

KAPA RNA EvoPrep Kit

Fast, Sensitive, Simple RNA Library Preparation

Stop compromising on data quality when working with limited or degraded material. The **KAPA RNA EvoPrep Kit** transforms your workflow by delivering enhanced library conversion efficiency from as little as 0.25 ng of RNA. By maximizing unique transcript detection, you gain a deeper, more accurate view of the transcriptome, ensuring that even challenging FFPET samples yield actionable insights.

- **Achieve more in less time** with a streamlined, automation-friendly, 3.5 hour workflow
- **Boost library conversion rates and final yields** with an enhanced ligation master mix, KAPA EVO T4 DNA Ligase*
- **Detect more unique transcripts** from low-input (0.25 ng) or degraded RNA (FFPET)
- **Reduce hands-on time and consumables** with stabilized ReadyMixes and fewer bead-cleanup steps

Total RNA Workflow

**3.5 hrs**

Workflow Time

**0.25 - 100 ng**

Degraded or High Quality RNA

mRNA Workflow

**4.5 hrs**

Workflow Time

**25 - 1000 ng**

High Quality Total RNA

Ribodepletion Workflow

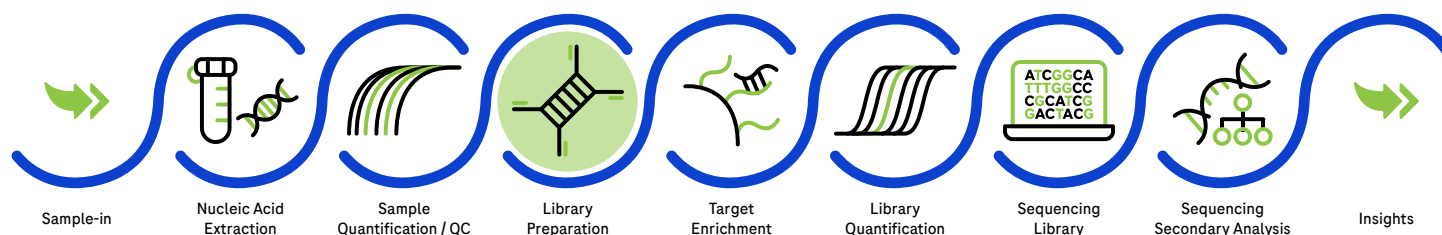
**5.5 hrs**

Workflow Time

**5 - 1000 ng**

Degraded or High Quality Total RNA

Constantly evolving, efficient, and complete solutions



*Compared to earlier KAPA RNA Library Prep chemistries

For Research Use Only. Not for use in diagnostic procedures. Data on file with Roche.

Achieve more in less time

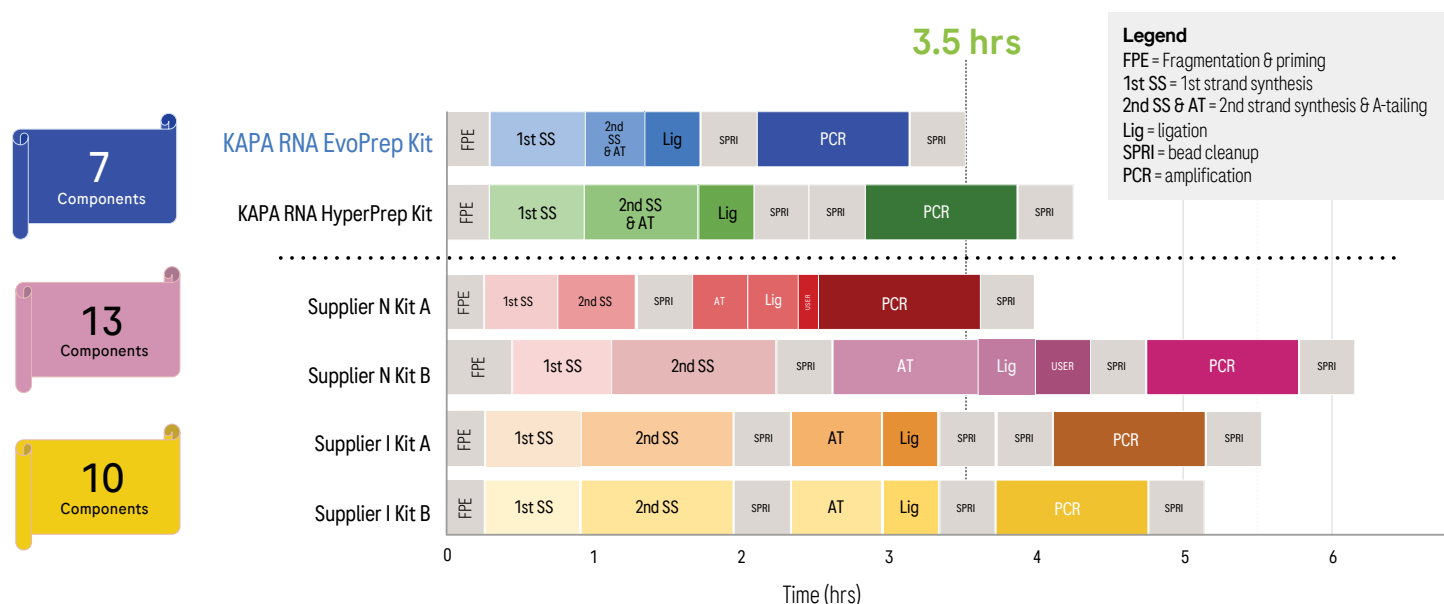


Figure 1. Comparison of RNA library preparation workflows. Workflow comparisons to other suppliers show that the innovative ReadyMix and stabilized Master Mix reagents reduce kit components to just seven, a reduction of 30% to 46% compared to other suppliers. This approach minimizes hands-on time, reduces the chance of error, simplifies automation, and streamlines RNA library preparation.

Other suppliers' websites accessed in June 2025:

<https://www.neb.com/en/products/e7760-nebnext-ultra-ii-directional-rna-library-prep-kit-for-illumina>

<https://www.illumina.com/products/by-type/sequencing-kits/library-prep-kits/stranded-total-rna-prep.html>

Boost library conversion rates and final yields

- Increase post-amplification yields with fewer PCR cycles – even from degraded FFPE samples.

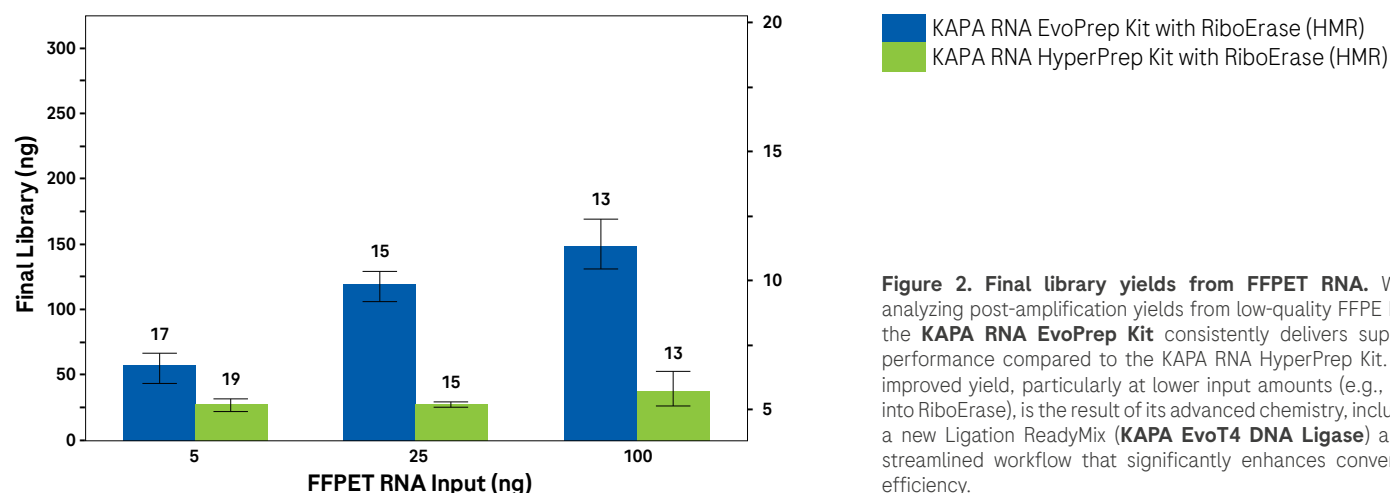


Figure 2. Final library yields from FFPE RNA. When analyzing post-amplification yields from low-quality FFPE RNA, the **KAPA RNA EvoPrep Kit** consistently delivers superior performance compared to the KAPA RNA HyperPrep Kit. This improved yield, particularly at lower input amounts (e.g., 5 ng into RiboErase), is the result of its advanced chemistry, including a new Ligation ReadyMix (**KAPA EvoT4 DNA Ligase**) and a streamlined workflow that significantly enhances conversion efficiency.

Detect more unique transcripts from low-input, low-quality FFPE RNA samples.

- Uncover the full complexity of the transcriptome, even from degraded samples
- Gain a more complete biological picture, and achieve the sensitivity required to identify rare or low-abundance targets

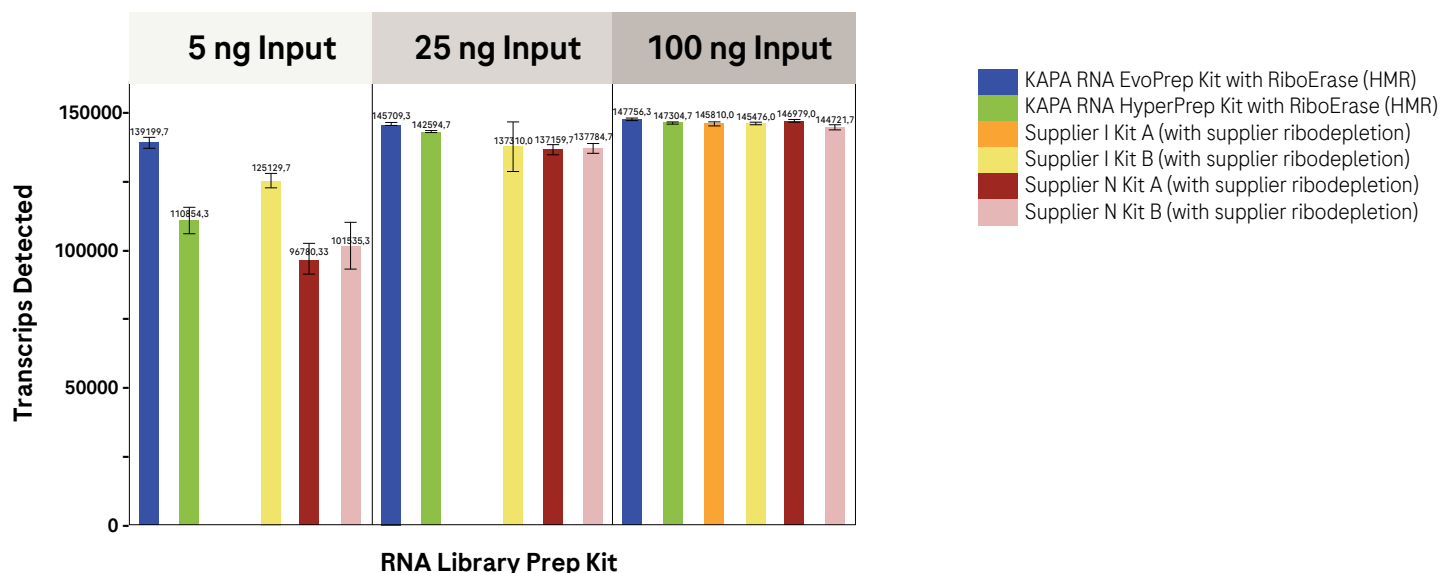
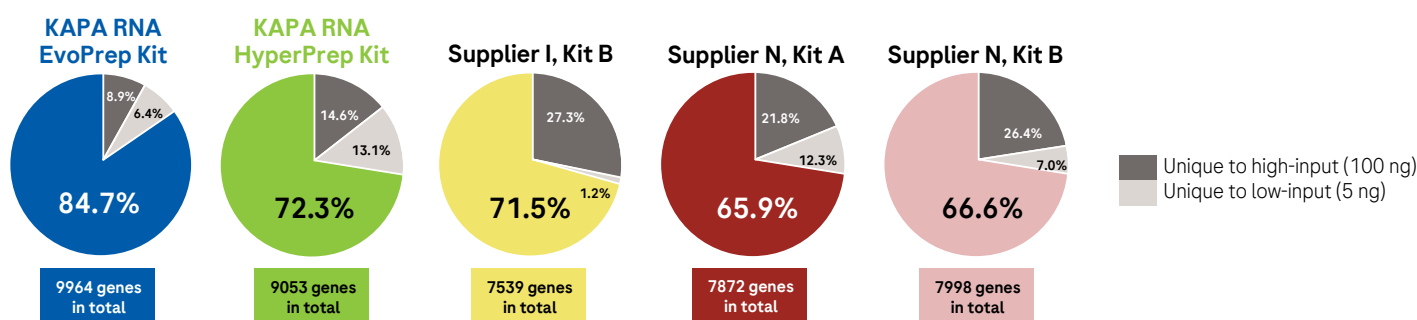


Figure 3. Detection of unique transcripts from different input amounts. The KAPA RNA EvoPrep Kit consistently detects the highest number of unique transcripts across all input amounts, demonstrating higher sensitivity and robustness compared to other suppliers' kits. This enhanced performance provides a more comprehensive view of the transcriptome, which is critical for biomarker discovery and understanding biological processes.¹

Achieve high concordance from low-quality, low-quantity FFPE samples

- Ensure that your data is reproducible and reliable, regardless of input amount and/or sample degradation



Note: Lower inputs with Supplier I Kit A failed to yield high quality libraries with following the manufacturer's instructions, preventing concordance between two input amounts

Figure 4. Concordance of detected genes across high-input and low-input FFPE sample. The KAPA RNA EvoPrep Kit demonstrates exceptional concordance, with a high-to-low-input overlap in detected genes of 84.7%, significantly outperforming all other kits tested (the KAPA RNA HyperPrep, Supplier I, and Supplier N kits). This means that the majority of genes were consistently detected regardless of amount of starting material. For the KAPA RNA EvoPrep Kit, the lowest percentage of genes (8.9%) were unique to the high-input sample vs the other kits, and only 6.4% of identified genes were unique to the low input samples. Overall, this high concordance rate² indicates that the KAPA RNA EvoPrep Kit consistently detects the same transcripts regardless of starting material, highlighting this kit's robustness and reliability for a wide range of samples.

1. Larki Ard, F., Darabi, F., & Ghafourian, S. (2020). RNA sequencing: new technologies and applications in cancer research. RNA sequencing, 7(12), e147476.

2. Sarantopoulou, D., Tang, S. Y., Ricciotti, E., Lahens, N. F., Lekkas, D., Schug, J., & Grant, G. R. (2019). Comparative evaluation of RNA-Seq library preparation methods for strand-specificity and low input. BMC Genomics, 20(1), 727.

Ordering Information

Roche Mat. No.	Kit Description	Subkits	Reaction Size
10640561702	KAPA RNA EvoPrep (24rxn)	KAPA RNA EvoPrep KAPA HyperPure Beads	24
10640570702	KAPA RNA EvoPrep (96rxn)		96
10600730702	KAPA RNA EvoPrep (384rxn)		4 x 96
10600748702	KAPA RNA EvoPrep+RiboErase HMR (24rxn)	KAPA RiboErase HMR KAPA RNA EvoPrep KAPA HyperPure Beads	24
10600756702	KAPA RNA EvoPrep+RiboErase HMR (96rxn)		96
10600764702	KAPA RNA EvoPrep+RiboErase HMR (384rxn)		4 x 96
10600799702	KAPA RNA EvoPrep+RiboErase Globin (96rxn)	KAPA RiboErase HMR KAPA RNA EvoPrep KAPA HyperPure Beads KAPA Globin Depletion Oligos	96
10600802702	KAPA RNA EvoPrep+RiboErase Globin (384rxn)		4 x 96
10600829702	KAPA mRNA EvoPrep (24rxn)	KAPA mRNA Capture Kit KAPA RNA EvoPrep KAPA HyperPure Beads	24
10600837702	KAPA mRNA EvoPrep (96rxn)		96

KAPA NGS reagents are also available as custom kits to help you maximize efficiency, minimize waste, and achieve the scale you need. For additional pack sizes or custom solutions, please contact your local Roche representative.



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