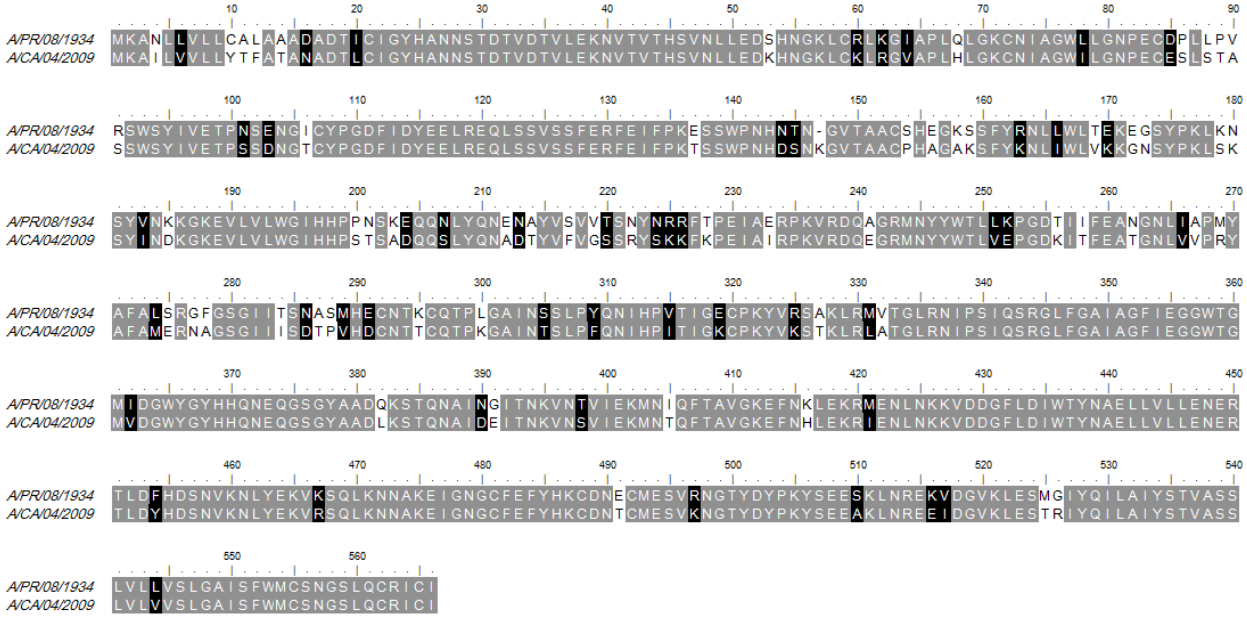
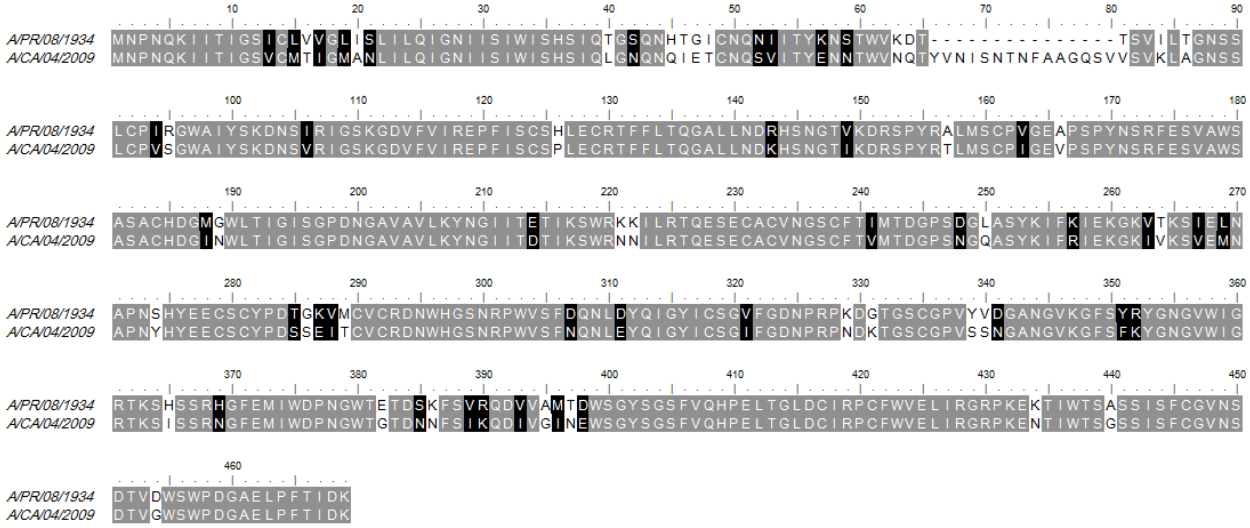
Hemagglutinin

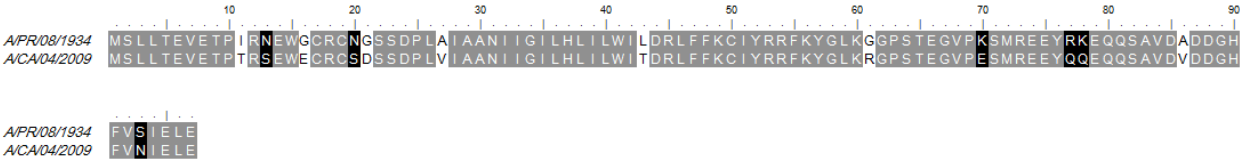


Neuraminidase

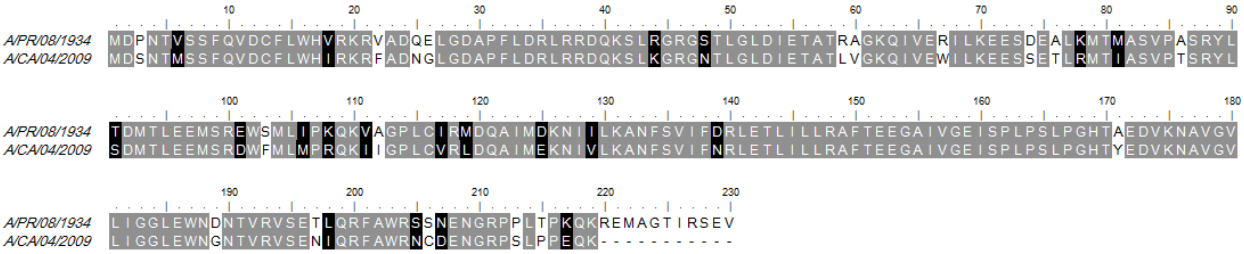


Matrix Protein 1

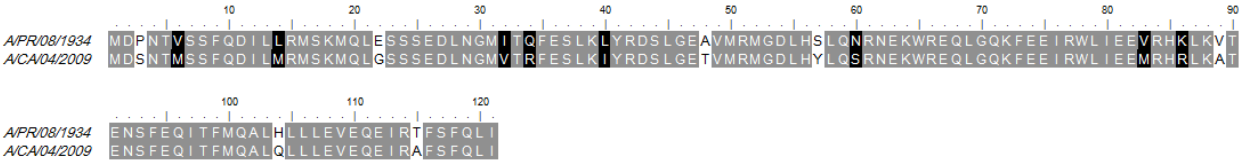
Matrix Protein 2



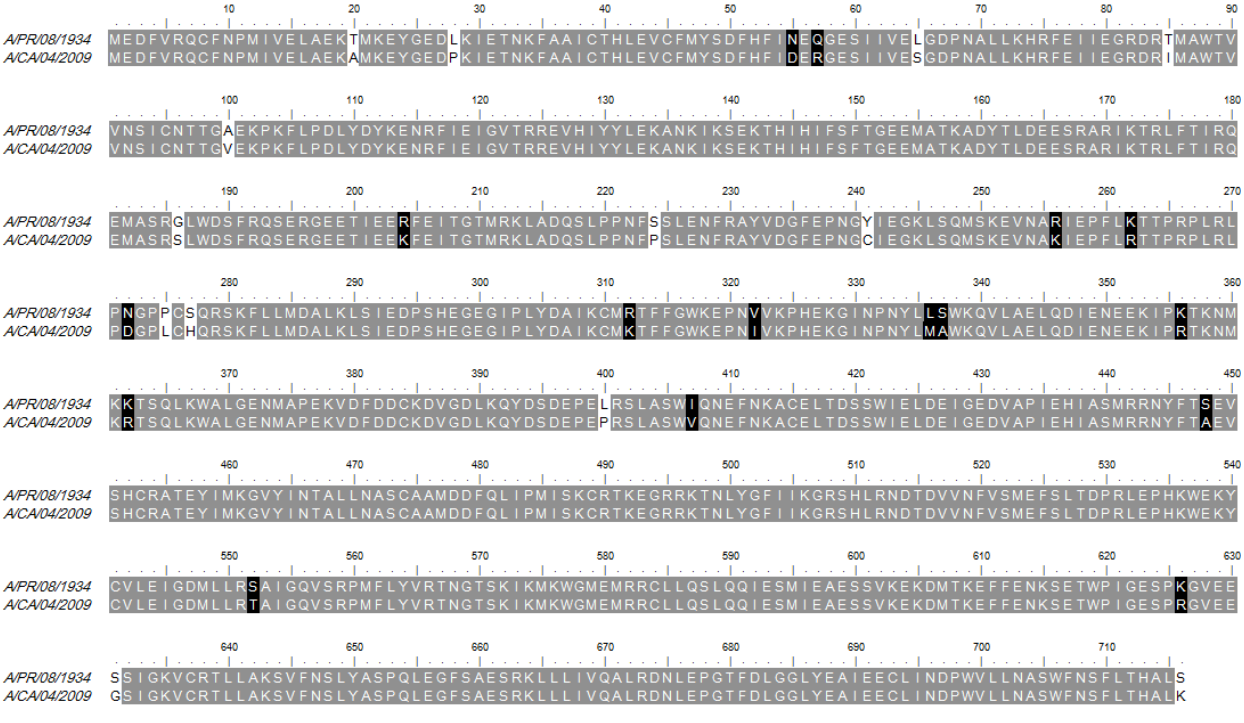
Non-Structural Protein 1



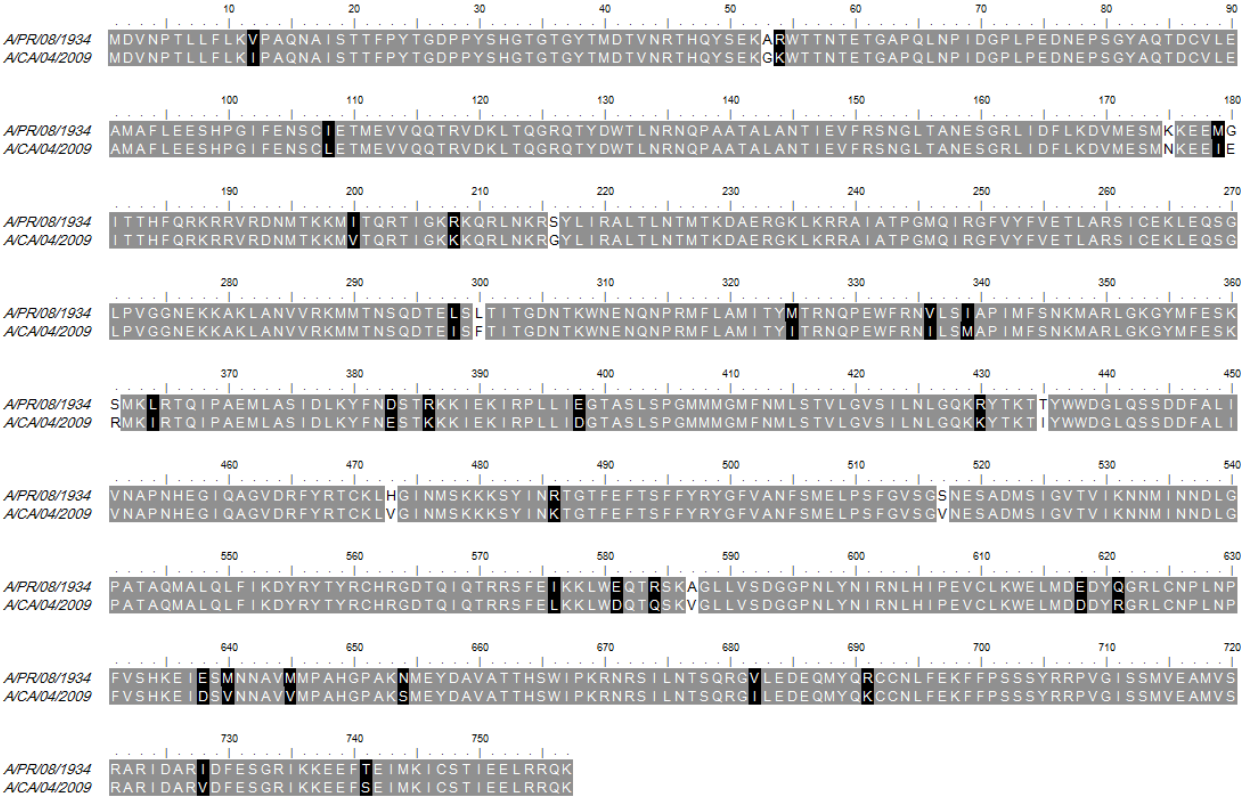
Non-Structural Protein 2



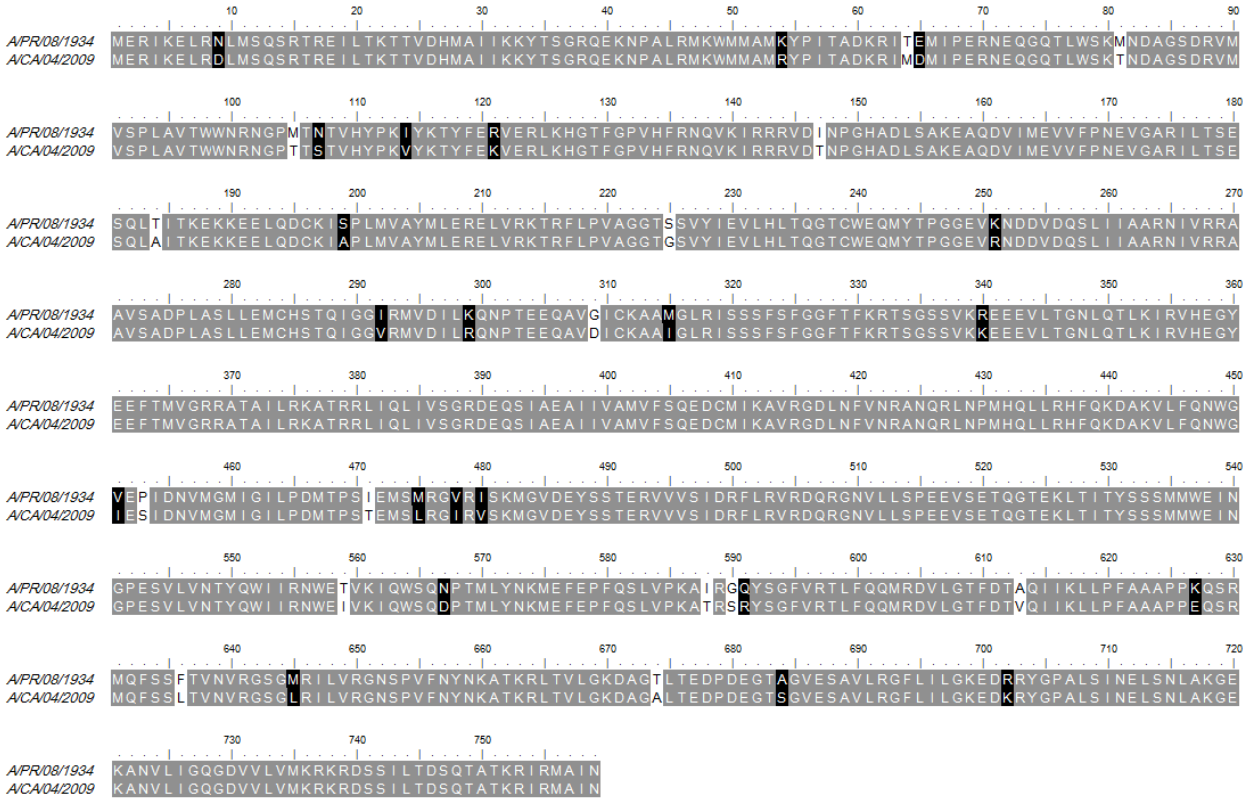
Polymerase Protein PA



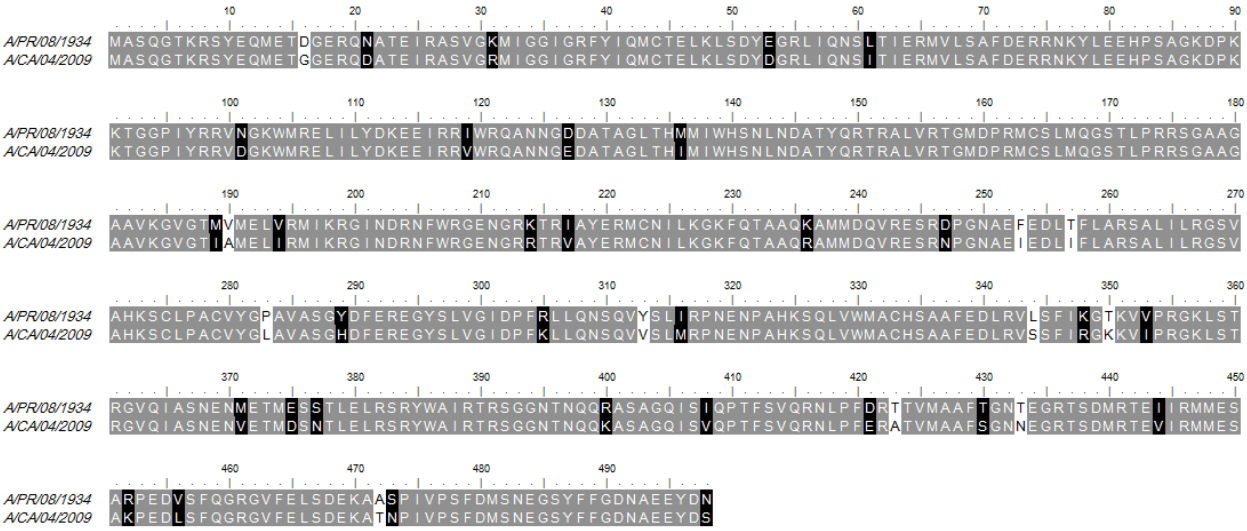
Polymerase Protein PB1



Polymerase Protein PB2



Nucleoprotein



Viral Proteins	Percent Homology
Hemagglutinin	81.42
Neuraminidase	83.48
Matrix protein 1	94.84
Matrix protein 2	86.6
Non-structural protein 1	82.65
Non-structural protein 2	87.6
Polymerase protein PA	95.95
Polymerase protein PB1	94.85
Polymerase protein PB2	95.13
Nucleoprotein	91.57

Supplemental Figure 1. Protein sequences for different viral proteins were retrieved from NCBI for A/California/04/2009 and A/Puerto Rico/8/1934 H1N1 virus isolates. The sequence alignment was performed by ClustalW using default parameters and edited using BioEdit. Identical and similar amino acid residues are represented in gray and black background respectively. The percent identity was calculated using Clustal Omega. Matrix used for alignment by ClustalW: BLOSUM62