



**BJ-derived Human Induced Pluripotent Stem Cell (hiPSC) miRNA  
(hiPSC-BJ miRNA)  
Catalog number: 5817**

**Product Information**

Quantity: 1  $\mu$ g, 2  $\mu$ g, or 5  $\mu$ g  
Storage condition: Store at  $-80^{\circ}\text{C}$

**Product Description**

In the past few years, microRNAs with 15-30 nucleotides in length have been shown to be biologically significant as ubiquitous, versatile repressors of gene expression. ScienCell Research Laboratories microRNA is isolated from a wide variety of normal human cell types by the Ambion's *mirVana*<sup>TM</sup> miRNA Isolation Kit, which employs an organic extraction followed by immobilization of RNA on glass-fiber filters to purify RNA enriched for small species.

hiPSC-BJ miRNA is isolated from one of ScienCell Research Laboratories human induced pluripotent stem cell (hiPSC) lines, which is derived from BJ fibroblasts using mRNA reprogramming technology. The pluripotent stem cells used for microRNA isolation are maintained as high quality pluripotent stem cells under feeder-free conditions. hiPSC-BJ miRNA is provided in DEPC-treated water and ready-to-use.

**Quality Control**

- The  $A_{260}/A_{280}$  ratio of the microRNA is measured to be  $\sim 2.0$  using a Beckman Coulter DU 800 spectrophotometer (detected in 10 mM Tris-HCl, pH 7.5).
- The integrity of microRNA is tested by electrophoresis on a 15% denaturing polyacrylamide gel. The 5.8S rRNA, 5S rRNA and tRNA species are efficiently recovered.

**Application**

- RT-PCR
- Blot hybridization
- Solution hybridization assays
- RNA amplification and microarray analysis

**Shipping**

hiPSC-BJ miRNA is shipped on dry ice.