



Certificate of Analysis

Product Description

Product Name	High Titer Lenti-hTERT Lentivirus
Cat Number	LV615
Lot Number	VH8050
Quantity	5 x 20 μ l
Viral Titer	1.54 x 10 ⁹ IU/ml
QC Evaluation Cell Line	293T Cells (Cat no. LV010)

Specifications

	Test Method	Minimum	Results
Viral Titer	qRT-PCR	1.0 x 10 ⁹ IU/ml	1.54 x 10 ⁹ 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
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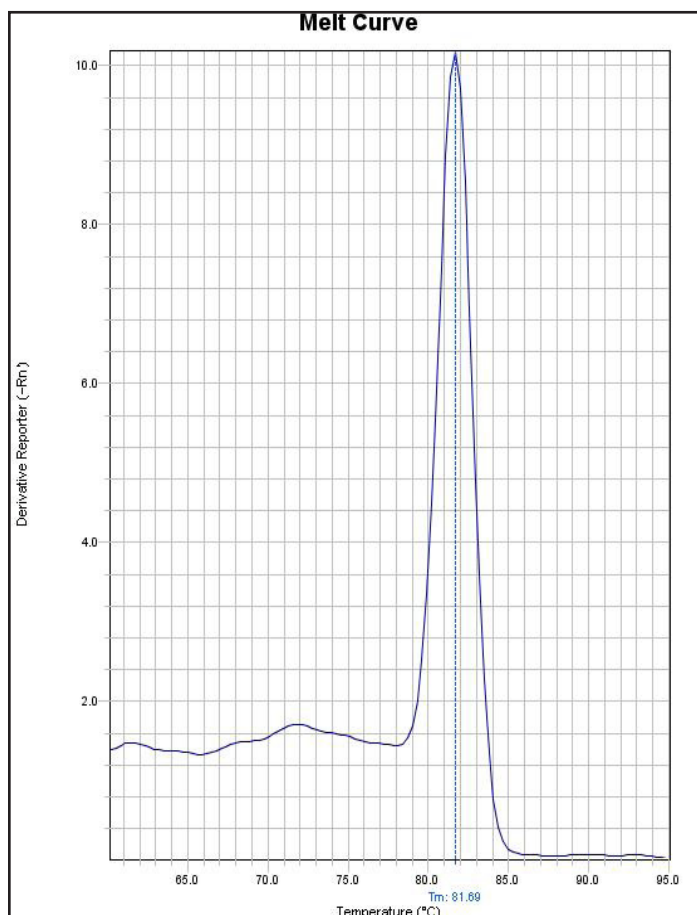
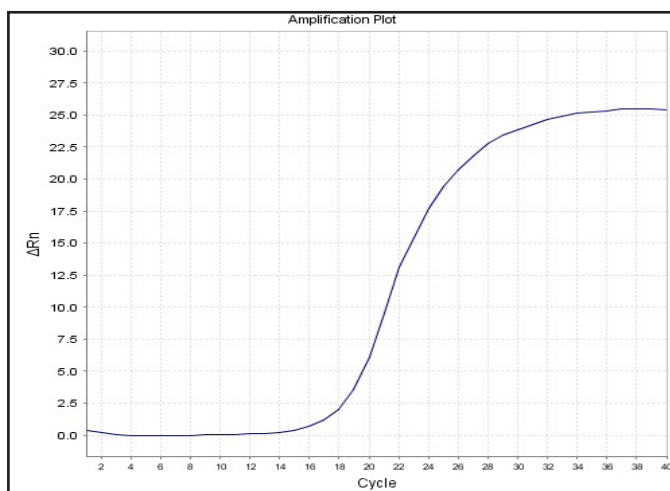
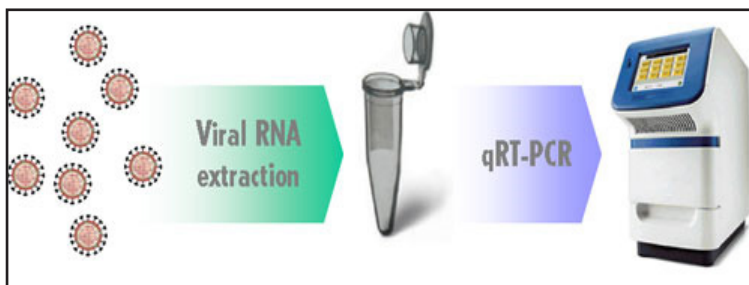
Lentivirus qRT-PCR Titer Report

Cat No. LV615

High Titer Lenti-hTERT Lentivirus

(05/04/2015)

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	05/04/2015 13:20
Instrument Type	ABI Step one
Passive Reference	ROX

Sample Name	High Titer Lenti-hTERT Lentivirus	STD1	STD2
C _T Value	18.25	15.45	20.40

$$\text{Titer of High Titer Lenti-hTERT Lentivirus} = [5 \times 10^7 / 2^{3(C_{Tx} - C_{t1}) / (C_{t2} - C_{t1})}] \times 100 = 1.54 \times 10^9 \text{ IU/ml}$$

C_{tx}: C_t value of sample, C_{t1}: C_t value of STD1, C_{t2}: C_t value of STD2

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