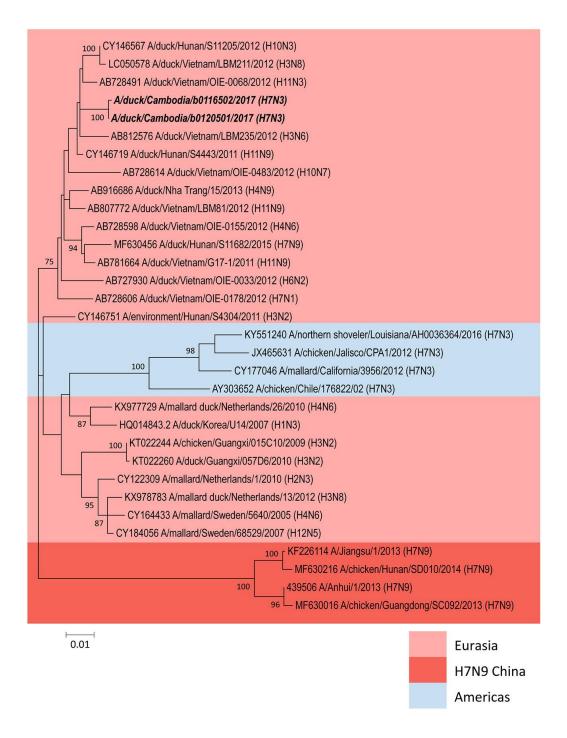
Detection of Low Pathogenicity Influenza Virus A(H7N3) during Duck Mortality Event, Cambodia, 2017

Technical Appendix

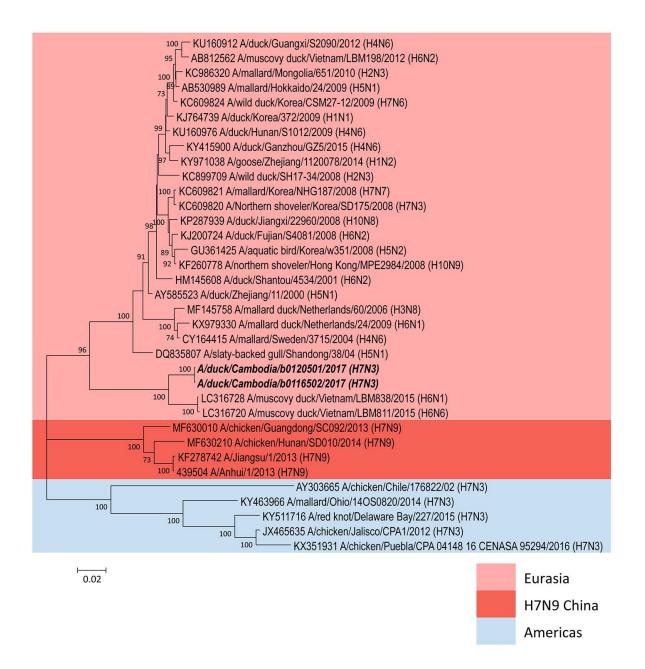
| Gene Segment and Primer ID | Sequence of Primer Pairs 5' to 3' | | |
|----------------------------|---|--|--|
| PB2 | | | |
| Pb2f5nc | GCA GGT CAA ATA TAT TCA ATA TGG AGA G | | |
| Pb2r960 | GCA TAT ATC CAC AGC TTG TTC | | |
| Pb2f770 | CAG AGT YTG ATC ATH GCT GC | | |
| Pb2a1621 | TCC CAC ATC ATT GAK GAT GA | | |
| PB2F1143 | GAT TCA RTT GAT AGT AAG TGG AA | | |
| PB2R2341 | ATA TGG TCT CGT ATT AGT AGA AAC AAG GTC GTT T | | |
| PB1 | | | |
| Szpb1+ | AGC AAA AGC AGG CAA ACC AT | | |
| Pb1r1324 | TCC GTC CCA CCA ATA TGT GG | | |
| Pb1f1230 | ACT GAG TCC TGG CAT GAT GAT GGG | | |
| Pb1/-/5 | TTC ACT ATT TTT GCC GTC TGA GTT CTT C | | |
| Pb1f913 | TGA CTA ACT CAC CAA GAT ACT G | | |
| Pb1r1654 | CTG TTG CTG GTC CAA GGT C | | |
| PA | | | |
| PAUF | AGC AAA AGC AGG TAC TGA T | | |
| PA-1168 | CTA ACA TCT TTG CAG TCC TC | | |
| PAF587 | TGG GAT TCC TTT CGT CAA TC | | |
| PA1498R | TNG TYC TRC AYT TGC TTA TCA T | | |
| PAF1151 | CTC GGT GAG AAC ATG GCA C | | |
| PAR2234 | TGG ACA GTA TGG ATA GCA A | | |
| NS | | | |
| NSF1 | TAT TCG TCT CAG GGA GCA AAA GCA GGG TG | | |
| NS890R | ATA TCG TCT CGT ATT AGT AGA AAC AAG GGT GTT TT | | |
| NP | | | |
| NPF859 | AGT GGA TAT GAC TTT GAG AGA GAA | | |
| NPR1565 | ATA TCG TCT CGT ATT AGT AGA AAC AAG GGT ATT TTT | | |

Technical Appendix Table 2. GenBank accession numbers of Cambodian H7N3 isolates

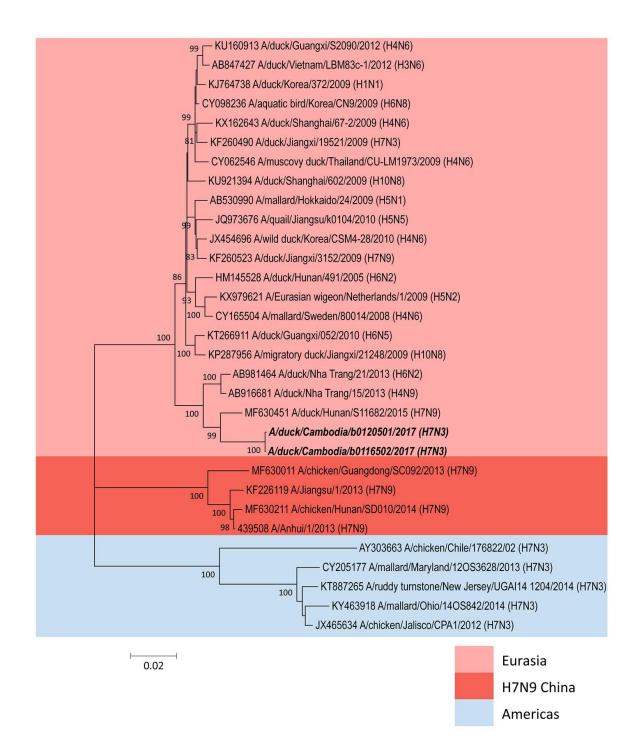
| Virus | Segment Number | Gene Segment | Accession Number |
|-------------------------------|----------------|--------------|------------------|
| A/duck/Cambodia/b0120501/2017 | 1 | PB2 | MG591696 |
| | 2 | PB1 | MG591695 |
| | 3 | PA | MG591693 |
| | 4 | HA | MG591683 |
| | 5 | NP | MG591689 |
| | 6 | NA | MG591687 |
| | 7 | Μ | MG591685 |
| | 8 | NS | MG591691 |
| A/duck/Cambodia/b0116502/2017 | 1 | PB2 | MG591697 |
| | 2 | PB1 | MG591694 |
| | 3 | PA | MG591692 |
| | 4 | HA | MG591682 |
| | 5 | NP | MG591688 |
| | 6 | NA | MG591686 |
| | 7 | Μ | MG591684 |
| | 8 | NS | MG591690 |



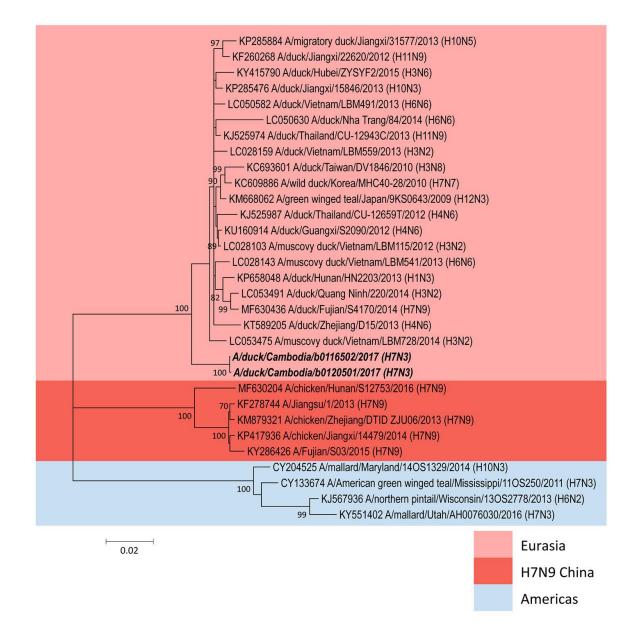
Technical Appendix Figure 1. Phylogenetic analysis (982 nt) of the matrix (MP) gene of viruses isolated from ducks in Kampong Thom province, Cambodia. Trees were generated using the Maximum Likelihood method based on the General Time Reversible model. Scale bars indicate substitutions per site. Bootstrap values (n = 500) >70 are indicated. Cambodian isolates indicated in bold italic. North and South American strains, blue; Eurasian strains, light pink; H7N9 strains from China, red.



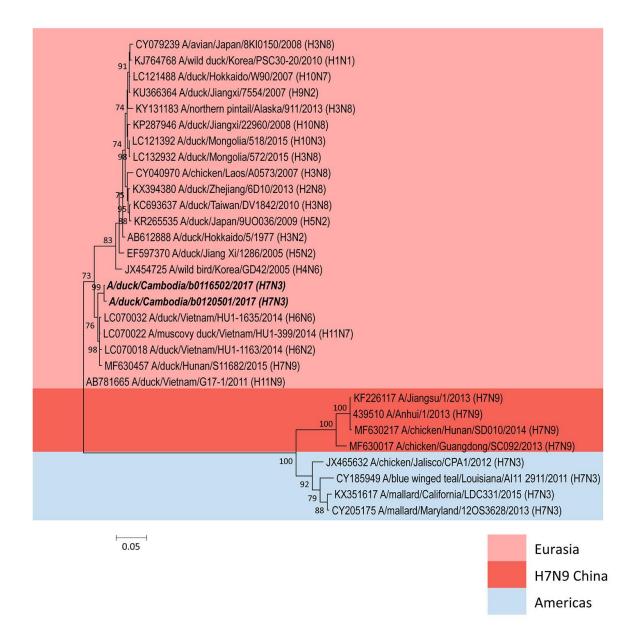
Technical Appendix Figure 2. Phylogenetic analysis (2,280 nt) of the polymerase basic protein 2 (PB2) gene of viruses isolated from ducks in Kampong Thom province, Cambodia. Trees were generated using the Maximum Likelihood method based on the General Time Reversible model. Scale bars indicate substitutions per site. Bootstrap values (n = 500) >70 are indicated. Cambodian isolates indicated in bold italic. North and South American strains, blue; Eurasian strains, light pink; H7N9 strains from China, red.



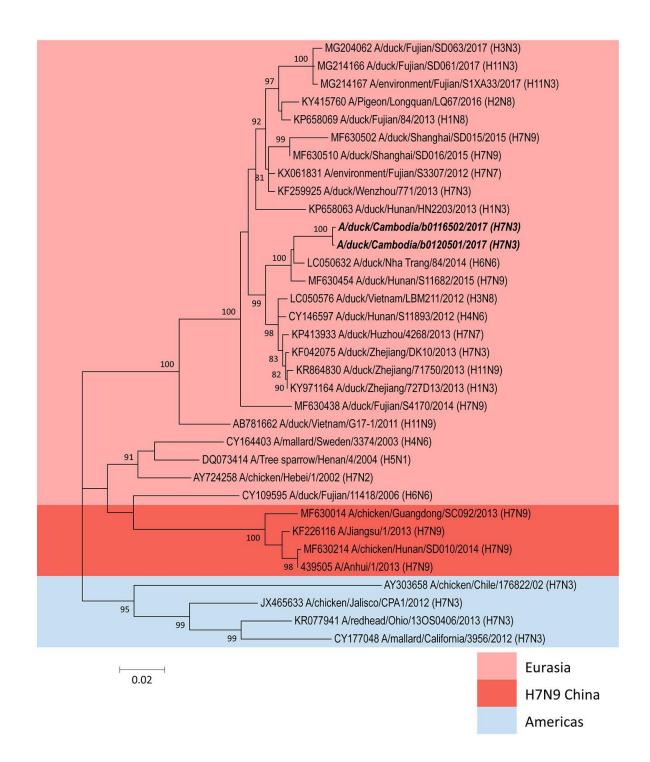
Technical Appendix Figure 3. Phylogenetic analysis (2,274 nt) of the polymerase basic protein 1 (PB1) gene of viruses isolated from ducks in Kampong Thom province, Cambodia. Trees were generated using the Maximum Likelihood method based on the General Time Reversible model. Scale bars indicate substitutions per site. Bootstrap values (n = 500) >70 are indicated. Cambodian isolates indicated in bold italic. North and South American strains, blue; Eurasian strains, light pink; H7N9 strains from China, red.



Technical Appendix Figure 4. Phylogenetic analysis (2,151 nt) of the polymerase (PA) gene of viruses isolated from ducks in Kampong Thom province, Cambodia. Trees were generated using the Maximum Likelihood method based on the General Time Reversible model. Scale bars indicate substitutions per site. Bootstrap values (n = 500) >70 are indicated. Cambodian isolates indicated in bold italic. North and South American strains, blue; Eurasian strains, light pink; H7N9 strains from China, red.



Technical Appendix Figure 5. Phylogenetic analysis (838 nt) of the nonstructural (NS) gene of viruses isolated from ducks in Kampong Thom province, Cambodia. Trees were generated using the Maximum Likelihood method based on the General Time Reversible model. Scale bars indicate substitutions per site. Bootstrap values (n = 500) >70 are indicated. Cambodian isolates indicated in bold italic. North and South American strains, blue; Eurasian strains, light pink; H7N9 strains from China, red.



Technical Appendix Figure 6. Phylogenetic analysis (1,497 nt) of the nucleoprotein (NP) gene of viruses isolated from ducks in Kampong Thom province, Cambodia. Trees were generated using the Maximum Likelihood method based on the General Time Reversible model. Scale bars indicate substitutions per site. Bootstrap values (n = 500) >70 are indicated. Cambodian isolates indicated in bold italic. North and South American strains, blue; Eurasian strains, light pink; H7N9 strains from China, red.