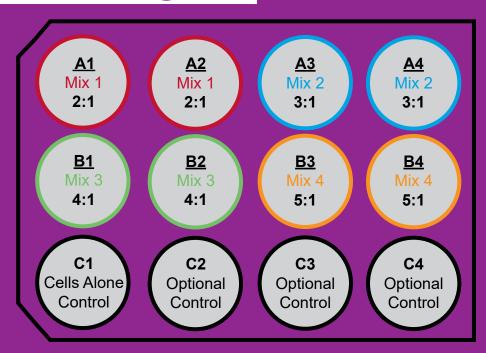
Optimize Your Transfections!

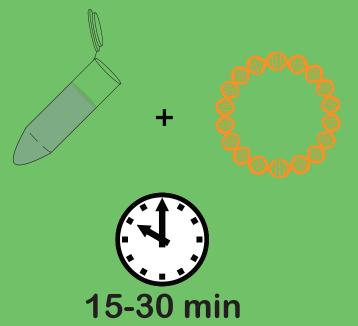
5 tips to get the best results in your experiments

Get Your Ratios Right

It's important to test multiple Reagent: DNA ratios. Finding the optimal ratio for your cells will help unlock the highest transfection efficiency and decrease toxicity.



The Complexity of Complexes



DNA-Reagent complex formation takes time. Allow your transfection reagent and DNA mixture to incubate for 15-30 minutes* at room temperature before adding the mix to your cells. Transfection efficiency will decrease if complex formation time exceeds one hour.

*Incubation time varies by reagent, reference product protocol

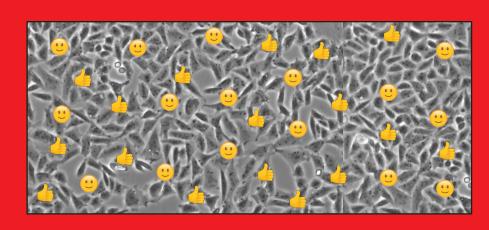
DNA Do's and Don'ts

DO: Use endotoxin-free, high quality DNA for all transfections. Contaminants like proteins, carbohydrates and lipids can negatively affect transfection efficiency and gene expression levels.

DON't: Assume all cell types require the same dose of DNA. In some suspension cell lines, such as THP-1, transfecting higher amounts of DNA leads to higher transgene expression. Be sure to keep DNA:Reagent ratio constant when adjusting DNA dose.

Divide and Conquer

Use happy, healthy, and actively dividing cells to maximize your transfection efficiency. Mirus recommends plating your cells the night before transfection at a density that will promote cell division, and obtain 75-90% confluency at the time of transfection.





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