Polyplus transfection®

THE DELIVERY EXPERTS

# RESEARCH REAGENTS

2018 • 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.**

afaq ISO 9001 Qualité AFNOR CERTIFICATION

Versatile DNA &/or siRNA Transfection Reagent

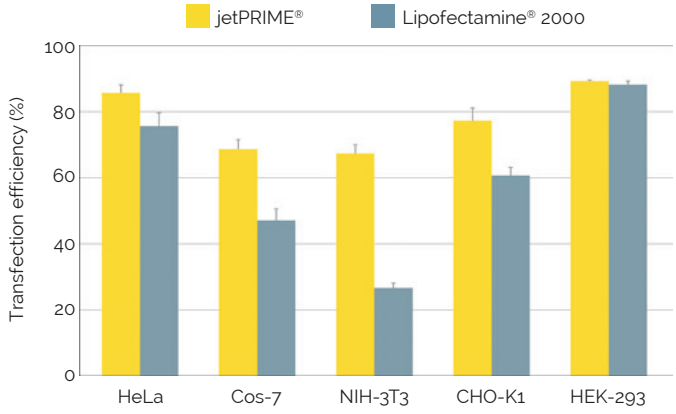
# jetPRIME®

GENE EXPRESSION | GENOME EDITING | RNA INTERFERENCE | VIRUS PRODUCTION

- High DNA transfection efficiency
- Low amounts of nucleic acid
- Superior cell viability
- Cost-effective

## SUPERIOR DNA TRANSFECTION EFFICIENCY

Yields higher transgene expression



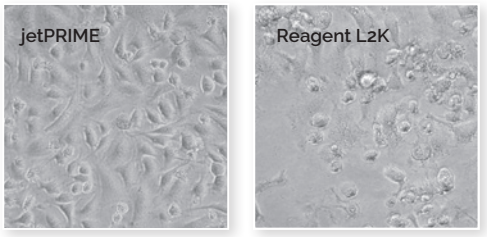

FACS analysis 24 h after GFP plasmid transfection according to the manufacturer's recommendation.

## EASY PROTOCOL, COMPATIBLE WITH SERUM & ANTIBIOTICS

Save time, no media changes prior transfection and no need for serum free medium.

## BETTER CELL VIABILITY

More reliable and more reproducible results




Phase contrast microscopy of HeLa cells 24 h after transfection according to the manufacturer's recommendation.

## COST-EFFECTIVE

Use less reagent, less DNA and perform 2-3 times more experiments per vial

| 6-well plate | | | |
|---|---|---|---|
| Reagent | Volume of reagent per well | Amount of DNA per well | Number of transfections per 1.5 ml vial |
| jetPRIME® | 2 - 4 µl | 1 - 2 µg | 375 - 750 |
| L2K | 5 - 12.5 µl | 2.5 µg | 120 - 300 |

*in vivo* nucleic acid Delivery Reagent

# *in vivo*-jetPEI®

IN VIVO DELIVERY | THERAPEUTICS

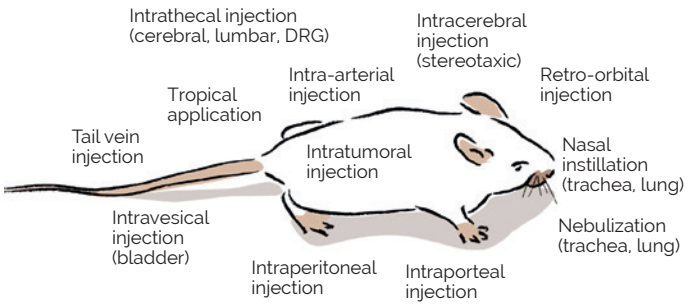
**IDEAL FOR SUBCUTANEOUS TUMOR MODELS**

## EASY AND SAFE DELIVERY FOR *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
- cGMP grade available for clinical trials
- Safe: no inflammatory response triggered
- Protocols tailored for your application by Polyplus delivery experts

For *ex vivo* application, contact our Technical Support.

Examples of delivery routes using *in vivo*-jetPEI in mice.




Request your sample of jetPRIME®, jetCRISPR™, jetMESSENGER® or INTERFERin® on www.polyplus-transfection.com

RNP (Cas9 protein and gRNA) Transfection Reagent

# jetCRISPR™

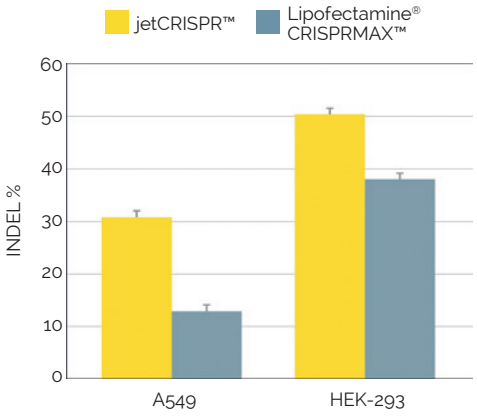
GENOME EDITING

PROTEIN DELIVERY

- High genome editing efficiency
- Excellent cell viability and morphology
- Fast and reliable gene editing
- Easy to use: Reverse and Forward protocols

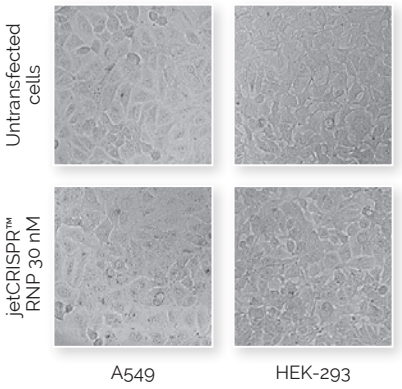
Increase your genome editing efficiency using jetCRISPR™ with SpCas9 Nuclease.

## SUPERIOR GENE EDITING EFFICIENCY




Indel efficiency was measured 48h after transfection according to the manufacturer's recommendation.

## EXCELLENT CELL VIABILITY AND MORPHOLOGY




Cell morphology was visualized by a phase contrast imager 48h after transfection according to the manufacturer's recommendation.

mRNA Transfection reagent for hard-to-transfect cells

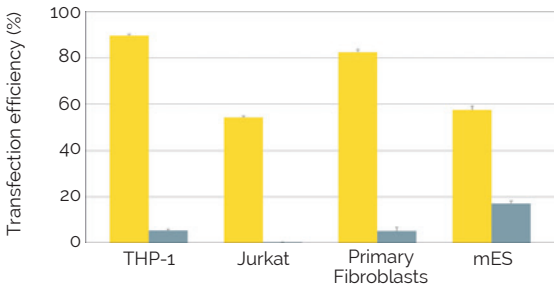
# jetMESSENGER®

GENE EXPRESSION

GENOME EDITING

- Unmatched transfection efficiency
- Outstanding results on a wide variety of hard-to-transfect cells, adherent and suspension
- Extremely gentle on cells
- No risk of plasmid integration

## OUTPERFORMS DNA TRANSFECTION




FACS analysis after transfection of eGFP mRNA or plasmid DNA encoding for eGFP according to the manufacturers' recommendation.

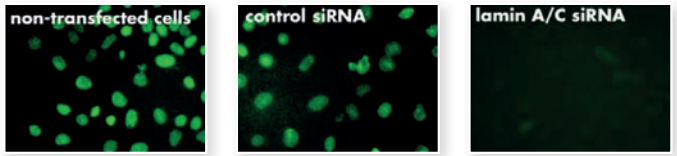
siRNA/miRNA Transfection Reagent

# INTERFERin®

RNA INTERFERENCE

- Avoid off-target effects and get high gene silencing with only 1 nM siRNA
- Suitable for miRNA transfection
- Up to 90% gene silencing in many cell types
- Easy protocol, compatible with serum & antibiotics
- Excellent cell viability

## EFFICIENT GENE SILENCING




Efficient and specific gene silencing following 1 nM INTERFERin-mediated siRNA transfection. Immunofluorescence microscopy 48 h after transfection

Request your sample of jetPRIME®, jetCRISPR™, jetMESSENGER® or INTERFERin® on www.polyplus-transfection.com

GENE EXPRESSION

GENOME EDITING

RNA INTERFERENCE

PROTEIN DELIVERY

*IN VIVO* DELIVERY

THERAPEUTICS

VIRUS PRODUCTION

PROTEIN PRODUCTION

| Product | Product size | Buffer size | Polyplus Cat N° |
|---|---|---|---|
| ***in vitro transfection*** | | | |
| **jetPRIME®**<br>DNA and/or siRNA<br>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 |
| **jetCRISPR™**<br>RNP Transfection Reagent<br>for genome editing | 0.1 ml | - | 502-01 |
| | 0.75 ml | - | 502-07 |
| | 1.5 ml | - | 502-15 |
| **SpCas9 Nuclease**<br>Cas9 protein for genome editing | 100 µg | - | 722-100 |
| **jetMESSENGER®**<br>mRNA Transfection Reagent<br>for hard to transfect cells | 0.1 ml | 10 ml | 150-01 |
| | 0.75 ml | 60 ml | 150-07 |
| | 1.5 ml | 2 x 60 ml | 150-15 |
| **INTERFERin®**<br>siRNA Transfection Reagent | 0.1 ml | - | 409-01 |
| | 1 ml | - | 409-10 |
| | 5 x 1 ml | - | 409-50 |
| **jetPEI®**<br>DNA High Throughput Screening<br>Transfection Reagent | 0.1 ml | 5 ml | 101-01N |
| | 1 ml | 50 ml | 101-10N |
| | 4 x 1 ml | 4 x 50 ml | 101-40N |
| | 10 ml | 2 x 250 ml | 101B-010N |
| **jetPEI®-Hepatocyte**<br>DNA Transfection Reagent for hepatocyte cells | 0.5 ml | 50 ml | 102-05N |
| **jetPEI®-Macrophage**<br>DNA Transfection Reagent for macrophage cells | 0.5 ml | 50 ml | 103-05N |
| **jetPEI®-HUVEC**<br>DNA Transfection Reagent for HUVEC cells | 0.5 ml | 50 ml | 108-05N |
| **PULSin**<br>Protein, Antibody and Peptide Delivery Reagent<br>200 µL positive control included | 0.1 ml | 20 ml | 501-01 |
| | 0.4 ml | 20 ml | 501-04 |
| ***in vivo delivery*** | | | |
| ***in vivo*-jetPEI®**<br>*in vivo* nucleic acid Delivery Reagent | 0.1 ml | 10 ml | 201-10G |
| | 0.5 ml | 2 x 10 ml | 201-50G |
| ***in vivo*-jetPEI®-Gal**<br>*in vivo* nucleic acid Delivery Reagent,<br>Galactose-conjugated | 0.1 ml | 10 ml | 202-10G |
| ***in vivo*-jetPEI®-Man**<br>*in vivo* nucleic acid Delivery Reagent,<br>Mannose-conjugated | 0.1 ml | 10 ml | 203-10G |
| **jetSI 10 mM**<br>siRNA Delivery Reagent into the brain | 0.5 ml | - | 403-05 |
| ***Bioproduction*** | | | |
| **FectoPRO®**<br>DNA Transfection Reagent for<br>High Protein and Antibody Yield | 1 ml | 1 ml | 116-001 |
| | 10 ml | 10 ml | 116-010 |
| | 4 x 10 ml | 4 x 10 ml | 116-040 |
| **PEIpro®**<br>DNA Transfection Reagent for<br>Large scale Virus Production | 1.5 ml | - | 115-0015 |
| | 10 ml | - | 115-010 |
| | 100 ml | - | 115-100 |
| | 4 x 100 ml | - | 115-400 |
| | 10 x 100 ml | - | 115-01k |



CONTACT OUR TECHNICAL SUPPORT

support@polyplus-transfection.com
+33 (0)3 90 40 61 87
www.polyplus-transfection.com

Polyplus transfection®
THE DELIVERY EXPERTS

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