Certificate of Analysis

Product Description

Product Name	Cas9 Nuclease Lentivirus
Cat Number	K003
Lot Number	VH7955
Quantity	200 µl
Viral Titer	1.93 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	1.93 x 10^7 IU/ml
Sterility Test	Direct Culture	***	Not detected

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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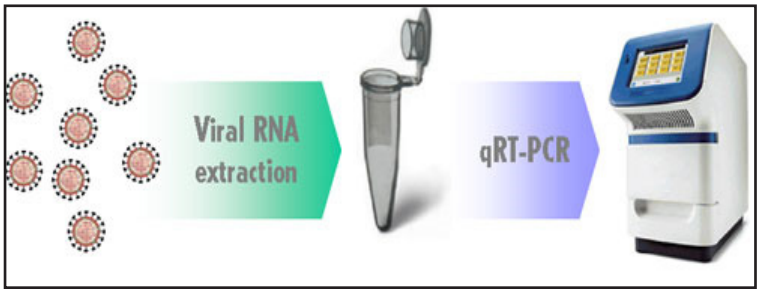
Lentivirus qRT-PCR titer Report

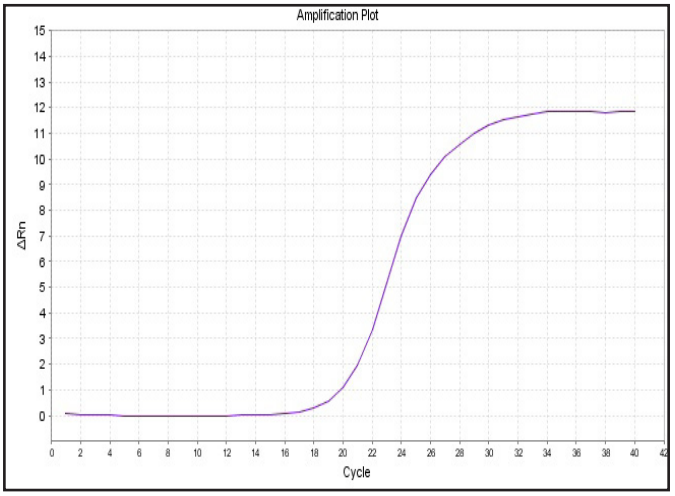
Cat No. K003

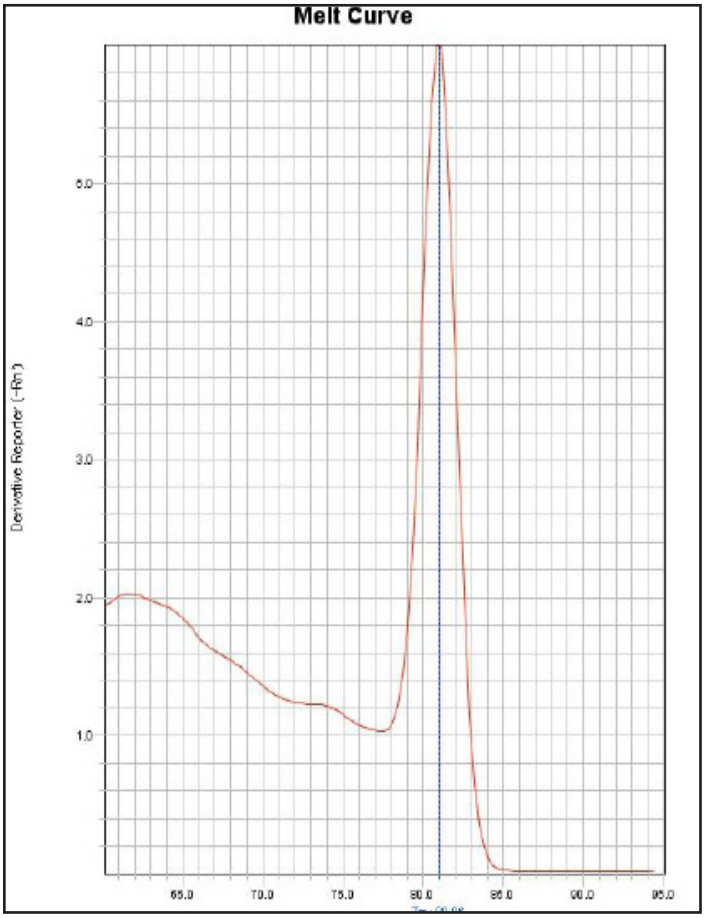
Cas9 Nuclease Lentivirus

(10/14/2014)

Viral RNA was extracted from lentivirus and cDNA was generated from RT. The viral RNA samples (diluted 10 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	10/14/2014 14:35
Instrument Type	ABI Step one
Passive Reference	ROX

Sample Name	**Cas9 Nuclease Lentivirus**	**STD1**	**STD2**
Ct Value	20.4	16.655	19.05

Titer of **Cas9 Nuclease Lentivirus** = $[5x10^7/2^{3(Ctx-Ct1)/(Ct2-Ct1)}]x10$ =

1.93×10^7 IU/ml

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

(Note: the titer equation was multiplied by 10 to account for the dilution of the lentivirus sample)