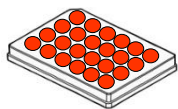
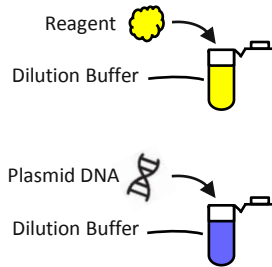

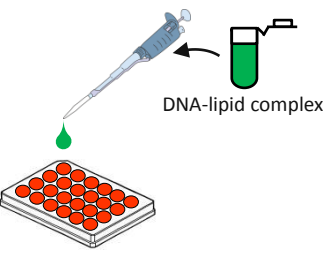
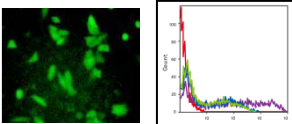


1-Step method (Reverse transfection method)

Timeline		Steps	Procedure Details										
Day 0	<p>1</p> <p>Reagent Dilution Buffer</p>	<p>Dilute ScreenFect™A plus Reagent*¹ in Dilution Buffer, and then mix well *¹ Vortex the reagent before use</p>	Component		96-well		24-well		12-well		6-well		
	<p>2</p> <p>Plasmid DNA Dilution Buffer</p>	<p>Dilute DNA in Dilution Buffer, and then mix well</p>	Dilution Buffer for ScreenFect™A plus		5 μL		25 μL		50 μL		125 μL		
	<p>3</p> <p>DNA-lipid complex</p>	<p>Add diluted DNA to diluted ScreenFect™A plus Reagent, and then incubate for 5 minutes ~ at room temperature*² *² Incubation is available until the step 4 has been completed</p>	DNA : Transfection Reagent ratio		1 : 3	1 : 4	1 : 3	1 : 4	1 : 3	1 : 4	1 : 3	1 : 4	
	<p>4</p> <p>Cultured cells</p>	<p>Prepare required cells for transfection</p>	ScreenFect™A plus Transfection Reagent		0.15 μL	0.2 μL	0.75 μL	1.0 μL	1.5 μL	2.0 μL	3.75 μL	5.0 μL	
	<p>5</p> <p>Cell suspension</p>	<p>Detach cells and prepare the cell suspension, and then transfer the required numbers of cell suspension to cell culture plate</p>	Dilution Buffer for ScreenFect™A plus		5 μL		25 μL		50 μL		125 μL		
	<p>6</p> <p>DNA-lipid complex</p>	<p>Add DNA-lipid complex from step 2 to well of cell culture plate from step 4</p>	DNA (0.1-2.5 μg / μL)		50 ng		250 ng		500 ng		1250 ng		
Day 1 ~	<p>7</p> <p>Cell Detachment (Trypsin or Accutase®)</p>	<p>Final composition [per well]</p>	Diluted DNA		5 μL		25 μL		50 μL		125 μL		
	<p>8</p> <p>Visualize/analyze transfected cells</p>	Adherent cells or suspension cells		1.0-4.0 × 10 ⁴		0.5-2.0 × 10 ⁵		1.0-4.0 × 10 ⁵		0.25-1.0 × 10 ⁶			
	<p>9</p>	Cell Detachment (Trypsin or Accutase®)		Diluted ScreenFect™A plus Transfection Reagent		5 μL		25 μL		50 μL		125 μL	
	<p>10</p> <p>Incubate cells for 1 day ~ at 37°C. Then, analyze transfected cells.</p>	Medium volume		100 μL		500 μL		1000 μL		2000 μL			

2-Step method (Forward transfection method)

Timeline		Steps	Procedure Details																
1	Day 0	 Pre-Cultured cells	Seed cells to be 70-90% confluent at transfection	Component															
				Adherent cells or suspension cells		96-well		24-well		12-well		6-well							
				Seed cells to be 70-90% confluent at transfection. The medium replacement may improve a transfection efficiency in a 2-Step method.															
2		 Reagent Dilution Buffer Plasmid DNA Dilution Buffer	Dilute ScreenFect™A plus Reagent**1 in Dilution Buffer, and then mix well ※1 Vortex the reagent before use	Dilution Buffer for ScreenFect™A plus															
				DNA : Transfection Reagent ratio		5 μL		25 μL		50 μL		125 μL							
				ScreenFect™A plus Transfection Reagent															
				Dilute DNA in Dilution Buffer, and then mix well															
				0.15 μL		0.2 μL		0.75 μL		1.0 μL		1.5 μL		2.0 μL		3.75 μL		5.0 μL	
				Dilution Buffer for ScreenFect™A plus															
				50 ng		250 ng		500 ng		1250 ng									
3	Day 1	 DNA-lipid complex	Add diluted DNA to diluted ScreenFect™A plus Reagent, and then incubate for 5 minutes ~ at room temperature**2 ※2 Incubation is available until the step 4 has been completed	Diluted DNA															
				Diluted ScreenFect™A plus Transfection Reagent		5 μL		25 μL		50 μL		125 μL							
4		 DNA-lipid complex	Add DNA-lipid complex from step 3 to well of cell culture plate from step 1	Final composition [per well]															
				DNA-lipid complex		96-well		24-well		12-well		6-well							
				10 μL		50 μL		100 μL		250 μL									
				50 ng		250 ng		500 ng		1250 ng									
				0.15 or 0.2 μL		0.75 or 1.0 μL		1.5 or 2.0 μL		3.75 or 5.0 μL									
				100 μL		500 μL		1000 μL		2000 μL									
5	Day 2 ~		Visualize/analyze transfected cells	Incubate cells for 1 day ~ at 37°C. Then, analyze transfected cells.															