

# 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.

Component	Amount
EcoScript 5x First Strand cDNA Synthesis Kit	4 µl
Total RNA	2 µl*
ClearPeak 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.

Temperature	Time
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 µl
<i>ClearPeak</i> microRNA Assay Probe	1 µl
Template cDNA	2-5 µl
ddH <sub>2</sub> O	up to 20 µl
Total	20 µl

### PCR Reaction Condition

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