

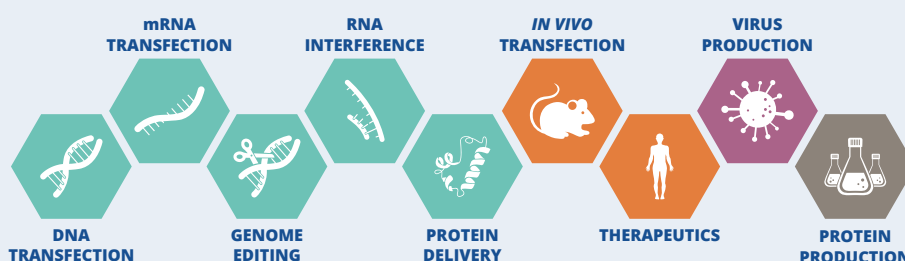


# LIFE SCIENCE RESEARCH & NON VIRAL *IN VIVO* TRANSFECTION REAGENTS

2021 • EDITION

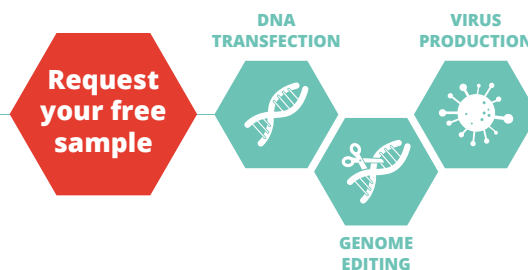
Polyplus-transfection® is a biotechnology company that develops innovative solutions for the delivery of nucleic acids in life science research, *in vivo* transfection, biologics manufacturing and cell & gene therapies.

Because quality is our top priority, Polyplus-transfection® is ISO 9001-certified since 2002.



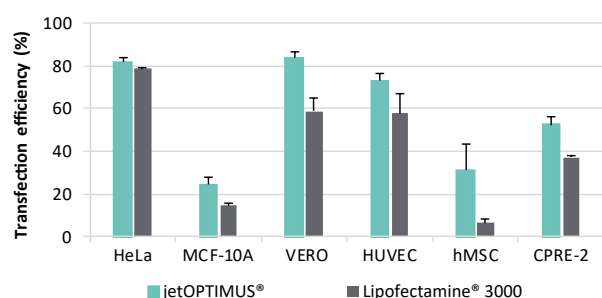
# DNA transfection reagent: jetOPTIMUS®

Reach higher gene expression in mammalian cells!

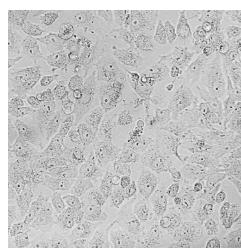


- Highly efficient:**  
Reach maximal gene expression in hard-to-transfect cells
- Cost-effective:**  
Use minimum reagent volume and DNA quantity
- Biologically relevant:**  
Keep an excellent cell viability & morphology
- Time-saving:**  
Transfect with an optimized ready-to-use protocol

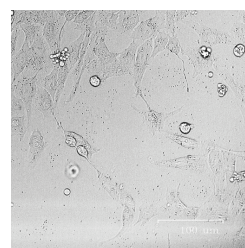
jetOPTIMUS® outperforms its main competitor with no sign of cell toxicity after transfection:



Transfections were performed on several cell lines following standard protocols.



jetOPTIMUS®



Lipofectamine® 3000

Transfections were performed on VERO cells following standard protocols.

# siRNA/miRNA transfection reagent: INTERFERin®

Use less siRNA and reach higher silencing efficiency without off-target effects!

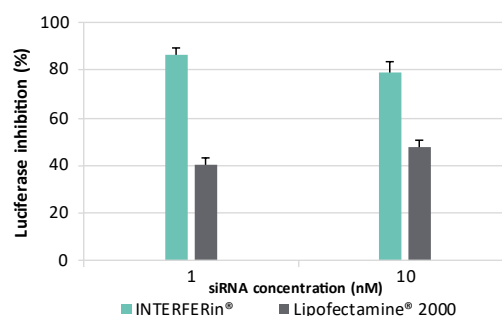


- High silencing efficiency:**  
Reach over 90% gene silencing in a wide variety of cells
- Low off-target effects:**  
Use as little as 1 nM siRNA
- Gentle mode of action:**  
Maintain an excellent cell viability
- Easy to use:**  
Rely on optimized protocols compatible with both serum and antibiotics

INTERFERin® allows efficient gene silencing using low siRNA concentration:



Transfections were performed on CaSki cell line following standard protocol.



Transfections were performed on 3LL cells stably expressing luciferase following standard protocols.

# mRNA transfection reagent: jetMESSENGER®

Take your gene expression to the next level by switching to mRNA!

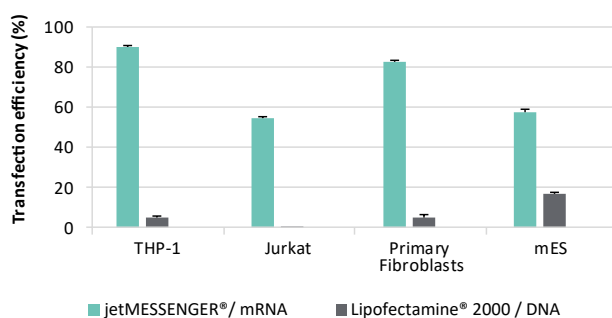
Request  
your free  
sample

mRNA  
TRANSFECTION

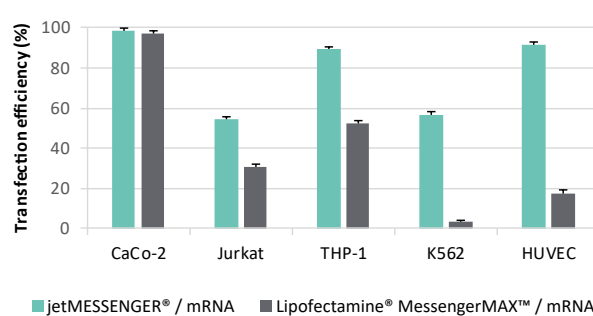
GENOME  
EDITING

- + **Unmatched transfection efficiency:**  
Outperform DNA transfection by switching to mRNA
- + **Extremely gentle on cells:**  
Maintain a good cell viability
- + **Efficient on a wide variety of hard-to-transfect cells:**  
Transfect slow dividing, quiescent and primary/stem cells
- + **Perfectly suited for numerous applications:**  
Achieve gene expression, CRISPR gene editing, iPS generation and much more

jetMESSENGER® outperforms both DNA and mRNA competitors:



Transfections were performed on several cell lines following standard protocols.

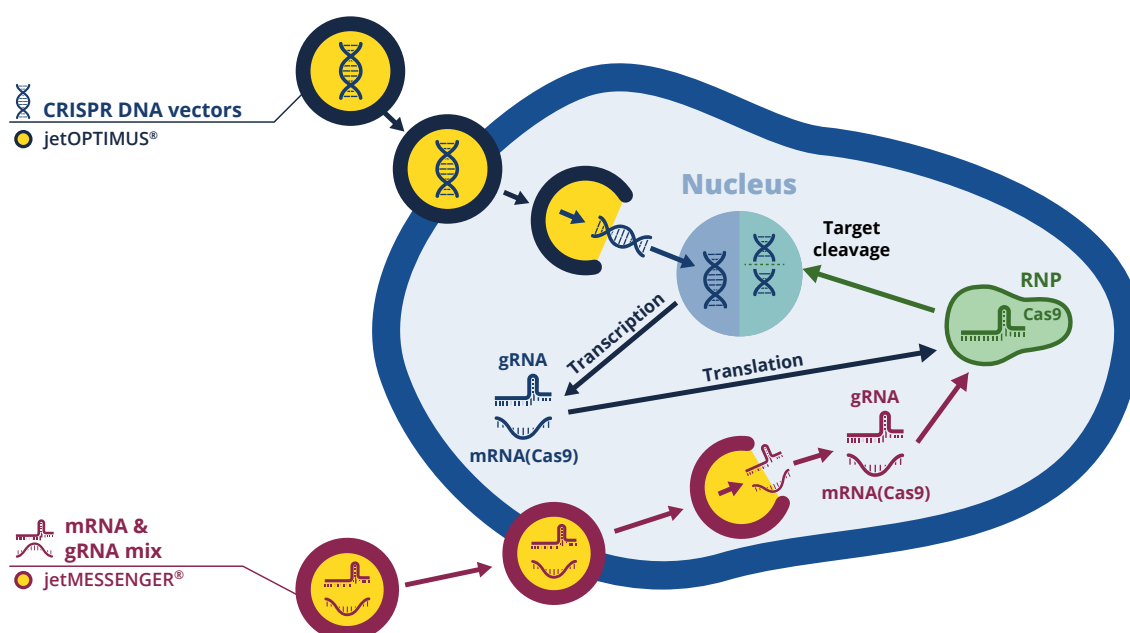


Transfections were performed on several cell lines following standard protocols.

## Our solutions for CRISPR Genome editing

Transfection reagents for DNA and RNA CRISPR approaches!

GENOME  
EDITING



*in vivo* CRISPR experiments are successfully achieved with *in vivo*-jetPEI®

# Our solutions for *in vivo* transfection:

## *in vivo*-jetPEI® & *in vivo*-jetRNA®

Injectable transfection reagents for Gene therapy and Vaccination!



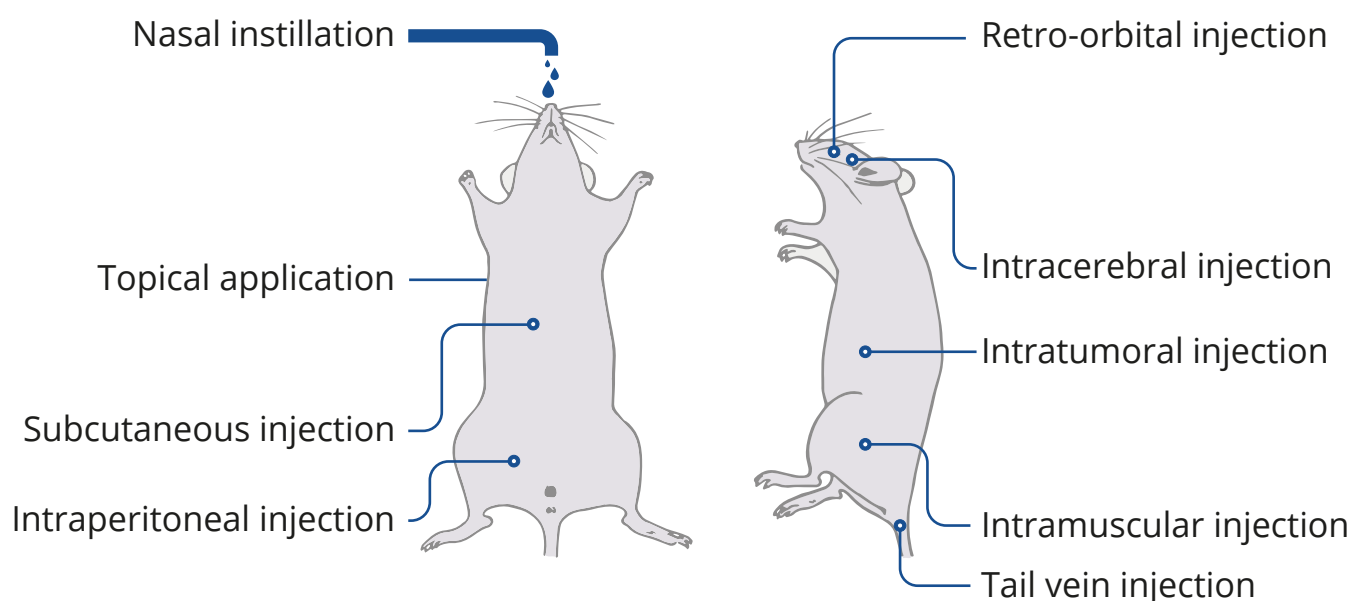
Benefit from our *in vivo* transfection reagents *in vivo*-jetPEI® and *in vivo*-jetRNA®:

- + **Easy to use:** two-step protocol
- + **Adaptable:** suitable for any injection route to target any organ
- + **Tailored:** Customized protocols from *in vivo* delivery experts



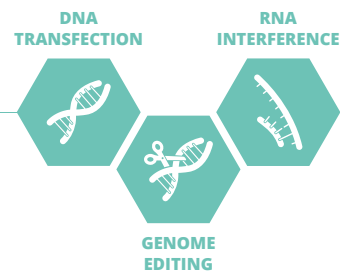
- + ***in vivo* transfection of DNA, si/sh/miRNA in any animal model**
- + **Renowned:**  
Most advanced *in vivo* transfection technology with over 700 peer-reviewed publications
- + **Successful:**  
Used from fundamental research to Human clinical trials (GMP-grade available)

- + ***in vivo* transfection of mRNA in any animal model**
- + **Powerful:**  
High delivery efficiency for mRNA-based vaccination
- + **Superior safety profile:**  
No genome integration



Injection in animal model via any administration route  
with *in vivo*-jetPEI® or *in vivo*-jetRNA®

# LIFE SCIENCE RESEARCH



siRNA

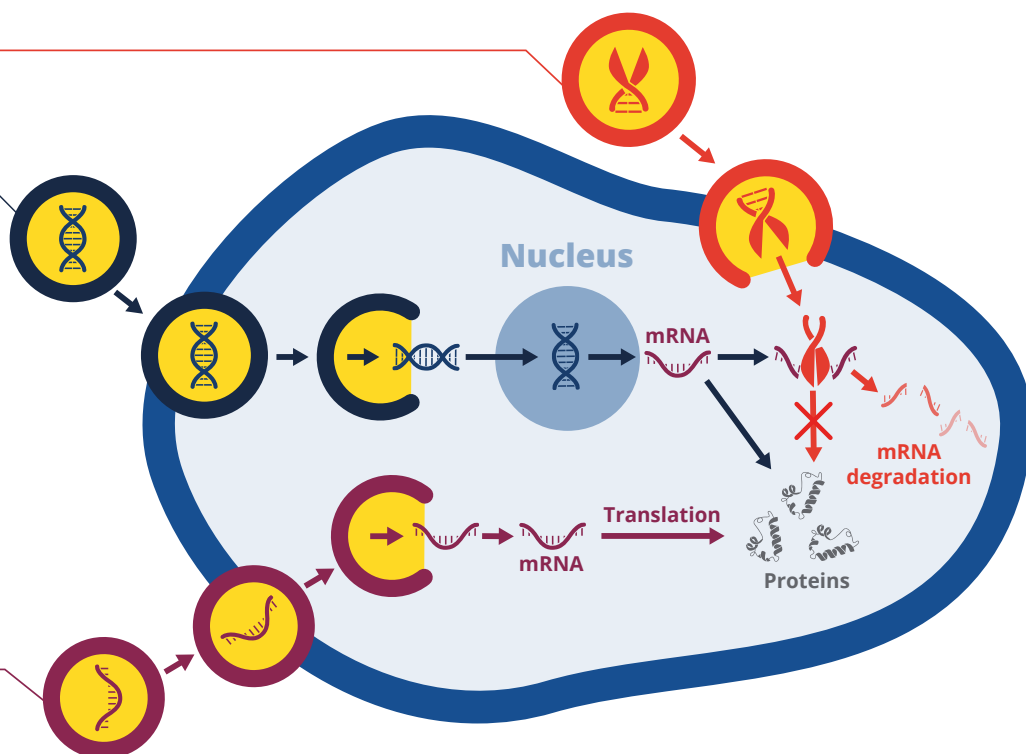
INTERFERin®

Plasmid DNA

jetOPTIMUS®

mRNA

jetMESSENGER®



CONTACT OUR SCIENTIFIC AND TECHNICAL SUPPORT



[www.bionordika.se](http://www.bionordika.se)













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08-30 60 10

DNA  
TRANSFECTIONmRNA  
TRANSFECTIONGENOME  
EDITINGRNA  
INTERFERENCEPROTEIN  
DELIVERYVIRUS  
PRODUCTIONHIGH THROUGHPUT  
SCREENINGCELL  
SPECIFICIN VIVO  
TRANSFECTION

THERAPEUTICS

ORGAN  
SPECIFIC

Product		Product Size	Buffer size	Reference number
<b>in vitro transfection</b>				
<b>jetOPTIMUS®</b> Best-in-class DNA Transfection Reagent For hard-to-transfect cells		0.1 mL	10 mL	117-01
		0.75 mL	2 x 60 mL	117-07
		1.5 mL	4 x 60 mL	117-15
<b>jetPRIME®</b> DNA and/or siRNA Transfection Reagent		0.1 mL	5 mL	114-01
		0.75 mL	60 mL	114-07
		1.5 mL	2 x 60 mL	114-15
		5 x 1.5 mL	10 x 60 mL	114-75
<b>INTERFERin®</b> siRNA/miRNA Transfection Reagent		0.1 mL	-	409-01
		1 mL	-	409-10
		5 x 1 mL	-	409-50
<b>jetMESSENGER®</b> mRNA Transfection Reagent For hard-to-transfect cells		0.1 mL	10 mL	150-01
		0.75 mL	60 mL	150-07
<b>jetPEI®</b> DNA Transfection Reagent For High Throughput Screening		1 mL	50 mL	101-10N
		4 x 1 mL	4 x 50 mL	101-40N
<b>jetPEI®-Hepatocyte</b> DNA Transfection Reagent for hepatocytes		0.5 mL	50 mL	102-05N
<b>jetPEI®-Macrophage</b> DNA Transfection Reagent for macrophages		0.5 mL	50 mL	103-05N
<b>PULSin®</b> Protein, Antibody and Peptide Delivery Reagent 200 µL positive control included		0.4 mL	20 mL	501-04
<b>NaCl 150 mM solution</b>		-	50 mL	702-50
<b>jetOPTIMUS® Buffer</b>		-	60 mL	717-60
<b>jetPRIME® Buffer</b>		-	60 mL	712-60
<b>in vivo transfection</b>				
<b>in vivo-jetPEI®</b> in vivo DNA & si/miRNA Transfection Reagent		0.1 mL	10 mL	201-10G
		0.5 mL	2 x 10 mL	201-50G
<b>in vivo-jetPEI®-Gal</b> in vivo DNA & si/miRNA Transfection Reagent Galactose-conjugated		0.1 mL	10 mL	202-10G
<b>in vivo-jetPEI®-Man</b> in vivo DNA & si/miRNA Transfection Reagent Mannose-conjugated		0.1 mL	10 mL	203-10G
<b>in vivo-jetRNA®</b> in vivo mRNA Transfection Reagent		0.3 mL	2 x 10 mL	204-03
		1 mL	60 mL	204-10
<b>Glucose Solution</b>		-	10 mL	701-10

Polyplus-transfection® provides solutions for other applications such as viral vector production for Gene & Cell therapy and protein & mAb production. Please contact our sales representative for more information.

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