

TransIT®-BrCa Transfection Reagent

Quick Reference Protocol

Instructions for MIR 5500, 5504, 5505, 5506

Full protocol, SDS and Certificate of Analysis available at mirusbio.com/5500



SPECIFICATIONS

Storage	Store TransIT®-BrCa Transfection Reagent tightly capped at –20°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/5500

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 60-80% confluent on day of transfection.
For MCF-7 cells: The recommended cell density at transfection is 40-60%.

B. Prepare TransIT®-BrCa Reagent:DNA complexes

1. Warm TransIT®-BrCa Reagent 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®-BrCa Reagent. Mix gently by pipetting.
5. Incubate at room temperature for 15-30 minutes.

C. Distribute complexes to cells

1. Add TransIT®-BrCa: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®-BrCa Reagent	1 µl	2 µl	5 µl

► Transfection Optimization

Determine the best TransIT®-BrCa Reagent:DNA ratio for each cell type. Start with 2 µl of TransIT®-BrCa Reagent per 1 µg of DNA. Vary the concentration of TransIT®-BrCa Reagent from 1.5–4 µl per 1 µg DNA to find the optimal ratio.

For additional optimization tips, see [full protocol](#). Cell-type-specific recommendations available at [Reagent Agent mirusbio.com/ra](http://ReagentAgent.mirusbio.com/ra)



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](https://www.mirusbio.com/ra)

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