

Supplementary Protocol

QIAseq[®] Targeted RNAscan Panels with Illumina[®] NextSeq[®] 1000/2000 Instrument

The QIAseq Targeted RNAscan Panels (cat. nos. 333612, 333615, 333602, and 333605) may be used with Illumina NextSeq 1000/2000 Instrument (cat. nos. 20038897 and 20038898).

The QIAseq Targeted RNAscan Panel Kit is shipped with dry ice (Box 1) and must be stored at -30 to -15°C upon arrival. Box 2 (QIAseq Beads) is shipped on cold packs and should be stored at 4°C . When stored under these conditions and handled correctly, the product can be kept based on the expiration date on each component without reduction in performance.

Further information

- QIAseq Targeted RNAscan Panels Handbook: www.qiagen.com/HB-2170
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.qiagen.com

Procedure

1. Library preparation:
 - 1a. Follow the QIAseq Targeted RNAscan Panel Handbook (on page 19) for the library generation.
 - 1b. Avoid the small peak (<200 bp) as much as possible. If necessary, do additional beads wash. Primer dimmer can be used more efficiently to damage the overall run quality.
2. Sequencing setup on NextSeq 1000/2000. Refer to Illumina protocol for NextSeq 1000/2000, [nextseq_using_custom_primers_15057456 for NextSeq run](#), for more details.

3. Run setting selection:

- 3a. Paired end read.
- 3b. Run with BaseSpace® monitoring or BaseSpace storage plus monitoring, depending on the BaseSpace account setting.
- 3c. It is recommended to store the run locally with external hard drive or network server, especially when running P2, P3, and P4 kit.
- 3d. Select one of the wells for custom primer (Custom 1 or Custom 2). This needs to match the well that you are adding to the custom primer.

4. Loading suggestion:

- 4a. Library 750 pM.

Note: PhiX will not be detected with Custom sequencing primer. If sequencing is not optimal, adjust the loading based on result.

- 4b. Custom Read 1 primer: 3 µL added with a 997 µL HT1, mix and add to the selected wells (1 or 2, depending on the run setting selection).

5. Cycles setting

- 5a. **For 300 cycles kit:** Cycles for Read 1:231, and cycles for Read 2:71.
- 5b. **For 600 cycles kit:** Cycles for Read 1:301 and cycles for Read 2:301.

Document Revision History

Date	Changes
02/2025	Initial release.



Scan QR code for the *QIAseq Targeted RNAscan Panels Handbook*.

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

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