**Table S3.** **Seroconversion of the dogs in transmission experiments.**

|  |  |
| --- | --- |
| Virus | Seroconversion: positive/total (HI titers)a |
| Inoculated  | Contact |
| A/duck/Korea/JS53/2004 | 3/3 (160,160,320) | 0/3 |
| A/canine/Guangdong/1/2006 (clade0) | 3/3 (160,320,160) | 2/3 (80,160) |
| A/canine/Korea/01/2007 (clade1) | 3/3 (160,160,320) | 2/3 (80,160) |
| A/canine/Thailand/CU-DC5299/2012 (clade2) | 3/3 (320,320,320) | 3/3 (160,160,320) |
| A/canine/Beijing/0118-256/2015 (clade2) | 3/3 (320,320,640) | 3/3 (320,160,160) |
| A/canine/Korea/AS-03/2012 (clade3) | 3/3 (320,320,320) | 3/3 (160,160,320) |
| A/canine/lllinoins/M17-05782-7-1/2017 (clade4) | 3/3 (320,320,640) | 3/3 (160,320,160) |
| A/canine/Beijing/1216-38/2016 (clade5) | 3/3 (320,640,320) | 3/3 (320,320,640) |
| A/canine/Shanghai/159/2017 (clade5) | 3/3 (640,320,640) | 3/3 (640,320,320) |
| A/canine/California/BRW003/2018 (clade5) | 3/3 (320,320,640) | 3/3 (320,320,640) |
| A/canine/Hainan/079/2019 (clade5.1) | 3/3 (640,320,640) | 3/3 (320,640,640) |
| A/canine/Guangzhou/1180/2019 (clade5.1) | 3/3 (640,640,640) | 3/3 (640,320,640) |

aSera were collected from the dogs 3 weeks after virus inoculation or exposure; these animals were used for the transmission studies shown in Fig4 and S6. HI, hemagglutinin inhibition.