

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



SPECIFICATIONS

| | |
|-------------------|--|
| Storage | Store TransIT®-Keratinocyte Reagent tightly capped at 4°C. Before each use , 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

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 ² | 3.8 cm ² | 9.6 cm ² |
| 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[®]

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

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