Quick Protocol

ScreenFect®siRNA

ScreenFect®siRNA Transfection Reagent

Package Contents

Cat. No.	ScreenFect®siRNA	Dilution Buffer
S-4001-2 S-4001 S-4001-3	0.2 ml 1.0 ml 5 x 1.0 ml	10 ml 50 ml 5 x 50 ml

Storage Conditions

Store ScreenFect® Reagents at 4 °C. Do not freeze. For optimal long term activity, do not allow ScreenFect® Reagents to warm to room temperature each time it is used. After several months of storage without using the reagent a slight precipitation might occur. If vortexed thoroughly, this has no influence on the performance of ScreenFect® Reagents.

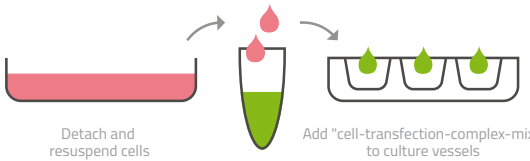
General Considerations

For optimal results, amounts of ScreenFect®A-plus and nucleic acid (NA) need to be optimized for each cell type and each NA used. An optimization protocol is provided in our product manual which can be downloaded from the ScreenFect homepage. We strongly recommend the One-Step transfection method for all of our products. For transfection of adherent cells, first remove medium from cells and mix fresh medium with the transfection complexes before addition to the cells.

Dilution Buffer Volumes

To limit unnecessary wastage, we ship 50 mL ScreenFect® Dilution Buffer as standard per mL ScreenFect® reagents. In some situations the amount of ScreenFect® Dilution Buffer may be limiting with respect to the amount of ScreenFect®siRNA reagent. If you require additional Dilution Buffer for your particular transfection experiments, please contact us.

ScreenFect® Protocol: One-Step Transfection



ScreenFect® Products

ScreenFect®A	Multipurpose reagent (most suitable for pDNA transfection, suitable for RNA applications) with very low cytotoxicity.
ScreenFect®A-plus	Multipurpose reagent with optimized formulation requiring less reagent per transfection.
ScreenFect®siRNA	Specialized reagent for best performance in siRNA delivery.
ScreenFect®UP	Reagent kit for protein production in HEK suspension cells.

For additional information regarding ScreenFect®siRNA and other ScreenFect® Products, visit our homepage (www.screenfect.com) and view our product pages and instruction manuals.

Quick Protocol

ScreenFect®siRNA

Protocol for siRNA Transfection

	Component	Procedure for one well (96-well-plate)	96-well	24-well	6-well
1	**Reagent Dilution**	Dilute 0.25 µl of ScreenFect®siRNA in Dilution Buffer to a final volume of 7 µl and mix thoroughly.	0.25 µl reagent 7 µl dilution	1 µl reagent 30 µl dilution	4 µl reagent 120 µl dilution
		Important: *Vortex the reagent once per day of use. Add ScreenFect®siRNA reagent directly into supplied buffer with rapid pipette mixing or vortexing.*			
2	**siRNA Dilution**	Dilute a total of 1 pmol siRNA in Dilution Buffer to a final volume of 7 µl.	1 pmol siRNA 7 µl dilution	5 pmol siRNA 30 µl dilution	25 pmol siRNA 120 µl dilution
		Tip: *Some siRNAs may require lower or higher amounts depending on the degree of expression of targeted gene.*			
3	**Complex formation**	Combine the diluted siRNA with the ScreenFect®siRNA dilution and mix immediately using 10 rapid pipette strokes. Leave for 20 min at room temperature for complex formation.	14 µl complexes	60 µl complexes	240 µl complexes
		Important: *Do not vortex!*			
4	**Cell preparation & transfection**	Add 80 µl freshly detached and resuspended cells to the complexes and mix with pipette.	Add 80 µl cell suspension	Add 420 µl cell suspension	Add 1250 µl cell suspension
		Tip: *The time-saving reverse cell transfection method may not be suited for all cell types. To transfect adherent cells, first remove and discard medium from cells, then add 80 µl fresh culture medium to transfection complexes, mix with pipette and immediately apply to cells.*			
5	**Cell plating**	Transfer the cells and complexes to one well of a 96-well plate.	Transfer cells with complexes to plate	Transfer cells with complexes to plate	Transfer cells with complexes to plate

Note: This protocol is a **guideline**. Values are suitable for easy to transfect cell lines. This protocol does not replace optimization experiments. View our manual for instructions.
Serum does not affect the performance of ScreenFect®siRNA but we recommend avoiding antibiotics.
Cells must be mycoplasma free, in exponential growth phase and have even plating density across the entire surface area.