We trained the model by counting. The model has 19 hidden states. 9 of the hidden states respond to 3 hidden states for the start-C codons, 3 hidden states for the stop-C codons and 3 hidden states for the rest of the C-codons. The R-codons are also divided in 3 hidden states representing the start-R codons, 3 hidden states for the stop-R codons and 3 hidden states representing the rest of the R codons. Lastly the model has 1 hidden state for the N bases.