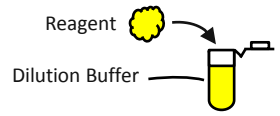
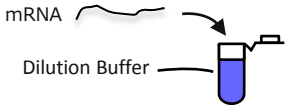
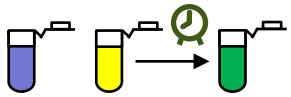
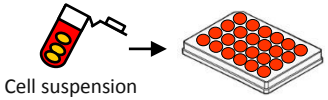
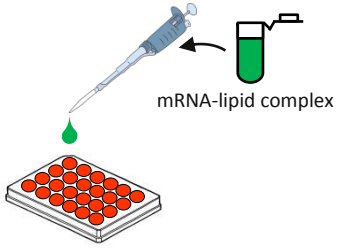
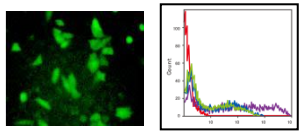
ScreenFect™mRNA Transfection Protocol

The optimal condition for successful transfection varies. Start any new transfection by testing the recommended two concentrations of ScreenFect™mRNA Reagent to determine an optimum amount.

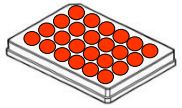
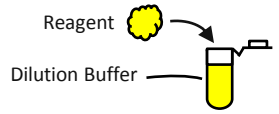
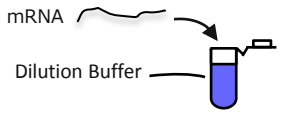
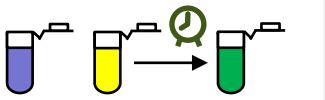
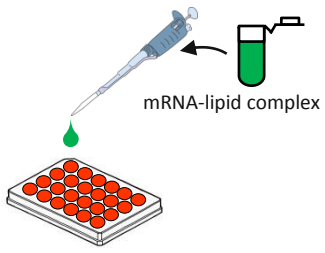
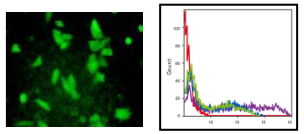
1-Step method (Reverse transfection method)

	Timeline	Steps
1		Dilute ScreenFect™mRNA Reagent※1 in Dilution Buffer, and then mix well ※1 Vortex the reagent before use
		Dilute mRNA in Dilution Buffer, and then mix well
2		Add diluted mRNA to diluted ScreenFect™mRNA Reagent, and then incubate for 5 minutes ～ at room temperature※2 ※2 Incubation is available until the step 4 has been completed
3		Prepare required cells for transfection
4		Detach cells and prepare the cell suspension, and then transfer the required numbers of cell suspension to cell culture plate
5		Add mRNA-lipid complex from step 2 to well of cell culture plate from step 4
6		Visualize/analyze transfected cells

Day 0

Day 1～

2-Step method (Forward transfection method)

	Timeline	Steps
1		Seed cells to be 70-90% confluent at transfection
2		Dilute ScreenFect™mRNA Reagent※1 in Dilution Buffer, and then mix well ※1 Vortex the reagent before use
		Dilute mRNA in Dilution Buffer, and then mix well
3		Add diluted mRNA to diluted ScreenFect™mRNA Reagent, and then incubate for 5 minutes ～ at room temperature※2 ※2 Incubation is available until the step 4 has been completed
4		Add mRNA-lipid complex from step 3 to well of cell culture plate from step 1
5		Visualize/analyze transfected cells

Day 0

Day 1

Day 2～