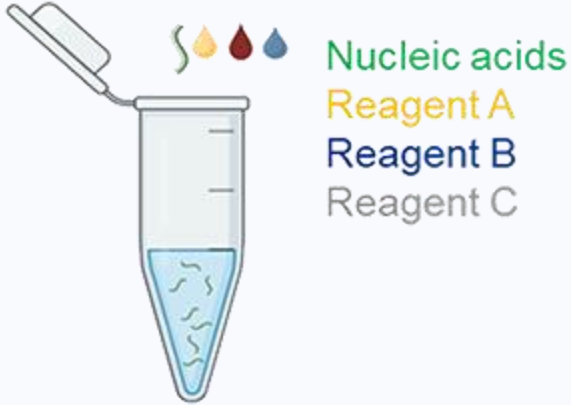
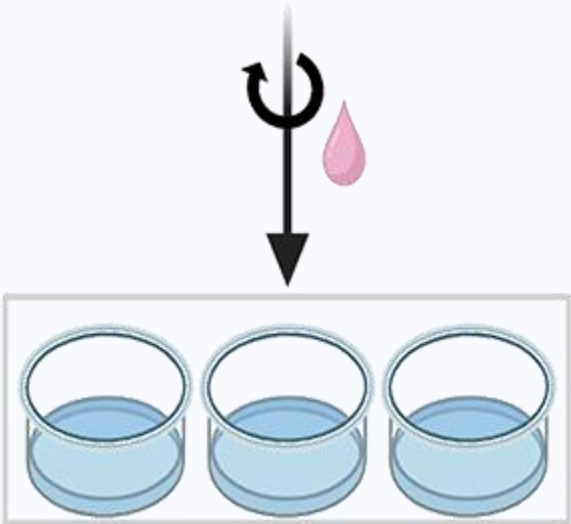
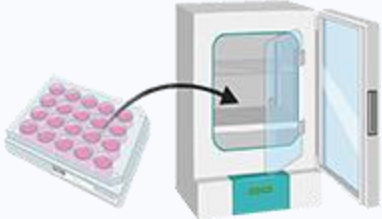


Transfection Protocol for mRNA per Well of a 96-Well Plate

Scheme	Step	
 <p>Nucleic acids Reagent A Reagent B Reagent C</p>	<p>1. Transfection Complex Preparation b</p>	<p>1.1 Mix Reagent A (for Mouse Immunocyte) with mRNA Mix 0.5 µg of mRNA with 40 µL of Reagent A (for Mouse Immunocyte). Note: Invert Reagent A (for Mouse Immunocyte) briefly before use to ensure uniformity.</p> <p>1.2 Add Reagent B (for Mouse Immunocyte) Add 0.7 µL of Reagent B (for Mouse Immunocyte) to the mixture. Mix gently by pipetting up and down 20-30 times or vortexing for 10 seconds.</p> <p>1.3 Add Reagent C (for Mouse Immunocyte) Add 10 µL of Reagent C (for Mouse Immunocyte) to the mixture. Mix gently by pipetting up and down 2-3 times or vortexing for 2-3 seconds. Note: If precipitation occurs in Reagent C (for Mouse Immunocyte), heat to 65°C until fully dissolved before use.</p>

Scheme	Step	
	<p>2. Cell Preparation</p>	<p>2.1 Suspension cells Harvest the cells by centrifugation at 300 g for 5 minutes. Discard the supernatant and wash the cells once with Opti-MEM. Resuspend the cells with Opti-MEM and adjust the cell concentration to $1 \times 10^7 - 1.5 \times 10^7$ cells/mL. Note: Avoid including FBS in the transfection medium.</p> <p>2.2 Adherent cells Maintain 50%-80% cell confluence. Remove medium, wash the cells once with Opti-MEM, and then add 20 μL of Opti-MEM. Note: Avoid including FBS in the transfection medium. Optional: Harvest the cells by trypsinization, then resuspend them in Opti-MEM at a concentration of $1 \times 10^7 - 1.5 \times 10^7$ cells/mL for subsequent transfection.</p>
	<p>3. Transfection</p>	<p>3.1 Mix transfection complex with cells For suspension cells, mix 40 μL of transfection complex with 20 μL of cell suspension and gently pipet up and down 2-3 times. For adherent cells, apply it directly onto the cells.</p> <p>3.2 Incubation Incubate the cells with the transfection</p>

Scheme	Step	
		<p>complex for 15-30 minutes in a cell culture incubator.</p> <p>3.3 Termination Terminate the reaction by adding ≥ 200 μL of culture medium (10X cell suspension), centrifuge at 300 g for 5 minutes, and discard the supernatant. For adherent cells, replace the transfection mixture with ≥ 200 μL of culture medium (10X cell suspension). Note: The cell pellet may adhere to the tube walls. Gently remove the supernatant to minimize cell loss.</p> <p>3.4 Post-transfection culture Incubate the transfected cells in culture medium and assess transfection efficiency after 5 to 48 hours, or at an appropriate time.</p>