

# **ClearPeak microRNA Assays (FAM)**

150 rxn, 750 rxn

**Cat No:** MCA150, MCA750

**Assay ID:** microRNA specific ID

**Shipping** : Ship with blue ice.

**Storage** : Store at -20°C. *ClearPeak* microRNA Assays (FAM) can be stably stored for 12 months at -20°C. Avoid freeze and thaw cycles.

**Components:** 1 vial of *ClearPeak* microRNA 5x RT primer (sufficient for 50 or 250 cDNA reactions), 1 vial of *ClearPeak* microRNA Assay Probe (sufficient for 150 or 750 reactions)

## **General Information**

*ClearPeak* microRNA Assays (FAM) contains primer and probe sets designed for quantitative gene expression studies utilizing hybridization probes with *ClearPeak* 2x Probe Master Mix. *ClearPeak* microRNA Assays (FAM) are pre-designed and pre-validated prior to delivery to users.

## **Related Products**

*ClearPeak* 2x Probe Master Mix (PMM1, PMM5)

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

## **Protocol**

### **1. cDNA Synthesis with *ClearPeak* microRNA 5x RT primer**

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

<b>Component</b>	<b>Amount</b>
<i>EcoScript</i> 5x First Strand cDNA Synthesis Kit	4 µl
Total RNA	2 µl*
<i>ClearPeak</i> microRNA 5x RT primer	4 µl
ddH <sub>2</sub> O	10 µl
Total	20 µl

\* A total of 30 ng

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

<b>Temperature</b>	<b>Time</b>
16°C	30
42°C	30 min
85°C	5 min
4°C	∞

## Probe PCR Setup

Components	Amount
<i>ClearPeak</i> 2x Probe Master Mix	10 $\mu$ l
<i>ClearPeak</i> microRNA Assay Probe	1 $\mu$ l
Template cDNA	2-5 $\mu$ l
ddH <sub>2</sub> O	up to 20 $\mu$ l
Total	20 $\mu$ l

## PCR Reaction Condition

Temperature	Time	Cycles
95°C	2 min	
95°C	10 sec	40
60°C	30 sec	