

Roche Sample Prep Solutions for RNA-Seq

Sequence what matters



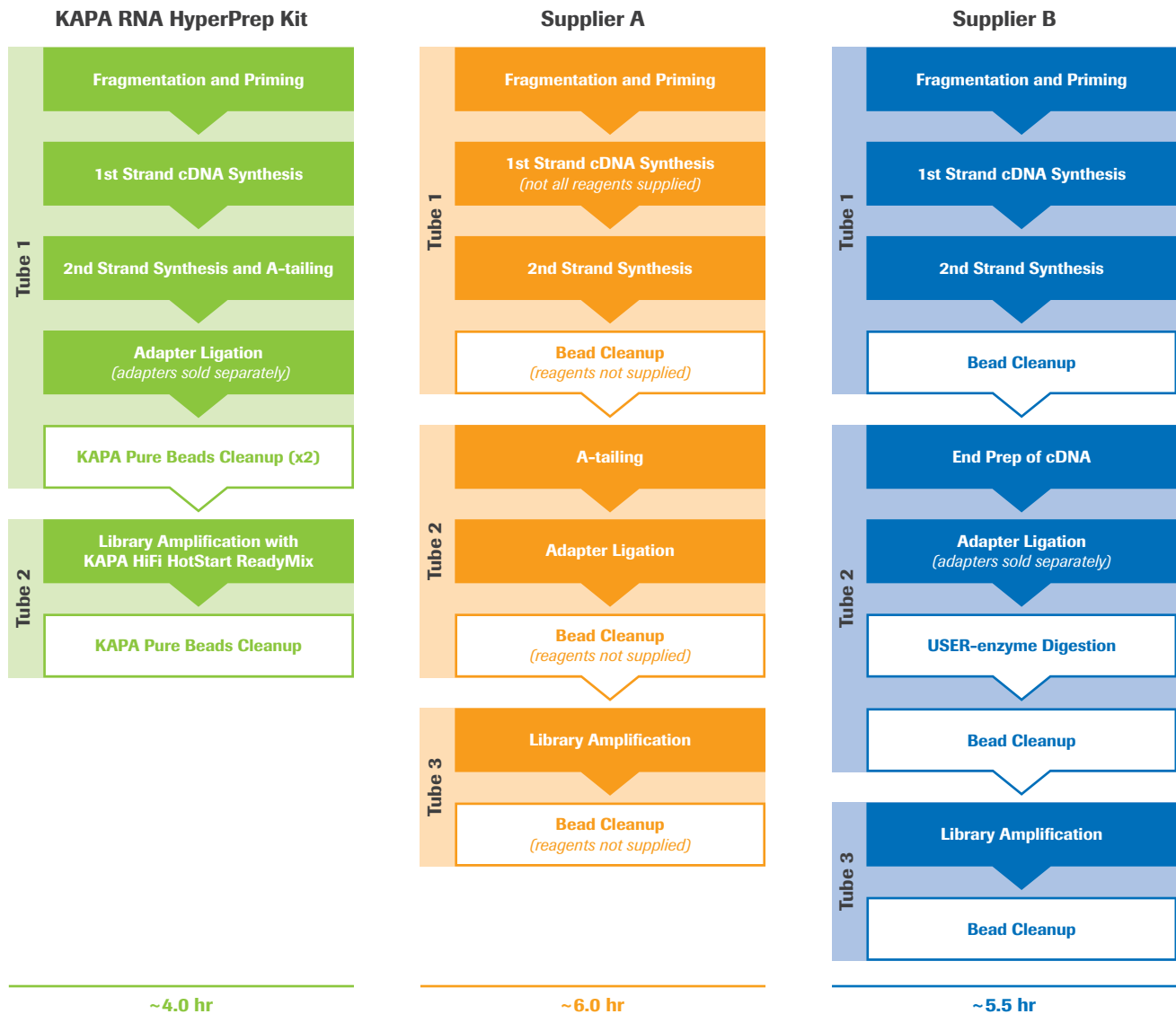
As the first step in the NGS workflow continuum, sample prep holds the key to unlocking the potential of every sample. Because NGS samples are precious, the best methods are needed to process more samples successfully, obtain more information from every sample, and optimize your sequencing resources. Roche Sample Prep Solutions offer workflows for different sample types and RNA-Seq applications that are **proven, simple and complete**.

Benefits:

- Single-day library construction, inclusive of RNA enrichment
- Streamlined, automation-friendly RNA enrichment and library prep protocols
- Robust and reliable performance across different sample types and input amounts
- Higher success rates with lower input and degraded samples
- Integrated service and support for the entire workflow from RNA to sequencing-ready library

Single-day, single-tube library prep

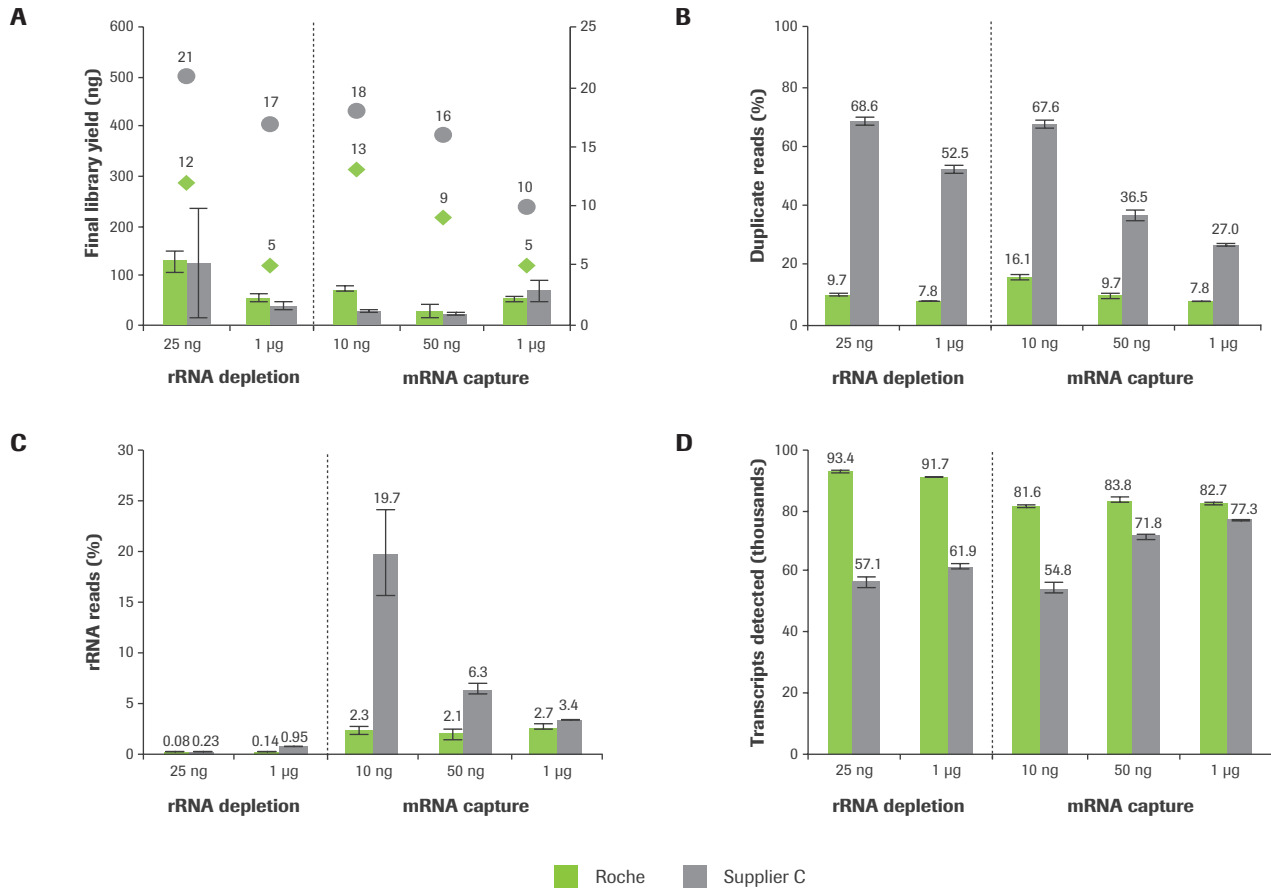
- Reduce hands-on and overall turnaround time with fewer enzymatic and cleanup steps
- Produce strand-specific libraries from input RNA in approximately 4 hours
- Complete the entire workflow, inclusive of upfront RNA enrichment, in a standard work day
- Achieve high throughput and consistency with automation-friendly workflows



Streamlined, strand-specific library construction. The novel chemistry employed in KAPA RNA HyperPrep Kits allows for fewer enzymatic and cleanup steps, which reduces hands-on and overall library prep time. RNA depletion with KAPA RiboErase (HMR) or KAPA RiboErase (HMR) Globin Kits adds approximately 2.5 hours to the overall workflow time, whereas mRNA capture adds approximately 1.5 hours. The entire workflow, from input RNA to sequencing-ready library, can easily be completed in a standard workday. All KAPA RNA HyperPrep library construction workflows are automation-friendly.

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- Effective RNA enrichment (rRNA depletion or mRNA capture), combined with highly efficient library construction, reduces the number of reads associated with unwanted content and PCR duplicates
- More unique transcripts and genes are detected from a fixed amount of sequencing



Highly efficient library prep enables better utilization of sequencing resources. KAPA RNA HyperPrep Kits (green) enable highly efficient conversion of input RNA (enriched by rRNA depletion or mRNA capture) to adapter-ligated library. Higher final library yields (**A**) are therefore achieved with fewer cycles of amplification, as compared to using the workflow from a different supplier (gray). Because fewer reads are associated with unwanted content (PCR duplicates; **B**); and residual rRNA (**C**), a bigger proportion of sequencing data is associated with transcripts of interest (**D**).

Libraries were prepared from different inputs of Universal Human Reference (UHR) RNA (Agilent Technologies), as indicated on the x-axis of each graph, using either an rRNA depletion workflow (left) or mRNA capture (right) prior to library construction. The lowest input for the KAPA mRNA capture workflows (10 ng) is five-fold lower than the recommended minimum input for the KAPA mRNA capture workflows. Paired-end (2 x 100 bp) sequencing was performed on an Illumina® HiSeq® 2500 instrument. Data were sub-sampled to 15 million reads per sample for analysis. Each bar represents the average of three technical replicates. Transcript abundance was quantified using Kallisto.

Process more samples successfully, get more information from every sample and optimize your sequencing resources with solutions that are **Proven, Simple** and **Complete**.

KAPA RNA HyperPrep Kits

Cat. No	KAPA Code	Description	Kit Size
8098093702	KK8540	KAPA RNA HyperPrep Kit	24 rxn
8098107702	KK8541	KAPA RNA HyperPrep Kit	96 rxn
8098115702	KK8580	KAPA mRNA HyperPrep Kit	24 rxn
8098123702	KK8581	KAPA mRNA HyperPrep Kit	96 rxn
8098131702	KK8560	KAPA RNA HyperPrep Kit with RiboErase (HMR)	24 rxn
8098140702	KK8561	KAPA RNA HyperPrep Kit with RiboErase (HMR)	96 rxn

KAPA Adapter Kits

Cat. No	KAPA Code	Description	Kit Size
8861862001	KK8726	KAPA Unique Dual-Indexed Adapters 15uM	96 adapters x 20 µL each
8278539001	KK8721	KAPA Adapter Dilution Buffer	25 mL

대리점 연락처 (주문 및 견적)

서울/경기/강원	다인비아오(주)	031-748-8166
부산/경남/제주	오싸이언스	051-868-7416, 7465
대구/경북	(주)비에스케이바이오	053-960-0077, 053-960-0078
대전/충청	(주)바이오월드	042-867-6580, 6570
전북	유한회사 엘케이바이오텍	063-242-1603

Roche Diagnostics Korea Co., Ltd.

4F, Seokyeong Bldg., 1000-3 Daechi-dong, Gangnam-gu, Seoul 06174, Korea

sequencing.roche.com

Data on file.

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