



Figure S.4: Optimal ML tree for the rps4 dataset under the GTR+I+G model (-ln likelihood = 28427.90907; optimal parameters: A/C = 1.63485, A/G = 7.22664, A/T = 0.09404, C/G = 2.96553, C/T = 6.75490, G/T = 1(fixed); f(A) = 0.46702, f(C) = 0.07167, f(G) = 0.07637, f(T) = 0.38495; gamma shape = 0.960; proportion invariant = 0.170).