

September 2018

Product Sheet

QIAseq[®] miRNA Library QC PCR Panel Kit 96-well-plate format

Contents

Enzyme mix, 10x concentrated	2 x 24 µL
5x Reaction buffer	128 µL
UniSp-6 RNA spike-in template, lyophilized	12 fmol
QIAseq NGS Spike-ins, 52 RNAs (5' phosphorylated)	Dried down
QIAseq miRNA Library QC PCR Panel Kit, 96-well plate	12 x 8 assays (2 plates)
Nuclease-free water	1 mL

Description

The primary purpose of the QIAseq miRNA Library QC Spike-in Kit and corresponding PCR Panel is to provide sample- and sequencing-library quality-control data by allowing assessment of the reproducibility and linearity of the spike-ins incorporated into the library, with NGS reads mapped to these exogenous sequences after sequencing.

We highly recommend the QIAseq miRNA Library Kits when constructing a small RNA NGS library and using unique molecular indexing (UMI) during data analysis. The quality of the library can be assessed by using the QIAseq miRNA Library QC PCR Panel Kit (cat. no. 331541) or the QIAseq miRNA Library QC qPCR Assay Kit (cat. no. 331551).

For instructions on how to use the QIAseq miRNA Library QC PCR Panel Kit, please refer to the *QIAseq miRNA Library QC PCR Handbook*, which can be downloaded from www.qiagen.com/HB-2437.

Table 1. Plate formats for QIAseq miRNA Library QC PCR Panel

Plate format	Suitable real-time cyclers	Cat. no.
A*	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA® 7 (96-well block); Bio-Rad® models iCycler™, iQ™5, MyiQ, MyiQ2; Bio-Rad/MJ Research Chromo4; Eppendorf® MasterCycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara® model TP-800	YAHS-901ZA
C*	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus®, ViiA 7 (Fast block)	YAHS-901ZC
D*	Bio-Rad CFX96; Bio-Rad/MJ Research models DNA Engine Opticon, DNA Engine Opticon 2; Stratagene model Mx4000	YAHS-901ZD
F*	Roche® LightCycler® 480 (96-well block)	YAHS-901ZF

* Plate type: 96 well. Contents: 2 plates. Mat. no. 331541.

Table 2. Assay information for QIAseq miRNA Library QC PCR Panel Kit

Plate location	Assay target	Mat. no.	Assay cat. no.
A1–A12	miR-103a-3p	339306	YP00204063
B1–B12	miR-191-5p	339306	YP00204306
C1–C12	UniSp-6	339306	YP00203954
D1–D12	miR-451a	339306	YP02119305
E1–E12	miR-23a-3p	339306	YP00204772
F1–F12	miR-30c-5p	339306	YP00204783
G1–G12	UniSp-100	339306	YP02119306
H1–H12	UniSp-101	339306	YP02119307

Shipping and storage

The ready-to-use QIAseq miRNA Library QC PCR Panels are shipped at room temperature (15–25°C) and can be stored at 4°C for at least 6 months. The QIAseq miRNA Library QC Spike-ins are shipped on dry ice. All components should be stored immediately at –20°C. After resuspension, it is recommended to store the QIAseq NGS Spike-ins in aliquots at –20°C to avoid repeated freeze-thaw cycles. Under these conditions, all components are stable until the expiry date listed on the vial.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available online in convenient and compact PDF format at www.qiagen.com/safety, where you can find, view and print the SDS for each QIAGEN kit and kit component.

Ordering Information

Product	Contents	Cat. no.
QIAseq miRNA Library QC PCR Panel Kit 96-well-plate format	Enzyme mix, 5x reaction buffer, nuclease-free water, PCR assays in 96-well format, UniSp-6 RNA Spike-in, QIAseq miRNA Library QC Spike-ins	331541
QIAseq miRNA Library QC Spike-in (96)	52 RNAs (5' phosphorylated), dried down in one tube, nuclease-free water	331535
QIAseq miRNA Library Kit (96)	For 96 sequencing prep reactions: 3' ligation, 5' ligation, reverse transcription, cDNA cleanup, library amplification and library cleanup reagents; quality control primers	331505
QIAseq miRNA Library Kit (12)	For 12 sequencing prep reactions: 3' ligation, 5' ligation, reverse transcription, cDNA cleanup, library amplification and library cleanup reagents; quality control primers	331502
QIAseq miRNA 96 Index IL (96)	Sequencing adapters, primers and custom indexes compatible with Illumina® platforms; breakable, HT format (dried primers) with 96 indexes for 96 samples	331565
QIAseq miRNA 48 Index IL (96)	Sequencing adapters, primers and indexes compatible with Illumina platforms; two 48 indexes for 96 samples	331595
QIAseq miRNA 12 Index IL (12)	Sequencing adapters, primers and indexes compatible with Illumina platforms; 12 indexes for 12 samples	331592

QIAseq miRNA 48 Index TF (96)	Sequencing adapters, primers and custom indexes compatible with Thermo Fisher Scientific® platforms; 2 breakable, HT format (dried primers) with 48 indexes for 96 samples	331585
QIAseq miRNA 12 Index TF (12)	Sequencing adapters, primers and indexes compatible with Thermo Fisher Scientific platforms; 12 indexes for 12 samples	331582
QIAseq miRNA Library QC qPCR Assay Kit	Enzyme mix, 5x reaction buffer, nuclease-free water, QIAseq miRNA Library QC Spike-ins, 8 PCR assays in tube format	331551

The QIAseq miRNA Library QC PCR Panels are intended for molecular biology applications. This product is not intended for the diagnosis, prevention or treatment of a disease.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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