

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

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.



avantor™
delivered by **VWR**™

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Polyplus+

DNA transfection reagent: jetOPTIMUS®

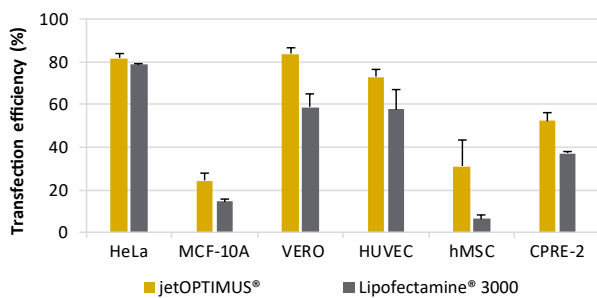
Request
your free
sample

Reach higher gene expression in mammalian cells!

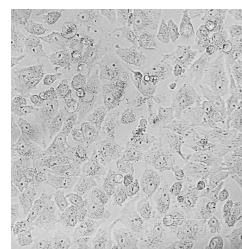


- + Highly efficient: Reach maximal gene expression in hard-to-transfect cells
- + Biologically relevant: Keep an excellent cell viability & morphology
- + Cost-effective: Use minimum reagent volume and DNA quantity
- + Time-saving: Transfect with an optimized ready-to-use protocol

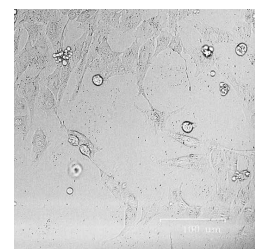
jetOPTIMUS® outperforms its main competitor with no sign of cell toxicity after transfection:



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®

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sample

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

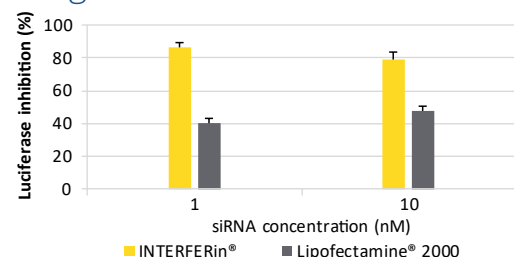


- + High silencing efficiency: Reach over 90% gene silencing in a wide variety of cells
- + Gentle mode of action: Maintain an excellent cell viability
- + Low off-target effects: Use as little as 1 nM siRNA
- + Easy to use: Rely on optimized protocols compatible with both serum and antibiotics

INTERFERin® allows efficient gene silencing using low siRNA concentration:



Transfections were performed on CaSki cell line following standard protocol.

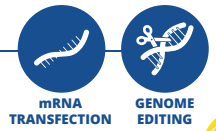


Transfections were performed on 3LL cells stably expressing luciferase following standard protocols.

mRNA transfection reagent: jetMESSENGER®

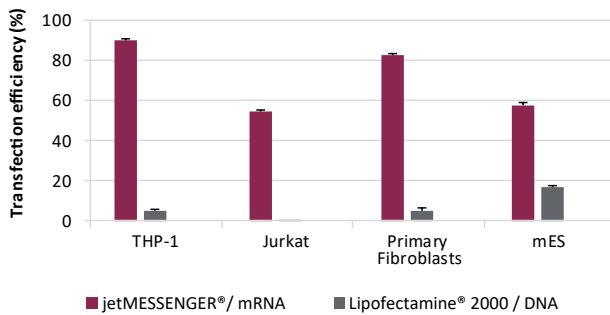
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Take your gene expression to the next level by switching to mRNA!

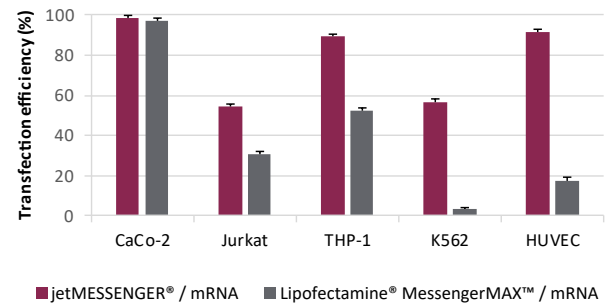


- + Unmatched transfection efficiency: Outperform DNA transfection by switching to mRNA
- + Extremely gentle on cells: Maintain a good cell viability
- + Efficient on a wide variety of hard-to-transfect cells: Transfect slow dividing, quiescent and primary/stem cells
- + Perfectly suited for numerous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

jetMESSENGER® outperforms both DNA and mRNA competitors:



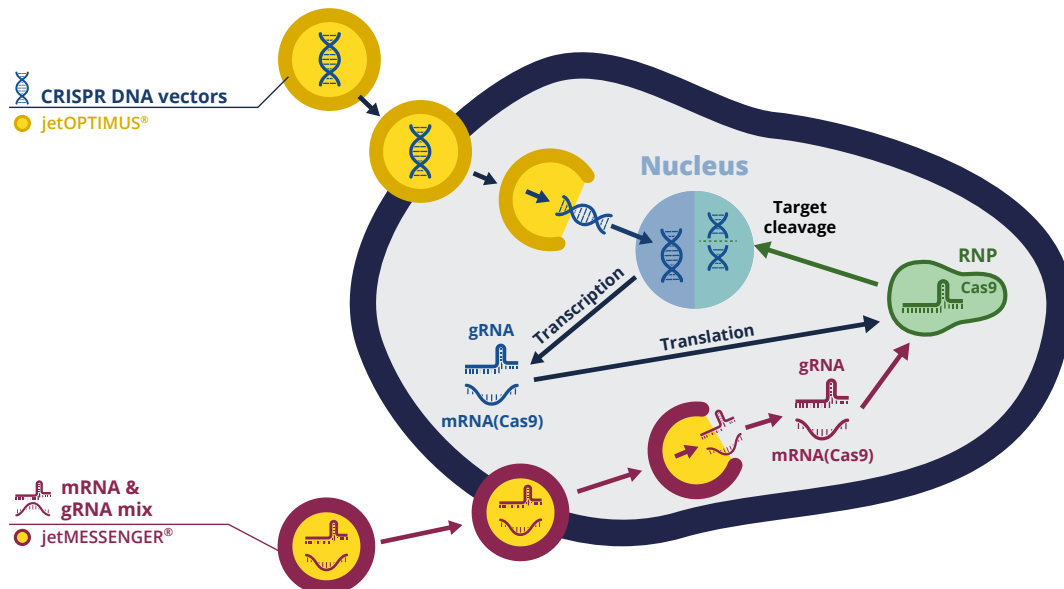
Transfections were performed on several cell lines following standard protocols.



Transfections were performed on several cell lines following standard protocols.

Our solutions for CRISPR Genome editing

Transfection reagents for DNA and RNA CRISPR approaches!



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®



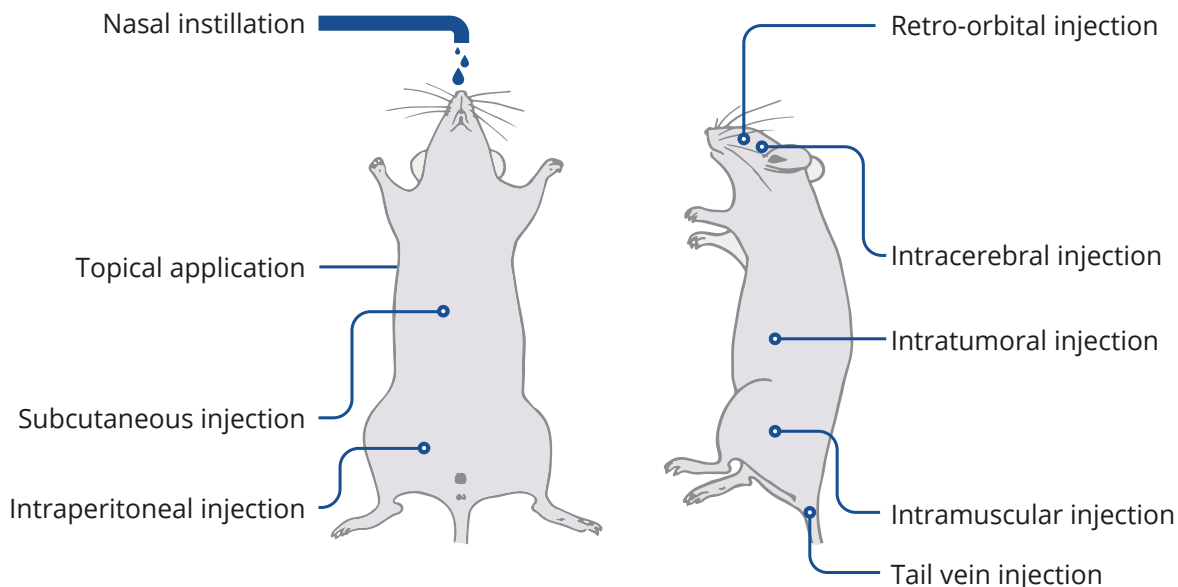
- + *in vivo* transfection of mRNA in any animal model

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®

Transfection reagents for life science research

siRNA

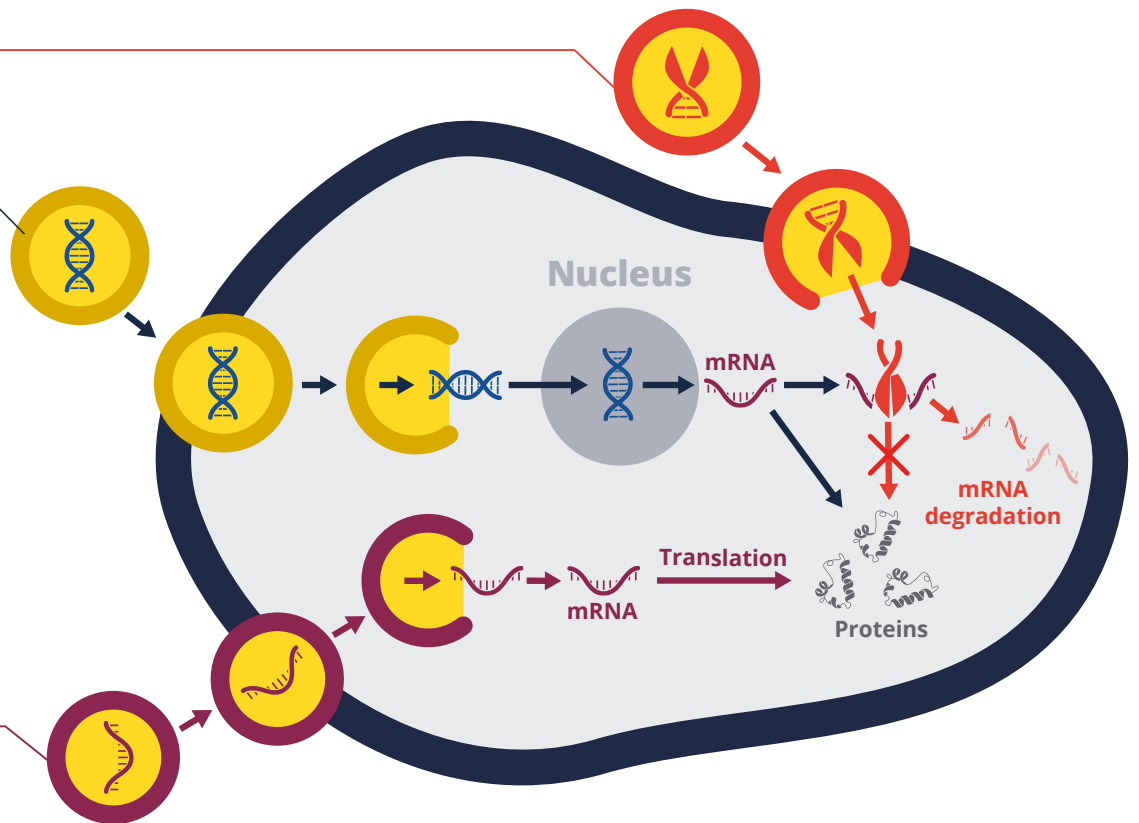
INTERFERin®

Plasmid DNA

jetOPTIMUS®

mRNA

jetMESSENGER®



Polyplus⁺

Product	Product Size	Buffer size	Part number
<i>in vitro</i> transfection			
jetOPTIMUS® Best-in-class DNA Transfection Reagent For hard-to-transfect cells	0.1 mL	10 mL	101000051
	0.75 mL	2 x 60 mL	101000025
	1.5 mL	4 x 60 mL	101000006
jetPRIME® DNA and/or siRNA Transfection Reagent	0.1 mL	5 mL	101000027
	0.75 mL	60 mL	101000015
	1.5 mL	2 x 60 mL	101000046
	5 x 1.5 mL	10 x 60 mL	101000001
INTERFERin® siRNA/miRNA Transfection Reagent	0.1 mL	-	101000036
	1 mL	-	101000028
	5 x 1 mL	-	101000016
jetMESSENGER® mRNA Transfection Reagent For hard-to-transfect cells	0.1 mL	10 mL	101000056
	0.75 mL	60 mL	101000005
jetPEI® DNA Transfection Reagent For High Throughput Screening	1 mL	50 mL	101000053
	4 x 1 mL	4 x 50 mL	101000020
PULSin® Protein, Antibody and Peptide Delivery Reagent 200 µL positive control included	0.4 mL	20 mL	101000010
NaCl 150 mM solution	-	50 mL	201000002
jetOPTIMUS® Buffer	-	60 mL	201000001
jetPRIME® Buffer	-	60 mL	201000003
<i>in vivo</i> transfection			
<i>in vivo</i>-jetPEI® <i>in vivo</i> DNA & si/miRNA Transfection Reagent	0.1 mL	10 mL	101000040
	0.5 mL	2 x 10 mL	101000030
<i>in vivo</i>-jetRNA® <i>in vivo</i> mRNA Transfection Reagent	0.3 mL	2 x 10 mL	101000013
	1 mL	60 mL	101000021
Glucose Solution	-	10 mL	201000005



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