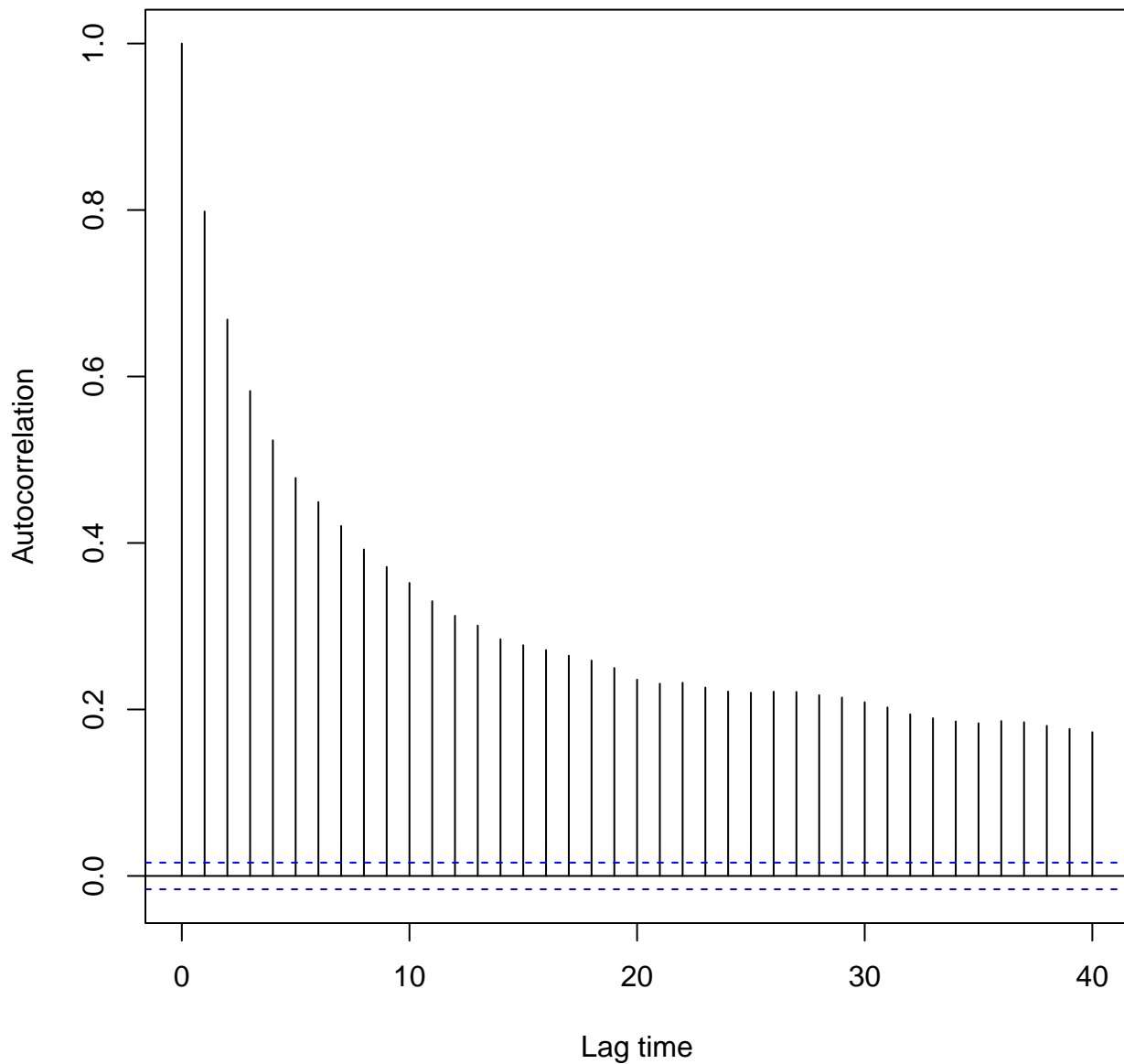
# Mutation V GTC Mixture: 1



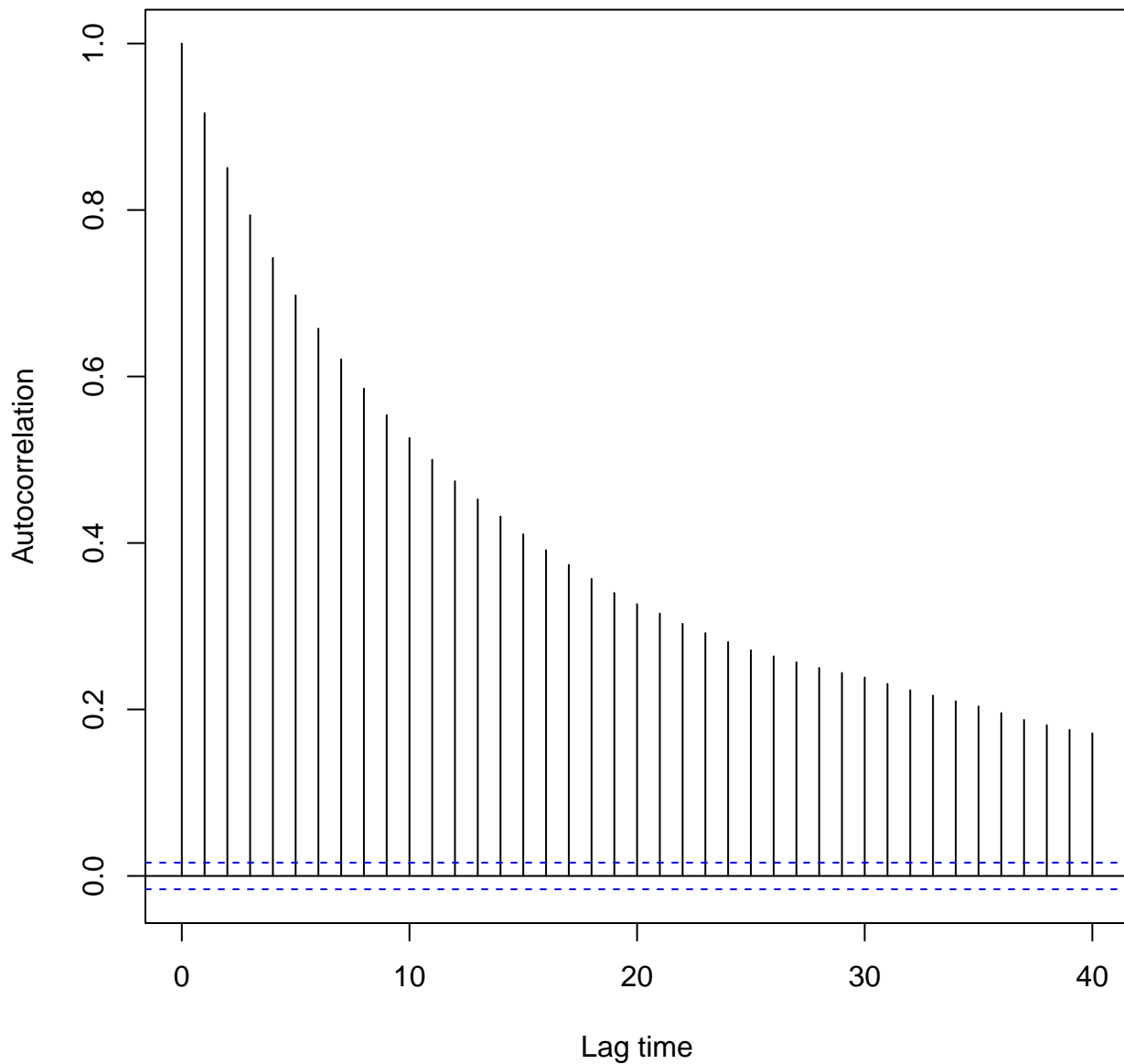
## Mutation V GTC Mixture: 2



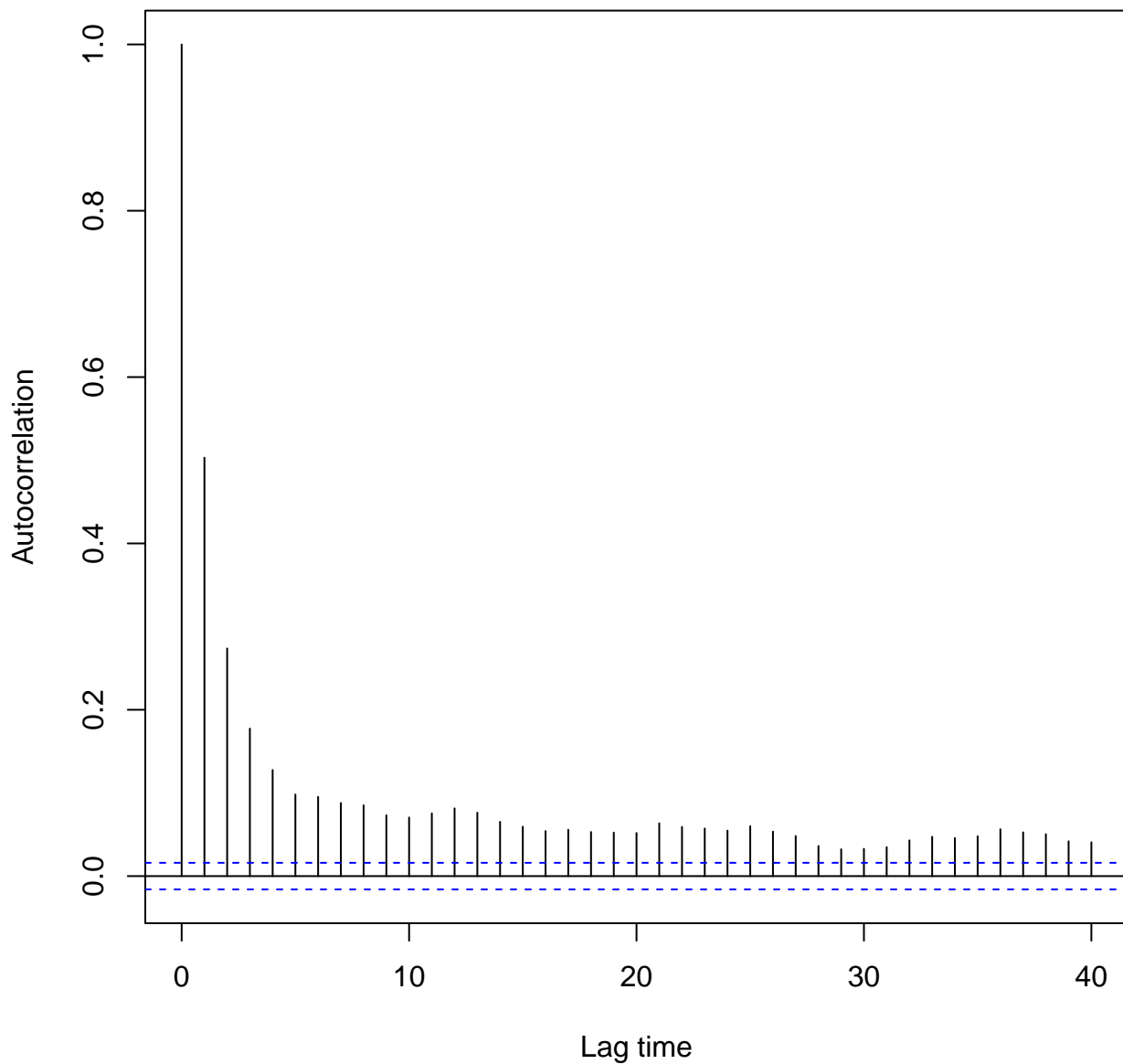
# Mutation V GTG Mixture: 1



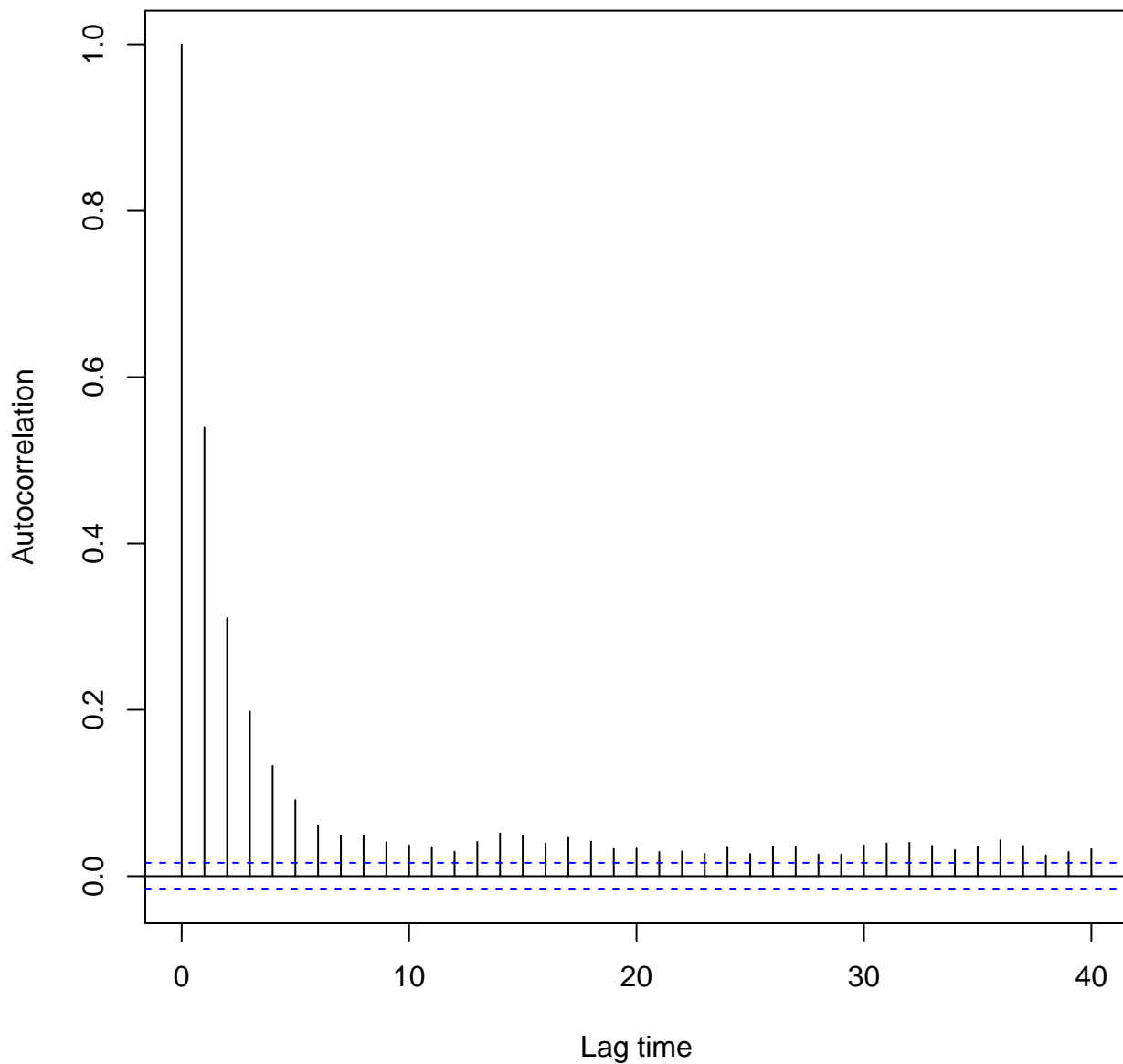
## Mutation V GTG Mixture: 2



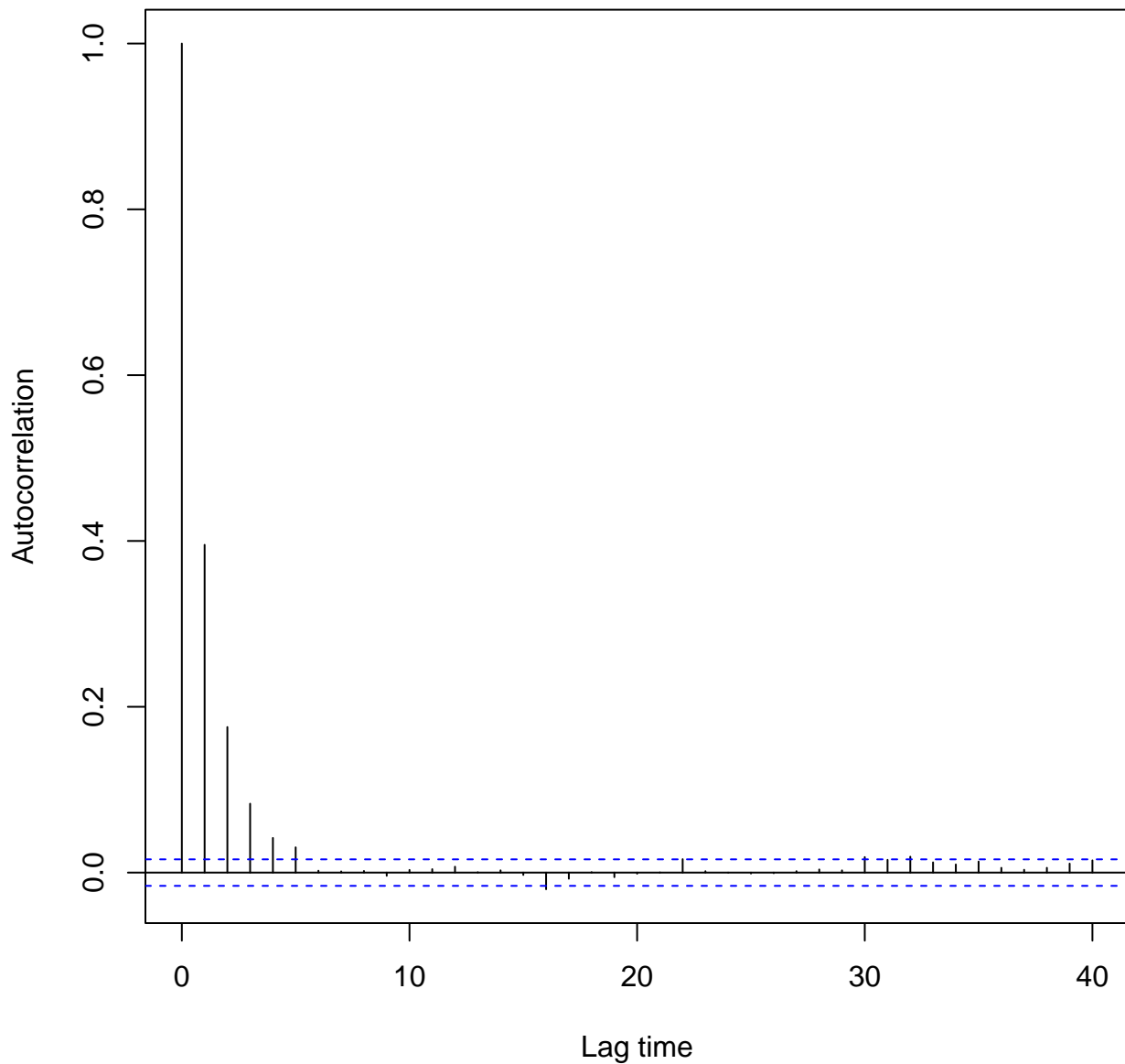
# Mutation Y TAC Mixture: 1



## Mutation Y TAC Mixture: 2



# Mutation Z AGC Mixture: 1



## Mutation Z AGC Mixture: 2

