

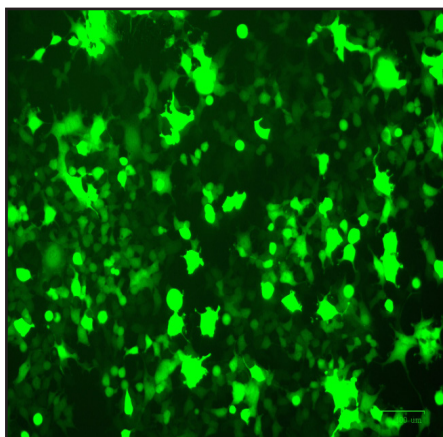
Certificate of Analysis

Product Description

Product Name	Lenti-III-mir-GFP Control Virus
Cat Number	m002
Lot Number	KH8054
Quantity	2 x 50µl
Fluorescence Tag	GFP
Viral Titer	1.21 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	1.21 x 10 ⁷ IU/ml
Transduction Efficiency	Fluorescence Evaluation	>60%	80%
Sterility Test	Direct Culture	***	Not detected



Transduction Duration: 72 Hours

MOI: 1

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.

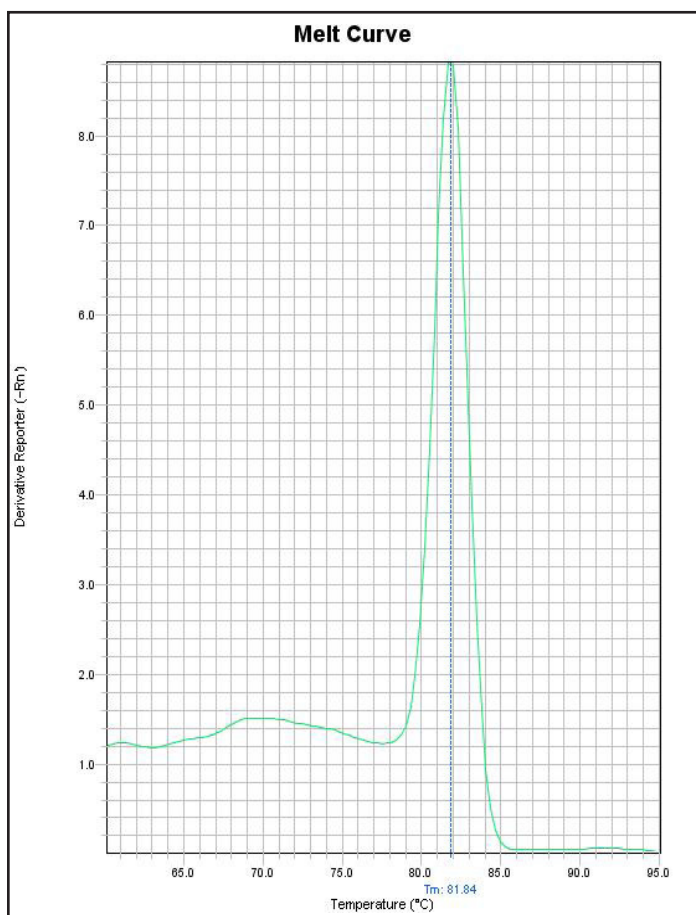
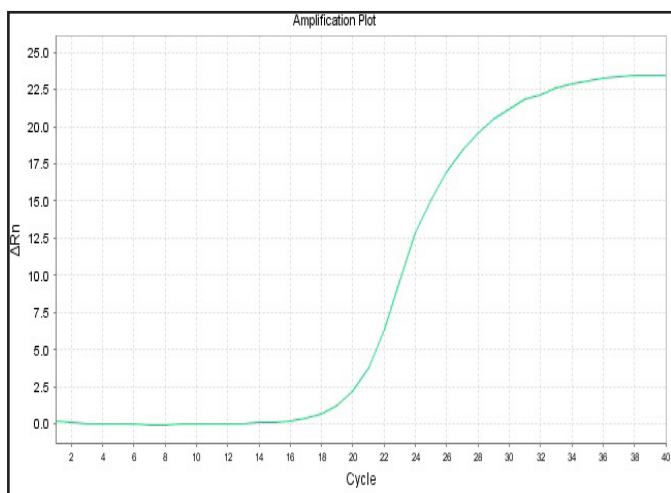
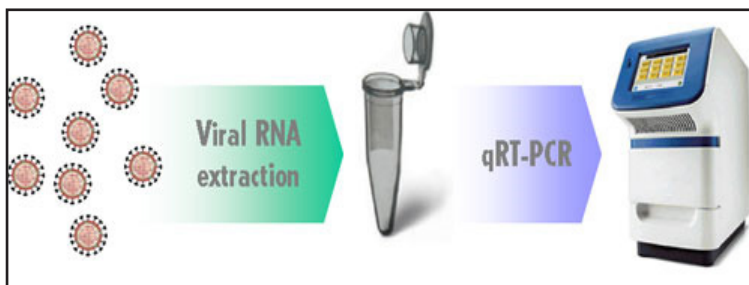
Lentivirus qRT-PCR titer Report

Cat No. m002

Lenti-III-mir-GFP Control Virus

(09/14/2015)

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	09/14/2015 13:20
Instrument Type	ABI Step one
Passive Reference	ROX

Sample Name	Lenti-III-mir-GFP Control Virus	STD1	STD2
Ct Value	20.13	17.73	21.23

$$\text{Titer of Lenti-III-mir-GFP Control Virus} = [5 \times 10^7 / 2^{3(\text{Ctx}-\text{Ct1}) / (\text{Ct2}-\text{Ct1})}] = 1.21 \times 10^7 \text{ IU/ml}$$

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