

**Kilbourne F61: A/WSN/1933 (HA, NA) x A/Rockefeller Institute/5/1957 (H1N1), Reassortant NWS R7**

**Catalog No. NR-3694**

Derived from NIAID Catalog No. V-331-0TC476

**For research use only. Not for human use.**

**Contributor:**

National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH)

**Manufacturer:**

BEI Resources

**Product Description:**

Virus Classification: *Orthomyxoviridae, Influenzavirus A*

Species: Influenza A virus

Reassortant: A/WSN/1933 (HA, NA) x A/Rockefeller Institute/5/1957 (H1N1) (Kilbourne F61)<sup>1-3</sup>

Parents: NWS-F (H1N2) and A/WSN/1933 (H1N1) M- (ts51)

Comments: Except for the matrix gene (RNA 7), all genome segments of NR-3694 are derived from influenza A/WSN/1933 (H1N1) M- (ts51), which is Kilbourne F66 and is available as BEI Resources NR-3687.<sup>4</sup> NWS-F (Kilbourne F63; BEI Resources NR-3478) is A/NWS/1934 (HA) x A/Rockefeller Institute/5/1957 (NA) (H1N2),<sup>5</sup> and donated the RNA 7 segment from A/Rockefeller Institute/5/1957 (H2N2). NR-3694 is amantadine sensitive and exhibits both filamentous and spherical morphology in electron microscopy. This reassortant is not temperature sensitive.

Note: The HA donor of NWS-F (H1N2) is designated "A/NWS/34" in the Kilbourne Archive.<sup>5</sup> According to Kilbourne, the nomenclature for neurotropic (NWS and WSN) mutants of the original A/Wilson-Smith/1933 (H1N1) human influenza isolate does not usually require the insertion of a date, but if a date is given it should be 1933.<sup>6</sup> Unfortunately, the usage of A/NWS/1933 and A/NWS/1934 is inconsistent, both in the Kilbourne collection and in the literature.

**Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from Madin-Darby Canine Kidney (MDCK) cells (ATCC<sup>®</sup> CCL-34) infected with reassortant influenza A virus, A/WSN/1933 (HA, NA) x A/Rockefeller Institute/5/1957 (H1N1).

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

NR-3694 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be

stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

Host: MDCK cells (ATCC<sup>®</sup> CCL-34)

Growth Medium: Dulbecco's Modified Eagle Medium supplemented with 0.1% bovine serum albumin and 0.025 µg/mL L-1-tosylamido-2-phenylethyl chloromethyl ketone (TPCK)-treated trypsin

Infection: Cells should be 100% confluent

Incubation: 3 to 7 days at 35°C and 5% CO<sub>2</sub>

Cytopathic Effect: Cell rounding, clumping, and detachment

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Kilbourne F61: A/WSN/1933 (HA, NA) x A/Rockefeller Institute/5/1957 (H1N1), Reassortant NWS R7, NR-3694."

**Biosafety Level: 2**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbI5/index.htm](http://www.cdc.gov/biosafety/publications/bmbI5/index.htm).

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**References:**

1. [http://www.flu-archive.org/data\\_sheets/F61.doc](http://www.flu-archive.org/data_sheets/F61.doc)
2. <http://www.flu-archive.org/>
3. [http://www.flu-archive.org/search/results.pl?search\\_string=&join\\_type=and](http://www.flu-archive.org/search/results.pl?search_string=&join_type=and)
4. [http://www.flu-archive.org/data\\_sheets/F66.doc](http://www.flu-archive.org/data_sheets/F66.doc)
5. [http://www.flu-archive.org/data\\_sheets/F63.doc](http://www.flu-archive.org/data_sheets/F63.doc)
6. <http://www.flu-archive.org/downloads.html> (Archive and Catalog of Influenza Virus Reassortants and Mutants).

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