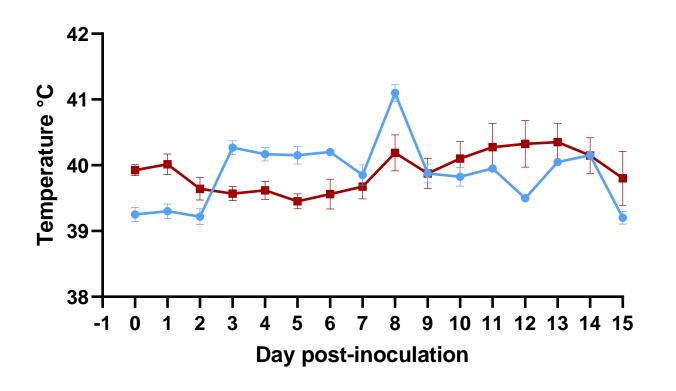


Fig. S1 Phylogenetic analysis based on the complete genome sequences of PHEV strain 67N (PHEV/67N/US/2020) assembled in this study (blue triangle), and the 13 aditional complete sequences from different PHEV isolates available in GenBank. The phylogenetic tree was constructed by the neighbor-joining (NJ) method. Significant bootstrap values are indicated as a percentage for 1000 replicates.



- Negative control group
- PHEV inoculated group

PHEVER'N US 2020 MRI983 15 PHEV CN 2014 KY98496 PHEV CN 2006 GODI 1855 PHEV BEL 2015 KY41910 PHEV US 2015 21615 PHEV-97N US 2020
M709315 PHEV CN 2014
KY99-8-65 PHEV CN 2009
0.0011855 PHEV-9EL 2015
KY491010 PHEV-US 2015
KY491010 PHEV-US 2015
KY491010 PHEV-US 2015
KY491011 PHEV-US 2015
KY491010 PHEV-US 2015
KY491010 PHEV-US 2015
KY491010 PHEV-US 2015 PHEV67N US 2020 PHEVE 7N US 2020
MFIRE31 15 PHEV CN 2014
KYWHOHO 4F PHEV CN 2009
DQ011855 PHEV BEL 2015
KYHS10167 PHEV US 2015
KYHS1017 PHEV US 2015 KY419103 PHEV US 2015 21815 PHEV67N US 2020 MF0831 15 PHEV CN 2014 KY9946 45 PHEV CN 2008 D0011855 PHEV BEL 2015 KY419106 PHEV US 2015 KY419107 PHEV US 2015 KY419109 PHEV US 2015 KY4191 09 PHEV US 2015 KY4191 11 PHEV US 2015 KY4191 13 PHEV US 2015 KY4191 04 PHEV US 2015 KY4191 05 PHEV US 2015 KY4191 12 PHEV US 2015 KY4191 10 PHEV US 2015 KY4191 10 PHEV US 2015 PHEV87N US 2020 MF003 15 PHEV CN 2014 Visionary PHEV CN 2010 Upon 1655 PHEV9EL 2015 Viviation PHEV US 2015 Î Î A PHEV67N US 2020 PHEV67N US 2020 MF083116 PHEV CN 2014 KY994646 PHEV CN 2008 DQ011855 PHEV BEL 2015 KY419106 PHEV US 2015 KY419106 PHEV US 2015 KY419107 PHEV US 2015 KY419109 PHEV US 2015 KY419111 PHEV US 2015 KY419112 PHEV US 2015 KY419104 PHEV US 2015 KY419104 PHEV US 2015 KY419105 PHEV US 2015 KY419112 PHEV US 2015 KY419110 PHEV US 2015 KY419103 PHEV US 2015 22115 PHEV-67N US 2020
MR083115 PHEV CN 2014
KY9949-66 PHEV CN 2018
KY9949-66 PHEV DE 2015
KY419100 PHEV US 2015
KY419100 PHEV US 2015
KY419101 PHEV US 2015
KY41910 PHEV US 2015
KY41910 PHEV US 2015
KY41910 PHEV US 2015
KY41910 PHEV US 2015 BMD/87N HS 2020 PHEV67N US 2020 MR083115 PHEV CN 2014 KY994645 PHEV CN 2008 DQ011855 PHEVBEL 2015 KY419106 PHEV US 2015 KY419107 PHEV US 2015 KY419107 PHEV US 2015 KY41919 PHEV US 2015 KY419111 PHEV US 2015 KY419113 PHEV US 2015 KY419104 PHEV US 2015 KY419105 PHEV US 2015 KY419112 PHEV US 2015 KY419110 PHEV US 2015 KY419103 PHEV US 2015

Movie S1. Cilia cell development of completely diffentiated neonatal pig-derived tracheal cells after 30 days of culture and propagation in transwells.