Quick-Start Protocol

QIAseq[®] FastSelect[™] –rRNA Yeast with the NEBNext[®] Ultra II Directional Library Prep Kit

The QIAseq FastSelect Kits for -rRNA Yeast (cat. nos. 334215, 334217, 334219) may be used with the NEBNext Ultra II Directional RNA Library Prep Kit for Illumina[®] (NEB cat. nos. E7760S and E7760L) to remove yeast 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 Yeast Handbook: www.qiagen.com/HB-2784
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.giagen.com

Notes before starting

- The NEBNext Ultra II Directional RNA Library Prep Kit for Illumina is required for use with this protocol.
- Refer to the NEBNext Ultra II Directional RNA Library Prep Kit for Illumina Instruction Manual.



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. Referring to Section 4 from the *NEBNext Ultra II Directional RNA Library Prep Kit for Illumina Instruction Manual*, perform the following in place of steps 4.1.1 through 4.1.4:
 - 2a. Assemble the fragmentation and priming reaction described in Table 1 on ice in a nuclease-free tube.

Table 1. NEBNext Ultra II Stranded fragmentation and priming mix

Volume/reaction	
4 µl	
4 µl	
1 µl	
9 µl	
	4 μl 4 μl 1 μl

* From the NEBNext Ultra II Directional Library Prep Kit.

- 2b. To the assembled fragmentation and priming mix, add 1 μl of QIAseq FastSelect -rRNA Yeast.
- Mix thoroughly by pipetting up and down several times, and then briefly centrifuge to collect residual liquid from the sides of the tubes.
- 2d. 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.

Step	Intact RNA (RIN >7)	Partially degraded RNA (RIN 2–6)
1	15 min at 94°C	7–8 min at 94°C
2	2 min at 75°C	2 min at 75°C
3	2 min at 70°C	2 min at 70°C
4	2 min at 65°C	2 min at 65°C
5	2 min at 60°C	2 min at 60°C
6	2 min at 55°C	2 min at 55°C
7	2 min at 37°C	2 min at 37°C
8	2 min at 25°C	2 min at 25°C
9	Hold at 4°C	Hold at 4°C

Table 2. Combined NEBNext Ultra II fragmentation and FastSelect hybridization protocol

- Refer to the NEBNext Ultra II Directional RNA Library Prep Kit for Illumina Instruction Manual and immediately proceed to "First Strand cDNA Synthesis Reaction".
 Note: "First Strand cDNA Synthesis Reaction" is chapter 4.2 in the instruction manual.
- 4. Follow the *NEBNext Ultra II Directional RNA Library Prep Kit for Illumina Instruction Manual* to perform all remaining library construction steps.

Revision History

Date	Changes
06/2020	Initial release



Scan QR code for handbook.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.

Trademarks: QIAGEN®, Sample to Insigh®, QIAseq®, FastSelect™ (QIAGEN Group); Illumina® (Illumina, Inc.); NEB®, NEBNext® (New England Biolabs, Inc.). Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

06/2020 HB-2780-001 © 2020 QIAGEN, all rights reserved.