

# Measles-eGFP-hNIS

## Product Description

Product Name: Measles-eGFP-hNIS  
(Standard Titer, 0.25 mL)

Catalog Number: OV1009  
Lot Number: OV-IM28

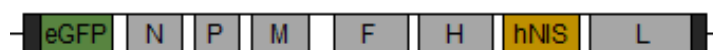
Shipping conditions: Dry ice  
Storage conditions: Store at  $\leq -70^{\circ}\text{C}$  upon receipt, avoid  
subjecting to multiple freeze-thaw cycles

Species: Measles  
Virus strain: Edmonston  
Transgene: Enhanced green fluorescent protein (eGFP)  
Human sodium iodide symporter (hNIS)

Production Cell Line: Vero  
Storage Media: Serum-free media  
Propagation: Inoculate producer cells (e.g. Vero cells) at an  
MOI of 0.03 for 2-3 hours. Harvest virus-  
associated cells when >80-90% of the cell  
monolayer has formed syncytia. Lyse by 2X  
freeze-thaw cycles in liquid nitrogen. Remove  
cell debris by centrifugation.

Measles-eGFP-hNIS is a recombinant of the live attenuated Edmonston strain of measles virus. The enhanced green fluorescent protein (eGFP) and human sodium iodide symporter (hNIS) cDNAs are inserted as additional transcription units upstream of the nucleocapsid (N) gene and downstream of the hemagglutinin (H) gene, respectively (see diagram below). The purchased virus is ready to generate additional virus stocks.

## Genome:



## References:

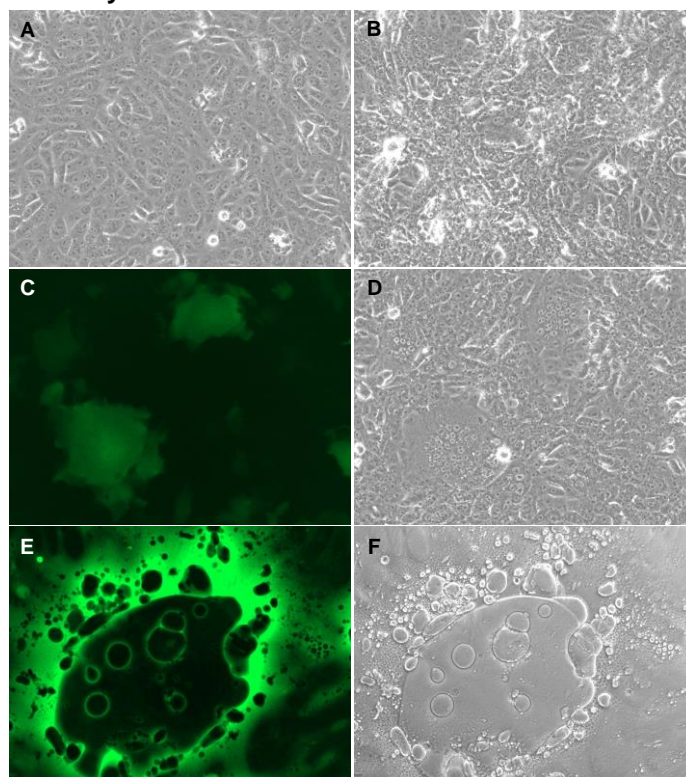
Li et al. Cancer Gene Therapy (2010), 17(8): 550-558.  
Takeda et al. Journal of Virology (2005), 79(22): 14346-14354.

## Certificate of Analysis

Testing performed by Imanis Life Sciences

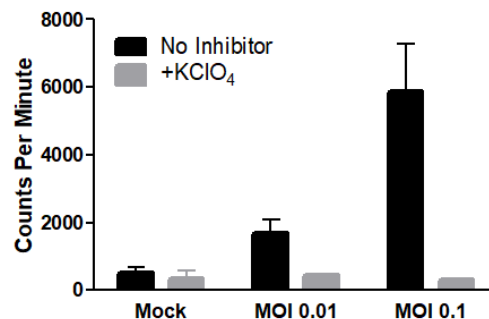
Test description	Result
Titer (on Vero)	$2.59 \times 10^6$ TCID <sub>50</sub> units/mL
Sterility	Pass QC
Cytopathic Effect	Pass QC
Endotoxin Test	Pass QC
Fluorescence expression	Pass QC
NIS Expression	Pass QC

## Infectivity:



A & B: Mock-infected cells at 24 (A) and 48 (B) h.p.i.  
C-F: Measles-eGFP-hNIS-infected Vero cells (MOI 0.1) at 24 (C & D) and 48 (E & F) h.p.i.

## NIS Expression:



Vero cells were mock-infected or infected with Measles-eGFP-hNIS at the indicated MOIs. After 48 hours, uptake of <sup>125</sup>I was measured in the presence or absence of KClO<sub>4</sub>, an inhibitor of NIS-mediated <sup>125</sup>I uptake.

Quality Control by: CL

Quality Assurance by: RLV

Effective Date: 04-Jun-2021

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For research use only. This certificate is a declaration of analysis at the time of manufacture

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