**SUPPLEMENTARY TABLE S1 TLAMP and qPCR results for 37 positive samples**

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| **Type of Chicken**  **Samples** | **Positive sample number** | **TLAMP (col or)** | **qPCR (CT value)** | **Sequencing** |
| Tissue samples from  challenged SPF  chickens | 1 | H5+ (green) | H5+ (13.63) | H5 + |
| 2 | H5+ (green) | H5+ (17.51) | H5 + |
| 3 | H5+ (green) | H5+ (19.62) | H5+ |
| 4 | H5+ (green) | H5+ (18.73) | H5 + |
| 5 | H5+ (green) | H5+ (14.23) | H5 + |
| 6 | H5+ (green) | H5+ (15.03) | H5 + |
| 7 | H5+ (green) | H5+ (20.07) | H5 + |
| 8 | H5+ (green) | H5+ (22.75) | H5 + |
| 9 | H7+ (red) | H7+ (14.77) | H7 + |
| 10 | H7+ (red) | H7+ (18.26) | H7 + |
| 11 | H7+ (red) | H7+ (19.67) | H7 + |
| Swab samples from  LBMs | 12 | H9+ (blue) | H9+ (28.41) | H9 + |
| 13 | H9+ (blue) | H9+ (23.69) | H9+ |
| 14 | H9 (blue) | H9+ (22.72) | H9 + |
| 15 | H9+ (blue) | H9+ (25.82) | H9 + |
| 16 | H9+ (blue) | H9+ (**31.80)** | H9 + |
| 17 | H9+ (blue) | H9+ (21.92) | H9 + |
| 18 | H9+ (blue) | H9+ (29.61) | H9 + |
| 19 | H9+ (blue) | H9+ (28.40) | H9 + |
| 20 | H9+ (blue) | H9+ (**33.26)** | H9 + |
| 21 | H9+ (blue) | H9+ (26.85) | H9 + |
| 22 | H9+ (blue) | H9+ (22.72) | H9 + |
| 23 | H9+ (blue) | H9+ (20.55) | H9 + |
| 24 | H9+ (blue) | H9+ (22.57) | H9 + |
| 25 | H9+ (blue) | H9+ (27.31) | H9 + |
| 26 | H9+ (blue) | H9+ (26.42) | H9 + |
| 27 | H9+ (blue) | H9+ (28.56) | H9 + |
| 28 | H9+ (blue) | H9+ (22.77) | H9 + |
| 29 | H9+ (blue) | H9+ (19.36) | H9 + |
| 30 | H9+ (blue) | H9+ (27.17) | H9 + |
| 31 | H9+ (blue) | H9+ **(34.05)** | H9 + |
| 32 | H9+ (blue) | H9+ (19.15) | H9 + |
| 33 | H9+ (blue) | H9+ (28.62) | H9 + |
| 34 | H9+ (blue) | H9+ (15.24) | H9 + |
| 35 | H9+ (blue) | H9+ (23.63) | H9 + |
| 36 | H9+ (blue) | H9+ (26.92) | H9 + |
| 37 | H9+ (blue) | H9+ **(34.85)** | H9 + |