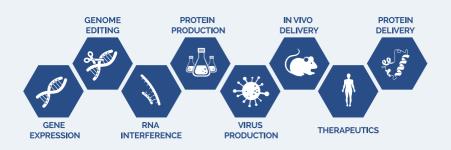


RESEARCH PRODUCTS 2019 • EDITION

Polyplus-transfection® is a biotechnology company that develops innovative solutions for the delivery of nucleic acids in research, bioproduction and therapeutics.

Quality is our top priority and Polyplus-transfection® is ISO 9001-certified since 2002.



jetOPTIMUS®

Best-in-class DNA transfection reagent

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:

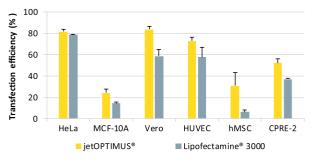
keep an excellent cell viability & morphology

Time-saving:

transfect with an optimized ready-to-use protocol

Highly efficient:

jetOPTIMUS® outperforms its main competitor.



Transfections were performed on several cell lines following standard protocols.

Biologically relevant:

No sign of cell toxicity after transfection.





jetOPTIMUS®

Lipofectamine® 3000

Transfections were performed on Vero cells following standard protocols.

Cost-effective: Do more with less!

DNA transfection (standard protocol) in 24-well plate				
Reagent	Volume of Reagent per well (μL)	Number of transfections per 1.5 mL vial	Cost per reaction per well	
jetOPTIMUS®	0.5	3000	X	
Lipofectamine® 3000	0.75 – 1.5	2000-1000	2X to 3X	

jetPRIME® - versatile DNA & siRNA transfection reagent is still available.

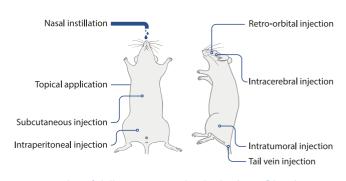
in vivo-jetPEI®

in vivo nucleic acid delivery

Choose an easy and safe delivery method for your in vivo proof of concept!



- Deliver any nucleic acid, to any animal model, using any injection route
- **•** Proven Track record: over 700 publications
- Very easy to use: just mix and inject
- Safe: No inflammatory response triggered
- Protocols tailored for your application by Polyplus delivery experts
- cGMP grade available for clinical trials



Examples of delivery routes using in vivo-jetPEI $^{\!@}$ in mice

jetMESSENGER®

mRNA transfection reagent for hard-to-transfect cells

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



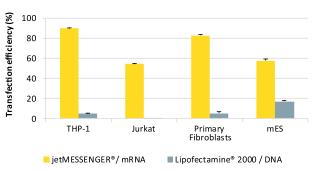


- Unmatched transfection efficiency:
 Outperform DNA transfection by switching to mRNA
- **Efficient on a wide variety of hard to transfect cells:** Transfect slow dividing, quiescent and primary/stem cells
- Extremely gentle on cells: Maintain a good cell viability
- Perfectly suited for numerous applications:

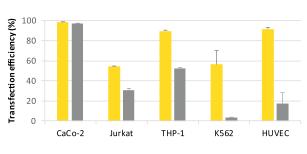
 Achieve gene expression, CRISPR gene editing, iPS generation and much more!

Unmatched transfection efficiency:

jetMESSENGER® outperforms both DNA and mRNA competitors



Transfections were performed on several cell lines following standard protocols.



jetMESSENGER® / mRNA ■ Lipofectamine® MessengerMAX™ / mRNA

Transfections were performed on several cell lines following standard protocols.

INTERFERIN®

siRNA/miRNA transfection reagent

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

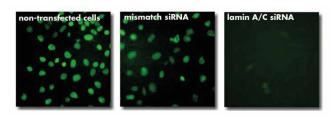
Request your free sample



- 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

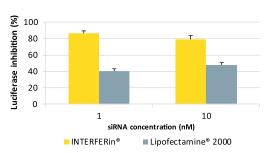
- Gentle mode of action:
 - Maintain an excellent cell viability
 - Easy to use:
- Rely on optimized protocols compatible with both serum and antibiotics

Efficient gene silencing



Transfections were performed on CaSki cell line following standard protocols.

Great silencing using low siRNA concentration

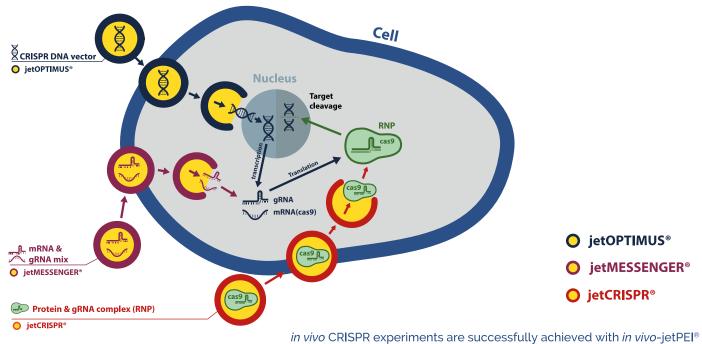


Transfections were performed on 3LL cells stably expressing luciferase following standard protocols.

Our solutions for CRISPR Genome editing

Find a transfection reagent for all CRISPR approaches (DNA, RNA or RNP)!





jetCRISPR®

RNP (Cas9 protein + gRNA) transfection reagent

Combine jetCRISPR® and SpCas9 Nuclease for efficient gene editing!



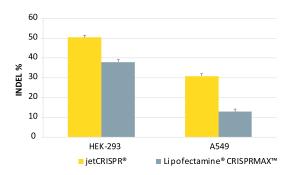


- High genome editing efficiency using RNP: Deliver both Cas protein (Cas9, Cpf1) and gRNA
- Maintained cell viability:
 Work with healthy cells in a physiological environment

Reduced off-target effect:

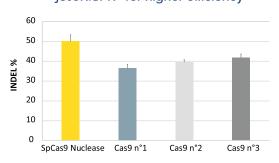
- Use our SpCas9 Nuclease to achieve fast and reliable gene editing
- Easy to prepare:
 Choose between two optimized protocols

jetCRISPR® outperforms its main competitor



Transfections were performed on A549 and HEK-293 cells following standard protocols.

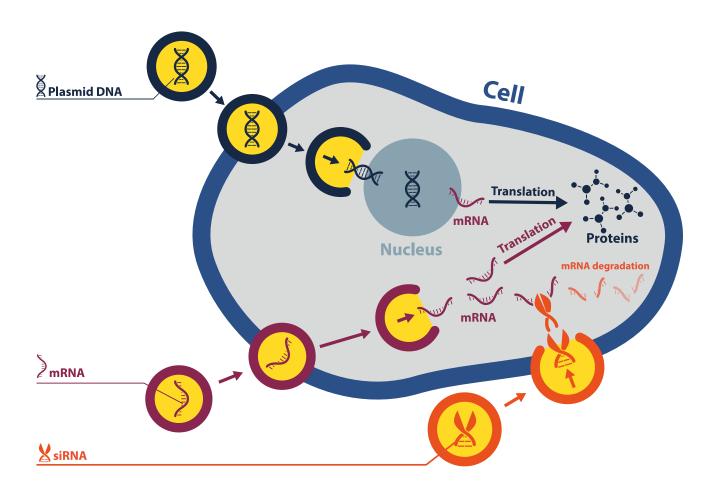
Combine both SpCas9 Nuclease and jetCRISPR® for higher efficiency



Transfections were performed on HEK-293 cells following standard protocols.

RESEARCH PRODUCTS





- **O** jetOPTIMUS® DNA transfection reagent
- **o** jetMESSENGER® mRNA transfection reagent
- INTERFERIn® siRNA/miRNA transfection reagent

















Product	Product Size	Buffer size	Reference numbe
<i>in vitro</i> transfection			
ietOPTIMUS®	0.1 mL	10 mL	117-01
Best-in-class DNA	0.75 mL	2 x 60 mL	117-07
Transfection Reagent	1.5 mL	4 x 60 mL	117-15
	0.1 mL	5 mL	114-01
jetPRIME®	0.75 mL	60 mL	114-07
DNA and/or siRNA Transfection Reagent	1.5 mL	2 x 60 mL	114-15
Transfection Reagent	5 x 1.5 mL	10 x 60 mL	114-75
jetMESSENGER®	0.1 mL	10 mL	150-0
mRNA Transfection Reagent	0.75 mL	60 mL	150-0
For hard-to-transfect cells	1.5 mL	2 x 60 mL	150-15
	0.1 mL	-	409-01
INTERFERIn® siRNA/miRNA Transfection Reagent	1 mL	-	409-10
3irtiva militiva mansiection reagent	5 x 1 mL	-	409-50
jetCRISPR®	0.1 mL	-	502-0
RNP Transfection Reagent For genome editing	0.75 mL	-	502-0
SpCasg Nuclease Casg protein for genome editing	100 µg	-	722-10
jetPEI®	1 mL	50 mL	101-10
DNA Transfection Reagent For High Throughput Screening	4 x 1 mL	4 x 50 mL	101-401
jetPEI®-Hepatocyte DNA Transfection Reagent for hepatocyte cells	0.5 mL	50 mL	102-05
jetPEI®-Macrophage DNA Transfection Reagent for macrophage cells	0.5 mL	50 mL	103-05
jetPEI®-HUVEC DNA Transfection Reagent for HUVEC cells	0.5 mL	50 mL	108-05
PULSin® Protein, Antibody and Peptide Delivery Reagent 200 µL positive control included	0.4 mL	20 mL	501-0
NaCl 150 mM solution	-	50 mL	702-5
<i>in vivo</i> delivery			
in vivo-jetPEI®	0.1 mL	10 mL	201-100
in vivo nucleic acid Delivery Reagent	0.5 mL	2 x 10 mL	201-500
in vivo-jetPEI®-Gal in vivo nucleic acid Delivery Reagent Galactose-conjugated	0.1 mL	10 mL	202-100
in vivo-jetPEI®-Man in vivo nucleic acid Delivery Reagent Mannose-conjugated	0.1 mL	10 mL	203-100
jetSI 10 mM siRNA Delivery Reagent into the Brain	0.5 mL		403-0
Glucose Solution	-	10 mL	701-1

Polyplus-transfection® provides solutions for other applications such as Bioproduction (protein & virus production) and Cell and Gene Therapy. Please contact our scientific support for more information.

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