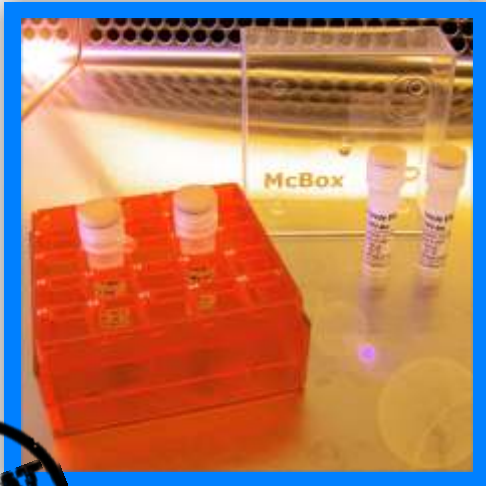


McBox[®] *lacZ*

Research beyond the state-of-the-art



NEW

A new member of
the McBox family!

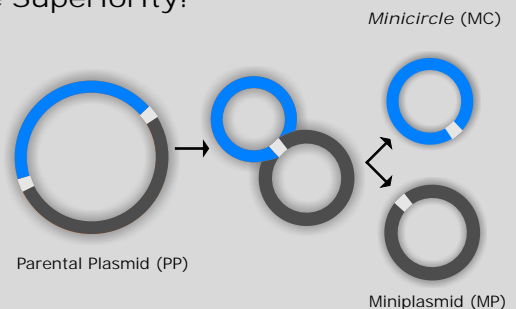
Minicircle - minimized DNA
to achieve unsurpassed
lacZ expression

Minicircle DNA by PlasmidFactory

- Minimal size
 - Highest purification level
 - No bacterial backbone sequences (*ori*, *AB*[®])
 - 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

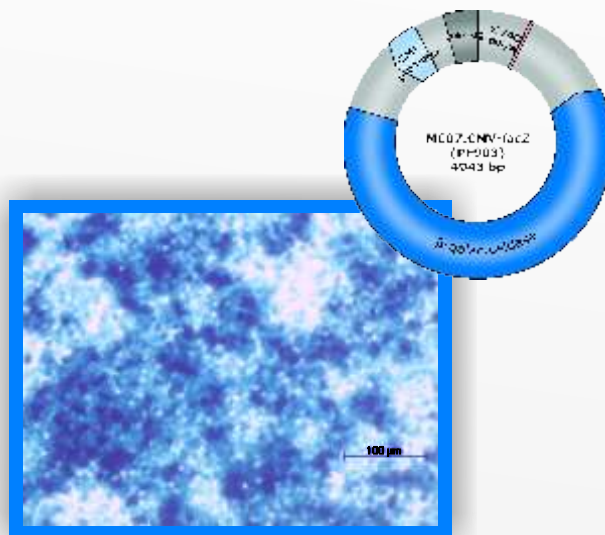
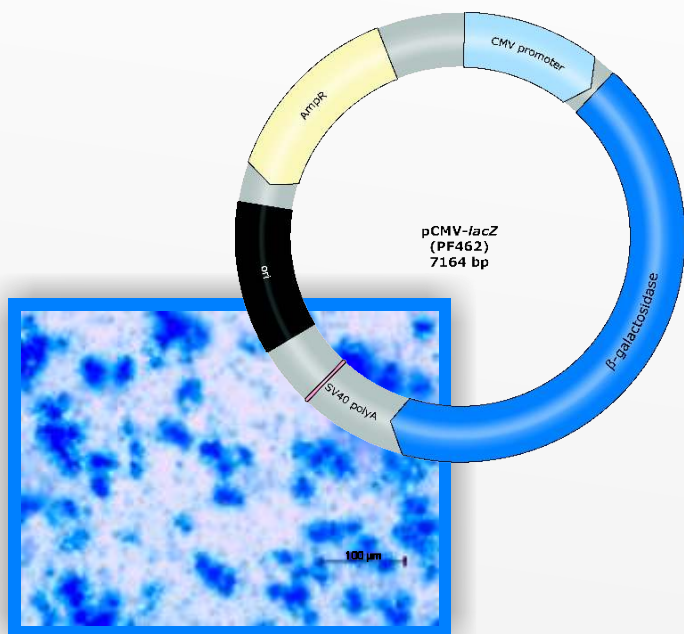
- ➔ Compare the first *minicircle* DNA encoding β -galactosidase (*lacZ*) with the corresponding plasmid in your experimental setting!
- ➔ Optimize your transfection!
- ➔ Order the new McBox[®] *lacZ*!

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



LacZ gene expression in HEK293T cells, transfected in equimolar amounts with LPEI: *LacZ* plasmid pCMV-*lacZ* (PF462, left), *LacZ* minicircle MC07.CMV-*lacZ* (PF903, right). Data kindly provided by A. Himmel & C. Rudolph, University of Munich, Germany.

The McBox⁰_{lacZ} contains:

	concentration [mg/mL]	size [bp]	chrDNA [%]	LPS endotoxin [E.U./mg]	ccc supercoil [%] by CGE
MC07.CMV- <i>lacZ</i> (minicircle, PF903, 100 μg)	1.0	4943	£3.0	£5.0	± 90.0
pCMV- <i>lacZ</i> (plasmid, PF462, 100 μg)	1.0	7164	£3.0	£5.0	± 90.0
WFI (water for injection, 500 μL)					

Order information:
McBox⁰-*lacZ*, item no.: PFBox103

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