



Certificate of Analysis

Product Description

Product Name	Scrambled sgRNA CRISPR/Cas9 All-in-One Lentivirus
Cat Number	K011
Lot Number	VH8048
Quantity	1 x 300µl
Viral Titer	1.79 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	1.79 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.

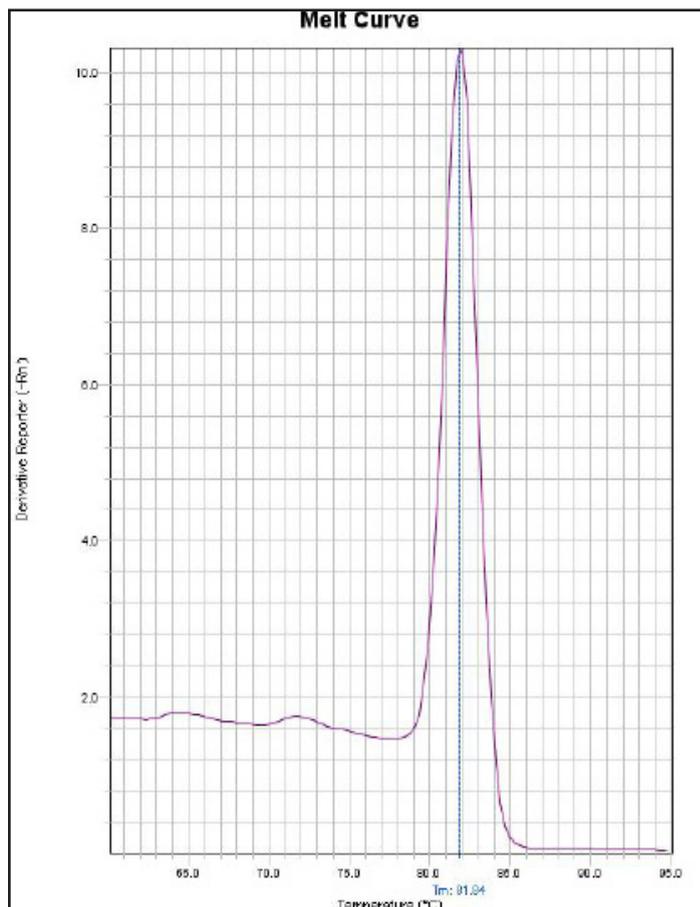
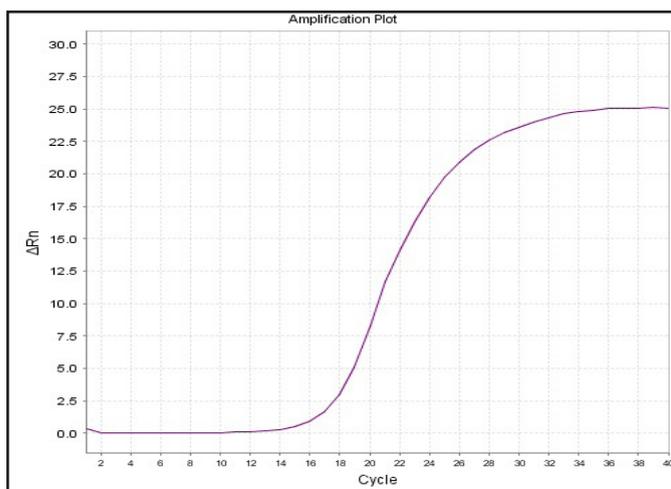
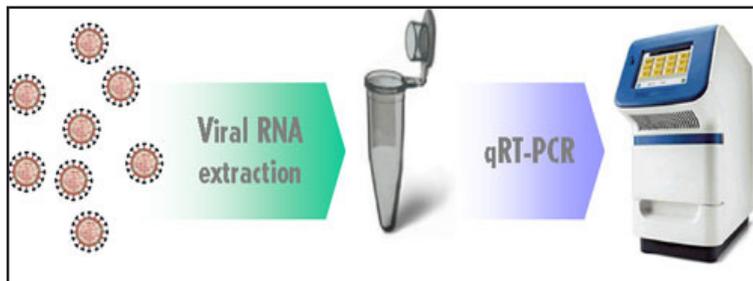
No. 8, 13520 Crestwood Place
Richmond BC, Canada V6V2G2
T e l : 6 0 4 - 2 4 7 - 2 4 1 6
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w w w . a b m G o o d . c o m

Lentivirus qRT-PCR Titer Report

Cat No. K011

Scrambled sgRNA CRISPR/Cas9 All-in-One Lentivirus
(04/06/2015)

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	04/06/2015 13:40
Instrument Type	ABI Step one
Passive Reference	ROX

Sample Name	Scrambled sgRNA CRISPR/Cas9 All-in-One Lentivirus	STD1	STD2
Ct Value	17.94	15.58	20.37

Titer of **Scrambled sgRNA CRISPR/Cas9 All-in-One Lentivirus**

$$= [5 \times 10^7 / 2^{3(Ct_x - Ct_1) / (Ct_2 - Ct_1)}] = 1.79 \times 10^7 \text{ IU/ml}$$

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