



Lenti-VSV GP Pseudovirus [Luciferase, MLV Packaging System]

Cat. No.: VRS-0124-YT5290

This product is for research use only and is not approved for use in humans or in clinical diagnosis.

Lenti-VSV GP Pseudovirus is produced by transfecting the cell line GP2-293 expressing express the MMLV Gag and Pol gene products with the pLNHX-Luciferase plasmids and a plasmid encoding the VSVG gene. Pseudovirus-containing supernatant was harvested 48 h following transfection. The supernatant was cleared of cell debris by centrifugation and filtered through a 0.45-µm-pore-size filter. The produced pseudoviruses carry VSV G proteins, which is applied for transgenic study and RNAi gene expression interference research.

Product Summary

Type	Pseudovirus
Virus Name	Vesicular stomatitis virus
Virus Packaging Protein	GP
Packaging System	MLV Packaging System
Packaging Cell	GP2-293
Reporter Gene	Luciferase
Titer	>1x 10 ⁸ virus copies/mL
Application Notes	The pseudovirus can be used for the following applications: 1. Antibody neutralization assay, Serum neutralization assay. 2. As virus standard alternative in diagnostic assay or others. 3. Drug screening including vaccine development, viral entry inhibitor development. 4. As a safe virology tool to discover the virus entry mechanisms.

Packaging, Storage & Formulations

Form	Liquid
Storage	Store at -80°C and stable for 6 months from the date of shipment, avoiding freeze/thaw cycles.
Shipping	Dry ice
Note	The pseudovirus can be used under BSL-2 conditions. Please reach out to our scientists for detailed instructions or guidelines of the pseudovirus.

Target Details

Introduction	Vesicular stomatitis virus (VSV) is a bullet-shaped, single-stranded negative sense RNA virus and belongs to the family Rhabdoviridae, genus Vesiculovirus. VSV structure is a virus. Structurally, it is composed of a lipid-glycoprotein envelope surrounding the nucleoprotein core. The envelope is composed of glycoprotein (G) protein and matrix (M) protein. G protein mediates viral attachment to an LDL receptor (LDLR) or an LDLR family member present on the host cell. M protein not only is a structural protein but likely responsible for the pathogenesis by inhibiting innate interferon responses.
Alternative Names	VSV-G; VSIVgp4 glycoprotein; G glycoprotein;VSV
Gene ID	1489834

Virus Details

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Virus Classification	Negative-sense RNA Virus
Virus Family	<i>Rhabdoviridae</i>
Virus Subfamily	<i>Alpharhabdovirinae</i> ;
Virus Genus	<i>Vesiculovirus</i>
Species	<i>Vesicular stomatitis virus</i>
Virus Abbrev	VSV
Virus Name	Vesicular stomatitis virus
Virus Alternatives Names	VSV
Genome Composition	ssRNA(-)
Related Disease	Vesicular stomatitis