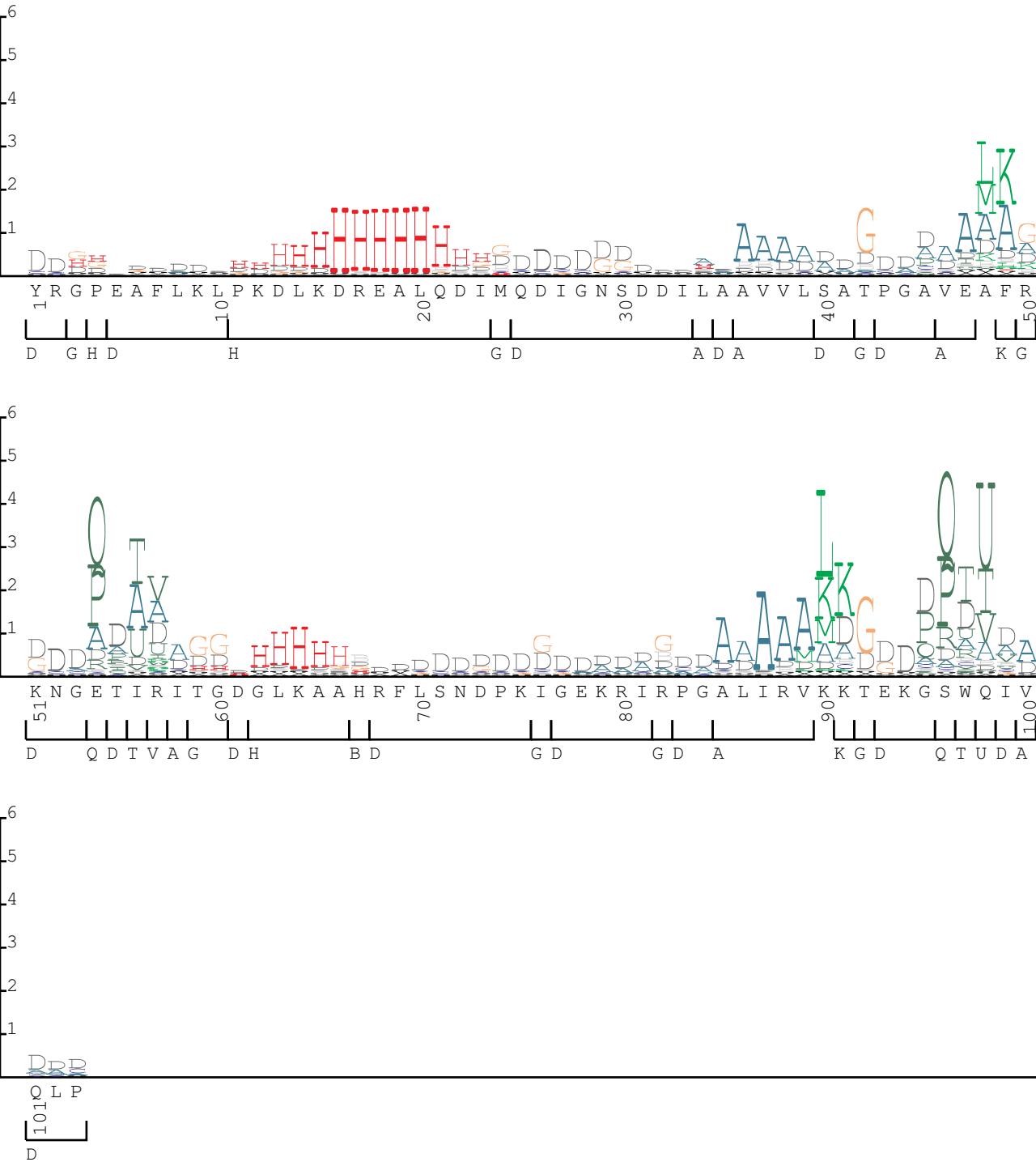T0409.t2k o_sep