

TransIT®-Oligo Transfection Reagent

Quick Reference Protocol

Instructions for MIR 2160, 2162, 2164, 2165, 2166

Full protocol, SDS and Certificate of Analysis available at mirusbio.com/2160



SPECIFICATIONS

Storage	Store TransIT®-Oligo 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.

► OLIGONUCLEOTIDE TRANSFECTION PROTOCOL



Full protocol and additional documentation available at mirusbio.com/2160

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).
For adherent cells: Plate cells at a density of $0.8-3.0 \times 10^5$ cells/ml.
For suspension cells: Plate cells at a density of $2.5-5.0 \times 10^5$ cells/ml.
2. Culture overnight. Most cell types should be $\geq 80\%$ confluent on day of transfection.

B. Prepare TransIT®-Oligo Reagent:Oligo complexes

1. Warm TransIT®-Oligo to room temperature and vortex gently.
2. Place ___ μ l of OptiMEM® I Reduced-Serum Medium in a sterile tube.
3. Add ___ μ l TransIT®-Oligo Reagent. Mix gently by pipetting.
4. Add ___ μ l of Oligo stock solution. Mix gently by pipetting.
For 2'OMe RNA: Add recommended volume of 1 mM oligo stock solution (2 μ M final concentration per well).
For sDNA: Add recommended volume of 10 μ M oligo stock solution (100 nM final concentration per well).
5. Incubate at room temperature for 5-20 minutes.

C. Distribute complexes to cells

1. Add TransIT®-Oligo Reagent:Oligo 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 μ l	100 μ l	250 μ l
TransIT®-Oligo Reagent	3 μ l	6 μ l	15 μ l
2'OMe RNA (1 mM stock, 2 μ M final) or sDNA (10 μ M stock, 100 nM final)	1.2 μ l 6 μ l	2.4 μ l 12 μ l	6 μ l 30 μ l

► Transfection Optimization

Determine the best volume of TransIT®-Oligo for each cell type. Start with 15 μ l of TransIT®-Oligo Reagent per well of a 6-well plate. Vary the concentration of TransIT®-Oligo Reagent from 10-25 μ l per well to find the optimal volume.

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

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Reagent Agent®

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