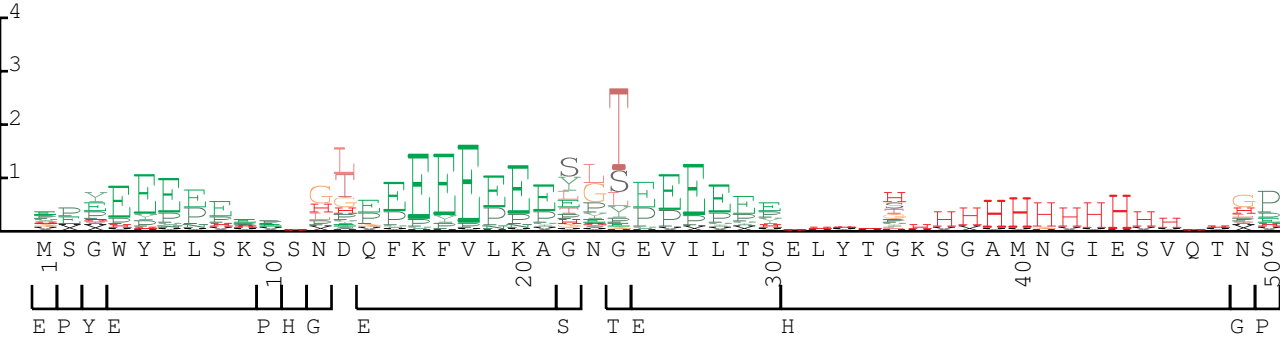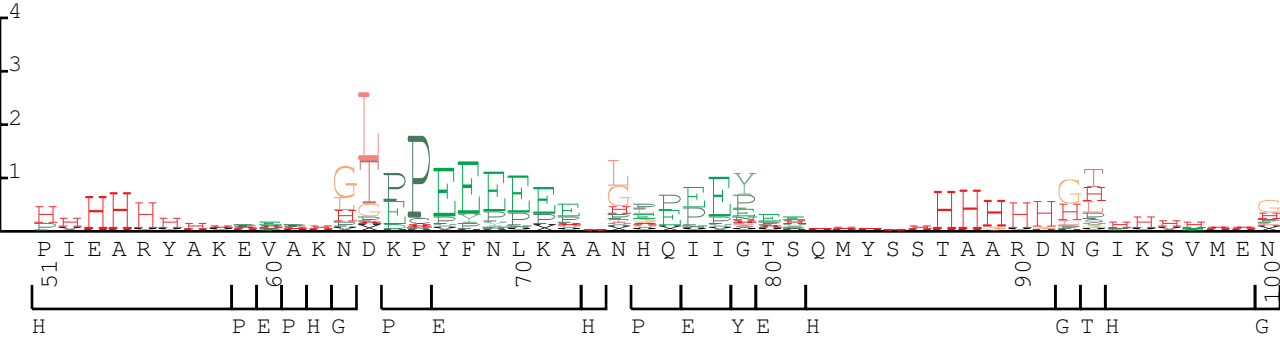T0472.t2k bys