



**Pseudovirus H3 (Luciferase)
A/Hong Kong/1/1968 (H3N2)
Lot #PsVL-H3HK68-231223**



Quality control report

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1. Summary

The lot number #PsVL-H3HK68-231223 is a lentivirus-based pseudovirus pseudotyped with the HA protein of the A/Hong Kong/1/1968 (H3N2) variant. This quality control report demonstrates that the lot #PsVL-H3HK68-231223 is efficient for cell transduction and can be effectively neutralized by a standard neutralizing antibody.

2. Transduction efficiency assay

Target cells	HEK293-T cells
Volume of pseudovirus	0 - 0.5 - 1 - 2 - 4 - 6 and 8 μL /well
Detection signal	Luminescence (firefly luciferase)
Detection method	Microplate reader

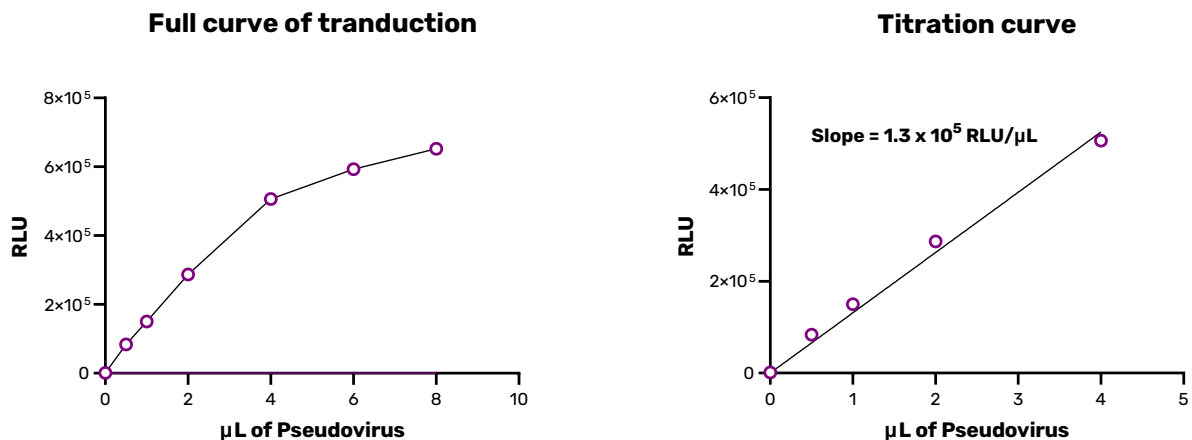


Figure 1: Transduction efficiency curve

A volume range of pseudovirus was mixed in a final volume of 50 μL of culture complete medium, in a 96-well plate. Then, an additional 50 μL containing 20 000 HEK293-T cells was seeded in each well. Luc expression analysis was performed 72 hours post-infection by a luminescence microplate reader.

Conclusion The H3 pseudovirus (#PsVL-H3HK68-231223) can transduce the target cells. This batch titer is : 1.3×10^5 RLU/ μL .

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3. Neutralization assay

Target cells	HEK293-T cells
Volume of pseudovirus	1 μ L/well
Neutralizing antibody (Nabs)	Anti-H3 surface glycoprotein [CR8020] - AB02198-10.0
Detection signal	Luminescence (firefly luciferase)
Detection method	Microplate reader

Neutralization curve

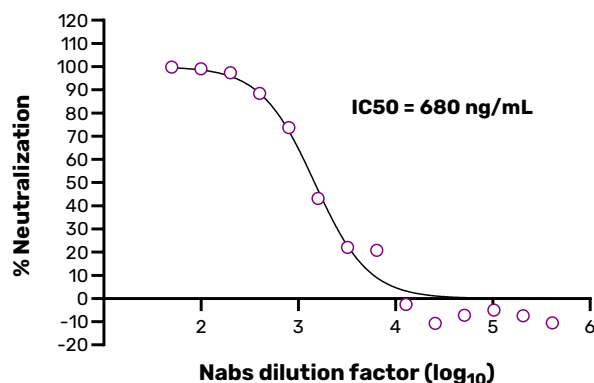


Figure 2: Neutralization curve

A monoclonal neutralizing antibody ([AB02198-10.0](#)) at 1 mg/mL was serially diluted in a final volume of 50 μ L of complete medium and incubated for 1 hour at 37 °C, with 1 μ L of pseudovirus, in a 96-well plate. Then, an additional 50 μ L containing 20 000 HEK293-T cells was seeded in each well and incubated for 72 hours. Finally, an additional 100 μ L of [Bright-Glo™ Luciferase](#) buffer was added in each well and incubated for 2 minutes. Data in relative unit luminescence (RLU) were obtained from the analysis of 150 μ L of the cell lysate with a microplate reader. Raw data were analyzed using a log(inhibitor) vs normalized-response (variable slope) non-linear regression model in Prism v10 (GraphPad). Percentages of neutralization were normalized considering only cells into wells as 100% neutralization and cells transduced by pseudoviruses without any NABs as 0% neutralization. Data are representative of duplicates.

Conclusion The H3 pseudovirus #PsVL-H3HK68-231223 can be efficiently neutralized by neutralizing antibodies.

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3. Additional information

Caution	We recommend determining the optimal pseudovirus volume to use according to your specific experimental conditions
Pseudovirus	Replication incompetent. Handling in a BSL-2 laboratory
Pseudotyping	Influenza hemagglutinin H3 from the 1968 outbreak in Hong Kong (GENBANK: AAK51719.1)
Glycosylation origin	Human
Reporter protein	Firefly luciferase
Storage	- 80 °C, avoid freeze/thaw cycles
For more information	mathias.mangion@ivanobioscience.com Message object should contain: "#PsVL-H3HK68-231223"