

**Influenza A virus (A/Wood Duck/New York/22-011188-001/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds**

GenBank: OQ967076.1

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|            |  |         |      |        |                 |  |  |  |  |
|------------|--|---------|------|--------|-----------------|--|--|--|--|
| LOCUS      | OQ967076   | 1704 bp | cRNA | linear | VRL 23-AUG-2023 |  |  |  |  |
| DEFINITION | Influenza A virus (A/Wood Duck/New York/22-011188-001/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds.   |         |      |        |                 |  |  |  |  |
| ACCESSION  | OQ967076   |         |      |        |                 |  |  |  |  |
| VERSION    | OQ967076.1   |         |      |        |                 |  |  |  |  |
| KEYWORDS   | .  |         |      |        |                 |  |  |  |  |
| SOURCE     | Influenza A virus  |         |      |        |                 |  |  |  |  |
| ORGANISM   | <a href="#">Influenza A virus</a><br>Viruses; Riboviria; Orthornavirae; Negarnaviricota; Polyploviricotina; Insthoviricetes; Articulavirales; Orthomyxoviridae; Alphainfluenzavirus; Alphainfluenzavirus influenzae. |         |      |        |                 |  |  |  |  |
| REFERENCE  | 1 (bases 1 to 1704)  |         |      |        |                 |  |  |  |  |
| AUTHORS    | Youk,S., Torchetti,M.K., Lantz,K., Lenocho,J.B., Killian,M.L., Leyson,C., Bevins,S.N., Dilione,K., Ip,H.S., Stallknecht,D.E., Poulson,R.L., Suarez,D.L., Swayne,D.E. and Pantin-Jackwood,M.J.                        |         |      |        |                 |  |  |  |  |
| TITLE      | H5N1 highly pathogenic avian influenza clade 2.3.4.4b in wild and domestic birds: Introductions into the United States and reassortments, December 2021-April 2022   |         |      |        |                 |  |  |  |  |
| JOURNAL    | Virology 587, 109860 (2023)  |         |      |        |                 |  |  |  |  |

**Influenza A virus (A/Snow Goose/New York/22-008835-002/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds**

GenBank: OQ964204.1

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|            |  |         |      |        |                 |  |  |  |  |
|------------|--|---------|------|--------|-----------------|--|--|--|--|
| LOCUS      | OQ964204   | 1704 bp | cRNA | linear | VRL 23-AUG-2023 |  |  |  |  |
| DEFINITION | Influenza A virus (A/Snow Goose/New York/22-008835-002/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds.  |         |      |        |                 |  |  |  |  |
| ACCESSION  | OQ964204   |         |      |        |                 |  |  |  |  |
| VERSION    | OQ964204.1   |         |      |        |                 |  |  |  |  |
| KEYWORDS   | .  |         |      |        |                 |  |  |  |  |
| SOURCE     | Influenza A virus  |         |      |        |                 |  |  |  |  |
| ORGANISM   | <a href="#">Influenza A virus</a><br>Viruses; Riboviria; Orthornavirae; Negarnaviricota; Polyploviricotina; Insthoviricetes; Articulavirales; Orthomyxoviridae; Alphainfluenzavirus; Alphainfluenzavirus influenzae. |         |      |        |                 |  |  |  |  |
| REFERENCE  | 1 (bases 1 to 1704)  |         |      |        |                 |  |  |  |  |
| AUTHORS    | Youk,S., Torchetti,M.K., Lantz,K., Lenocho,J.B., Killian,M.L., Leyson,C., Bevins,S.N., Dilione,K., Ip,H.S., Stallknecht,D.E., Poulson,R.L., Suarez,D.L., Swayne,D.E. and Pantin-Jackwood,M.J.                        |         |      |        |                 |  |  |  |  |
| TITLE      | H5N1 highly pathogenic avian influenza clade 2.3.4.4b in wild and domestic birds: Introductions into the United States and reassortments, December 2021-April 2022   |         |      |        |                 |  |  |  |  |
| JOURNAL    | Virology 587, 109860 (2023)  |         |      |        |                 |  |  |  |  |

**Influenza A virus (A/Backyard bird/New York/22-010200-002/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds**

GenBank: OQ958788.1

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|            |  |         |      |        |                 |
|------------|--|---------|------|--------|-----------------|
| LOCUS      | OQ958788   | 1704 bp | cRNA | linear | VRL 23-AUG-2023 |
| DEFINITION | Influenza A virus (A/Backyard bird/New York/22-010200-002/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds.   |         |      |        |                 |
| ACCESSION  | OQ958788   |         |      |        |                 |
| VERSION    | OQ958788.1   |         |      |        |                 |
| KEYWORDS   | .  |         |      |        |                 |
| SOURCE     | Influenza A virus  |         |      |        |                 |
| ORGANISM   | <a href="#">Influenza A virus</a><br>Viruses; Riboviria; Orthornavirae; Negarnaviricota; Polyploviricotina; Insthoviricetes; Articulavirales; Orthomyxoviridae; Alphainfluenzavirus; Alphainfluenzavirus influenzae. |         |      |        |                 |
| REFERENCE  | 1 (bases 1 to 1704)  |         |      |        |                 |
| AUTHORS    | Youk,S., Torchetti,M.K., Lantz,K., Lenocho,J.B., Killian,M.L., Leyson,C., Bevins,S.N., Dilione,K., Ip,H.S., Stallknecht,D.E., Poulson,R.L., Suarez,D.L., Swayne,D.E. and Pantin-Jackwood,M.J.                        |         |      |        |                 |
| TITLE      | H5N1 highly pathogenic avian influenza clade 2.3.4.4b in wild and domestic birds: Introductions into the United States and reassortments, December 2021-April 2022   |         |      |        |                 |
| JOURNAL    | Virology 587, 109860 (2023)  |         |      |        |                 |
| PUBMED     | 37572517   |         |      |        |                 |

**Influenza A virus (A/Cooper's Hawk/New York/22-010033-001/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds**

GenBank: OQ960876.1

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|            |   |         |      |        |                 |
|------------|---|---------|------|--------|-----------------|
| LOCUS      | OQ960876  | 1704 bp | cRNA | linear | VRL 23-AUG-2023 |
| DEFINITION | Influenza A virus (A/Cooper's Hawk/New York/22-010033-001/2022(H5N1)) segment 4 hemagglutinin (HA) gene, complete cds.  |         |      |        |                 |
| ACCESSION  | OQ960876  |         |      |        |                 |
| VERSION    | OQ960876.1  |         |      |        |                 |
| KEYWORDS   | .   |         |      |        |                 |
| SOURCE     | Influenza A virus   |         |      |        |                 |
| ORGANISM   | <u>Influenza A virus</u>  |         |      |        |                 |
|            | Viruses; Riboviria; Orthornavirae; Negarnaviricota; Polyploviricotina; Insthoviricetes; Articulavirales; Orthomyxoviridae; Alphainfluenzavirus; Alphainfluenzavirus influenzae.               |         |      |        |                 |
| REFERENCE  | 1 (bases 1 to 1704)   |         |      |        |                 |
| AUTHORS    | Youk,S., Torchetti,M.K., Lantz,K., Lenocho,J.B., Killian,M.L., Leyson,C., Bevins,S.N., Dilione,K., Ip,H.S., Stallknecht,D.E., Poulson,R.L., Suarez,D.L., Swayne,D.E. and Pantin-Jackwood,M.J. |         |      |        |                 |
| TITLE      | H5N1 highly pathogenic avian influenza clade 2.3.4.4b in wild and domestic birds: Introductions into the United States and reassortments, December 2021-April 2022                            |         |      |        |                 |
| JOURNAL    | Virology 587, 109860 (2023)   |         |      |        |                 |



## Multiple Alignment

