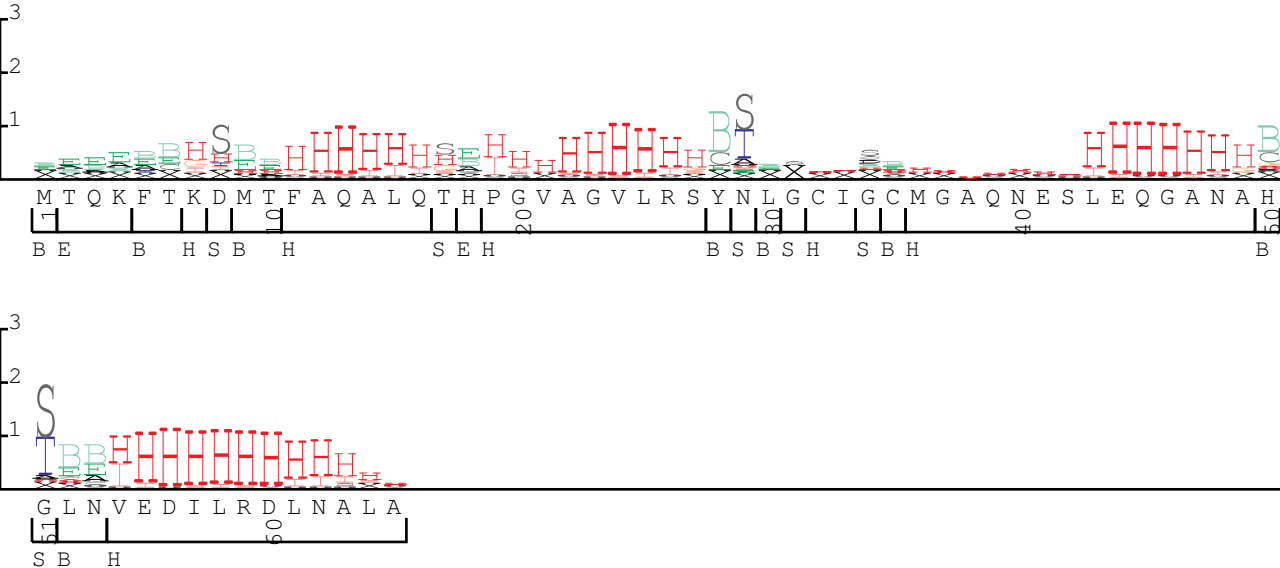T0469.t04 alpha