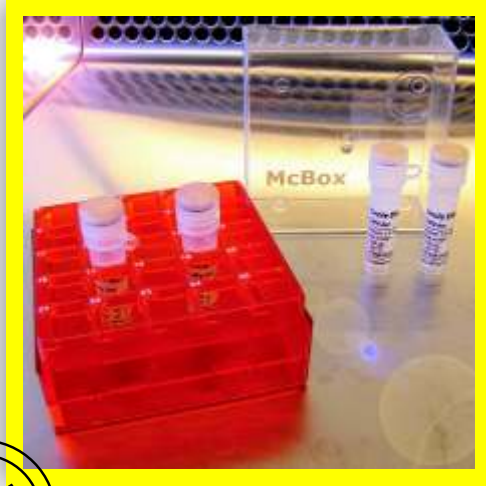


# McBox<sup>®</sup><sub>Luc</sub>

Research beyond the state-of-the-art



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

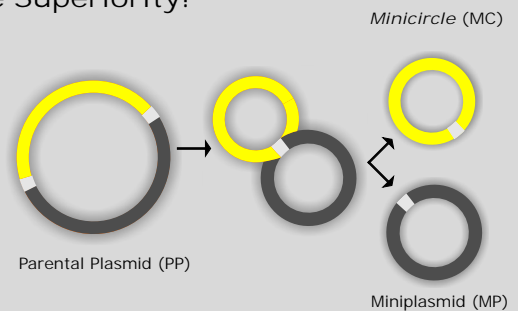
*Minicircle* - minimized DNA  
to achieve unsurpassed  
luciferase expression

### *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

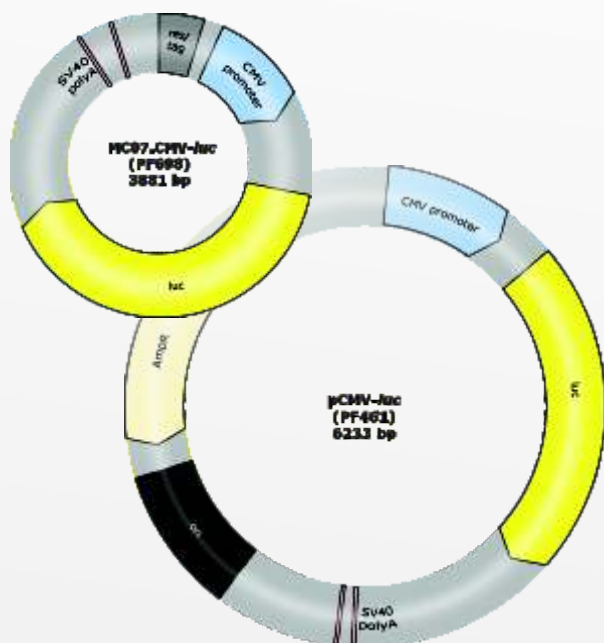
- ➔ Compare the first *minicircle* DNA containing the luciferase gene with the corresponding plasmid in your experimental setting!
- ➔ Optimize your transfection!
- ➔ Order the new **McBox<sup>®</sup><sub>Luc</sub>**!

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



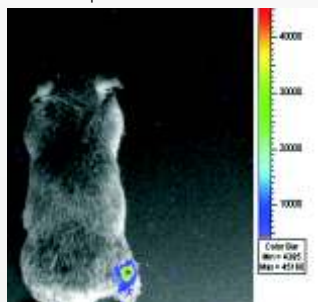
PlasmidFactory's proprietary *minicircle* system is based on a parental plasmid carrying a selection marker, the origin of replication (*ori*), two recombination sites and the gene-of-interest. The recombination of a PP results in two circular supercoiled molecules: A miniplasmid containing the selection 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



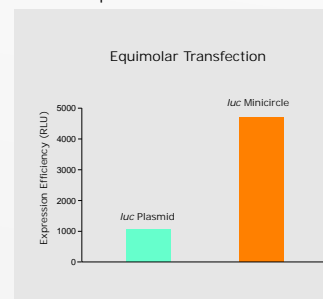
## Performance studies of PlasmidFactory's firefly luciferase minicircle:

*In Vivo* Expression



*In vivo* transfection of mouse muscle by sonoporation using Sonidel™ SP 100 (P. O Corragain, Sonidel™ Ltd, and A. P. McHale, University of Ulster)

*In Vitro* Expression



*In vitro* transfection of HCT116 cells using metafectene (D. Kobelt, J. Aumann, W. Walther, Charité and MDC Berlin)

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

	concentration [mg/mL]	size [bp]	chrDNA [%]	LPS endotoxin [E.U./mg]	ccc supercoil [%] by CGE
MC07.CMV- <i>luc</i> (minicircle, PF698, 100 µg)	1.0	3881	£3.0	£5.0	± 90.0
pCMV- <i>luc</i> (plasmid, PF461, 100 µg)	1.0	6233	£3.0	£5.0	± 90.0
WFI (water for injection, 500 µL)					

## Order information:

McBox<sup>0</sup>-*luc*, item no.: PFBBox101

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