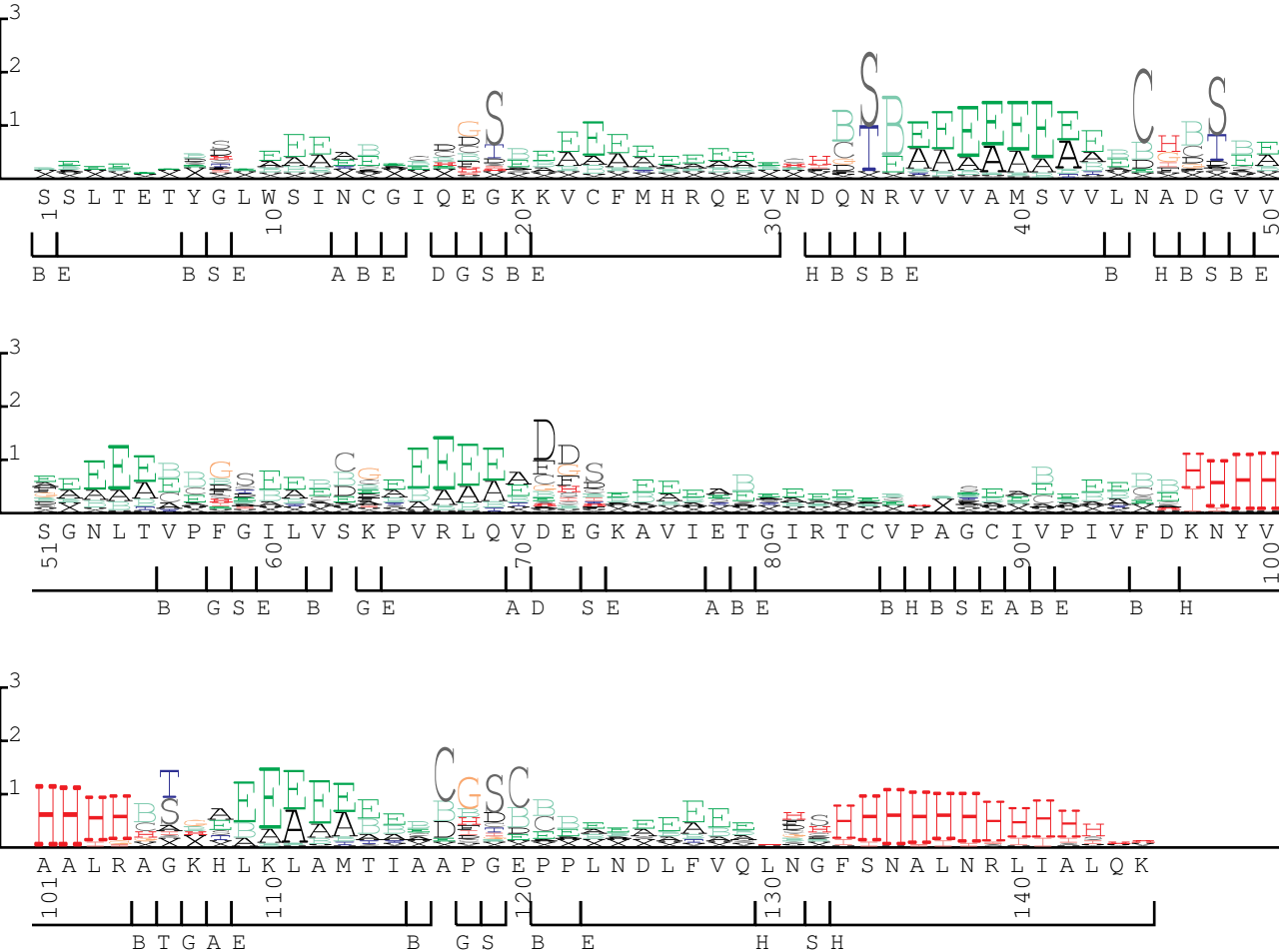T0514.t04 alpha