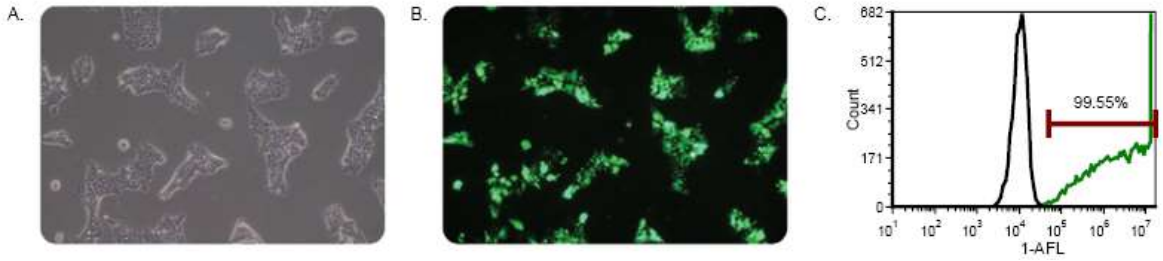
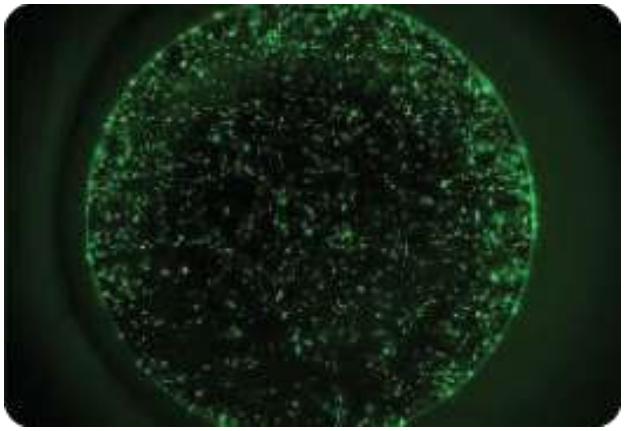
Figures and Data

*Trans*IT®-LT1 Reagent Efficiently Transfects Human Induced Pluripotent (iPS) Cells
High Efficiency Transfection of iCell® Cardiomyocytes Using *Trans*IT®-LT1
Higher Expression and Lower Toxicity with *Trans*IT®-LT1
Comparable Luciferase Expression with *Trans*IT®-LT1 and FuGENE® 6 in Multiple Cell Types

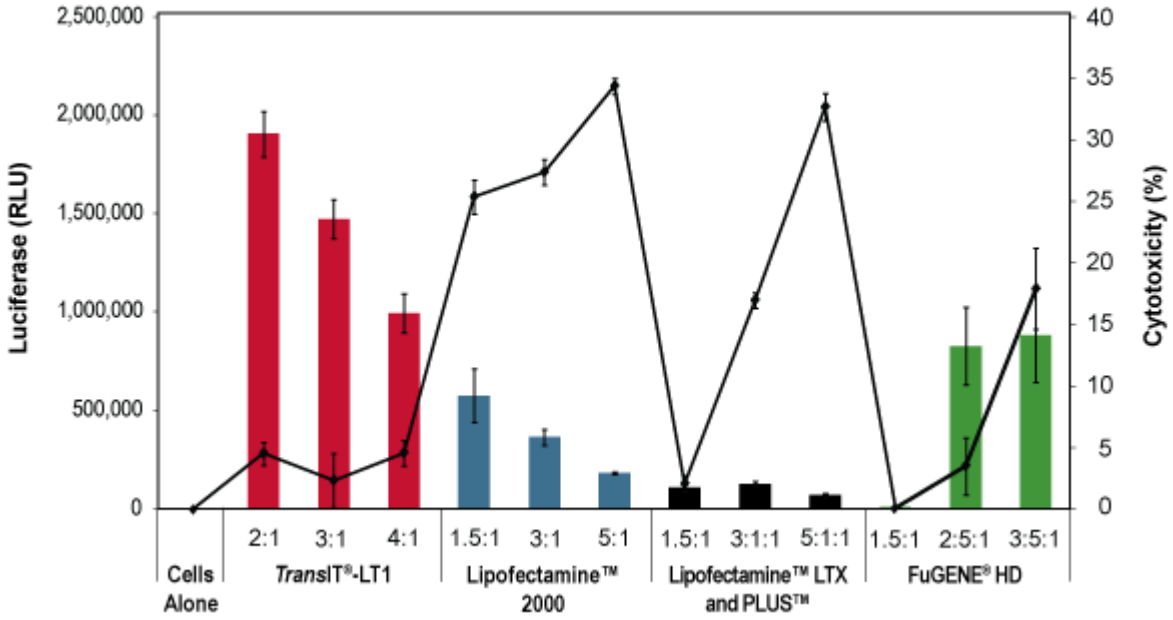


Exceptional Transfection Efficiency in Human Induced Pluripotent Stem Cells (iPSCs) via Reverse Transfection with *Trans*IT®-LT1. The *Trans*IT®-LT1 Transfection Reagent was used to reverse transfect 1.3 x 10^6 iPS cells with a ZsGreen expressing plasmid (Clontech). Reverse transfections were performed in 6-well plates using 12 µl of *Trans*IT®-LT1 Transfection Reagent to deliver 4 µg of DNA (3:1, reagent: DNA). Cells were visualized 48 hours post-transfection and imaged under a 10X objective with an Olympus IX71® Inverted Microscope. Images are (A) phase contrast and (B) green fluorescence. Cells were assayed 48 hours post-transfection on an Accuri® Cytometer. The histogram (C) shows untransfected cells (black line) compared to cells transfected with plasmid using *Trans*IT®-LT1 (green line).

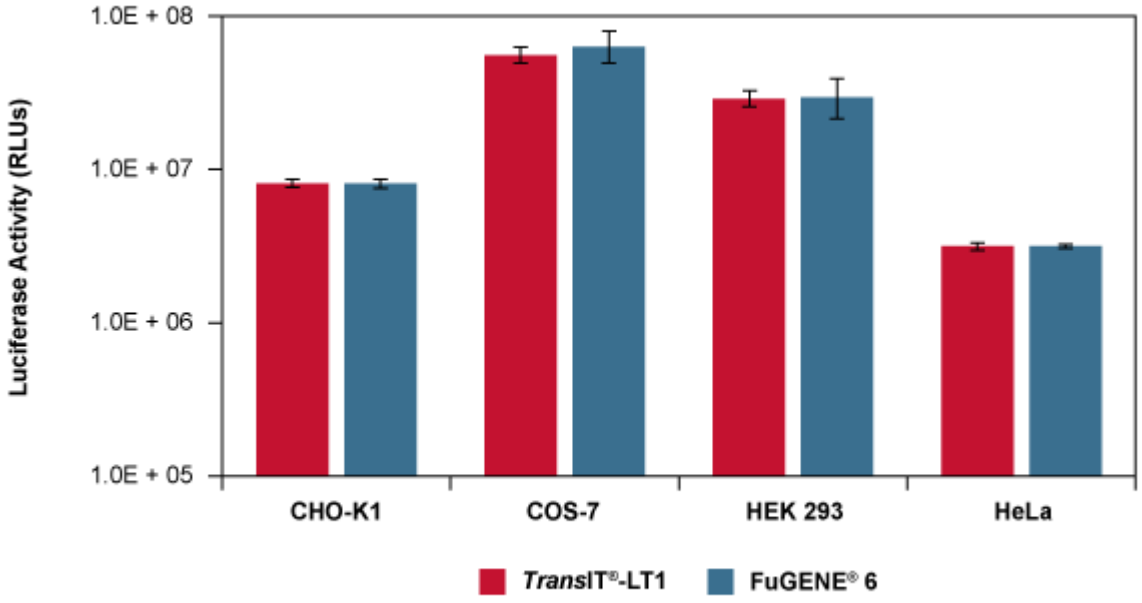


High Efficiency Transfection of iCell® Cardiomyocytes Using *Trans*IT®-LT1 Transfection Reagent. iCell® Cardiomyocytes were plated at 20,000 cells/well in a 96 well tissue culture plate coated with 0.1% gelatin. After allowing the cells to recover from thaw, cells were transfected with 100 ng/well of pMAXGFP (Lonza) using *Trans*IT®-LT1 Transfection Reagent with a 2:1 reagent-to-DNA ratio according to the manufacturer's instructions. Fluorescent images were taken 3 days post transfection using a Olympus IX71® inverted microscope. See more information on stem cell applications.

Data courtesy of
Cellular Dynamics International



The *Trans*IT®-LT1 Reagent Exhibits Higher Expression and Lower Cellular Toxicity Compared to Other Transfection Reagents. HepG2 cells were transfected with a luciferase expression plasmid using the designated reagents at the manufacturer's recommended reagent-to-DNA ratio indicated beneath each bar. Transfections were performed in 96-well plates using 0.1 µg of plasmid DNA per well. Luciferase expression (bar graph) and lactate dehydrogenase (LDH) levels (line graph) were measured at 24 hours post-transfection. LDH levels are reported as % cytotoxicity compared to cells alone and were measured using a commercially available colorimetric assay; all values at or below zero are represented as zero on graph. Experiments were performed as per industry accepted testing protocols. FuGENE® is a registered trademark of Fugent LLC. Lipofectamine® is a trademark of Life Technologies Corporation.



Comparable Luciferase Expression with the *Trans*IT®-LT1 Reagent and FuGENE® 6 in Multiple Cell Types. The indicated cell lines were transfected in duplicate with 1 µg of a luciferase expression vector per well of a 12-well plate using either 3 µl of the *Trans*IT®-LT1 or FuGENE® 6 Reagents according to industry accepted testing protocols. Cells were harvested 24 hours post-transfection and assayed for luciferase activity. FuGENE® is a registered trademark of Fugent LLC.