

## Product Description

Product Name: Measles-Fluc (Standard, 0.25 mL)  
Catalog Number: OV1007  
Lot Number: OV-MA11

Shipping conditions: Dry ice

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

Species: Measles  
Parental virus strain: Edmonston  
Transgene: Firefly luciferase (Fluc)  
Production Cell Line: Vero  
Storage Media: OptiMEM (serum-free medium)  
Titer:  $1.33 \times 10^7$  TCID<sub>50</sub> units/mL (on Vero cells)  
Propagation: Inoculate producer cells (e.g. Vero cells) at an MOI of 0.02 for 2-3 hours. Collect cells when 80-90% of the cell monolayer has formed syncytia. Lyse by 2X freeze-thaw in liquid nitrogen. Remove cell debris by centrifugation.

**Description:** Measles-Fluc is a recombinant of the live attenuated Edmonston strain of measles virus. The firefly luciferase (Fluc) cDNA is inserted as an additional transcription unit upstream of the nucleocapsid (N) gene (see diagram below). The purchased virus is ready for use in cell killing assays or may be amplified to generate additional virus stocks.

## Genome:



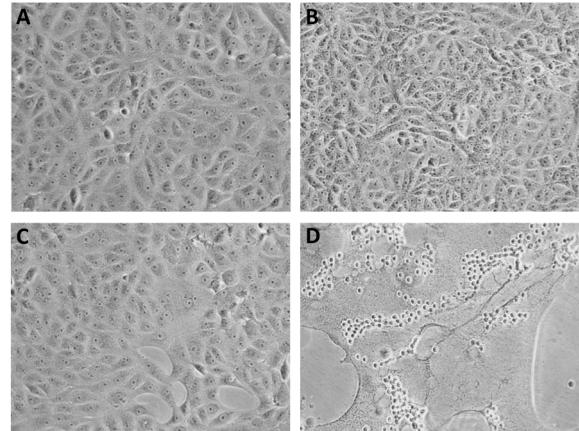
## References:

Peng et al. Human Gene Therapy (2003), 14(16): 1565-1577.  
Ong et al. Gene Therapy (2007), 14(4): 324-333.  
Msaouel et al. Prostate (2009), 69(1): 82-91.

## Certificate of Analysis

Test description	Result
Sterility	Pass QC
Cytopathic Effect	Pass QC
Luciferase Expression	Pass QC

## Testing by Imanis Life Sciences:

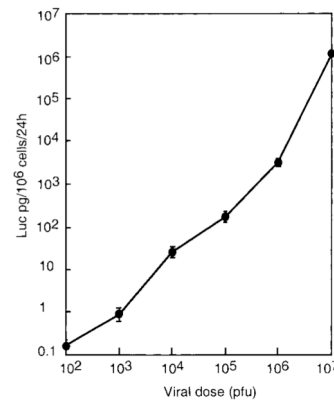


**A&B:** mock-infected Vero cells at 24 (A) and 48 (B) h.p.i.

**C&D:** Measles-Fluc-infected Vero cells (MOI 0.2) at 24 (C) and 48 (D) h.p.i.

## Characterization of Luciferase Expression:

Confirmation of luciferase expression in virus-infected cells was performed by Peng et al. (see reference).



**Luciferase Expression:** Vero cells were infected with increasing doses of Measles-Fluc. After 24 h the cells were lysed and luciferase activity assayed using a Promega kit.

**Ref:** Peng et al. Human Gene Therapy (2003), 14(16): 1565-1577. Figure 2B.

**Quality Control by:** RLV

**Quality Assurance by:** SPR

**Effective Date:** 08/17/15

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For *in vitro* use only. This certificate is a declaration of analysis at the time of manufacture.

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