



## **TransIT-siQUEST® Transfection Reagent**

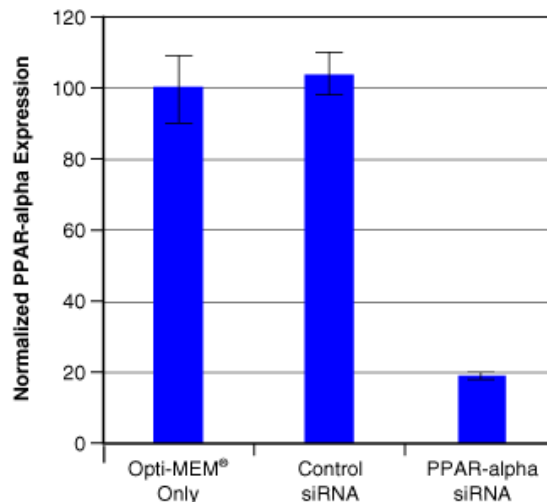
**A high efficiency, low toxicity, siRNA transfection reagent for mammalian cells**

- **Broad Spectrum siRNA Delivery**—Utilize one transfection reagent and protocol for a wide variety of cells.
- **Low Cellular Toxicity**—Maintain cell density and reduce experimental biases.
- **Reproducible Results**—Obtain consistent, targeted gene knockdowns from day to day.
- **High Knockdown Efficiency**—Achieve optimal gene silencing in a large percentage of cells to ensure experimental success.
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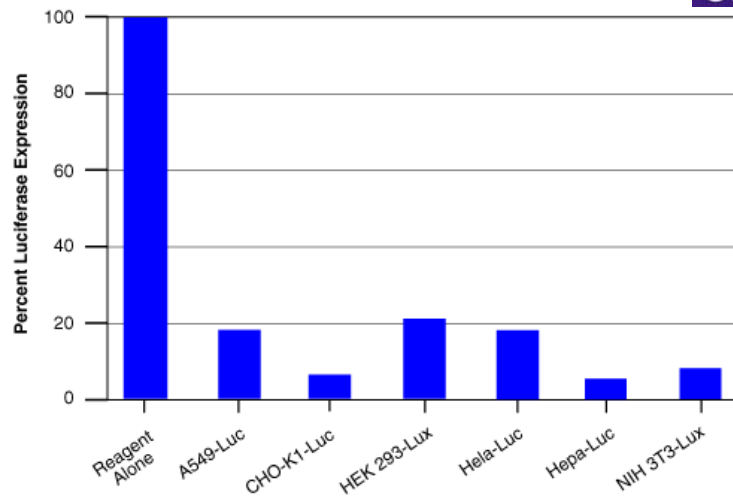
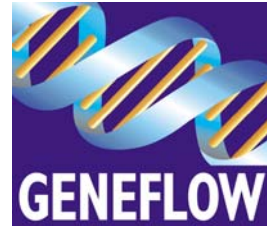
### **Cell Types Successfully Transfected by Mirus Bio:**

A549, BHK-21, BNL CL.2, C2C12, CHO-K1, COS-7, HEK 293, HeLa, Hepa1c1c7, HepG2, MCF-7, NIH 3T3, Primary Mouse Hepatocytes, RAW 264.7, and Vero cells.

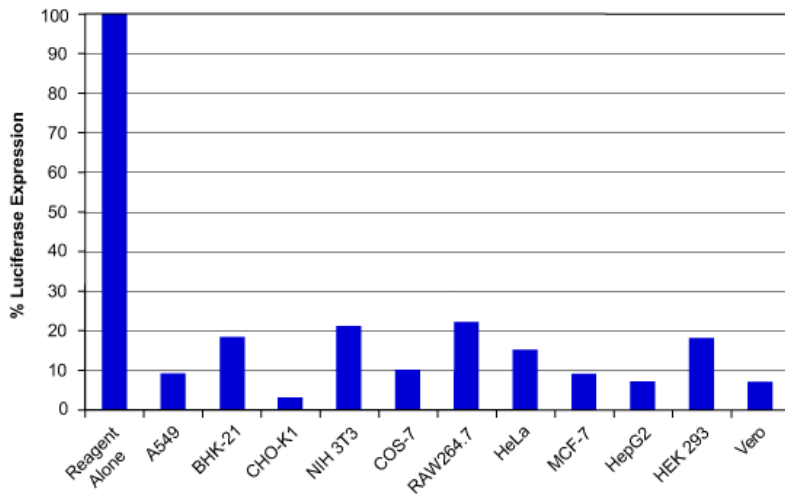
### **Data**



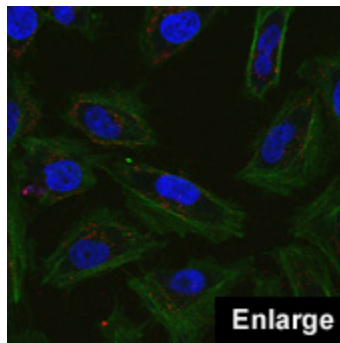
**Figure 1. Inhibition of PPAR-alpha Expression in Primary Mouse Hepatocytes Using the *TransIT-siQUEST®* Reagent.** Primary mouse hepatocytes were transfected with an anti-PPAR-alpha siRNA or a non-targeting control siRNA using the *TransIT-siQUEST®* Reagent. Twenty-four hours post-transfection, the amount of PPAR-alpha mRNA was measured relative to GAPDH mRNA levels using qRT-PCR and then scaled to the expression level of the specific target mRNA in the Opti-MEM® media only (untreated) control.



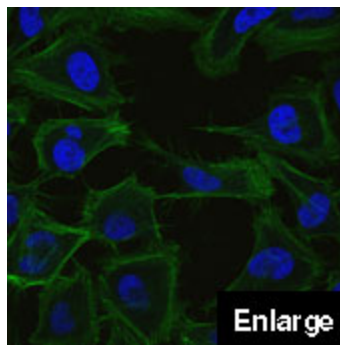
**Figure 2. Inhibition of Stably Expressed Firefly Luciferase Using the *TransIT*-siQUEST® Reagent.** Cell lines stably expressing firefly luciferase were transfected with an anti-firefly luciferase siRNA or a reagent alone control using the *TransIT*-siQUEST® Reagent. Twenty-four hours post-transfection, luciferase expression was measured and compared to the reagent alone control.



**Figure 3. Efficient Target Gene Knockdown in Selected Cell Lines Using *TransIT*-siQUEST® Reagent.** Reporter plasmids expressing both firefly and sea pansy luciferase were co-transfected into the indicated cell lines using *TransIT*® Plasmid Transfection Reagents. Targeted knockdown was achieved by transfection of an anti-firefly luciferase siRNA using the *TransIT*-siQUEST® Reagent. Twenty-four hours later, firefly luciferase expression was normalized to sea pansy luciferase expression and compared to the reagent alone control.



A



B

**Figure 4. Visualization of Fluorescently-Labeled siRNA Transfected with the *TransIT-siQUEST*<sup>®</sup> Reagent.** (A) HeLa cells were transfected with a Cy<sup>™</sup>3-labeled siRNA using the *TransIT-siQUEST*<sup>®</sup> Reagent or (B) a reagent alone control. At 4 hours post-transfection, the cells were fixed, counterstained, and analyzed by confocal microscopy to visualize the siRNA (red), nuclei (blue), and actin (green).