

# miRCURY LNA™ Universal RT microRNA PCR Pick-&-Mix microRNA PCR Panels

## At a glance

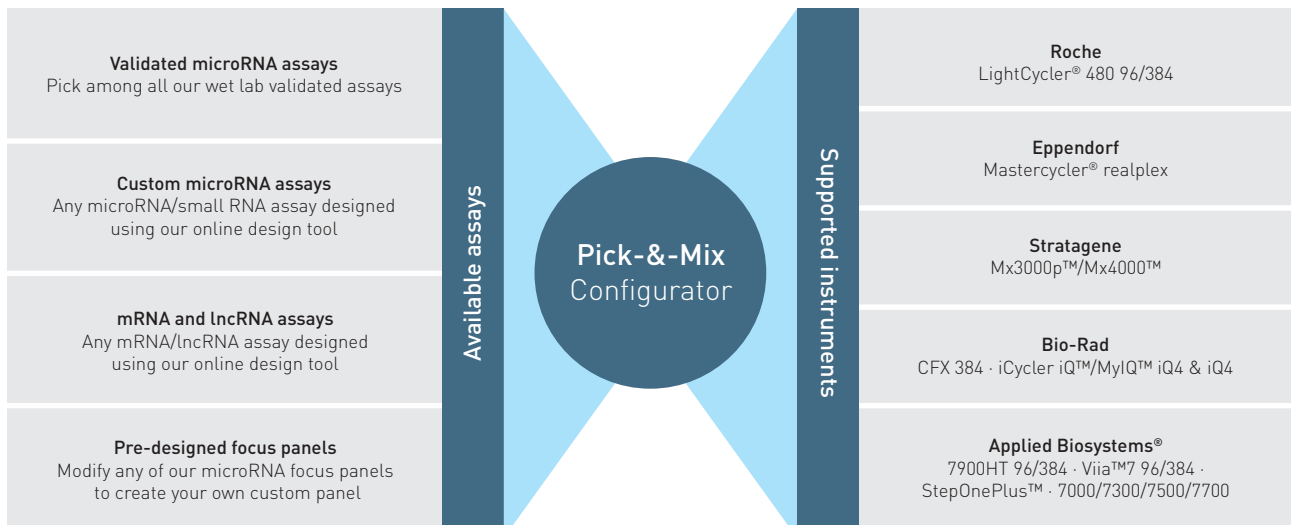
- High-quality custom designed microRNA qPCR panels available in 96- and 384-well format
- Highly flexible – customize to favored plate type, layout, PCR instrument and batch size
- Large choice of assays - choose from Exiqon's vast collection of wet-lab validated microRNA primer sets and add custom assays targeting microRNA, smallRNA, mRNA and lncRNA
- Superior microRNA PCR system – exceptional sensitivity and accuracy allows microRNA expression analysis in difficult samples such as FFPE, LCM and biofluids
- Ideal for focused profiling of specific sets of microRNA and for validation of NGS or array results

## Pick-&-Mix – Design your own microRNA qPCR panels

Exiqon's Pick-&-Mix microRNA PCR Panels are custom designed to your specifications. Using our intuitive online plate configurator, you can design your own 96- or 384-well microRNA qPCR plate (Figure 1).

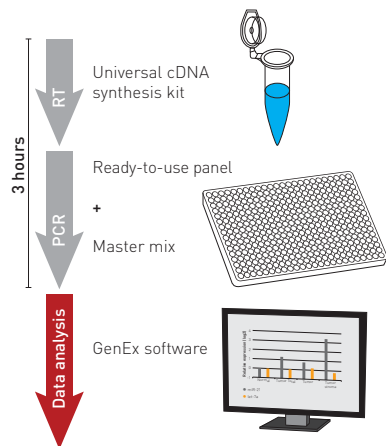
Pick from the large collection of validated miRCURY LNA™ Universal RT microRNA PCR assays or modify a predefined Focus Panel. You can also add a number of custom assays targeting microRNA, small RNA, lncRNA and mRNA, allowing simultaneous analysis in the same experiment, e.g. for validation of NGS data or for studying specific development or disease pathways. The Pick-&-Mix panels are delivered in ready-to-use PCR plates covering most major instruments. For easy and fast plate configuration a variety of pre-defined plate layouts are available (see page 3 for details).

Figure 1. Overview of the available content and instrument compatibility for the Pick-&-Mix microRNA PCR Panels.



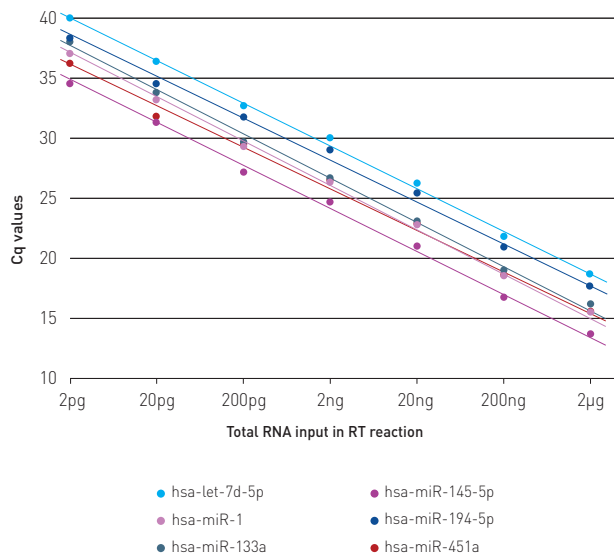
**Figure 2. Overview of the miRCURY LNA™ Universal RT PCR workflow.**

Exiqon's miRCURY LNA™ Universal RT microRNA PCR system offers unmatched sensitivity and specificity coupled with the convenience of a single universal reverse transcription reaction per sample. Profile hundreds of microRNAs on panels using just 20ng total RNA without the need of pre-amplification. The whole process takes just 3 hours.



**Figure 3. Accurate quantification from 1 pg total RNA starting material.**

Data from the amplification of 6 microRNAs in serial dilutions of human AM6000 total reference RNA are shown. All microRNA assays exhibit linear read-out with correlation coefficients  $R(2) > 0,99$ .



### Product coverage

Custom Pick-&-Mix microRNA PCR Panels are available in 96 well plates and 384 well plates. Choose content from our vast selection of experimentally validated LNA™ microRNA PCR primer sets and reference gene primer sets for human, mouse, rat and other organisms.

You can also add a number of custom assays for small RNA/ microRNA or mRNA/lncRNA using our online design algorithms. In addition, all Exiqon Focus Panels are also available for import into the Pick-&-Mix configurator where assays can be removed and added as needed.

The LNA™ microRNA PCR primer sets are identical to those available in Exiqon's other ready-to-use panels making it easy to shift between the different product types and still get the same reliable qPCR results.

The Pick-&-Mix microRNA PCR Panels come with a pre-positioned interplate calibrator (IPC) and an optional RNA spike-in control (CP) allowing optimal calibration and control assessment in multi-plate studies. Furthermore, it is possible to select any of the 4 spike-ins from the spike-in kit.

### A flexible solution for microRNA profiling

Pick-&-Mix microRNA PCR Panels offer great flexibility. Choose between a wide range of plate types, fully custom or pre-defined plate layouts and batch sizes. Select which microRNA assays to include and where they are positioned on the plate. The plates are compatible with most real-time PCR instruments.

The high performance of the miRCURY LNA™ Universal RT microRNA PCR system means that the system is also very flexible in terms of sample type. Accurate quantification of microRNAs can be achieved using very small amounts of total RNA which means that the system is ideal for difficult samples, such as FFPE, LCM and serum/plasma (Figure 3).

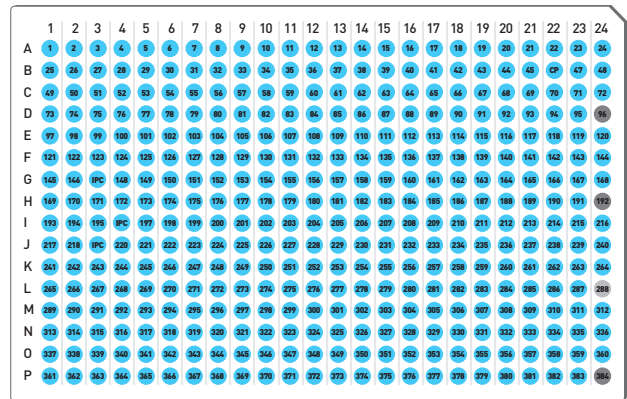
### Easy data analysis

Pick-&-Mix microRNA PCR Panels are fully compatible with Exiqon's GenEx qPCR analysis software. The plate layout file is designed for direct import into GenEx for easy data analysis. It offers user-friendly step-by-step guides for analysis of your data.

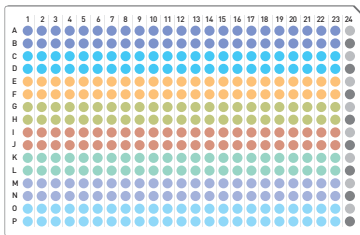
For more information, please visit  
[www.exiqon.com/mirna-pcr](http://www.exiqon.com/mirna-pcr)

**Figure 4. Pick-&-Mix microRNA PCR Panel layouts.** A fully customizable layout for any mix of numbers of microRNAs and samples are shown in the top. For easy and fast configuration, additional common layouts are also available for 96-well and 384-well plates. The colors indicate replicate sets of microRNA assays. Each set will analyze one sample. For each plate layout, a number of wells are pre-occupied by controls for inter-plate calibration (UniSp3 IPC, dark gray). In addition, RNA spike-in controls (UniSp6 CP) are pre-positioned in the plate (light gray). These assays are optional and can be removed from the plate design, although it is recommended to keep them for quality control purposes. Plate layouts are designed for easy use with multi-pipettes and robots. The Pick-&-Mix microRNA PCR panels are made to order using industry leading robotic equipment ensuring high quality custom products.

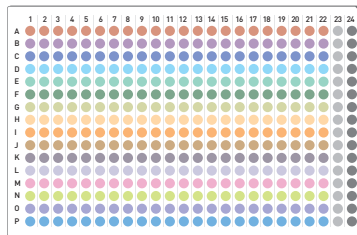
**Custom layout for max 380 different microRNAs**  
3 UniSp3 IPC · 1 UniSp6 CP [optional]



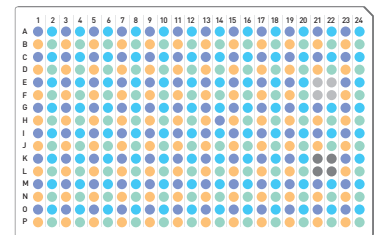
**Pre-defined 46 microRNAs x 8 samples**  
1 x 8 UniSp3 IPC · 1 x 8 UniSp6 CP[optional]



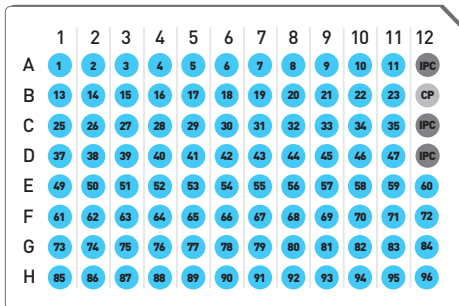
**Pre-defined 22 microRNAs x 16 samples**  
1 x 16 UniSp3 IPC · 1 x 16 UniSp6 CP[optional]



**Pre-defined 94 microRNAs x 4 samples**  
1 x 4 UniSp3 IPC · 1 x 4 UniSp6 CP[optional]



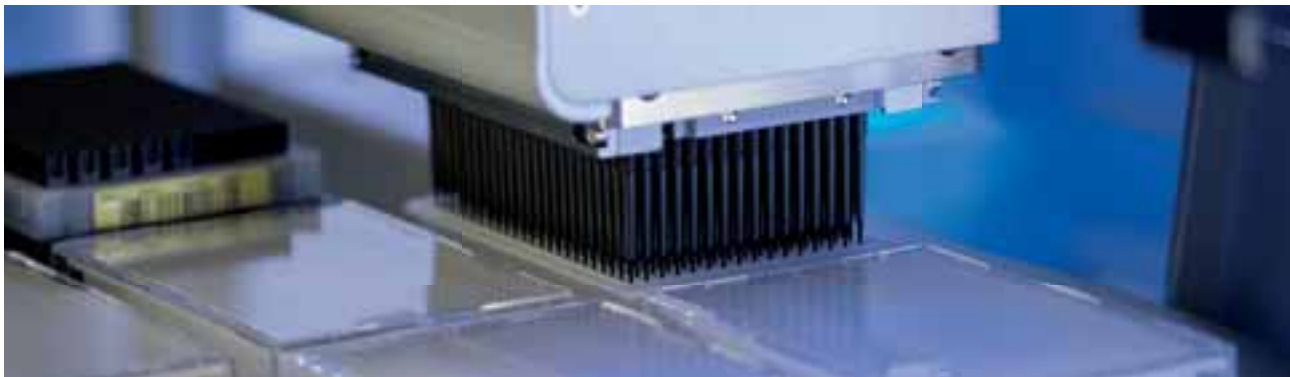
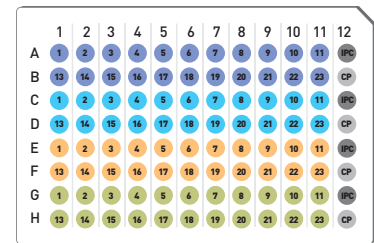
**Custom layout for max 92 different microRNAs**  
3 UniSp3 IPC3 · 1 UniSp6 CP[optional]



**Pre-defined 10 microRNAs x 8 samples**  
1 x 8 UniSp3 IPC3 · 1 x 8 UniSp6 CP[optional]



**Pre-defined 22 microRNAs x 4 samples**  
1 x 4 UniSp3 IPC3 · 1 x 4 UniSp6 CP[optional]



## Plates to fit your project

The high flexibility of the Pick-&-Mix microRNA PCR Panels means that the product can be tailored to fit your needs. It is ideal for investigating microRNA signatures on a medium to large number of samples. Use Pick-&-Mix microRNA PCR Panels to validate your NGS, microarray or PCR panel screenings. Design your own disease or pathway-specific qPCR plates or use the plates for biomarker discovery or validation in a large number of samples. Save time and money by focusing your experiment on the microRNAs or combination of microRNA and mRNA/lncRNA most relevant for your project.

## Designing your panels

Designing and ordering your Pick-&-Mix microRNA PCR Panels is an easy step-by-step process using our online plate configuration tool (Figure 4). Please visit [www.exiqon.com/pick-and-mix](http://www.exiqon.com/pick-and-mix) and access the plate configurator:

1. Sign in (required if custom assays are to be included).
2. Choose between a 96-well or 384-well layout.
3. Select your real-time PCR instrument. Most commonly used instruments are supported.
4. Select your target organism: human, mouse, rat or other organism and optionally select a list of assays to start with: All, miRNome or a Focus Panel.
5. Choose the plate-layout best suited for your needs (see Figure 5 for available layouts).
6. Select individual assays one by one or press "Assign all pre-defined assays to panel" if a pre-defined panel was selected (individual assays can be replaced afterwards). Predefined panels for other organisms can be accessed by selecting details. Choose from our wide selection of miRCURY LNA™ Universal RT microRNA PCR primer sets or design you own custom assays.
7. Once you are happy with the design, download the plate layout file for use in your experimental setup and subsequent data analysis. The plate layout file is fully compatible with Exiqon's GenEx qPCR analysis software for easy and fast normalization and data analysis.
8. Add to basket and continue to check out.
9. Click "Finalize" and add to basket and continue to check out.

## Contact information

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[www.exiqon.com](http://www.exiqon.com)

## Figure 5. Online Pick-&-Mix microRNA PCR Panel plate configurator.

The step-by-step online plate configurator tool makes it easy to design your Pick-&-Mix microRNA PCR Panel. Simply select from the list of individual assays or choose one of our predefined panels that can be further modified.



## Ordering information

All Pick-&-Mix microRNA PCR Panels are available to order in batches of 8, 12 or 12 + (4)<sup>n</sup> plates.

Please visit [www.exiqon.com/pick-and-mix](http://www.exiqon.com/pick-and-mix) to order.

Product no.	Product Name	Product Description
203811	Pick-&-Mix microRNA PCR Panel, 96 well Ready-to-Use (RO)	miRCURY LNA™ Universal RT microRNA PCR, Ready-to-Use PCR panels with custom selection of primer sets, 96 well PCR plate. For use with Roche LightCycler 480 instruments.
203812	Pick-&-Mix microRNA PCR Panel, 96 well Ready-to-Use (AF)	miRCURY LNA™ Universal RT microRNA PCR, Ready-to-Use PCR panels with custom selection of primer sets, 96 well PCR plate. For use with ABI Fast instrument series and ABI StepOne Plus (MI).
203813	Pick-&-Mix microRNA PCR Panel, 96 well Ready-to-Use (MI)	miRCURY LNA™ Universal RT microRNA PCR, Ready-to-Use PCR panels with custom selection of primer sets, 96 well PCR plate. For use with BioRad, Eppendorf, Stratagene Mx4000 and AB 7000 series instruments.
203814	Pick-&-Mix microRNA PCR Panel, 96 well Ready-to-Use (ST)	miRCURY LNA™ Universal RT microRNA PCR, Ready-to-Use PCR panels with custom selection of primer sets, 96 well PCR plate For use with Stratagene Mx3000P series.
203815	Pick-&-Mix microRNA PCR Panel, 384 well Ready-to-Use (R)	miRCURY LNA™ Universal RT microRNA PCR, Ready-to-use PCR panels with custom selection of primer sets, 384 well PCR Plate. For use with Roche LightCycler 480 instruments.
203816	Pick-&-Mix microRNA PCR Panel, 384 well Ready-to-Use (M)	miRCURY LNA™ Universal RT microRNA PCR, Ready-to-use PCR panels with custom selection of primer sets, 384 well PCR Plate. For use with ABI 7900HT, Vii7 and Bio-Rad CFX384.

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