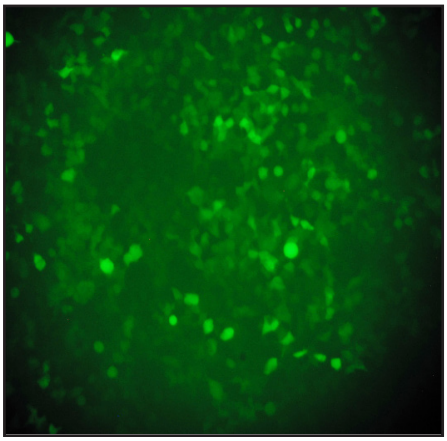
Certificate of Analysis

Product Description

Product Name	Lenti-Scramble siRNA-GFP Virus
Cat Number	LVP015-G
Lot Number	VH8046
Quantity	2 x 200 µl
Fluorescence Tag	GFP
Viral Titer	3.55 x 10^7 IU/ml
QC Evaluation Cell Line	293T Cells (Cat no. LV010)

Specifications

	Test Method	Minimum	Results
Viral Titer	qRT-PCR	1.0 x 10^7 IU/ml	3.55 x 10^7 IU/ml
Transduction Signal	Fluorescence Evaluation	***	Positive
Sterility Test	Direct Culture	***	Not detected



Transduction Duration: 72 Hours

MOI: 10

Multiplicity of Infection (MOI) Calculation Method:

$$\text{MOI} = \frac{\text{Product Titer x Infection Sample Volume}}{\text{Final Volume}} \times \frac{1}{\text{Total Cell Number}}$$

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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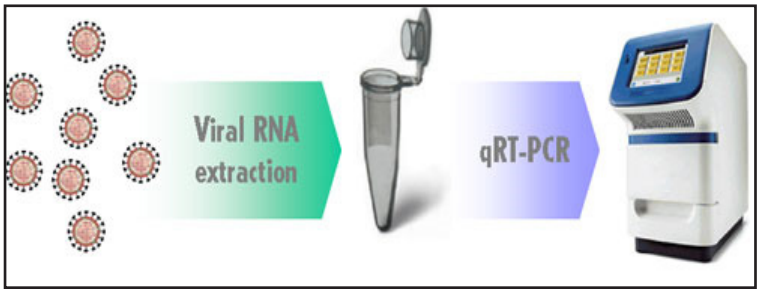
Lentivirus qRT-PCR titer Report

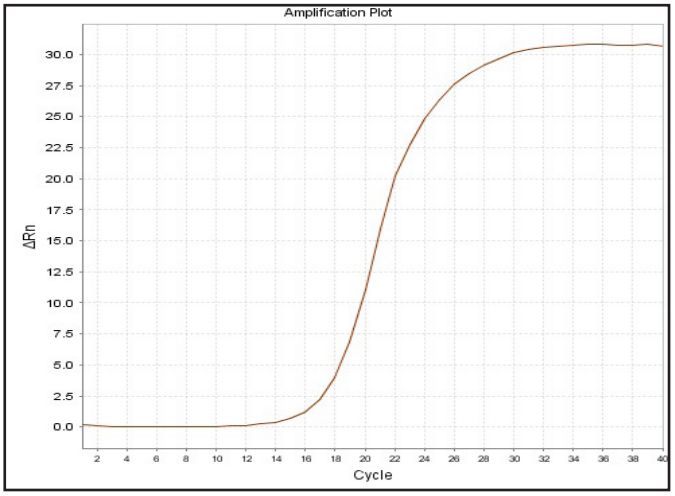
Cat No. LVP015-G

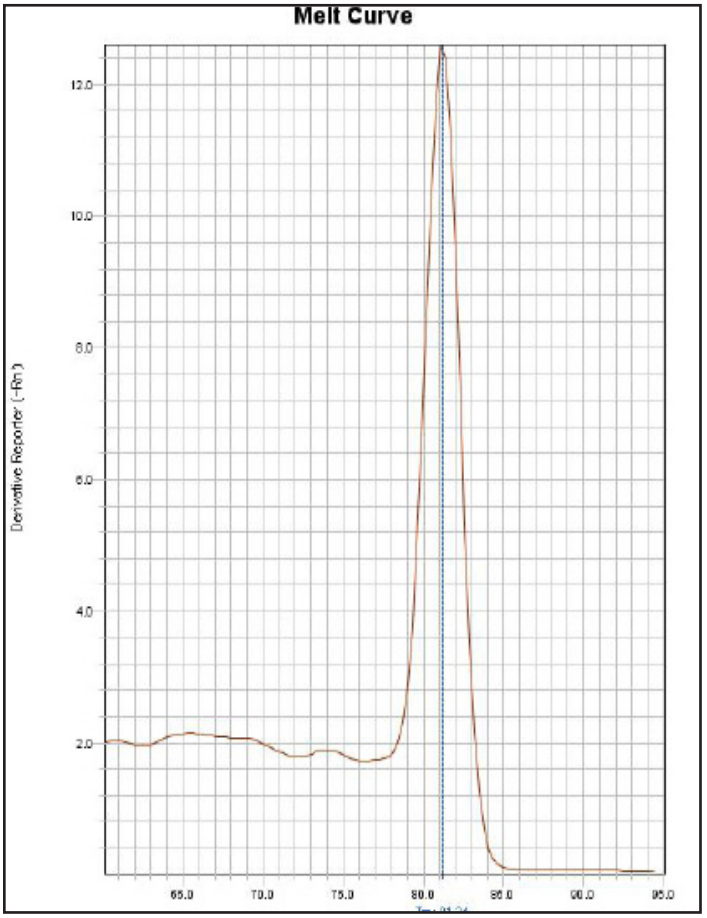
Lenti-Scramble siRNA-GFP Virus

(01/19/2015)

Viral RNA was extracted from lentivirus and cDNA was generated from RT. The viral RNA samples 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	01/19/2015 13:42
Instrument Type	ABI Step one
Passive Reference	ROX

Sample Name	**Lenti-Scramble siRNA-GFP Virus**	**STD1**	**STD2**
CT Value	16.72	15.79	21.49

Titer of **Lenti-Scramble siRNA-GFP Virus** = $[5x10^7/2^{3(Ctx-Ct1)/(Ct2-Ct1)}]$ =

3.55×10^7 IU/ml

Ctx: Ct value of sample, Ct1: Ct value of STD1, Ct2: Ct value of STD2.