

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 x 10⁵ cells/ml.
For suspension cells: Plate cells at a density of 2.5–5.0 x 10⁵ cells/ml.
2. Culture overnight. Most cell types should be ≥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 ___µl of OptiMEM® I Reduced-Serum Medium in a sterile tube.
3. Add ___µl TransIT®-Oligo Reagent. Mix gently by pipetting.
4. Add ___µl of Oligo stock solution. Mix gently by pipetting.
For 2'OMe RNA: Add recommended volume of 1 mM oligo stock solution (2 µM final concentration per well).
For sDNA: Add recommended volume of 10 µM 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 µl	100 µl	250 µl
TransIT®-Oligo Reagent	3 µl	6 µl	15 µl
2'OMe RNA (1 mM stock, 2 µM final) or sDNA (10 µM stock, 100 nM final)	1.2 µl 6 µl	2.4 µl 12 µl	6 µl 30 µl

▶ Transfection Optimization

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

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



Reagent Agent[®]

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