

# TransIT-HeLaMONSTER® Transfection Kit

## Quick Reference Protocol

Instructions for MIR 2900, 2904, 2905, 2906

Full protocol, SDS and Certificate of Analysis available at [mirusbio.com/2900](http://mirusbio.com/2900)



### SPECIFICATIONS

Storage	Store both TransIT-HeLa Reagent and MONSTER Reagent tightly capped at -20°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/2900](http://mirusbio.com/2900)

### 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. Cells should be ≥80% confluent at the time of transfection.

#### B. Prepare TransIT-HeLa:MONSTER:DNA complexes

1. Warm TransIT-HeLa and MONSTER Reagents 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-HeLa Reagent. Mix gently by pipetting.
5. Add \_\_\_µl of MONSTER Reagent. Mix gently by pipetting.
6. Incubate at room temperature for 15-30 minutes.

#### C. Distribute complexes to cells

1. Add TransIT-HeLa Reagent:MONSTER: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-HeLa Reagent	1.5 µl	3 µl	7.5 µl
MONSTER Reagent	1 µl	2 µl	5 µl

### ► Transfection Optimization

Determine the best TransIT-HeLa:DNA and MONSTER:DNA ratio for each cell type. Start with 3 µl of TransIT-HeLa Reagent per 1 µg of DNA. Vary the amount of TransIT-HeLa Reagent from 2-4 µl per 1 µg DNA to find the optimal ratio. Vary the amount of MONSTER Reagent from 0-5 µl per 1 µg of DNA.

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



**Reagent Agent<sup>®</sup>**

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Learn more at: [mirusbio.com/ra](https://www.mirusbio.com/ra)

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