



**Figure S1. Comparisons in changing patterns of viral genetic diversity across the four phases of HBV-infection between overlapping and nonoverlapping reading frames.** (A) The structure of the genes across a 2403-bp stretch in the sequence region. (B) Parameters of viral genetic diversity in different phases of HBV-infection. The polymerase region selected for analysis contains two nonoverlapping regions of the polymerase gene: nt2453-2847 and nt836-1373, and two overlapping open reading frames (ORFs): the largest overlapping ORF (1203-bp) of the HBV genome, which encodes polymerase and envelope, and a 250-bp overlapping ORF of polymerase and X.