

Data Sheet Firefly Luciferase Lentivirus (Hygromycin) Catalog #: 79692-H

Product Description

The Firefly Luciferase Lentivirus are replication incompetent, HIV-based, VSV-G pseudotyped lentiviral particles that are ready to be transduced into almost all types mammalian cells, including primary and non-dividing cells. These virus constitutively express firefly luciferase under a CMV promoter (Figure 1).

Application

Ideal as a positive control for transduction; useful for transduction optimization.

Formulation

The lentiviruses were produced from HEK293T cells. Supplied in medium containing 90% DMEM + 10% FBS.

Titer

Two vials (500 μ l x 2) of firefly luciferase lentivirus at a titer \ge 5 x 10⁶ TU/ml. The titer will vary with each lot; the exact value is provided with each shipment.

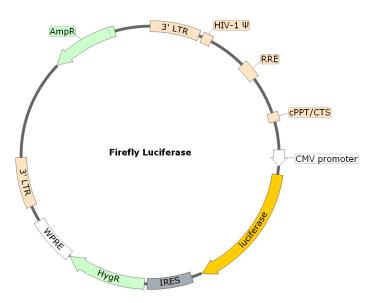


Figure 1. Schematic of the lenti-vector used to generate the firefly luciferase lentivirus

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Storage

Lentiviruses are shipped with dry ice. For long term storage, it is recommended to store the virus at -80°C. Avoid repeated freeze-thaw cycles. Titers can drop significantly with each freeze-thaw cycle.

Biosafety

None of the HIV genes (gag, pol, rev) will be expressed in the transduced cells, as they are expressed from packaging plasmids lacking the packing signal. Although the pseudotyped lentiviruses are replication-incompetent, they require the use of a Biosafety Level 2 facility. BPS recommends following all local federal, state, and institutional regulations and using all appropriate safety precautions.

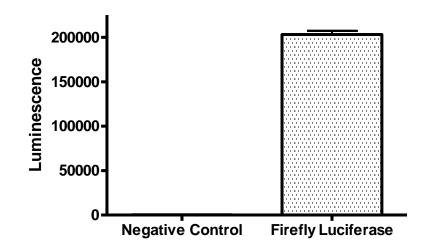


Figure 2. Luciferase activity in Jurkat cells transduced with firefly luciferase lentivirus. Approximately 20,000 Jurkat cells/well were transduced with 200,000 TU/well firefly luciferase lentivirus or expression negative control lentivirus (BPS Bioscience #79902-H) using spinoculation. After 66 hours of transduction, medium was changed to Jurkat growth medium. The luciferase assay was performed using the ONE-Step[™] Luciferase assay system (BPS Bioscience, #60690), following the recommended protocol in the user manual. The results are shown as the raw luminescence reading.

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Non-secreted Gaussia Luciferase Lentivirus	79893	500 µl x2

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