

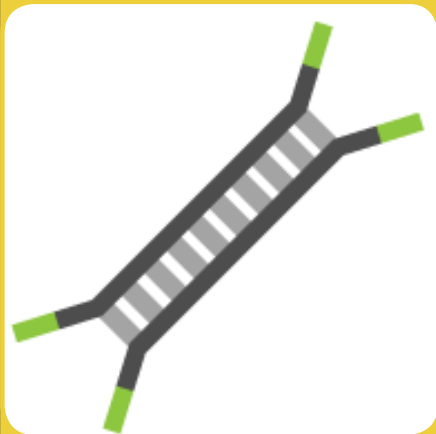
# Flash sale

LIMITED TIME ONLY!

# 好運價到

促銷活動至 2018/7 月底止

## Library Preparation



Hyper Plus / Hyer Prep /  
RNA Hyper / mRNA Hyper (24 rxns)



## Library Quantification



Uni / ABI / Roche / Biorad  
(500 x 20 ul rxns)

限時下殺 **77,000**

再送 5ml KAPA Pure Beads  
(07983271001)

最高省 **19,600**

馬上賺 **8,900**

## 再享加購優惠 一次買好買滿

KAPA Dual-Indexed Adapter Kit  
(> 96rxns x4)

加購價 **77,000**

馬上省 **20,000**

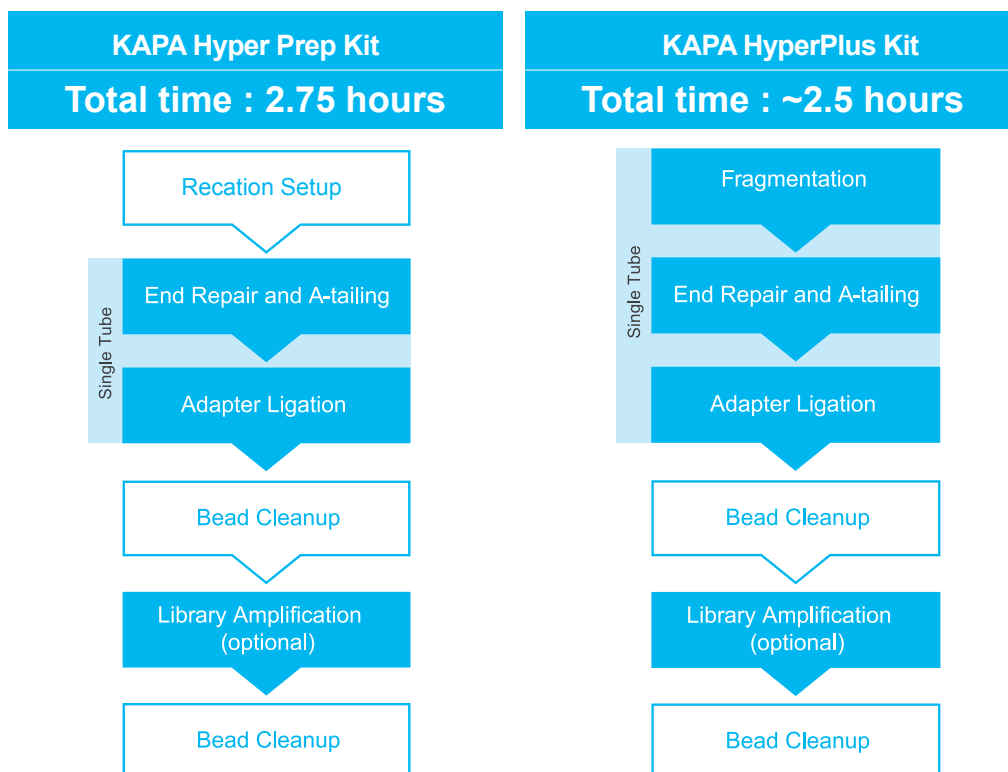
# KAPA Hyper Prep Kit & HyperPlus kit

創新單管設計，搭配優化的配方以及經由“directed evolution”技術篩選過的酵素，能夠使 adapter-ligated library 獲得高產率並且降低 amplification bias。特別是針對 FFPE 與 low-input 樣本可以獲得更高的 library 多樣性、降低 duplication rate 與更均勻的覆蓋率

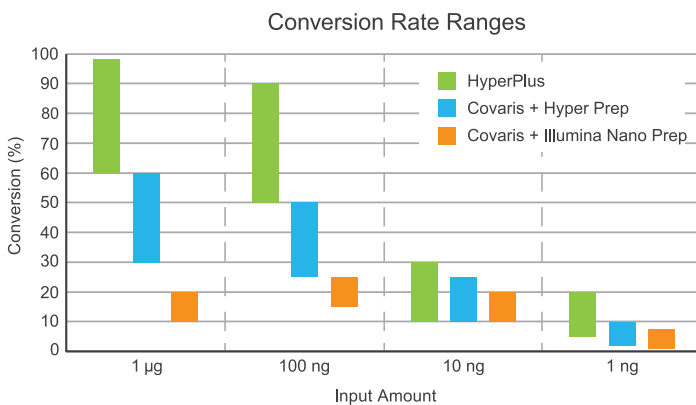
快速、簡便的流程，輕鬆完成 library 構築

- **One-tube** 流程縮短操作時間
- **PCR-free** 流程 <2 小時，含 PCR 的流程 <3 小時即可完成
- 更少的處理步驟可改善一致性與再現性

置備流程



不同廠牌的 conversion rate 比較



**KAPA HyperPlus Kit 在 high-input DNA 以及 low-input DNA 均可獲得較高的 conversion rate**

conversion rate 是指有多少百分比的 input DNA 轉化成可定序的 library。adapter-ligated library 是 構築 library 的重要指標，其影響 library 的多樣性與品質

Cat No	Product	Size
07962347001	KAPA Hyper Prep Kit	24 rxns
07962401001	KAPA HyperPlus Kit	24 rxns
08278555702	KAPA Dual-Indexed Adapter Kit	15 µM
07983271001	KAPA Pure Beads	5 ml

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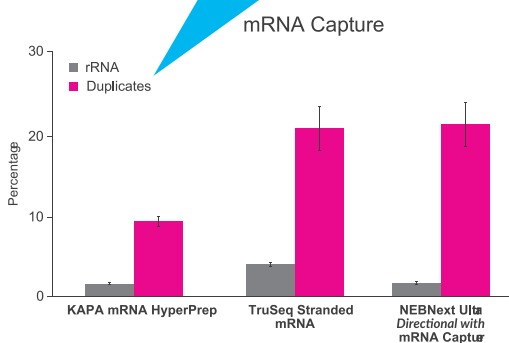
# KAPA RNA Hyper Kits 系列

單管設計，利用嶄新的技術  
減少構築 RNA library 步驟，  
只需一天 (包含 RNA enrichment)  
即可完成高品質的 RNA library 構築

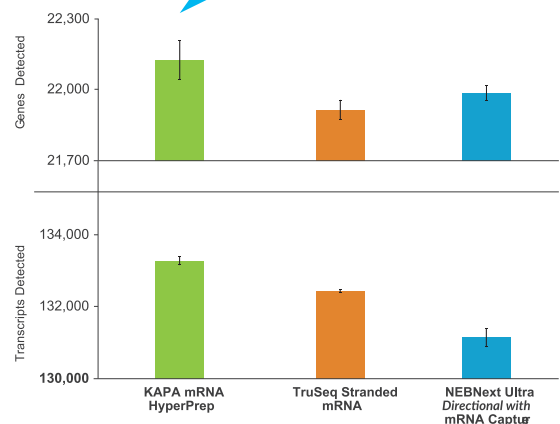
- **One-tube** 流程縮短實際操作時間
- 從 **input RNA** 開始約 **4 小時** 可完成 **library** 構築
- 保持超過 **99%** 的 **strand** 特異性
- 針對 **low-input** 與 **degraded** 樣本有較高的成功率
- 搭配自動化機器可獲得高通量與一致性的結果

多種試劑選擇	No RNA Enrichment	mRNA Capture
<b>KAPA Product</b>	<b>KAPA RNA HyperPrep Kit</b>	<b>KAPA mRNA HyperPrep Kit</b>
<b>Library Prep Workflow time</b>	4 hr	5.5 hr
<b>Input Amount</b>	1 – 100 ng into library prep	50 ng – 1µg into mRNA capture
<b>Sample Type</b>	High-quality Total RNA	High-quality Total RNA
	Degraded or FFPE Total RNA	
	Enriched RNA	
<b>Species</b>	Eukaryotic (Animal, Plant, etc.)	Eukaryotic (Animal, Plant, etc.)
	Prokaryotic (Bacterial, etc.)	
<b>Differentiating Applications</b>	Targeted RNA-Seq	mRNA-Seq
	Whole Transcriptome	
<b>Shared Applications</b>	Gene Expression Analysis; Detection of Gene Fusions, Isoforms, and other Structural Variants; Novel Transcript Identification; SNV Discovery	
<b>Strand-specific</b>	Yes	
<b>Automation friendly</b>	Yes	

較少的 PCR duplicate 可減少 reads 浪費



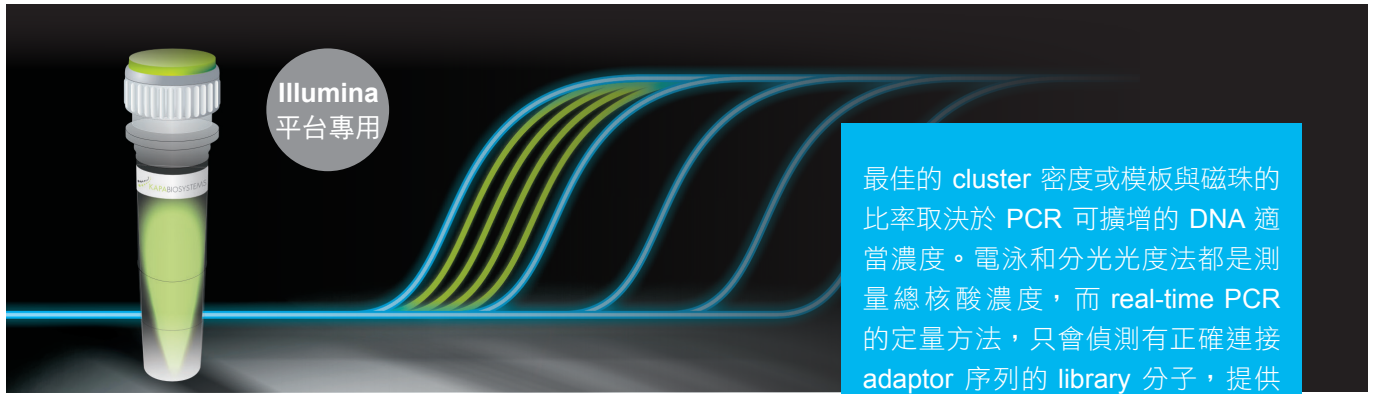
比它牌可鑑定更多的基因與 transcripts



Cat No	Product	Size
08098093702	KAPA RNA HyperPrep Kit	24 rxns
08098115702	KAPA mRNA HyperPrep Kit	24 rxns
08278555702	KAPA Dual-Indexed Adapter Kit	15 µM
07983271001	KAPA Pure Beads	5 ml

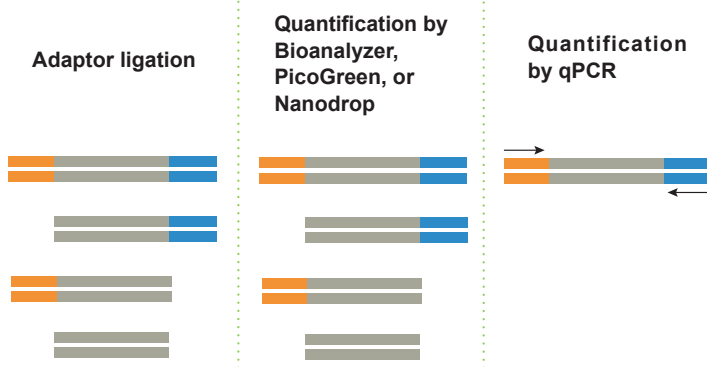
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# KAPA Library Quantification Kits



最佳的 cluster 密度或模板與磁珠的比率取決於 PCR 可擴增的 DNA 適當濃度。電泳和分光光度法都是測量總核酸濃度，而 real-time PCR 的定量方法，只會偵測有正確連接 adaptor 序列的 library 分子，提供精準的定量結果。

Real-time PCR 定量方式，完整連接 adaptor 的 libraries 分子



The ligation of adaptor sequences (orange and blue) to library DNA molecules (grey) results in a mixed population of molecules without the correct adaptor configuration. Electrophoresis and spectrophotometry measure total nucleic acid concentrations, whereas optimal cluster density or template-to-bead ratio depends on the appropriate concentration of PCR-amplifiable DNA molecules.

最精準的定量可使 cluster 達到最佳密度



精準定量

使 cluster 的大小與密度達到最佳並發揮儀器最佳效能



高估 cluster 效果

產生的 cluster 過少，無法完全發揮儀器使用效能

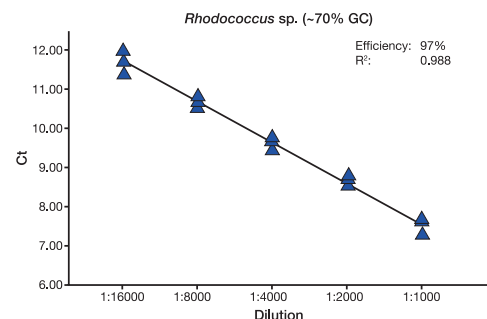


低估 cluster 效果

產生太多、太小的 cluster，使區分不明顯，檢測困難

絕佳擴增效率，精準定量各種 GC 含量的 libraries

The KAPA Library Quantification Kit was used to determine the concentration of two Illumina GA libraries with unusual GC content (*Rhodococcus* sp.; ~70% GC - shown above, *Staphylococcus* sp.; ~35% GC - not shown). Both libraries amplified with efficiency >95%. Two-fold dilution series (1:1000 through 1:16000) were prepared in triplicate, and qPCR performed according to the recommendations in the product technical data sheet.



Cat No.	Product	Size
07960140001	Complete kit (Universal)	500 x 20 $\mu$ l rxns
07960204001	Complete kit (ABI Prism <sup>®</sup> )	500 x 20 $\mu$ l rxns
07960255001	Complete kit (Bio-Rad <sup>®</sup> )	500 x 20 $\mu$ l rxns
07960298001	Complete kit (optimized for Roche <sup>®</sup> LightCycler 480)	500 x 20 $\mu$ l rxns
07960336001	Complete Kit (ROX Low)	500 x 20 $\mu$ l rxns

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