

## Mir-X™ miRNA First-Strand Synthesis Kit

**Catalog No.**  
638313

**Amount**  
20 rxns

**Lot Number**  
Specified on product label.

### Description

This package contains reagents for synthesizing first-strand cDNA from either total RNA or purified small RNAs isolated from any source. RNA molecules are polyadenylated and reverse transcribed using the mRQ Enzyme Mix, which contains poly(A) polymerase and SMART® MMLV Reverse Transcriptase. The resulting cDNA can be used with Takara Bio's TB Green® Advantage® qPCR Premix in real-time qPCR to quantify specific miRNAs and other RNAs present in the sample.

### Package Contents

- 25 µl mRQ Enzyme Mix
- 100 µl mRQ Buffer (2X)
- 250 µl mRQ 3' Primer (10 µM)
- 50 µl U6 Forward Primer (10 µM)
- 50 µl U6 Reverse Primer (10 µM)

### Storage Conditions

- Store at -20°C

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Shipping Conditions

- Dry ice (-70°C)

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- Mir-X miRNA First-Strand Synthesis and TB Green qRT-PCR Kit User Manual

### Quality Control Data

cDNA was synthesized using serial dilutions of a synthetic miRNA standard and the components of the kit. The samples were then subjected to miRNA analysis using the TB Green Advantage qPCR Premix. The resulting Ct values were plotted against the cDNA copies present in the dilutions. The resulting standard curve was linear between  $5 \times 10^7$ – $5 \times 10^2$  miRNA copies, with an  $R^2 > 0.99$ , and exhibited an amplification efficiency between 0.9 and 1.1.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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#### Takara Bio USA, Inc.

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