

ClearPeak microRNA SYBR Green qPCR Assays

250 rxn

Cat No: qmPP250

Assay ID: microRNA specific ID

Shipping : Ship with blue ice.

Storage : Store at -20°C. ClearPeak microRNA SYBR Green qPCR Assays can be stably stored for 12 months at -20°C. Avoid freeze and thaw cycles.

Components: 1 vial of ClearPeak 5x RT primer (sufficient for 100 cDNA reactions) and 1 vial of ClearPeak microRNA SYBR Green qPCR primers (sufficient for 250 reactions)

General Information

ClearPeak microRNA SYBR Green qPCR Assays contains primer pairs and stem loop primers designed for real-time PCR using intercalating dyes, such as ClearPeak 2x SYBR Master Mix. ClearPeak microRNA SYBR Green qPCR Assays are pre-designed and pre-validated prior to delivery to users. Utilization of ClearPeak stem loop primers specific to target microRNA during cDNA synthesis enhances the specificity and accuracy of the assay.

Related Products

ClearPeak 2x SYBR Master Mix (SMM1, SMM5)

EcoScript 5x First Strand cDNA Synthesis Kit (ERT50, ERT100, ERT200)

Protocol

1. cDNA Synthesis with ClearPeak Stem Loop Primer

1. Thaw template RNA on ice.
2. Prepare the following reaction mixture.

Component	Amount
EcoScript 5x First Strand cDNA Synthesis Kit	4 µl
Total RNA	2 µl*
ClearPeak 5x RT Primer	4 µl
ddH ₂ O	10 µl
Total	20 µl

* 30 ng

3. Gently mix the solution (total 20 µl)
4. Run the following reaction set up.

Temperature	Time
42°C	120 min
85°C	5 min
4°C	∞

2. Preparation of SYBR Green qPCR Assay

Prepare the following mix.

SYBR PCR Setup

Component	Amount
<i>ClearPeak</i> 2x SYBR Master Mix	10 µl
<i>ClearPeak</i> microRNA SYBR Green qPCR Assays	1 µl
Template cDNA prepared with <i>ClearPeak</i> Stem Loop Primer	2-5 µl
ddH ₂ O	up to 20 µl
Total	20 µl

PCR Reaction Condition

Two Step

Temperature	Time	Cycles
95°C	5-30 sec	
95°C	3-10 sec	40
60°C	10-30 sec	

Three Step

Temperature	Time	Cycles
95°C	5-30 sec	
95°C	3-10 sec	40
60°C	10-30 sec	
72°C	10-30 sec	