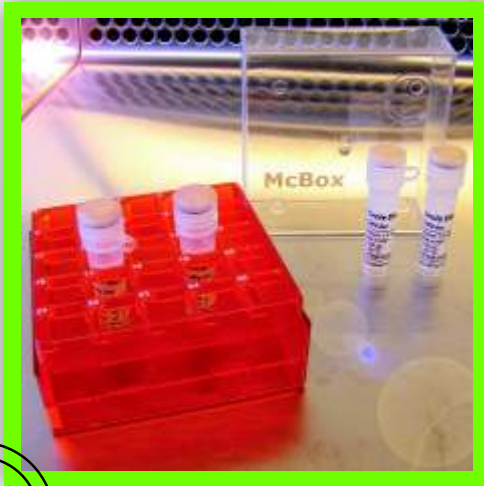


# McBox<sup>®</sup><sub>GFP</sub>

Research beyond the state-of-the-art



The Dawn of a new Era  
in Gene Therapy  
& Vaccination!

*Minicircle* - minimized DNA  
to achieve unsurpassed  
GFP expression

### *Minicircle* DNA by PlasmidFactory

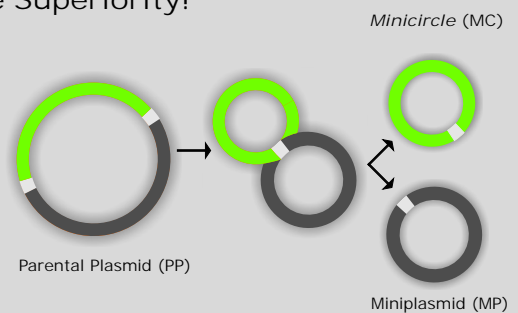
- Minimal size
  - Highest purification level
  - No bacterial backbone sequences (*ori*, AB<sup>®</sup>)
  - Reduced CpG content
  - No antibiotic resistance according to EMEA guideline (CPMP/BWP/3088/99)
- ➔ Improved safety
  - ➔ Minimized side effects
  - ➔ Excellent transfection efficacy
  - ➔ Optimized transfection profile
  - ➔ Trouble-free transfer of your research into clinical application

➔ Compare the first *minicircle* DNA encoding the green fluorescent protein (GFP) with the corresponding plasmid in your experimental setting!

➔ Optimize your transfection!

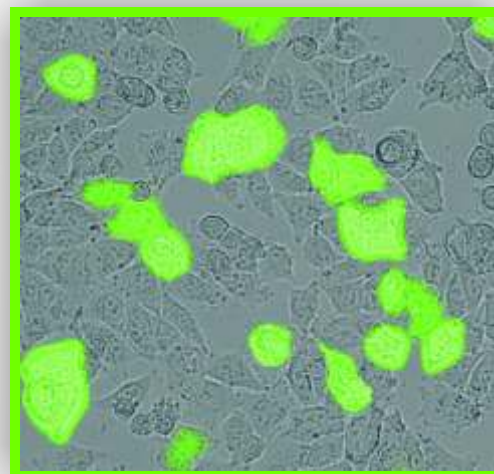
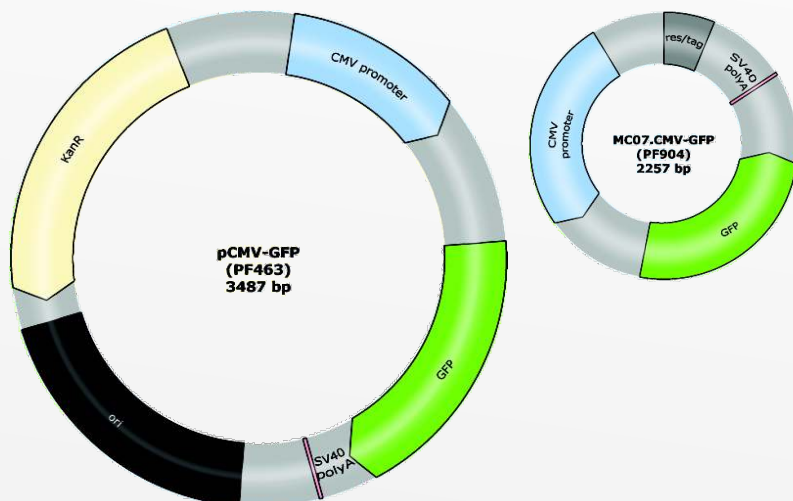
➔ Order the new McBox<sup>®</sup><sub>GFP</sub>!

### The PlasmidFactory *Minicircle* System - unique Superiority!



PlasmidFactory's proprietary *minicircle* system is based on a parental plasmid carrying a selection marker, the origin of replication (*ori*), two recombination sites and the gene-of-interest. The recombination of a PP results in two circular supercoiled molecules: A miniplasmid containing the selection marker, the *ori* and all the unwanted, unessential bacterial sequences and the *minicircle* with hardly more than the gene of interest and all necessary elements for regulation in the target cells.

PlasmidFactory.com



Green Fluorescence Protein (GFP) expression from *minicircle* MC07.CMV-GFP 24 hours after transfection of human melanoma (A375) cells using Metafectene. For transfection 1 microgram *minicircle* DNA was used and GFP expression was evaluated in a fluorescence microscope (Zeiss). The figure depicts the merged GFP fluorescence and light microscope images. Magnification: 200-fold.  
(D. Kobelt, W. Walther, Charité and MDC Berlin)

## The McBox<sup>0</sup><sub>GFP</sub> contains:

|   | concentration [mg/mL] | size [bp] | chrDNA [%] | LPS endotoxin [E.U./mg] | ccc supercoil [%] by CGE |
|---|-----------------------|-----------|------------|-------------------------|--------------------------|
| MC07.CMV-GFP ( <i>minicircle</i> , PF904, 100 µg) | 1.0                   | 2257      | £3.0       | £5.0                    | ± 90.0                   |
| pCMV-GFP (plasmid, PF463, 100 µg)                 | 1.0                   | 3487      | £3.0       | £5.0                    | ± 90.0                   |
| WFI (water for injection, 500 µL)                 |                       |           |            |                         |                          |

## Order information:

McBox<sup>0</sup>-GFP, item no.: PFBox102

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