

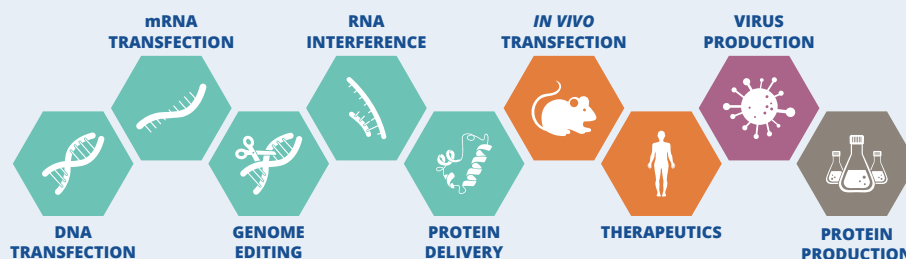


LIFE SCIENCE RESEARCH & NON VIRAL IN VIVO TRANSFECTION REAGENTS

2021 • EDITION

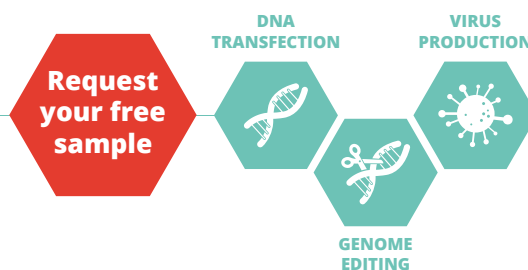
Polyplus-transfection® is a biotechnology company that develops innovative solutions for the delivery of nucleic acids in life science research, *in vivo* transfection, biologics manufacturing and cell & gene therapy.

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



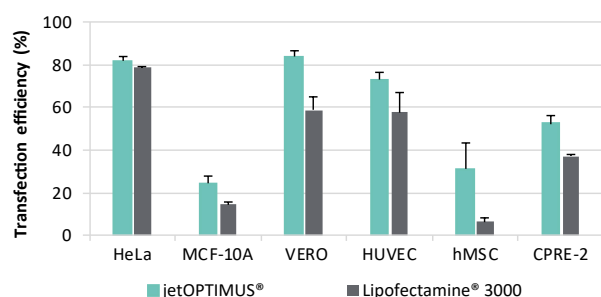
DNA transfection reagent: jetOPTIMUS®

Reach higher gene expression in mammalian cells!

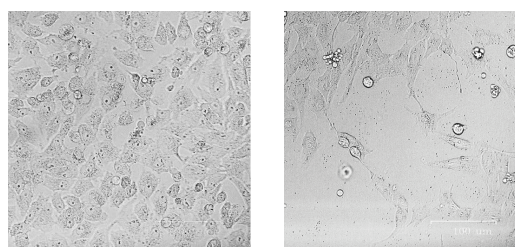


- Highly efficient:**
Reach maximal gene expression in hard-to-transfect cells
- Cost-effective:**
Use minimum reagent volume and DNA quantity
- Biologically relevant:**
Keep an excellent cell viability & morphology
- Time-saving:**
Transfect with an optimized ready-to-use protocol

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!

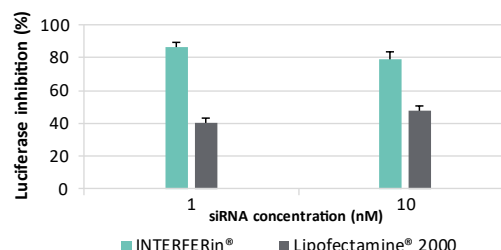


- High silencing efficiency:**
Reach over 90% gene silencing in a wide variety of cells
- Low off-target effects:**
Use as little as 1 nM siRNA
- Gentle mode of action:**
Maintain an excellent cell viability
- Easy to use:**
Rely on optimized protocols compatible with both serum and antibiotics

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!

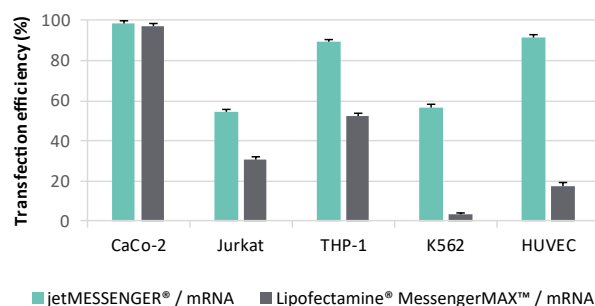
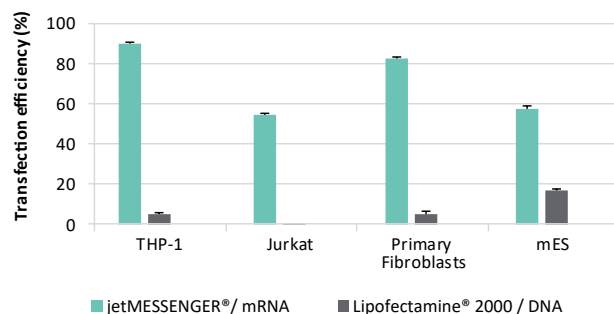
Request
your free
sample

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

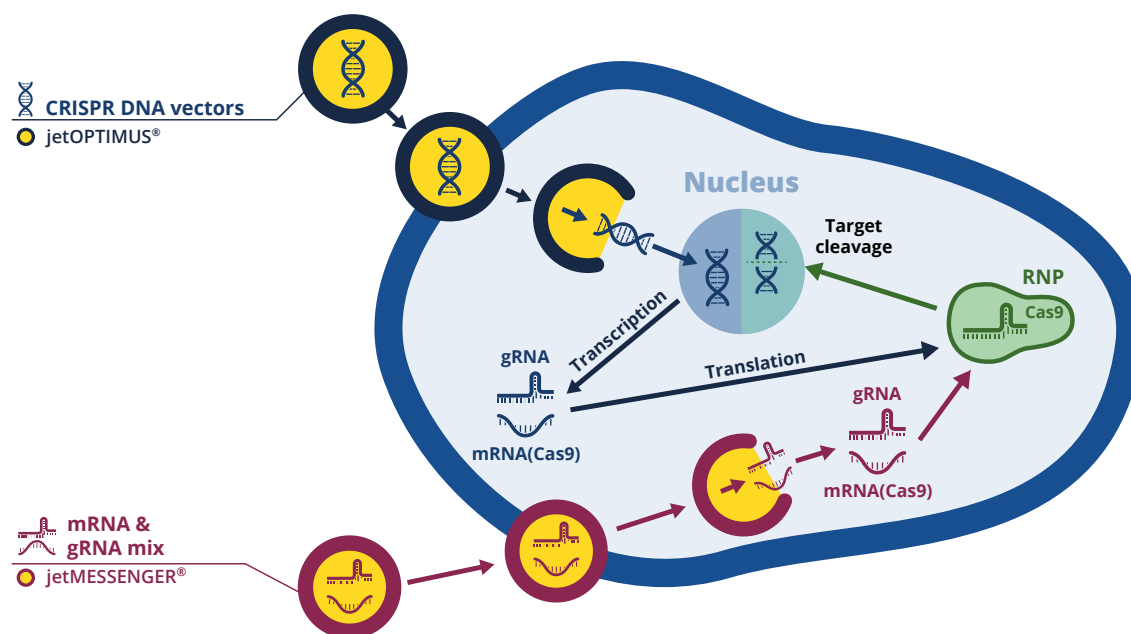
jetMESSENGER® outperforms both DNA and mRNA competitors:



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®

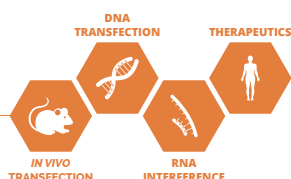
Injectable transfection reagents for Gene therapy and Vaccination!



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

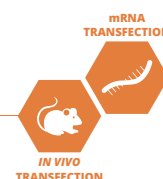
- + **Easy to use:** two-step protocol
- + **Adaptable:** suitable for any injection route to target any organ
- + **Tailored:** Customized protocols from *in vivo* delivery experts

in vivo-jetPEI®

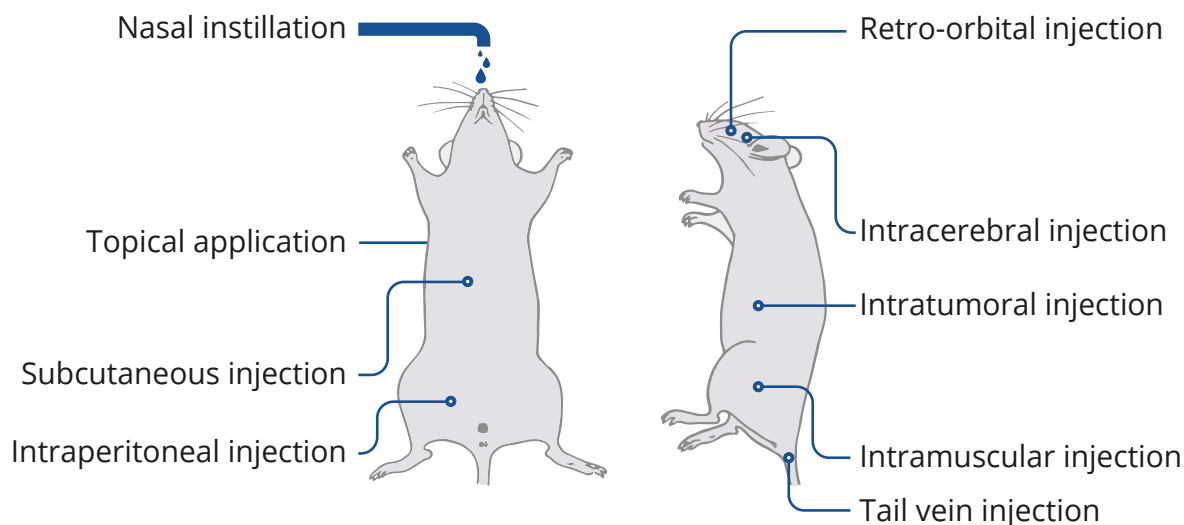


- + ***in vivo* transfection of DNA, si/sh/miRNA in any animal model**
- Renowned:**
 - + Most advanced *in vivo* transfection technology with over 700 peer-reviewed publications
- Successful:**
 - + Used from fundamental research to Human clinical trials (GMP-grade available)

in vivo-jetRNA®

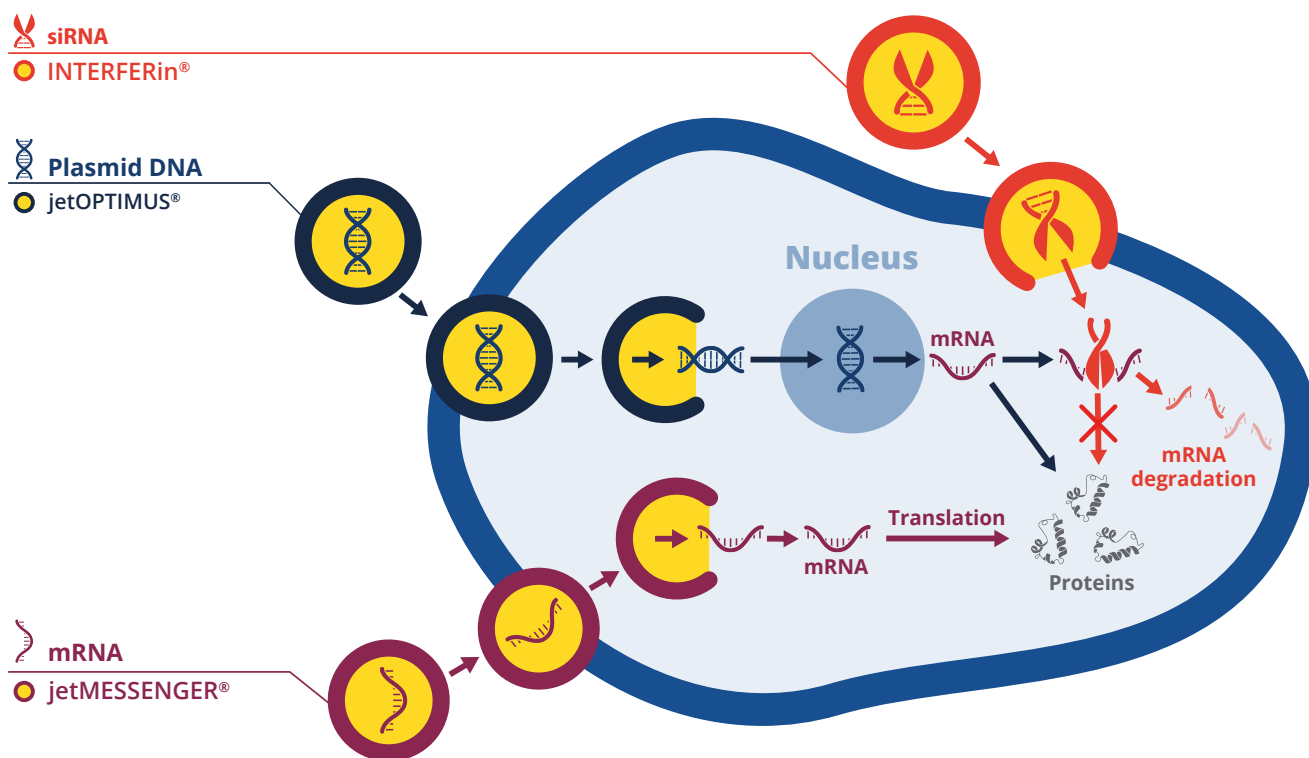
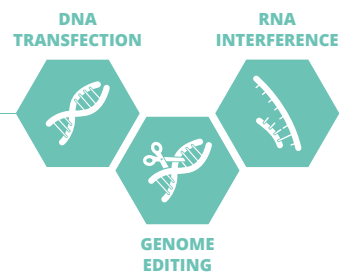


- + ***in vivo* transfection of mRNA in any animal model**
- Powerful:**
 - + High delivery efficiency for mRNA-based vaccination
- Superior safety profile:**
 - + No genome integration



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

LIFE SCIENCE RESEARCH





**DNA
TRANSFECTION**



**mRNA
TRANSFECTION**



**GENOME
EDITING**



**RNA
INTERFERENCE**



**PROTEIN
DELIVERY**



**VIRUS
PRODUCTION**



**HIGH THROUGHPUT
SCREENING**



**CELL
SPECIFIC**



**IN VIVO
TRANSFECTION**



THERAPEUTICS



**ORGAN
SPECIFIC**

Product		Product Size	Buffer size	Reference number	VWR Ref n°
in vitro transfection					
jetOPTIMUS® Best-in-class DNA Transfection Reagent For hard-to-transfect cells		0.1 mL	10 mL	117-01	76299-630
		0.75 mL	2 x 60 mL	117-07	76299-632
		1.5 mL	4 x 60 mL	117-15	76299-634
jetPRIME® DNA and/or siRNA Transfection Reagent		0.1 mL	5 mL	114-01	89129-920
		0.75 mL	60 mL	114-07	89129-922
		1.5 mL	2 x 60 mL	114-15	89129-924
		5 x 1.5 mL	10 x 60 mL	114-75	89129-926
INTERFERin® siRNA/miRNA Transfection Reagent		0.1 mL	-	409-01	89129-928
		1 mL	-	409-10	89129-930
		5 x 1 mL	-	409-50	89129-932
jetMESSENGER® mRNA Transfection Reagent for hard-to-transfect cells		0.1 mL	10 mL	150-01	75806-306
		0.75 mL	60 mL	150-07	75806-224
jetPEI® DNA Transfection Reagent For High Throughput Screening		1 mL	50 mL	101-10N	89129-916
		4 x 1 mL	4 x 50 mL	101-40N	89129-918
jetPEI®-Hepatocyte DNA Transfection Reagent for hepatocytes		0.5 mL	50 mL	102-05N	89129-944
jetPEI®-Macrophage DNA Transfection Reagent for macrophages		0.5 mL	50 mL	103-05N	89129-974
PULSIn® Protein, Antibody and Peptide Delivery Reagent 200 µL positive control included		0.4 mL	20 mL	501-04	89129-956
NaCl 150 mM solution		-	50 mL	702-50	89129-970
jetOPTIMUS® Buffer		-	60 mL	717-60	76327-128
jetPRIME® Buffer		-	60 mL	712-60	76327-130
in vivo transfection					
in vivo-jetPEI® <i>in vivo</i> DNA & si/miRNA Transfection Reagent		0.1 mL	10 mL	201-10G	89129-960
		0.5 mL	2 x 10 mL	201-50G	89129-962
in vivo-jetPEI®-Gal <i>in vivo</i> DNA & si/miRNA Transfection Reagent Galactose-conjugated		0.1 mL	10 mL	202-10G	89129-964
in vivo-jetPEI®-Man <i>in vivo</i> DNA & si/miRNA Transfection Reagent Mannose-conjugated		0.1 mL	10 mL	203-10G	89129-998
in vivo-jetRNA® <i>in vivo</i> mRNA Transfection Reagent		0.3 mL	2 x 10 mL	204-03	76358-644
		1 mL	60 mL	204-10	76358-646

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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transfection®

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