Supplementary Table 6. Amino acid distribution of the North American AIV for the positively selected sites in the Mexican H7N3 HPAI virus

|  |  |  |
| --- | --- | --- |
| Segment | Amino acid changes of positively selected sites | Amino acid distribution (%) in the North American AIV |
| Wild birds | Poultry(chicken, turkey, ostrich, quail, and guinea fowl) |
| PB2Poultry(n=622)Wild bird(n=7538) | K116R | KR | 99.60.4 | 88.111.8 |
| R389K | RK | 98.11.9 | 95.74.3 |
| PB1Poultry(n=786)Wild bird(n=7648) | S216I | SIG | 96.80.01.1 | 93.11.73.8 |
| PAPoultry(n=636)Wild bird(n=7592) | D396Y | DYNG | 98.20.01.00.6 | 96.50.81.90.2 |
| I668V | IV | 99.80.2 | 98.71.3 |
| HAPoultry(n=281)Wild bird(n=600 | G52K/E/R | GK/E/R | 99.70.3 | 93.26.8 |
| D73K/N/S | DK/N/S | 90.35.2 | 21.468.0 |
| R130T | RTK | 94.02.53.3 | 27.253.016.8 |
| G133S/N | GS/N | 99.50.3 | 91.87.5 |
| K157Q/M/R | KQ/M/R | 99.20.8 | 90.06.4 |
| Q201L | QLR | 99.00.50.5 | 88.66.14.3 |
| NAPoultry(n=52)Wild bird(n=807) | N249S | NS | 97.81.7 | 64.733.3 |
| V397M | VMK | 99.90.00.1 | 73.117.30.0 |
| K412R | KRSE | 83.92.40.010.9 | 86.57.73.80.0 |
| M2Poultry(n=525)Wild bird(n=5493) | S23N | SN | 99.40.6 | 97.32.7 |
| NS1Poultry(n=251)Wild bird(n=4040) | A112T | ATI | 98.71.10.0 | 86.12.811.2 |
| D171G/N | DG/N | 98.90.7 | 86.58.8 |
| V180T | VTG | 99.00.00.8 | 90.08.01.2 |