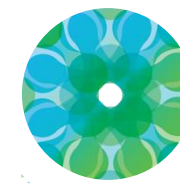


# Quick Protocol



# ScreenFect<sup>®</sup>kit

ScreenFect kit transfection Reagents and Enhancers

## Package Contents

Cat. No.	Reagents		Dilution Buffer
S-1201	kitReagents R1 to R8 kitEnhancer E1, E2	8 x 0.1 mL 2 x 0.1 mL	1 x 50 mL

## Storage Conditions

Store ScreenFect<sup>®</sup>kit at 2-8°C. Do not freeze. For optimal long term activity, do not allow ScreenFect<sup>®</sup>kit to warm to room temperature each time it is used. After several months of storage without using the reagents a slight precipitation might occur. If vortexed thoroughly, this has no influence on the performance of ScreenFect<sup>®</sup>kit Reagents and Enhancers.

## General Considerations

For optimal results, amounts of reagent, enhancer and nucleic acid (NA) need to be optimized for each cell type and each NA used. An optimization protocol is provided on the back side of this Quick Protocol.

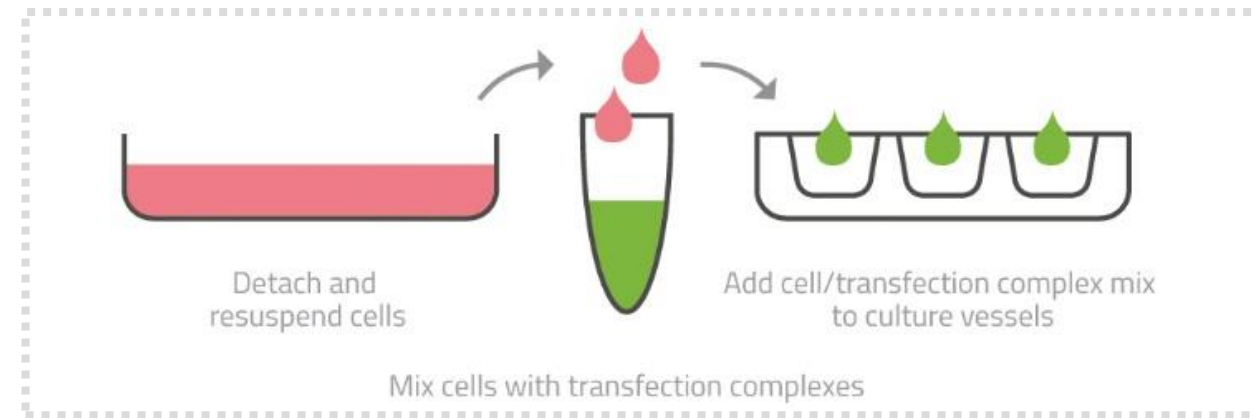
We strongly recommend the One-Step transfection method for all of our products. For transfection of adherent cells, remove the used medium and mix fresh medium with the transfection complexes. Then add the mix to the cells.

ScreenFect<sup>®</sup>kit is suitable for the transfection of pDNA, mRNA, siRNA and all other kinds of NAs. ScreenFect<sup>®</sup>kit has successfully been used for the transfection of adherent cells, cells in suspension, for IPs cells and primary cells.

This is the unique variety which ScreenFect<sup>®</sup>kit offers to you.

For additional information regarding ScreenFect<sup>®</sup>kit and other ScreenFect<sup>®</sup> Products, visit our homepage and view our product pages and instruction manuals.

ScreenFect<sup>®</sup> Protocol: One-Step Transfection



## User Instructions

Follow the protocol on the back side to find the best transfection condition for your cell type. The protocol is based on pDNA transfection. If you want to transfect NAs different from pDNA, use the information given in the table below to replace the dilutions described in <sup>1</sup>.

The Quick Protocol allows you to test all 8 reagents in parallel on one 96-well plate. It is recommended to work with an 8 channel pipette or an 8 channel liquid dispenser.

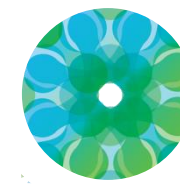
After having performed the quick protocol without enhancers, repeat the Quick Protocol using the delivered kitEnhancers (see <sup>!</sup>).

### Note:

Some reagents may not work well without enhancer but may give better results after enhancer addition. Therefore, we strongly recommend to test both enhancers first before choosing one condition to work with.

Nucleic acid (NA)	Amount of NA to be diluted to a final volume of 400 µL in Dilution Buffer
pDNA	2, 3, 4 µg
siRNA	0.5, 1.0, 2.0 pmol
mRNA	2, 3, 4 µg

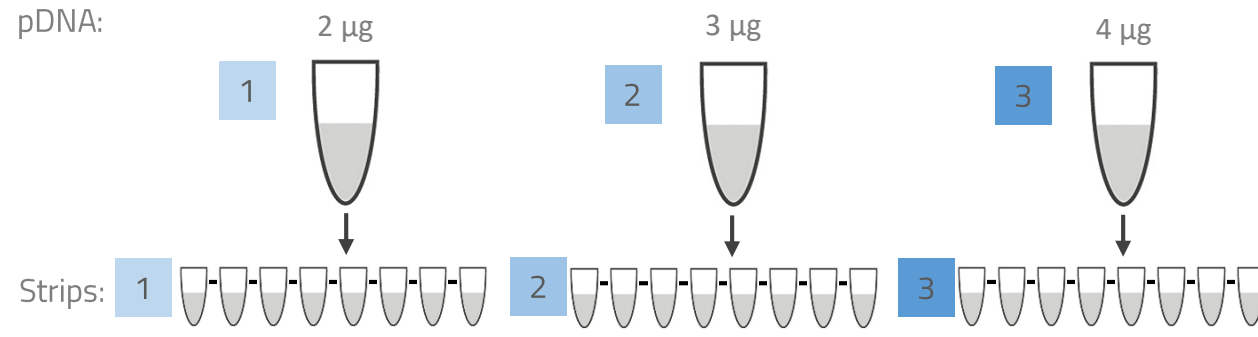
# Quick Protocol



# ScreenFect<sup>®</sup>kit

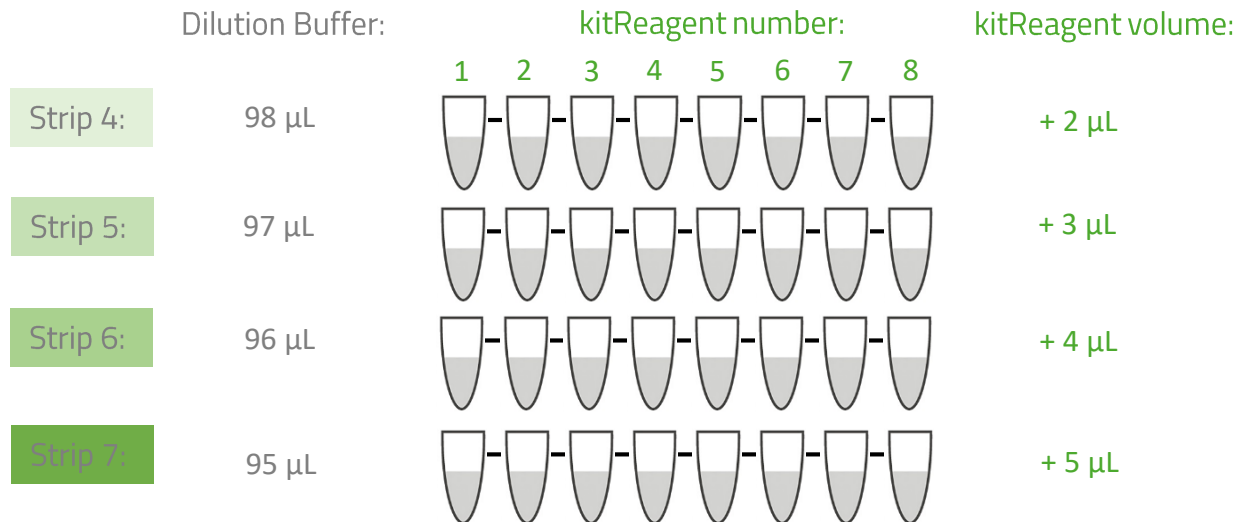
## 1 Prepare pDNA Dilutions :

Dilute pDNA to 400  $\mu$ L in DB and distribute between 8 tubes of a PCR strip.



## 2 Prepare reagent Dilutions :

Using 4 additional 8-tube strips, dilute 2, 3, 4 or 5  $\mu$ L of each of the 8 reagents to a final volume of 100  $\mu$ L. Vortex reagent dilutions.

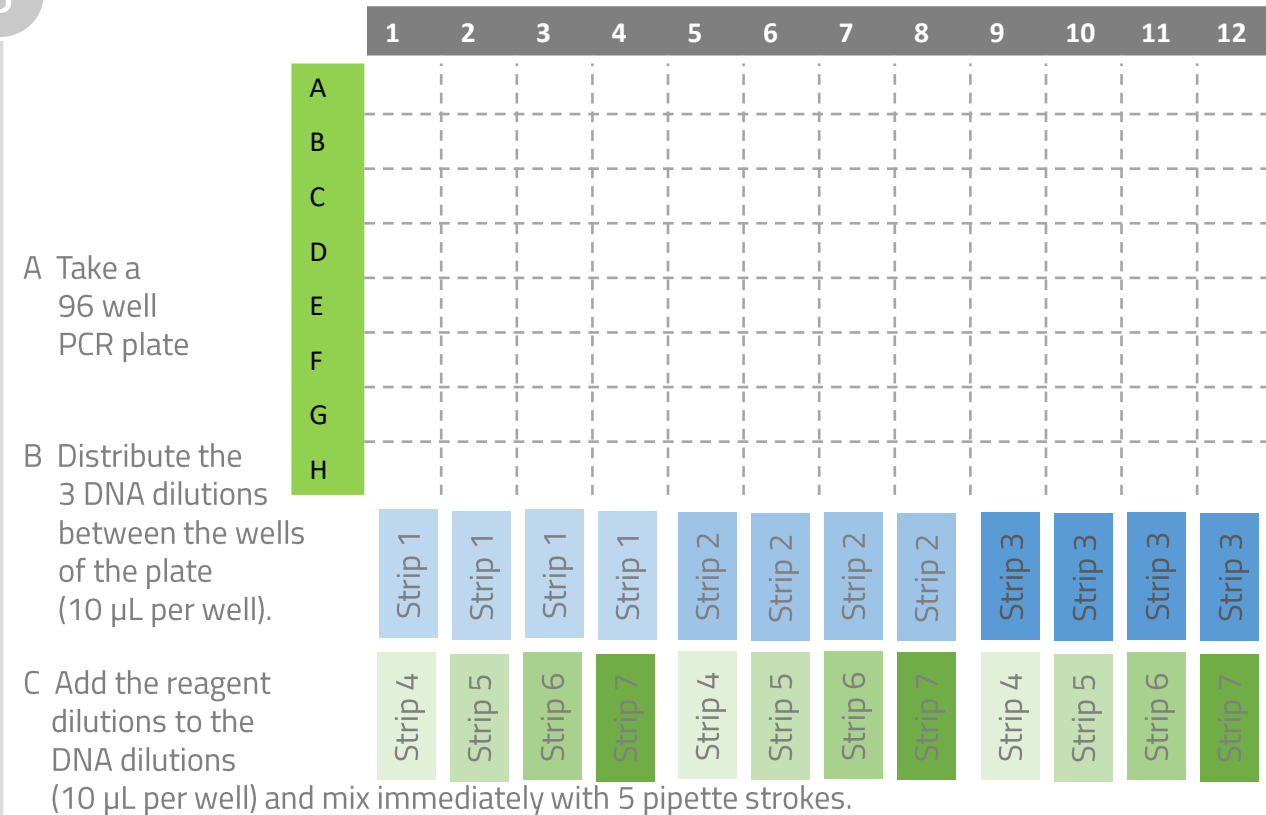


## ! Enhancer usage:

The enhancers included into ScreenFect<sup>®</sup>kit offer additional opportunities for boosting your transfection results. Add the enhancers to the DNA dilutions of step 1 in DNA : Enhancer ratios of 1:2 [ $\mu$ g: $\mu$ L]. To DNA dilution **1** add 4 $\mu$ L, to **2** add 6 $\mu$ L and to DNA dilution **3** add 8  $\mu$ L of one enhancer. Afterwards distribute the volume between 8 PCR strip tubes. **Combine the DNA-Enhancer dilution with the Reagent dilution within 1 min after enhancer addition to DNA.** You can perform the transfections without any enhancer or with kitEnhancer 1 or kitEnhancer 2 or you can even add both enhancers to the DNA dilutions.

## 3

Mix reagent and DNA dilutions immediately by pipette strokes. Incubate for 20 min at RT.



## 4

The One-Step transfection method gives best results for most cell lines. Add 80  $\mu$ L freshly dissociated cells to the complexes and then mix gently with pipette before transferring to a 96-well cell culture plate. **Always test the One-Step method first.** For the Two-Step method, first remove the used medium from the cells. Then add 80  $\mu$ L of fresh medium to transfection complexes and transfer medium and complexes to plate with adherent cells.