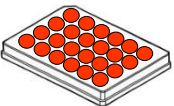
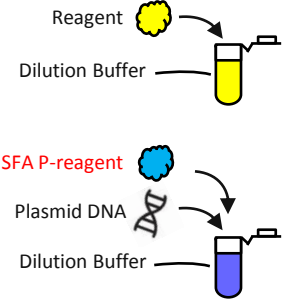

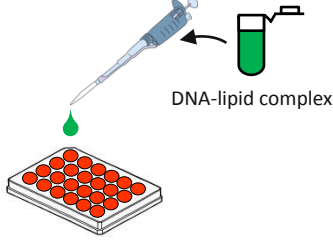
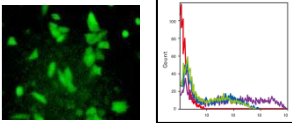


1-Step method (Reverse transfection method)

Timeline	Steps
<p>1</p> <p>Reagent Dilution Buffer</p> <p>SFA P-reagent Plasmid DNA Dilution Buffer</p>	<p>Dilute ScreenFect™A Reagent^{※1} in Dilution Buffer, and then mix well ^{※1} Vortex the reagent before use</p> <p>Dilute DNA and SFA P-reagent in Dilution Buffer, and then mix well</p>
<p>2</p> <p>DNA-lipid complex</p>	<p>Add diluted DNA (+SFA P-reagent) to diluted ScreenFect™A Reagent, and then incubate for 5 minutes ~ at room temperature^{※2} ^{※2} Incubation is available until the step 4 has been completed</p>
<p>3</p> <p>Cultured cells</p>	<p>Prepare required cells for transfection</p>
<p>4</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>
<p>5</p> <p>DNA-lipid complex</p>	<p>Add DNA-lipid complex from step 2 to well of cell culture plate from step 4</p>
<p>6</p>	<p>Visualize/analyze transfected cells</p>

Procedure Details		96-well		24-well		12-well		6-well	
Component									
Dilution Buffer for ScreenFect™A		5 μL		25 μL		50 μL		125 μL	
DNA : Transfection Reagent ratio		1 : 5	1 : 6	1 : 5	1 : 6	1 : 5	1 : 6	1 : 5	1 : 6
ScreenFect™A Transfection Reagent		0.25μL	0.3 μL	1.25μL	1.5 μL	2.5μL	3.0 μL	6.25μL	7.5 μL
Dilution Buffer for ScreenFect™A		5 μL		25 μL		50 μL		125 μL	
DNA (0.1-2.5 μg / μL)		50 ng		250 ng		500 ng		1250 ng	
SFA P-reagent (2μL / μg DNA)		0.1 μL		0.5 μL		1.0 μL		2.5 μL	
Diluted DNA (+SFA P-reagent)		5 μL		25 μL		50 μL		125 μL	
Diluted ScreenFect™A Transfection Reagent		5 μL		25 μL		50 μL		125 μL	
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	
Cell Detachment (Trypsin or Accutase®)									
Final composition [per well]		96-well		24-well		12-well		6-well	
DNA-lipid complex		10 μL		50 μL		100 μL		250 μL	
DNA amount		50 ng		250 ng		500 ng		1250 ng	
SFA P-reagent used		0.1 μL		0.5 μL		1.0 μL		2.5 μL	
ScreenFect™A Transfection Reagent used		0.25 or 0.3 μL		1.25 or 1.5 μL		2.5 or 3.0 μL		6.25 or 7.5 μL	
Medium volume		100 μL		500 μL		1000 μL		2000 μL	
Incubate cells for 1 day ~ at 37°C. Then, analyze transfected cells.									

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 SFA P-reagent Plasmid DNA Dilution Buffer	Dilute ScreenFect™A Reagent^{※1} in Dilution Buffer, and then mix well ^{※1} Vortex the reagent before use Dilute DNA and SFA P-reagent in Dilution Buffer, and then mix well	Dilution Buffer for ScreenFect™A		5 μL		25 μL		50 μL		125 μL									
				DNA : Transfection Reagent ratio		1 : 5		1 : 6		1 : 5		1 : 6		1 : 5		1 : 6					
				ScreenFect™A Transfection Reagent		0.25 μL		0.3 μL		1.25 μL		1.5 μL		2.5 μL		3.0 μL		6.25 μL		7.5 μL	
				Dilution Buffer for ScreenFect™A		5 μL		25 μL		50 μL		125 μL									
				DNA (0.1-2.5 μg / μL)		50 ng		250 ng		500 ng		1250 ng									
				SFA P-reagent (2 μL / μg DNA)		0.1 μL		0.5 μL		1.0 μL		2.5 μL									
3	Day 1	 DNA-lipid complex	Add diluted DNA (+SFA P-reagent) to diluted ScreenFect™A Reagent, and then incubate for 5 minutes ~ at room temperature^{※2} ^{※2} Incubation is available until the step 4 has been completed	Diluted DNA (+SFA P-reagent)		5 μL		25 μL		50 μL		125 μL									
				Diluted ScreenFect™A 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]		96-well		24-well		12-well		6-well									
				DNA-lipid complex		10 μL		50 μL		100 μL		250 μL									
				DNA amount		50 ng		250 ng		500 ng		1250 ng									
				SFA P-reagent used		0.1 μL		0.5 μL		1.0 μL		2.5 μL									
				ScreenFect™A Transfection Reagent used		0.25 or 0.3 μL		1.25 or 1.5 μL		2.5 or 3.0 μL		6.25 or 7.5 μL									
				Medium volume		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.																	
				For support, please visit the http://screenfect.jp																	