Supplementary Materials

Conserved structural motifs of two distant IAV subtypes in genomic segment 5 RNA

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**Figure S1.** The secondary structure of vRNA5 A/California/04/2009 predicted in RNAStructure 5.8.1 program by introducing experimental data from SHAPE, DMS chemical mapping, and panhandle conserved base-pairs.



**Figure S2.** The secondary structure of vRNA5 A/California/04/2009 predicted by Dynalign algorithm in RNAStructure 5.8.1 program.



**Figure S3.** Mirror structures present in segment 5 A/California/04/2009 (H1N1) RNA (-) and (+) strand, respectively.