

Quick-Start Protocol

QIAseq® FastSelect™ –rRNA Plant with the KAPA® RNA HyperPrep Kit

The QIAseq FastSelect Kits for –rRNA Plant (cat. nos. 334315, 334317, 334319) may be used with the KAPA RNA HyperPrep Kit (Roche cat. no. KK8540 or KK8541) to remove plant rRNA.

All components of QIAseq FastSelect should be stored in a constant-temperature freezer at –30 to –15°C. Under these conditions, the components are stable, without showing any reduction in performance and quality, until the date indicated on the box label.

Further information

- *QIAseq FastSelect –rRNA Plant Handbook*: www.qiagen.com/HB-2783
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.qiagen.com

Notes before starting

- The KAPA RNA HyperPrep Kit is required for use with this protocol.
- Refer to the *KAPA RNA HyperPrep Kit Technical Data Sheet*.

Procedure

1. Vortex the tube(s) from the QIAseq FastSelect Kit, and then briefly centrifuge to collect residual liquid from the sides of the tubes.
2. From the KAPA RNA HyperPrep Kit, prepare the fragmentation and priming mix described in Table 1 at room temperature (15–25°C) in a nuclease-free tube.

Table 1. KAPA RNA HyperPrep fragmentation and priming mix

Component	Volume/reaction
Total RNA (25 ng – 1 µg)	9 µl
Fragment, prime, and elute buffer (2x)*	10 µl
Total volume	19 µl

* From the KAPA RNA HyperPrep Kit.

3. To the assembled fragmentation and priming mix, add 1 µl of QIAseq FastSelect –rRNA Plant.
4. Mix thoroughly by gently pipetting the reaction up and down several times, and then briefly centrifuge to collect residual liquid from the sides of the tubes.
5. Incubate in a thermal cycler with a heated lid, as described in Table 2, according to your input RNA quality.
Important: Regardless of the time and temperature chosen in step 1, steps 2–9 must be performed.

Table 2. Combined KAPA RNA HyperPrep fragmentation and FastSelect hybridization protocol

Input RNA type	Step	Time and temperature
Intact	1*	Choose:
		8 min at 94°C <i>or</i>
		6 min at 94°C <i>or</i> 6 min at 85°C
Partially degraded	1†	1–6 min at 85°C
Degraded (e.g., FFPE)	1‡	No fragmentation
	2	2 min at 75°C
	3	2 min at 70°C
	4	2 min at 65°C
	5	2 min at 60°C
	6	2 min at 55°C
	7	2 min at 37°C
	8	2 min at 25°C
	9	Hold at 4°C

* Choose one option, depending on whether you want a desired mean library insert size of 100–200 bp (8 min at 94°C), 200–300 bp (6 min 94°C), or 300–400 bp (6 min at 85°C).

† For a desired mean library insert size of 100–300 bp.

‡ For a desired mean library insert size of 100–200 bp.

6. Refer to the *KAPA RNA HyperPrep Kit Technical Data Sheet* and immediately proceed to “1st Strand Synthesis”.
7. Follow the *KAPA RNA HyperPrep Kit Technical Data Sheet* to perform all remaining library construction steps.

Important: It is highly recommended to dilute the KAPA adapters 1.5-fold compared to what is suggested in the default KAPA protocol.

Revision History

Date	Changes
06/2020	Initial release



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