

# Quantitative VSVG Plasmid DNA

Version:2.0 Latest update: 2024.02.01

## **Instruction Manual**

Cat. No. QVPD

Research Use Only. Not for Use in Diagnostic Procedures.

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## **1. Product Information**

#### Introduction

The Quantitative VSVG Plasmid DNA contains pure, quantified genomic DNA of the VSV-G plasmid, an essential component for lentiviral envelope genes. It is intended as a standard for testing the Limit of Detection (LOD) of Replication Competent Lentivirus (RCL) detection kits through serial dilution. The solutions resulting from the dilution of this product can be employed to assess the sensitivity of kits for detecting RCL DNA and also function as controls for tests requiring the detection of RCL DNA.

Supplied at a final concentration of 1×10<sup>5</sup> copies/µl, determined through fluorescence analysis and digital PCR. To evaluate the performance of quantified DNA, utilize Real-Time PCR with the ViralQSearch<sup>™</sup> Plus RCL qPCR Detection kit.

## 2. Contents and Storage

#### **Materials Provided**

Label	Cat. No.	Amount
VSVG Plasmid DNA (100,000 copies/µl)	QVPD	100 µl

#### Storage

Upon receipt, store at -20°C.

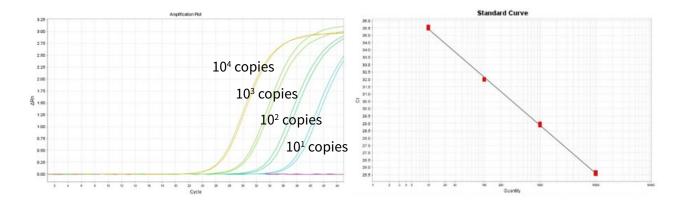
[Note]

- 1) Repeat thawing reduces quality of product.
- 2) If frequent freeze and thaw is needed, aliquot the products and use in order.
- 3) Check the label on the product for details

## 3. Results

#### **Amplification Result**

Tested with ViralQSearch<sup>™</sup> Plus RCL qPCR Detection kit (Cat. No. RCLP-100, CellSafe)



#### Absolute Quantification with dPCR

QVPD was quantified using the single copy gene in digital PCR to determine the copy number of VSV-G plasmid.

