

Table S4. Viruses used for *in vitro* experiments. List of highly pathogenic avian influenza (HPAI) H5N8 and H5N5 viruses used for *in vitro* experiments, representing genotypes H5N5-GT1, H5N5-GT2, H5N5-GT3 and European H5N8 NL-Zeewolde-like virus. The GISAID isolate ID numbers refer to the whole genome sequences that were submitted to the GISAID's EpiFlu™ Database (<http://www.gisaid.org>).

| Genotype | Isolate name | Bird species | Collection date | Collection location | GISAID isolate ID |
|----------|---|---------------|-----------------|--------------------------------|-------------------|
| H5N8 | A/Dk/NL-Biddinghuizen/16014829-011-015/2016 | Domestic duck | 2016-11-25 | Biddinghuizen, The Netherlands | EPI_ISL_268629 |
| H5N5-GT1 | A/T_Dk/NL-Werkendam/16014159-001/2016 | Tufted duck | 2016-11-14 | Werkendam, The Netherlands | EPI_ISL_287564 |
| H5N5-GT2 | A/M_Swan/NL-Groningen/16015826-001/2016 | Mute swan | 2016-12-13 | Groningen, The Netherlands | EPI_ISL_287565 |
| H5N5-GT3 | A/Go/NL-Utrecht/17006881-001/2017 | Goose | 2017-05-22 | Utrecht, The Netherlands | EPI_ISL_288411 |