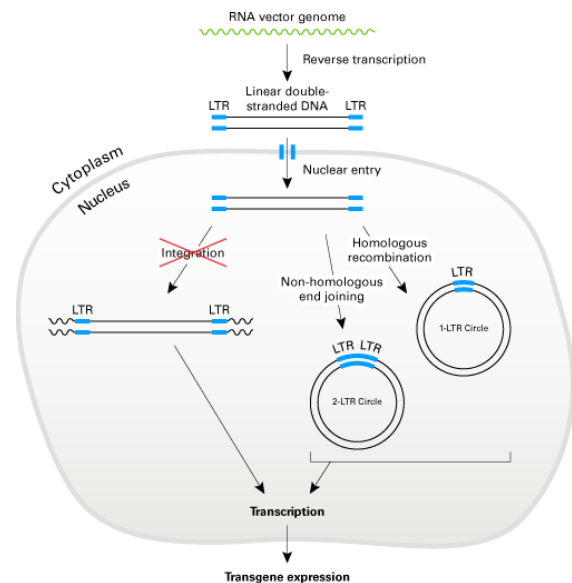
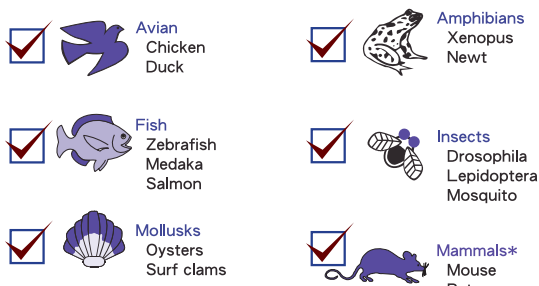


**4th
Generation**

Non-integrating Lentivirus!

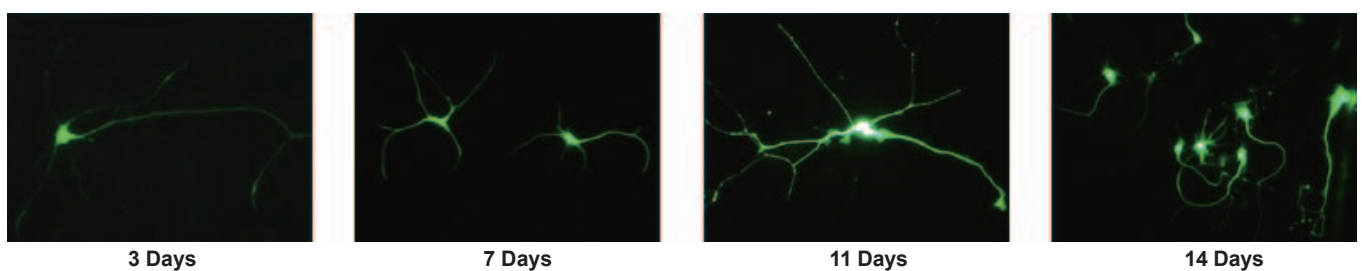
享受高效感染效率 · 用不著破壞染色體完整性！

- 安全性最高：第四代病毒包裹系統加上已經剔除 Integrase，能包裹不破壞染色體的 Integrase-Deficient Lentivirus (IDLV)，對操作者來說是最為安全的 Lentivirus。
- VSV-G Pseudotyped Lentivirus 感染細胞種類廣泛，效率最高。
- 在不分裂細胞中能以 episome 方式穩定表現。
- 在正常分裂細胞中，為短暫表現。
- VSV-G Pseudotyped virus 的 receptor 是存於廣泛細胞的膜磷脂 (包括包括 phosphatidylserine, phosphatidylinositol, & GMS gangliosida)。因此感染宿主廣泛。

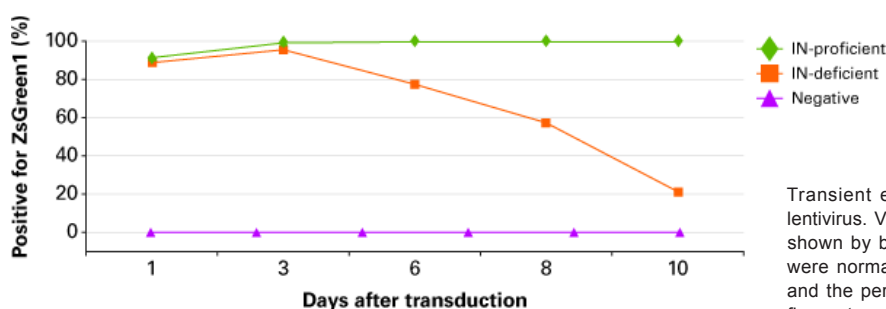


Non-integrating Lentivirus 以 Episome 方式存在細胞中

在不分裂細胞中，可長期穩定表現 (下圖為神經細胞)



在 HT1080 細胞株中，為短暫表現



Transient expression in dividing cells using integrase-deficient lentivirus. Viral titers between the two systems were comparable as shown by both qRT-PCR and flow cytometry (IFU). Viral dosages were normalized to an MOI = 20 and used to infect HT1080 cells and the percentage of ZsGreen1 positive cells was determined by flow cytometry on the days indicated. Compared to the integration-proficient lentivirus, which maintained expression over the course of the experiment in these dividing cells, the integrase-deficient lentivirus exhibited an expression pattern typical of a transient episome, with expression decreasing to near background levels after 10 days.

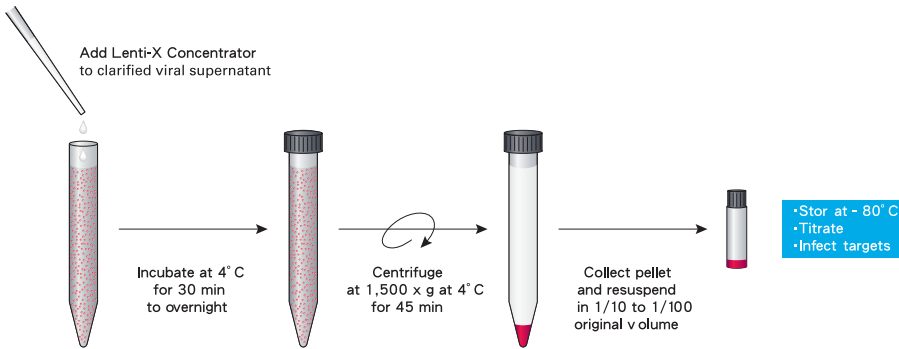
Viral sample	Copies/ml	IFU/ml
LVX ZsGreen1 (Integrating)	2.14×10^{10}	4.38×10^7
LVX ZsGreen1 (Non-integrating)	1.90×10^{10}	2.47×10^7

Lenti-X 配件系列

濃縮篇 Lenti-X™ Concentrator (#631231)

- 僅有試劑一罐，使用超簡單：只要混合、等待、離心
- 90 分內完成濃縮
- 大量小量隨你決定
- 最高可濃縮 100 倍
- 回收率達 9 成
- 一般離心機即可

Table I: Lenti-X Concentrator vs. Ultracentrifugation		
Feature	Lenti-X Concentrator	Ultracentrifugation
Easily Scalable	Yes	No
Specialized Equipment	No	Yes
Time Required	~1 hr	4 hr to overnight
Ease-of-Use	++++	+
Yield	>90%	>90%



As simple as...

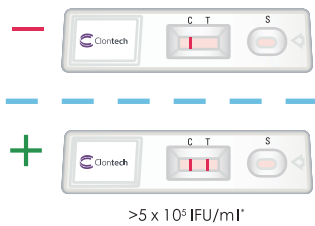
Mix with viral supernatant

Wait for 30 min

Spin for 45 min

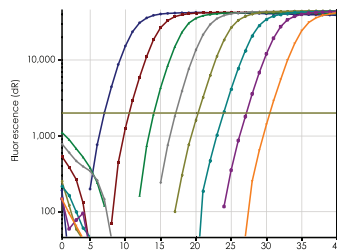
定量篇

Lenti-X GoStix (#631243S)



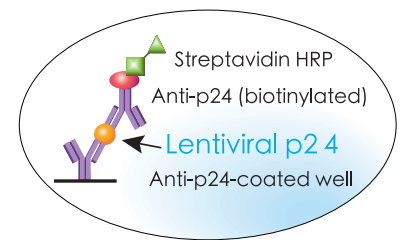
- 30 秒讓您輕鬆辨別病毒濃度
- 一次一支不到 600 元，何必為了定量再作 standard curve?
- Yes or No 的結果，何必再苦惱如何推算 titer ?

Lenti-X qRT-PCR titer kit (#631235)



- 一天完成 (1) 收病毒 (2) 測 Titer (3) 感染細胞
- 4 小時完成定量
- 適用所有 HIV 系統的病毒 (VSV-G/ Eco)
- qRT-PCR 方式定量 Viral RNA 的 genome 數目，更少誤差，更精準

Lenti-X p24 Rapid Titer kit (#632200)



- 一天完成 (1) 收病毒 (2) 測 Titer (3) 感染細胞
- 只要 Collect supernatant → Lyse → Bind → Wash → Detect
- 適用所有 HIV-1 系統的病毒 (VSV-G/ Eco)
- p24 蛋白表現量與病毒力價成正比

超值買就送

買 #631258 Lenti-X™ HTX Packaging System (Integrase Deficient)，加贈驗毒棒 5 支！