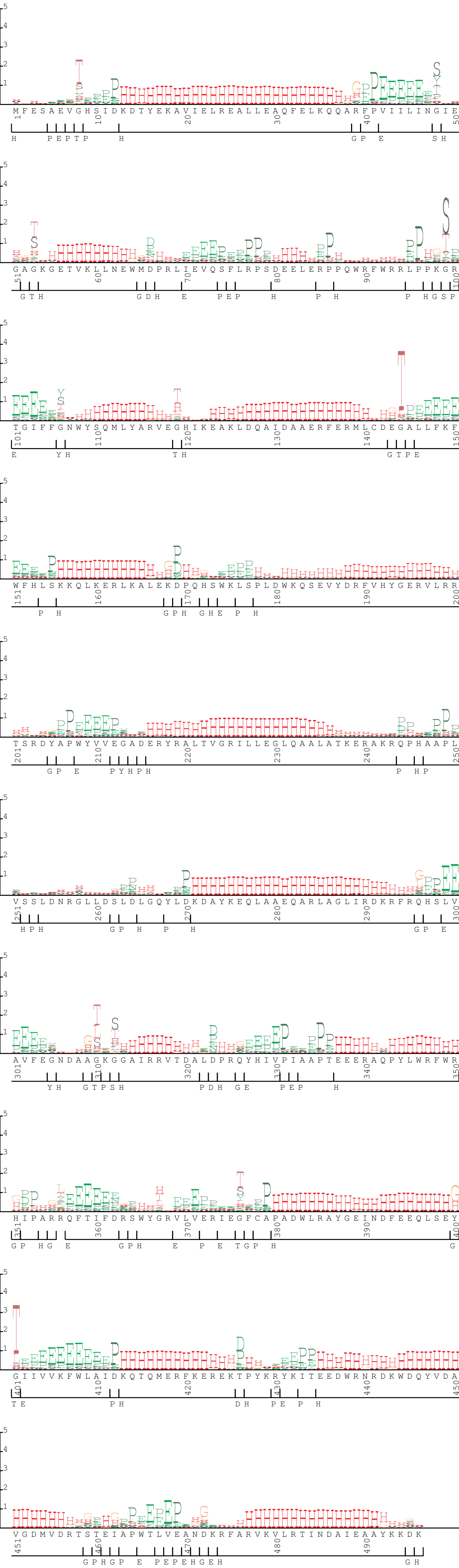T0419.t2k bys