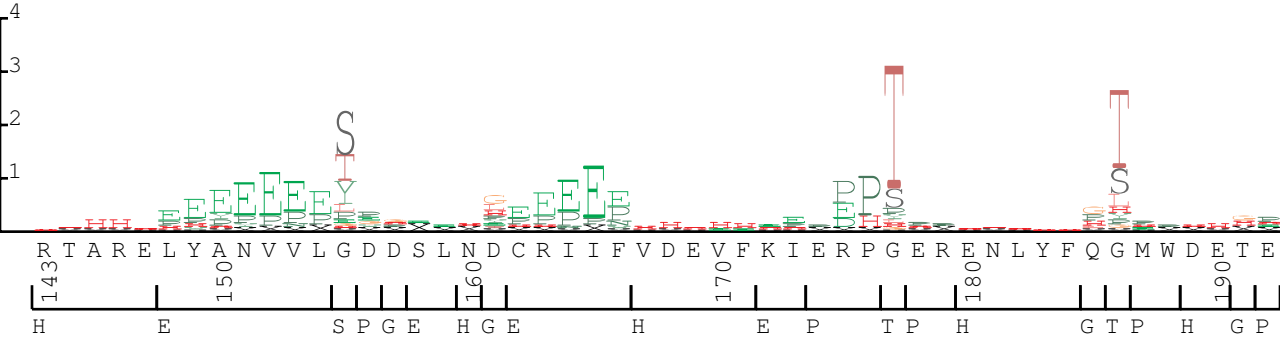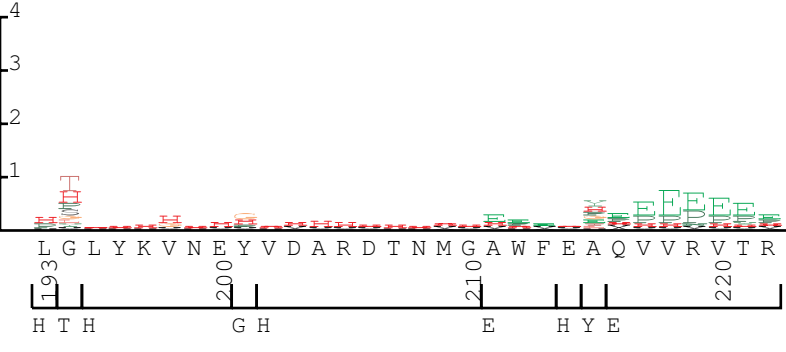T0429.t2k bys