

VIROLOGICA SINICA

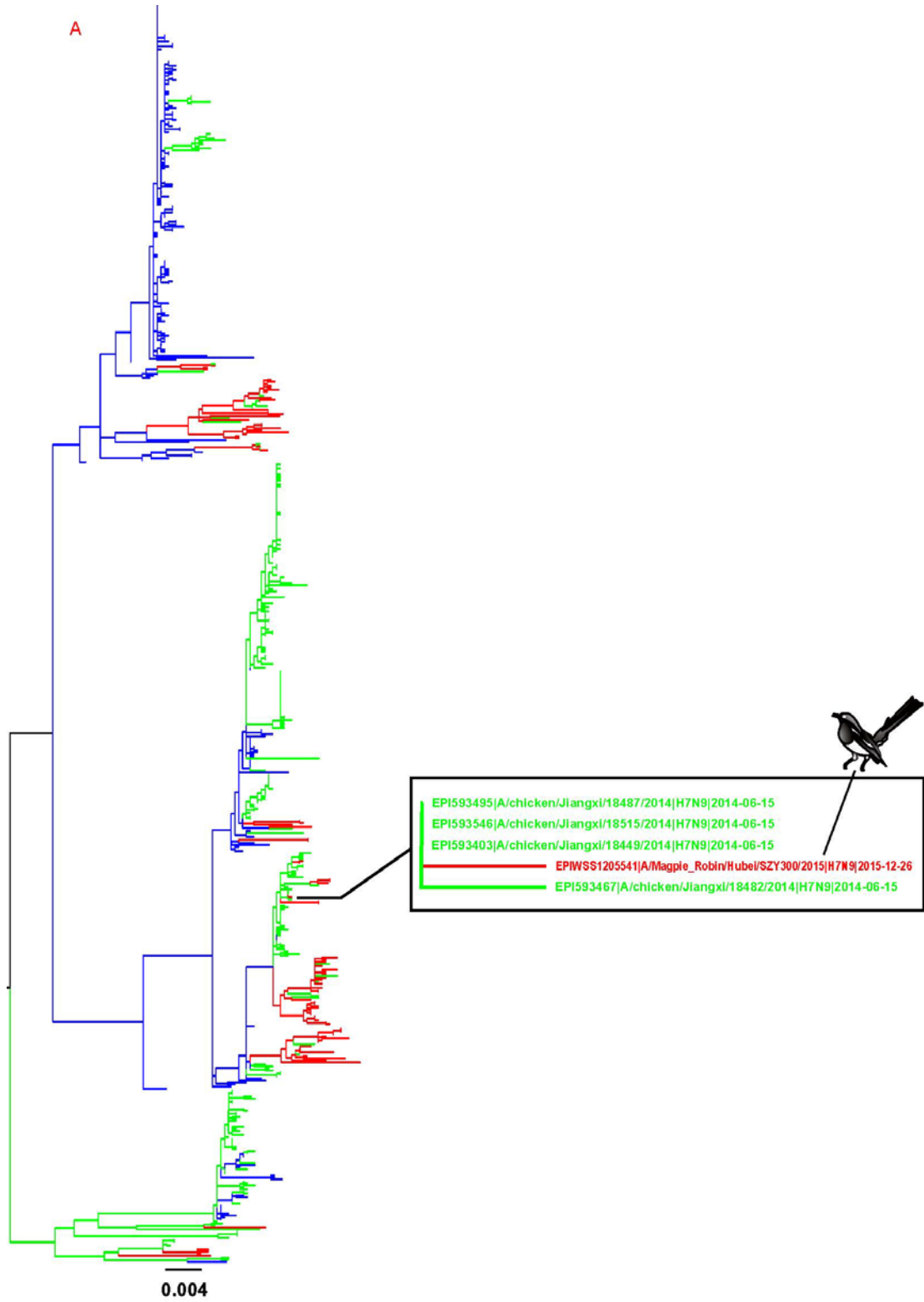
Electronic Supplementary Material

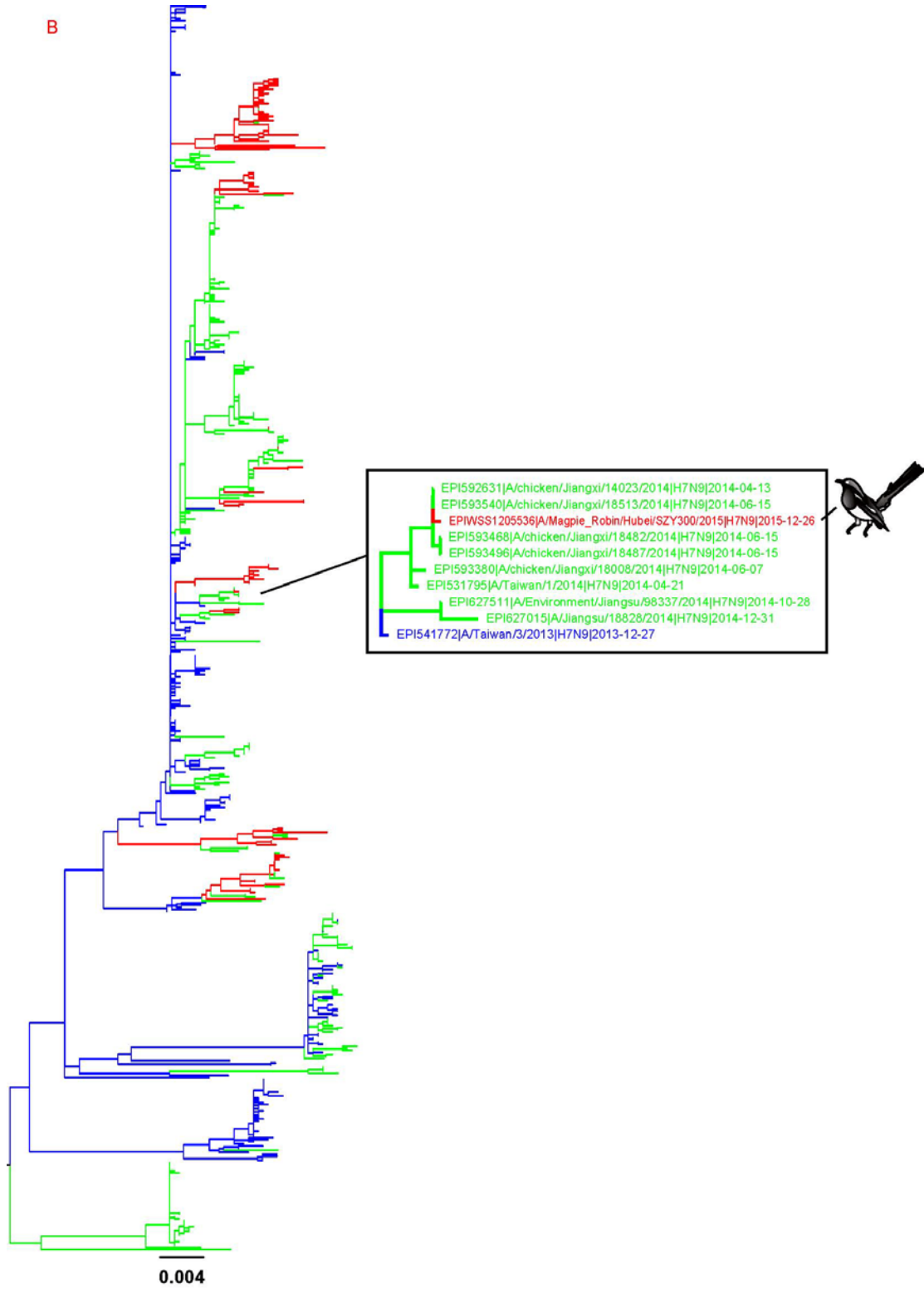
Avian Influenza A (H7N9) Virus in a Wild Land Bird in Central China, Late 2015

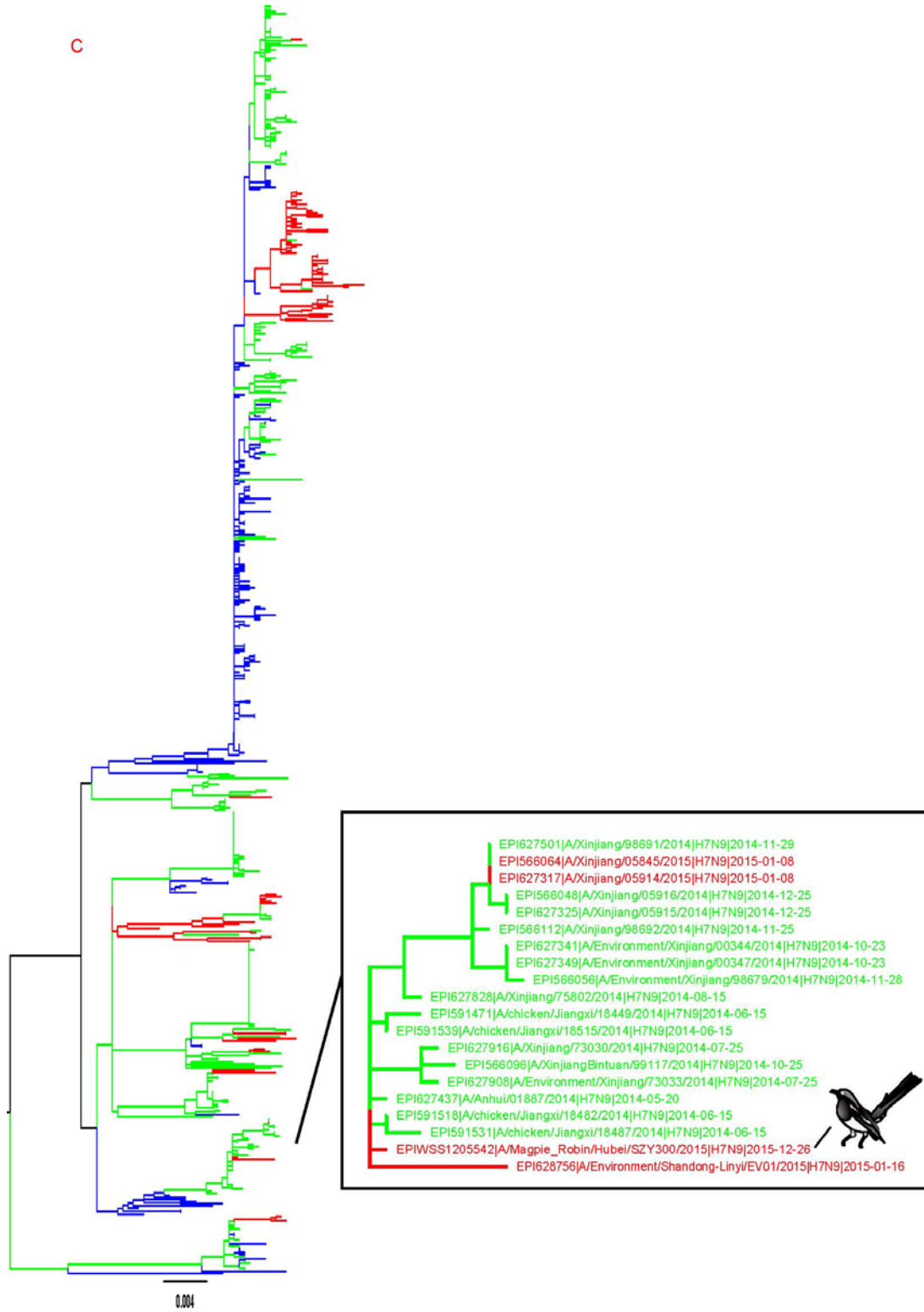
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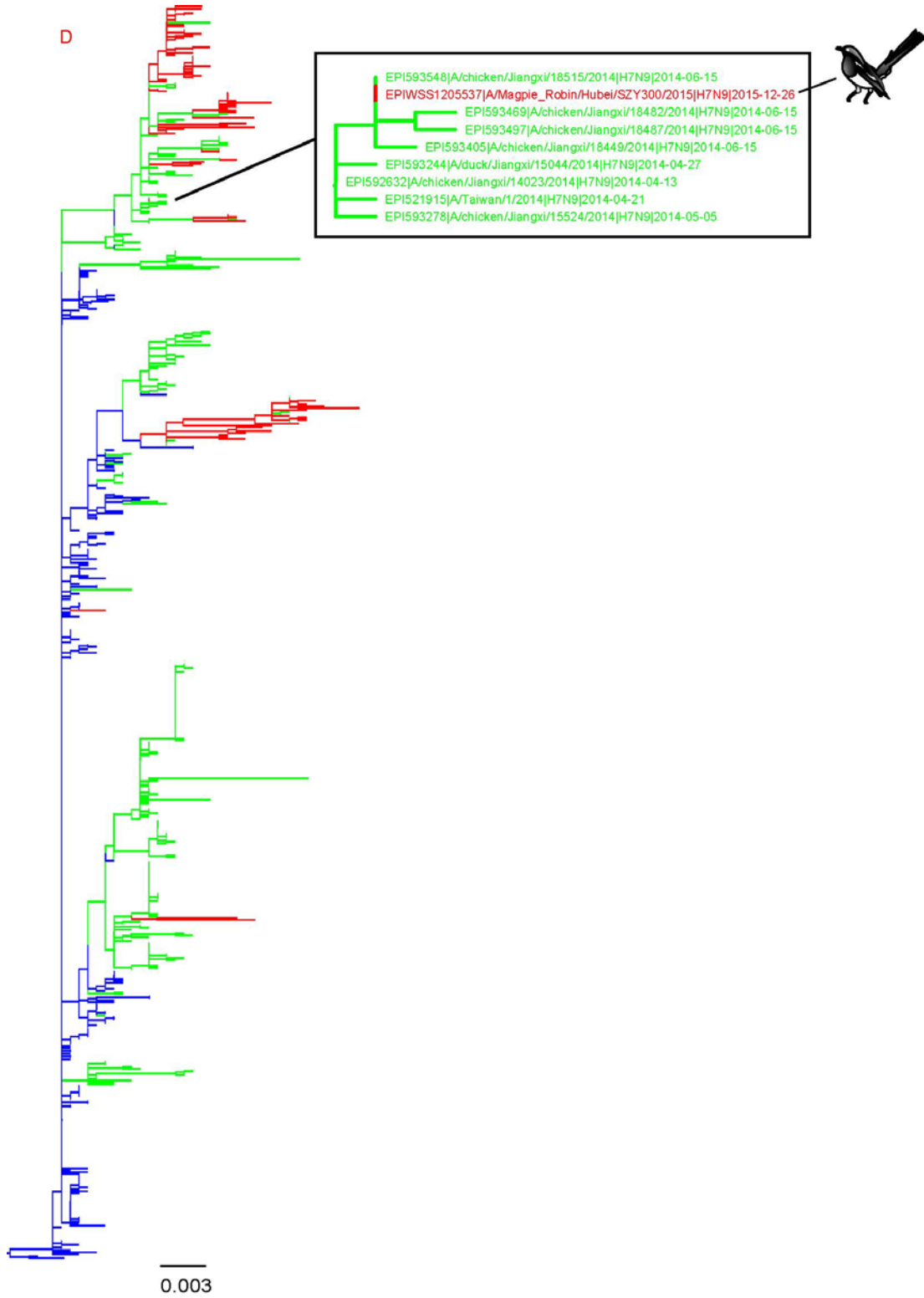
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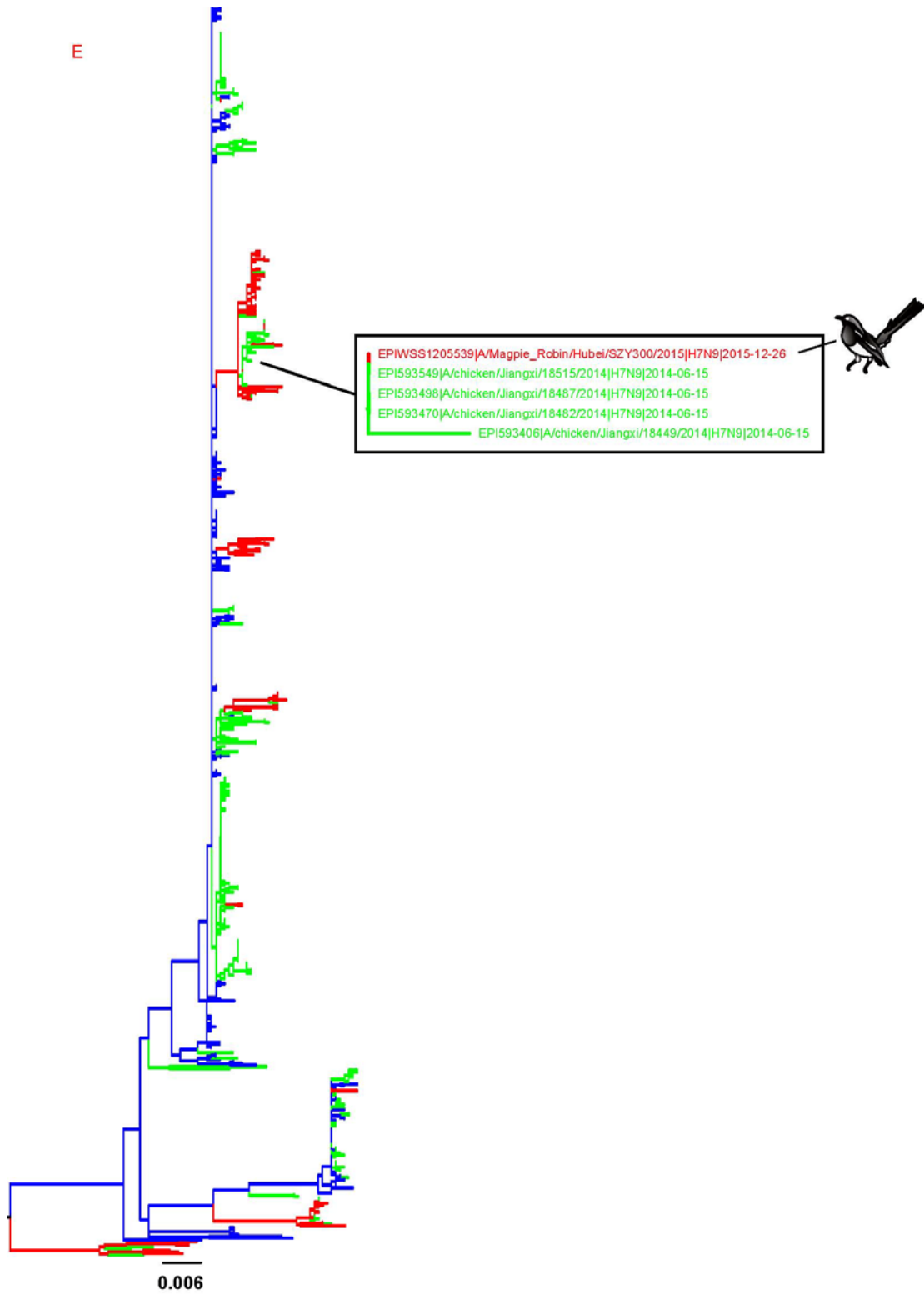
Supporting information to DOI: 10.1007/s12250-018-0001-x

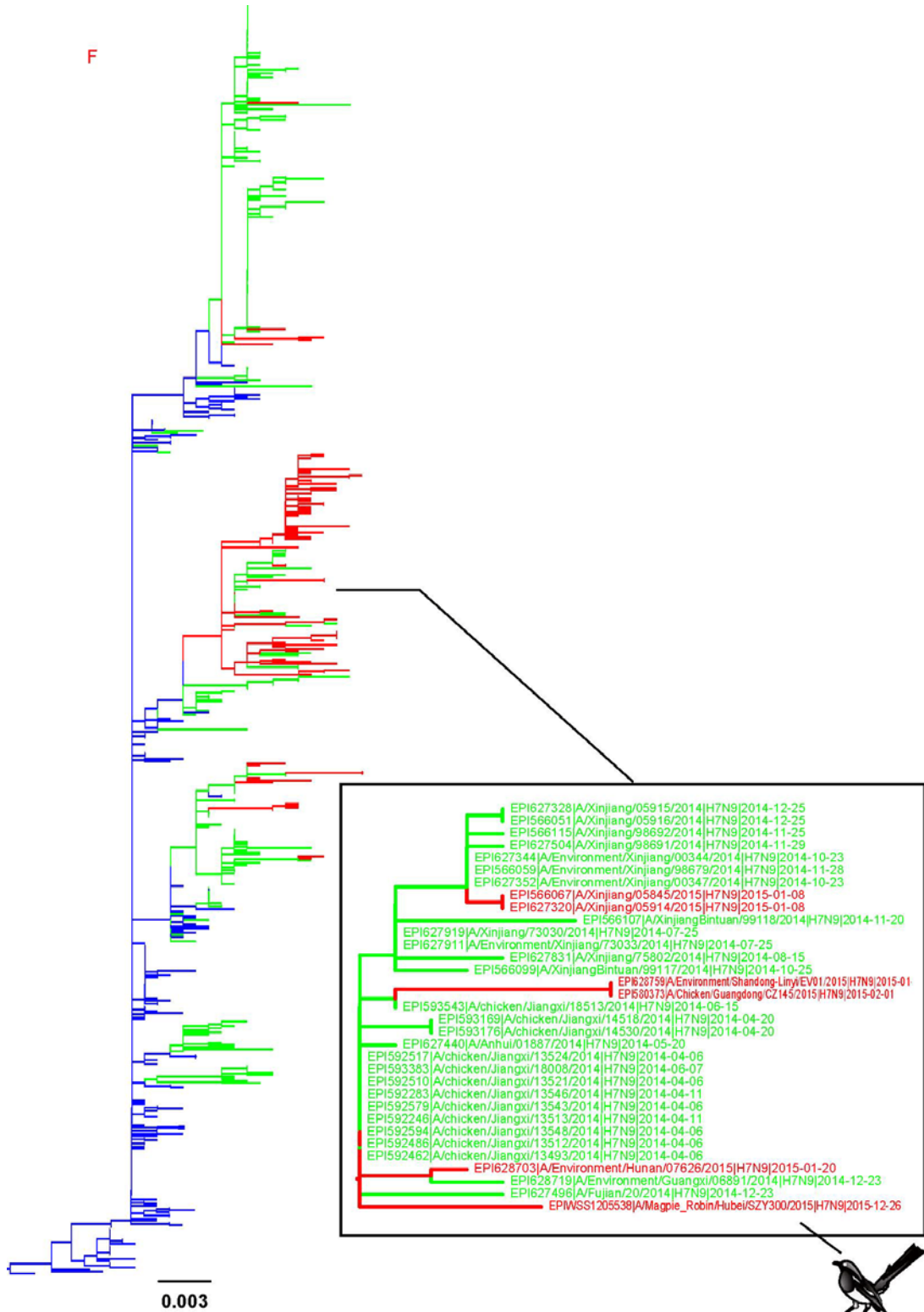


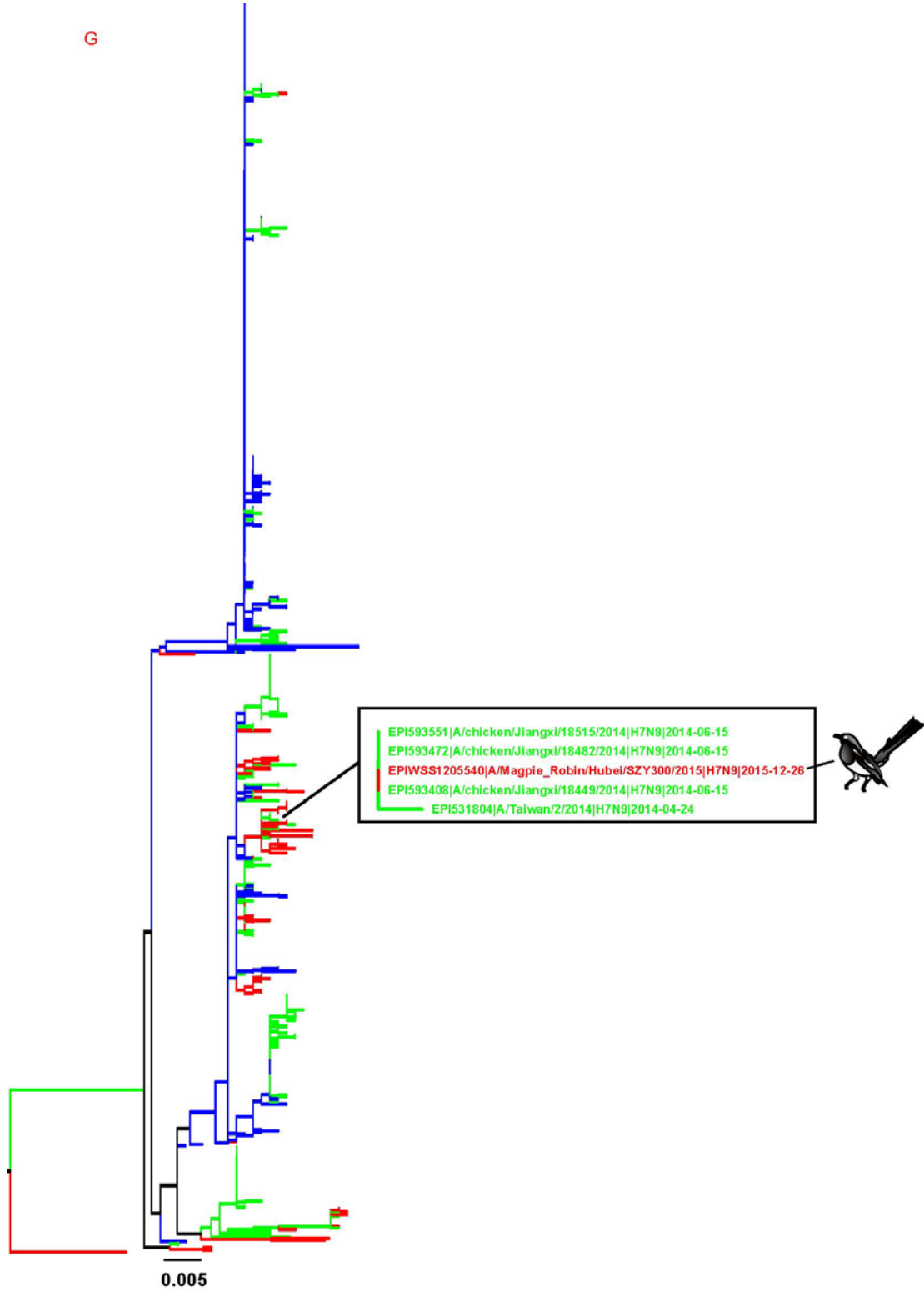












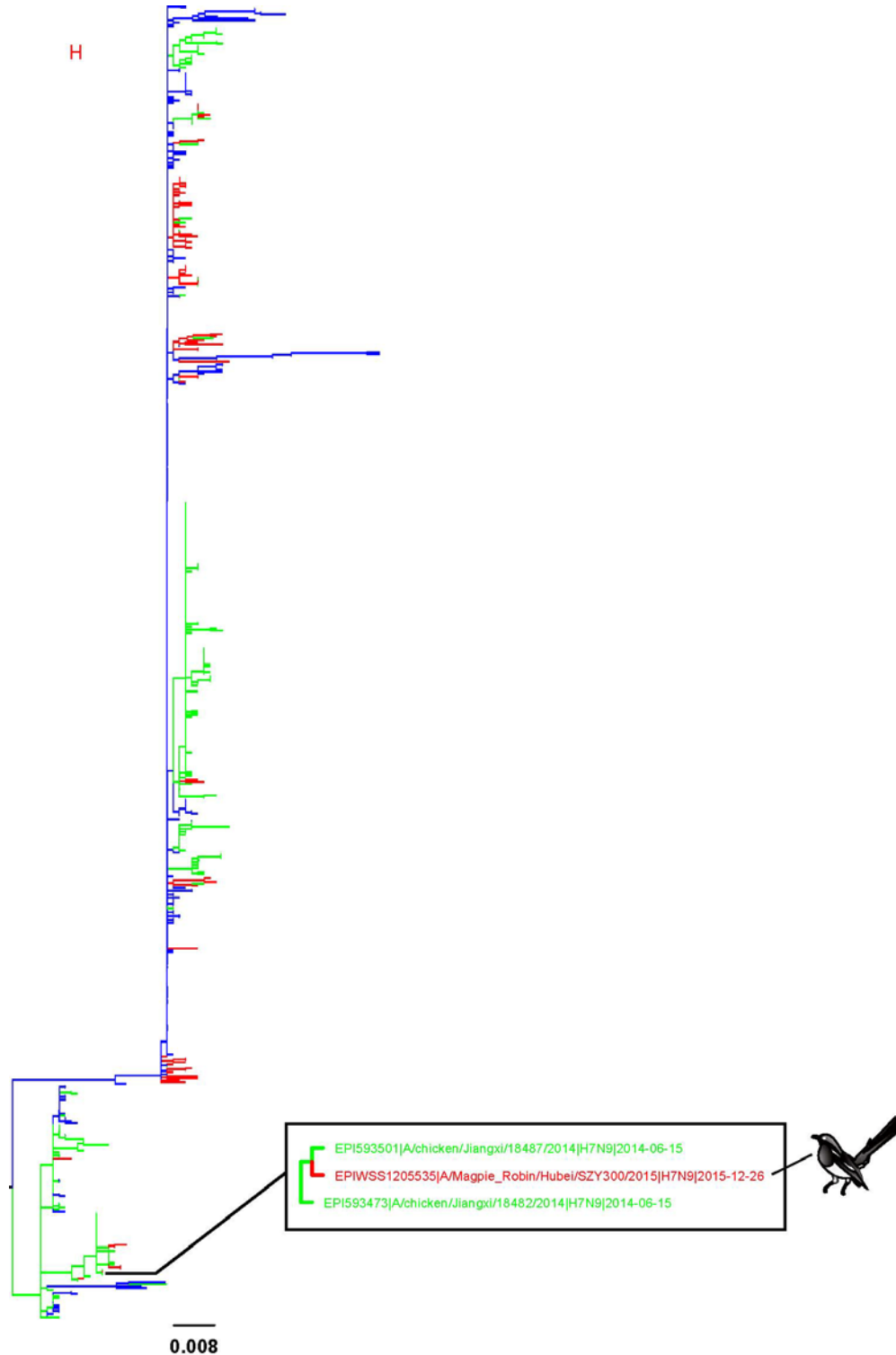


Figure S1. Maximum-likelihood phylogenetic trees of the coding sequences of the eight segments. A) PB2, B) PB1, C) PA, D) HA, E) NP, F) NA, G) M, H) NS. Node labels indicate bootstrap values. Colored tip and nodes are: blue, H7N9 viruses isolated in 2013; green, H7N9 viruses isolated in 2014; red, H7N9 viruses isolated in 2015.

Table S1 Molecular characterization of H7N9 at representative sites*

| Virus strain | HA | | | NA | | PB2 | | | PB1 | PA | M2 |
|----------------------------------|------------------|-----|----------------|----------------|------------------|-----|-----|-----|-----|-----|----|
| | 186 ^a | 226 | Cleavage sites | 69-73 deletion | 294 ^b | 158 | 627 | 701 | 436 | 515 | 31 |
| A/Magpie-Robin/Hubei/SZY300/2015 | V | L | PEIPKGRG | + ^c | R | E | E | D | Y | T | N |
| A/Anhui/1/2013 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Shanghai/1/2013 | V | Q | PEIPKGRG | + | K | E | K | D | Y | T | N |
| A/Chicken/Guangdong/G1/2013 | V | L | PEIPKGRG | + | R | E | E | D | Y | T | N |
| A/Zhejiang/6/2014 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Chicken/Jiangxi/12265/2014 | V | L | PEIPKGRG | + | R | E | E | D | Y | T | N |
| A/Guangdong/035/2014 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Jiangsu/18828/2014 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Guangdong/02496/2014 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Zhejiang/8/2015 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Hunan/02650/2016 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Fujian/1/2016 | V | L | PEIPKGRG | + | R | E | V | D | Y | T | N |
| A/Chicken/Ganzhou/GZ79/2016 | V | L | PEIPKGRG | + | R | E | E | D | Y | T | N |
| A/Guangdong/17SF003/2016 | V | Q | PEVPRKRK | + | K | E | E | D | Y | T | N |
| A/Zhejiang/8/2016 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |
| A/Hubei/11950/2017 | V | L | PEIPKGRG | + | R | E | K | D | Y | T | N |

*PB2, basic polymerase 2; PB1, basic polymerase 1; PA, acidic polymerase; HA, hemagglutinin; NA, neuraminidase; M2, matrix protein 2; D, asparagic acid; E, glutamic acid; G, glycine; I, isoleucine; K, lysine; L, leucine; N, asparagine; P, proline; Q, glutamine; R, arginine; T, threonine; V, valine; Y, tyrosine.

The representative virus of the first wave of H7N9 epidemic: A/Anhui/1/2013, A/Shanghai/1/2013, A/chicken/Guangdong/G1/2013; The representative virus of the

second wave of H7N9 epidemic: A/Zhejiang/6/2014,A/chicken/Jiangxi/12265/2014,A/Guangdong/035/2014; The representative virus of the third wave of H7N9 epidemic: A/Jiangsu/18828/2014,A/Guangdong/02496/2014,A/Zhejiang/8/2015; The representative virus of the fourth wave of H7N9 epidemic: A/Hunan/02650/2016,A/Fujian/1/2016, A/chicken/Ganzhou/GZ79/2016; The representative virus of the fifth wave of H7N9 epidemic: A/Guangdong/17SF003/2016,A/Zhejiang/8/2016,A/Hubei/11950/2017.

^a H3 numbering

^b N2 numbering

^c "+" The deletion was found in this virus.