Supplementary information

**Supplementary Table 1: Virus neutralization (VN) test and hemagglutination inhibition (HI) test of chicken sera using a heterologous HPAIV H5N8 virus (A/tufted duck/Germany/AR8444-L01987/2016, clade 2.3.4.4 group B).** Shown are the VN- and HI-titers and positive reactions are indicated in bold. d23 = 12 days post boost, d30 = 7 days post challenge.

|                   | VN titer | HI titer | VN titer | HI titer |
|-------------------|----------|----------|----------|----------|
|                   | d23      | d30      | d23      | d30      |
| Subadult group    | <1:8     | <1:8     | <1:8     | <1:8     |
| Vaccinated and challenged | <1:16 | <1:8     | <1:16    | <1:8     |
|                   | <1:8     | <1:8     | <1:8     | <1:8     |
|                   | <1:8     | <1:8     | <1:8     | <1:8     |
|                   | <1:8     | <1:8     | <1:8     | <1:8     |
|                   | <1:8     | <1:10    | <1:8     | <1:8     |
| Juvenile group    | <1:16    | <1:8     | <1:16    | <1:8     |
| Vaccinated and challenged | <1:16 | <1:8     | <1:16    | <1:8     |
|                   | <1:16    | <1:8     | <1:16    | <1:8     |
|                   | <1:16    | <1:8     | <1:16    | <1:8     |
|                   | <1:16    | <1:16    | <1:16    | <1:8     |
|                   | <1:16    | <1:16    | <1:16    | <1:8     |
| Naïve contact     | <1:16    | <1:8     | <1:16    | <1:8     |
|                   | <1:16    | <1:16    | <1:16    | <1:8     |
|                   | <1:16    | <1:16    | <1:16    | <1:8     |
|                   | <1:16    | <1:16    | <1:16    | <1:8     |
|                   | <1:16    | <1:16    | <1:16    | <1:8     |
**Supplementary Table 2:** Virus neutralization (VN) test and hemagglutination inhibition (HI) test of ferret sera using a heterologous HPAIV H5N8 virus (A/tufted duck/Germany/AR8444-L01987/2016, clade 2.3.4.4 group B). Shown are the VN- and HI-titers and positive reactions are indicated in bold. d22 = 12 days post boost, d28 = 6 days post challenge.

|                      | VN titer | HI titer |
|----------------------|----------|----------|
|                      | d22      | d28      | d22      | d28      |
| Vaccinated and       | <1:256   | <1:8     | <1:256   | <1:8     |
| challenged           | <1:16    | 1:13     | <1:16    | 1:8      |
|                      | <1:16    | <1:8     | <1:16    | <1:8     |
|                      | <1:64    | <1:8     | <1:64    | <1:8     |
| Naive contact        | <1:8     | <1:8     | <1:8     | <1:8     |
|                      | <1:16    | <1:8     | <1:16    | <1:8     |
|                      | <1:16    | <1:8     | <1:16    | <1:8     |
|                      | <1:64    | <1:8     | <1:64    | <1:8     |