**Supplemental file 4: The plot of *K* vs *ΔK*: determination of optimum number of clusters (K*opt*) in DENV-2 population. ‘**K’ represents thenumber of clusters. *‘ΔK’* is the rate of change of posterior probability of the data given *K*. The plot is derived to determine optimum number of clusters **(**Kopt) for DENV-2 population (comprising of 990 strains from all the six genotypes). The first major peak of ΔK is obtained at K=2 followed by a minor peak at K=15, which clearly indicates the existence of a total of 15 genetically distinct subpopulations within DENV-2 serotype.

