

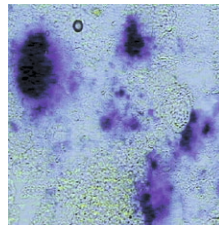
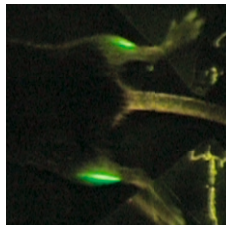
**In Stock Service**

# Reporter Gene Plasmids and *Minicircles*

**Plasmids and *minicircles* to go – immediate delivery off the shelf and ready to use**

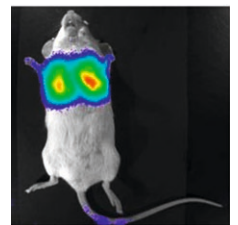
Reporter gene plasmids with *luc*, GFP, *lacZ*

**GFP**  
expression in skeletal mouse muscle<sup>[2]</sup>



***lacZ***  
expression in tumor tissue (mouse)<sup>[1]</sup>

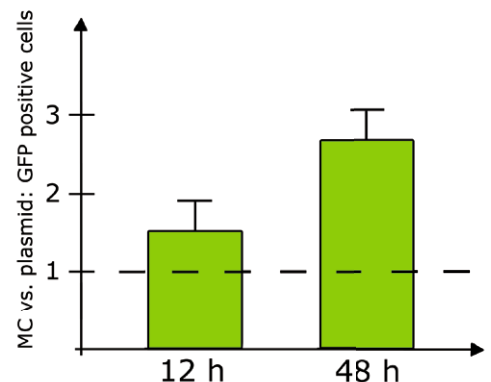
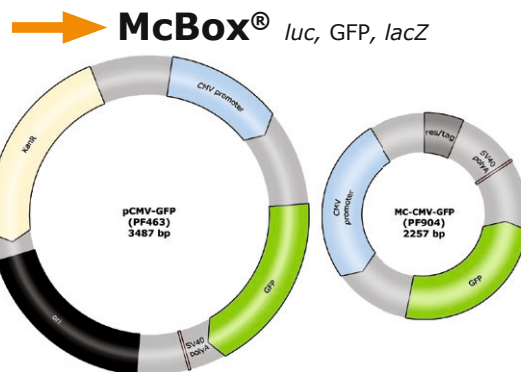
***luc***  
expression in mouse lung (electronically modified for evaluation)<sup>[3]</sup>



- [1] Walther and Stein, Max-Delbrück-Center for Molecular Medicine, Berlin  
[2] Trollet, Bigey and Scherman, Chemical and Genetic Pharmacology, Université René Descartes, Paris  
Ref. [1] and [2] in M. Schleef (ed.), DNA Pharmaceuticals, Wiley-VCH, 2005  
[3] Rudolph, Maucksch and Aneja, Kinderklinik and Polyklinik, Dr. v. Haunersches Kinderspital, LMU München

Reporter gene *minicircles*

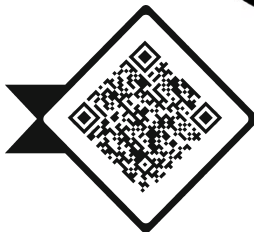
Compare *minicircle* DNA and the corresponding plasmid for optimized transfection



**Our service includes**

- **reproducible quality** of the DNA by our standardized manufacturing technology
- incl. **verified LPS-endotoxin removal**
- **fermentation without any animal derived component**
- exactly defined quality and a **homogeneous product** supported by our proprietary capillary gel electrophoresis (CGE) analysis technology for the quantification of different plasmid and *minicircle* topologies
- **complete characterization** of the product by LPS assay, BCA assay, UV spectroscopy, restriction analysis, detection of RNA and bacterial chromosomal DNA by agarose gel electrophoresis (AGE)

Learn more



## Reporter gene and control plasmid features

Available plasmid	Promoter/Reporter gene	Item no.	Plasmid size	Further specific features
pUC21*	–	PF450	3266 bp	Control plasmid, Amp resistance
pUK21*	–	PF451	3137 bp	Control plasmid, Kan resistance
pCMV	CMV/–	PF464	3546 bp	Control plasmid, Amp resistance
pCMV- <i>luc</i>	CMV/ <i>firefly-luciferase</i>	PF461	6233 bp	Amp resistance
pCMV- <i>lacZ</i>	CMV/ $\beta$ - <i>galactosidase</i>	PF462	7164 bp	Amp resistance
pCMV-GFP	CMV/ <i>green fluorescent protein</i>	PF463	3487 bp	Kan resistance

\*Reference: Vieira, J. and Messing, J. (1991), New pUC-derived cloning vectors with different selectable markers and DNA-replication origins, Gene 100, 189-194

## McBox® features

McBox® <i>luc</i> (Item no. PFBox101)	concentration (mg/mL)	size (bp)	chrDNA (%)	LPS endotoxin (E.U./mg)	ccc supercoil (%) by CGE
MC.CMV- <i>luc</i> ( <i>minicircle</i> , 100µg)	1.0	3881	≤ 3.0	≤ 5.0	≥ 90.0
pCMV- <i>luc</i> (plasmid, 100µg)	1.0	6233	≤ 3.0	≤ 5.0	≥ 90.0
WFI (water for injection, 500µL)					

McBox®GFP (Item no. PFBox102)	concentration (mg/mL)	size (bp)	chrDNA (%)	LPS endotoxin (E.U./mg)	ccc supercoil (%) by CGE
MC.CMV-GFP ( <i>minicircle</i> , 100µg)	1.0	2257	≤ 3.0	≤ 5.0	≥ 90.0
pCMV-GFP (plasmid, 100µg)	1.0	3487	≤ 3.0	≤ 5.0	≥ 90.0
WFI (water for injection, 500µL)					

McBox® <i>lacZ</i> (Item no. PFBox103)	concentration (mg/mL)	size (bp)	chrDNA (%)	LPS endotoxin (E.U./mg)	ccc supercoil (%) by CGE
MC.CMV- <i>lacZ</i> ( <i>minicircle</i> , 100µg)	1.0	4943	≤ 3.0	≤ 5.0	≥ 90.0
pCMV- <i>lacZ</i> (plasmid, 100µg)	1.0	7164	≤ 3.0	≤ 5.0	≥ 90.0
WFI (water for injection, 500µL)					

## Further *In Stock* products

- AAV Helper & Packaging plasmids
- pEPito and pEPI plasmids containing S/MAR elements



**PlasmidFactory.com**

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