

# TransIT®-Keratinocyte Transfection Reagent

## Quick Reference Protocol

Instructions for MIR 2800, 2804, 2805, 2806, 2810

Full protocol, SDS and Certificate of Analysis available at [mirusbio.com/2800](http://mirusbio.com/2800)



### SPECIFICATIONS

Storage	Store TransIT®-Keratinocyte Reagent tightly capped at 4°C. <b>Before each use</b> , warm to room temperature and vortex gently.
Product Guarantee	1 year from the date of purchase, when properly stored and handled.

### ► PLASMID DNA TRANSFECTION PROTOCOL



Full protocol and additional documentation available at [mirusbio.com/2800](http://mirusbio.com/2800)

### Fill in volumes below based on culture vessel used for transfection (Table 1).

#### A. Plate cells

1. Plate cells in \_\_\_ ml complete growth medium (per well).
2. Culture overnight. Most cell types should be ≥80% confluent on day of transfection.

#### B. Prepare TransIT®-Keratinocyte Reagent:DNA complexes

1. Warm TransIT®-Keratinocyte to room temperature and vortex gently.
2. Place \_\_\_ μl of OptiMEM® I Reduced-Serum Medium in a sterile tube.
3. Add \_\_\_ μl plasmid DNA. Mix gently by pipetting.
4. Add \_\_\_ μl of TransIT®-Keratinocyte Reagent. Mix gently by pipetting.
5. Incubate at room temperature for 15-30 minutes.

#### C. Distribute complexes to cells

1. Add TransIT®-Keratinocyte:DNA complex mixture drop-wise to different areas of the well.
2. Gently rock plate for even distribution of complexes.
3. Incubate 24-72 hours.
4. Harvest cells and assay as required.

Table 1. Recommended starting conditions

Culture vessel	24-well plate	12-well plate	6-well plate
Surface area	1.9 cm <sup>2</sup>	3.8 cm <sup>2</sup>	9.6 cm <sup>2</sup>
Complete growth medium	0.5 ml	1 ml	2.5 ml
Serum-free medium	50 μl	100 μl	250 μl
DNA (1 μg/μl stock)	0.5 μl	1 μl	2.5 μl
TransIT®-Keratinocyte Reagent	1.5 μl	3 μl	7.5 μl

### ► Transfection Optimization

Determine the best TransIT®-Keratinocyte Reagent:DNA ratio for each cell type. Start with 3 μl of TransIT®-Keratinocyte Reagent per 1 μg of DNA. Vary the concentration of TransIT®-Keratinocyte Reagent from 2–6 μl per 1 μg DNA to find the optimal ratio.

For additional optimization tips, see [full protocol](#).



**Reagent Agent<sup>®</sup>**

Reagent Agent<sup>®</sup> 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](https://mirusbio.com/ra)

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