

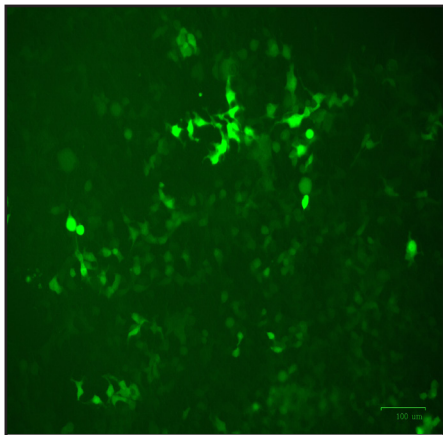
## Certificate of Analysis

### Product Description

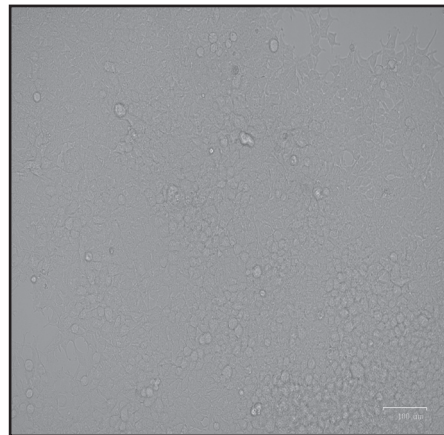
Product Name	Scrambled siRNA GFP Lentivirus
Cat Number	LVP015-G
Lot Number	KH815729
Quantity	2 x 200µl
Fluorescence Tag	GFP
Viral Titer	2.25 x 10 <sup>8</sup> IU/ml
QC Evaluation Cell Line	293T Cells (Cat no. LV010)

### Specifications

	Test Method	Minimum	Results
Viral Titer	qRT-PCR	1.0 x 10 <sup>7</sup> IU/ml	2.25 x 10 <sup>8</sup> IU/ml
Transduction Signal	Fluorescence Evaluation	***	Positive
Sterility Test	Direct Culture	***	Not detected



Fluorescent Tag: GFP



Brightfield Image

Transduction Duration: 72 Hours

MOI: 12.5

Multiplicity of Infection (MOI) Calculation Method:

$$\text{MOI} = \frac{\text{Product Titer (IU/ml)} \times \text{Virus Volume (ml)}}{\text{Total Cell Number}}$$

This product is for research use only and is not intended for therapeutic or diagnostic applications.  
Please contact a technical service representative for more information.

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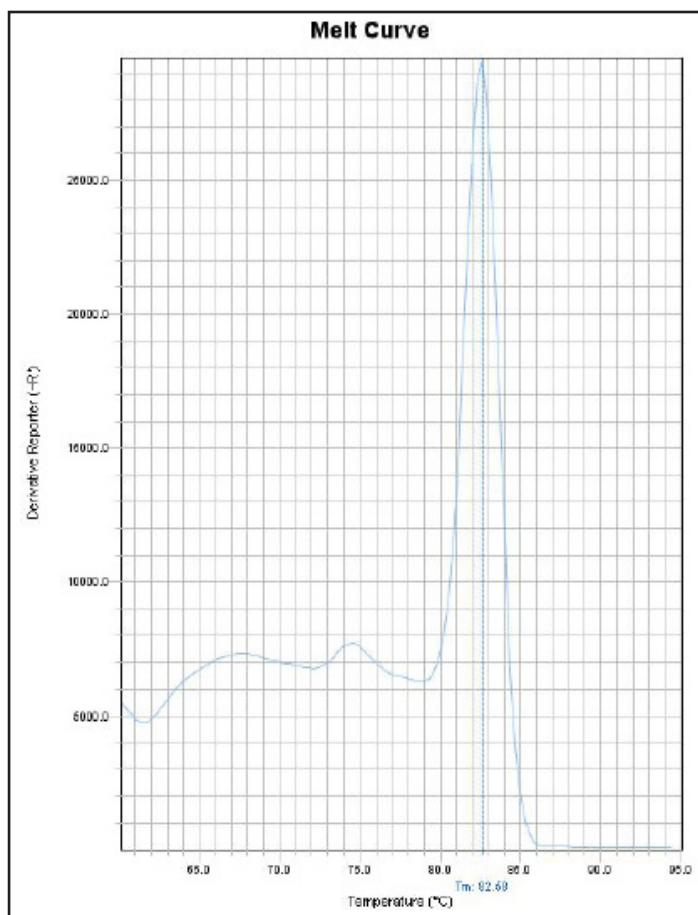
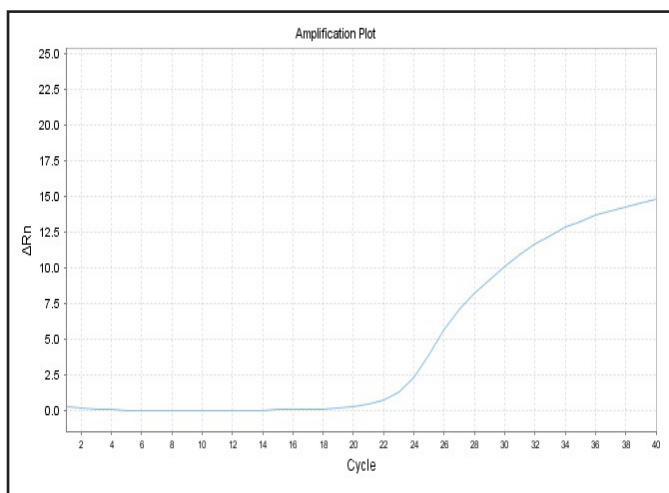
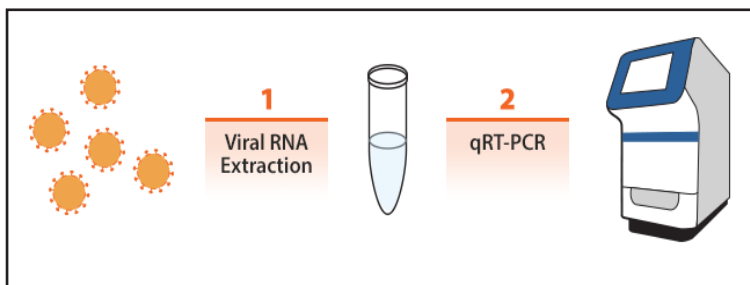
# Lentivirus qRT-PCR Titer Report

Cat No. LVP015-G

Scrambled siRNA GFP Lentivirus

( 01/03/2017)

Viral RNA was extracted from lentivirus and cDNA was generated from RT. The viral RNA samples (diluted 100 folds) and the lentiviral RNA STD1 and STD2 are subjected to qRT-PCR to determine threshold cycle (Ct) values. Real-time PCR was processed using lentivirus specific primers. With Ct values, the titers of lentivirus were determined by our lenti-titer calculator.



Block Type	48well
Chemistry	SYBR_GREEN
Experiment Run End Time	01/03/2017 13:20
Instrument Type	ABI Step one
Passive Reference	ROX

Sample Name	Scrambled siRNA GFP Lentivirus	STD1	STD2
C <sub>T</sub> Value	22.27	16.71	20.44

Titer of Scrambled siRNA GFP Lentivirus =

$$\left[ 5 \times 10^7 / 2^{3(C_{Tx} - C_{t1}) / (C_{t2} - C_{t1})} \right] \times 100 = 2.25 \times 10^8 \text{ IU/ml}$$

C<sub>tx</sub>: Ct value of sample, C<sub>t1</sub>: Ct value of STD1, C<sub>t2</sub>: Ct value of STD2.

(Note: the titer equation was multiplied by 100 to account for the dilution of the lentivirus sample)