

Label IT® Plasmid Delivery Control

Quick Reference Protocol

Instructions for MIR 7904, 7905, 7906, 7907

Full protocol, SDS and Certificate of Analysis available at mirusbio.com/7904



SPECIFICATIONS

Storage	Store <i>Label IT</i> ® Plasmid Delivery Control at –20°C, protected from light.
Product Guarantee	The <i>Label IT</i> ® Plasmid Delivery Controls are stable for 1 year from the date of purchase, when properly stored and handled.
Concentration	0.5 µg/µl in TE Buffer

The *Label IT*® Plasmid Delivery Control is a tool designed to facilitate visualization and optimization of plasmid DNA delivery for *in vitro* and *in vivo* applications. The *Label IT*® Plasmid Delivery Control consists of either Cy³- or fluorescein-labeled circular plasmid DNA (2.7 kb) and is formatted for small scale *in vitro* applications (MIR 7904, 7906) or large scale *in vitro* applications as well as *in vivo* delivery of the labeled plasmid DNA (MIR 7905, 7907).

Label IT® Plasmid Delivery Control Product Configurations:

Product Name	Product No.	Quantity	Excitation Wavelength (nm)	Emission Wavelength (nm)
<i>Label IT</i> ® Plasmid Delivery Control, Cy ³	MIR 7904	10 µg in 20 µl	550	570
<i>Label IT</i> ® Plasmid Delivery Control, Cy ³	MIR 7905	100 µg in 200 µl	550	570
<i>Label IT</i> ® Plasmid Delivery Control, Fluorescein	MIR 7906	10 µg in 20 µl	492	518
<i>Label IT</i> ® Plasmid Delivery Control, Fluorescein	MIR 7907	100 µg in 200 µl	492	518

Label IT® Plasmid Delivery Control Applications

In Vivo Delivery

Efficient *in vivo* delivery of plasmid DNA to mice via hydrodynamic tail vein injection with *TransIT*® EE or *TransIT*® QR Delivery Solution can be monitored using the *Label IT*® Plasmid Delivery Control. Hydrodynamic tail vein injection results in efficient nucleic acid delivery to liver hepatocytes with lower levels of delivery to the spleen, kidney, lungs and heart. The *Label IT*® Plasmid Delivery Control may also be used to assess alternative methods of *in vivo* delivery.

In Vitro Transfection

The *Label IT*® Plasmid Delivery Controls can be directly substituted into standard *in vitro* transfection or electroporation protocols to facilitate the visual tracking of plasmid DNA following cellular uptake. For a list of broad-spectrum and cell line-specific transfection reagents that can be used to deliver the *Label IT*® Plasmid Delivery Control, see the *Related Products* section or visit our online transfection database, [Reagent Agent](#)®, which is a tool designed to help determine the best delivery solution for a given nucleic acid and cell type. When available, Reagent Agent® also provides more detailed experimental conditions and references.

NOTE: The strength of the *Label IT*® Plasmid Delivery Control fluorescent signal will depend on several factors including transfection efficiency, amount of labeled plasmid used, growth rate of the cells, and incubation time post-transfection. To obtain the desired fluorescent signal, it may be necessary to titrate the amount of *Label IT*® Plasmid Delivery Control transfected. Assess the distribution of the *Label IT*® Plasmid Delivery Control fluorescent signal in transfected cells between 4 and 48 hours post-transfection.

For Research Use Only

Mirus Bio LLC

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► RELATED PRODUCTS

- *TransIT*-X2® Dynamic Delivery System
- *TransIT*®-LT1 Transfection Reagent
- *TransIT*®-2020 Transfection Reagent
- *TransIT*-TKO® Transfection Reagent
- *TransIT*® Cell Line Specific Reagents and Kits
- *TransIT*®-QR Delivery Solution
- *TransIT*®-EE Delivery Solution
- *Ingenio*® Electroporation Solution and Kits
- *Label IT*® RNAi Delivery Controls
- *Label IT*® Tracker Intracellular Nucleic Acid Localization Kits
- *Label IT*® siRNA Tracker Intracellular Localization Kits

For details on the above mentioned products, visit www.mirusbio.com



Reagent Agent®

Reagent Agent® is an online tool designed to help determine the best solution for nucleic acid delivery based on in-house data, customer feedback and citations.

Learn more at: mirusbio.com/ra



SDS and Certificate of Analysis available at mirusbio.com/7904

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