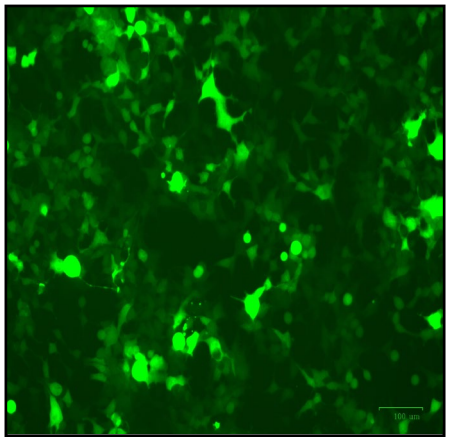
Certificate of Analysis

Product Description

Product Name	Scrambled siRNA GFP Lentivirus
Cat Number	LVP015-G
Lot Number	KL8150
Quantity	2 x 200 µl
Fluorescence Tag	GFP
Viral Titer	2.09 x 10^8 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	2.09 x 10^8 IU/ml
Transduction Signal	Fluorescence Evaluation	***	Positive
Sterility Test	Direct Culture	***	Not detected



Fluorescent Tag: GFP

Brightfield Image

Transduction Duration: 72 Hours

MOI: 4.18

Multiplicity of Infection (MOI) Calculation Method:

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

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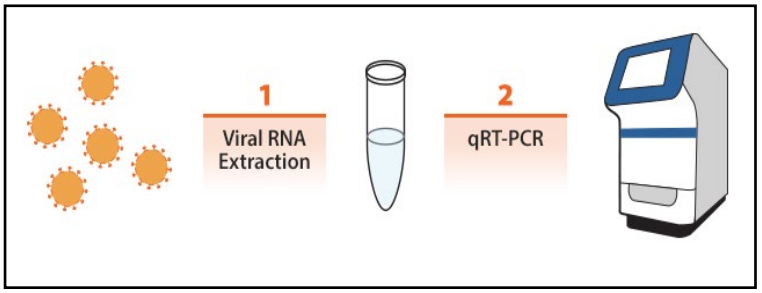
Lentivirus qRT-PCR Titer Report

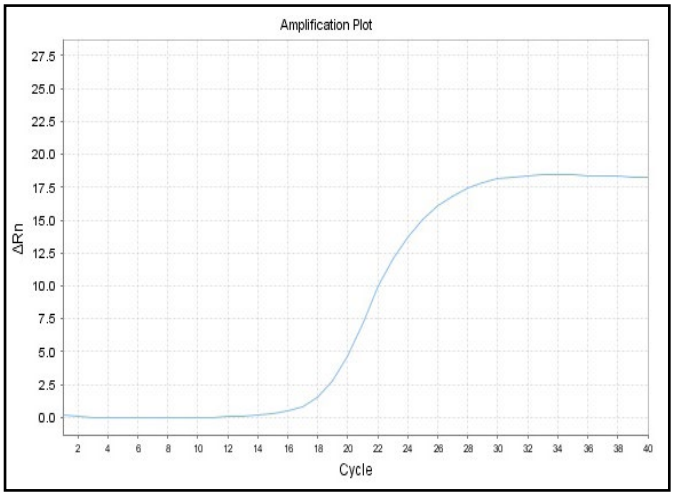
Cat No. LVP015-G

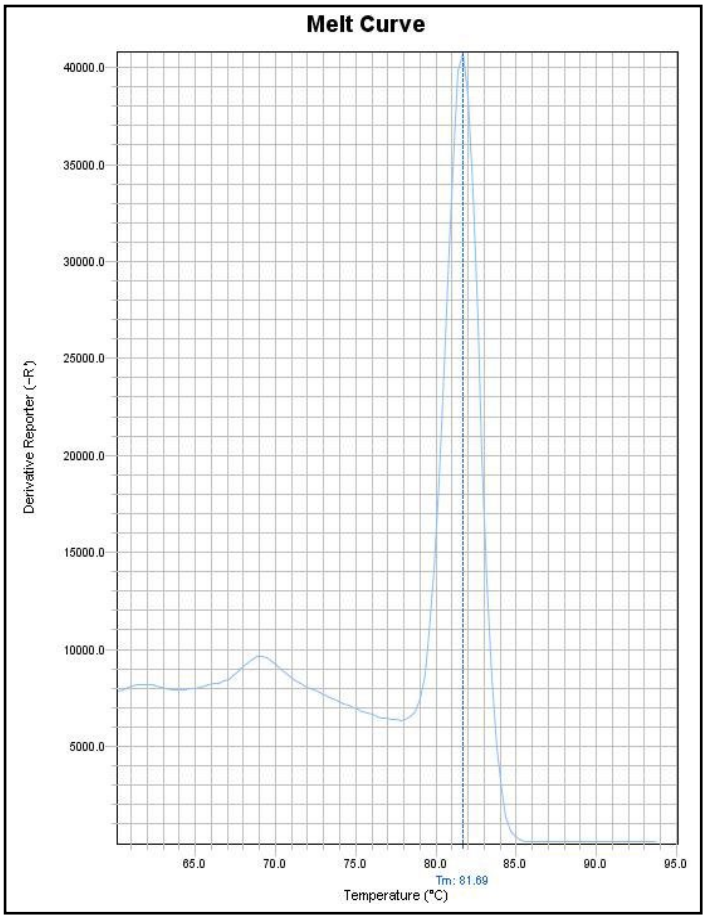
Scrambled siRNA GFP Lentivirus

(05/17/2016)

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	05/17/2016 13:20
Instrument Type	ABI Step one
Passive Reference	ROX

Sample Name	**Scrambled siRNA GFP Lentivirus**	**STD1**	**STD2**
Ct Value	20.31	15.23	18.56

Titer of **Scrambled siRNA GFP Lentivirus** =

$[5x10^7/2^{3(Ctx-Ct1)/(Ct2-Ct1)}] \times 100 =$ **2.09×10^8 IU/ml**

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

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