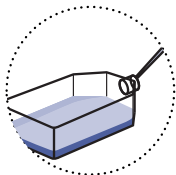


# Nucleofection® Handling – optimized protocols

# Lonza

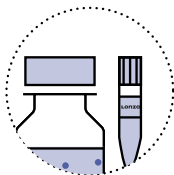
## Step 1

Harvest cells of interest.



## Step 2

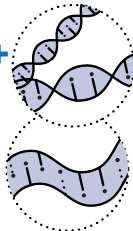
Mix and combine.  
Nucleofector® Solution  
with supplement



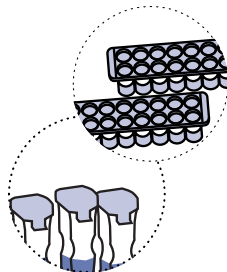
Cells



DNA or siRNA



Transfer to a Lonza certified cuvette.



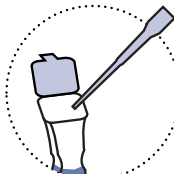
## Step 3

Select Nucleofector®  
Program. Insert cuvette.  
Press » Start «.



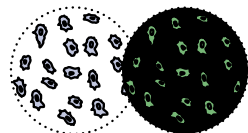
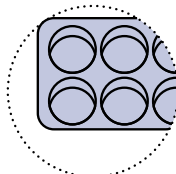
## Step 4

Rinse cuvette with  
culture medium.



## Step 5

Transfer to culture dish. Expression can be detected as  
soon as 3 – 8 hours post Nucleofection® Experiment.



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# Tips to get more out of your Nucleofection®

- Prepare multiwell plates with fresh medium and pre-equilibrate at 37 °C prior to experiment
- Use cells at low passage number and at the recommended confluence or density (logarithmic growth)
- Limit time of exposure to trypsin, carefully monitor cell detachment
- Count cells and use appropriate cell number according to optimized protocol; using fewer cells can result in increased mortality
- Use high quality DNA, purified with an endotoxin removing kit; please check the purity of each plasmid preparation by measurement of the A260 : A280 ratio
- Centrifuge at room temperature at the centrifugation speed (80 – 100 xg) and for the time specified in the protocol
- After centrifugation and addition of Nucleofector® Solution, swirl solution /cell pellet for single cell suspension and avoid manipulating or pipetting pellet
- Following Nucleofection®, add ~ 500 µL of pre-warmed medium on top of cells in cuvette with disposable pipette
  - Gently bring pipette tip to the bottom of cuvette and collect cells
  - Gently seed the cell suspension into prepared
  - multiwell-plate
  - Do NOT mix cells by repeated aspiration

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CD-KI011 04/21

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