



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.

Versatile DNA &/or siRNA Transfection Reagent

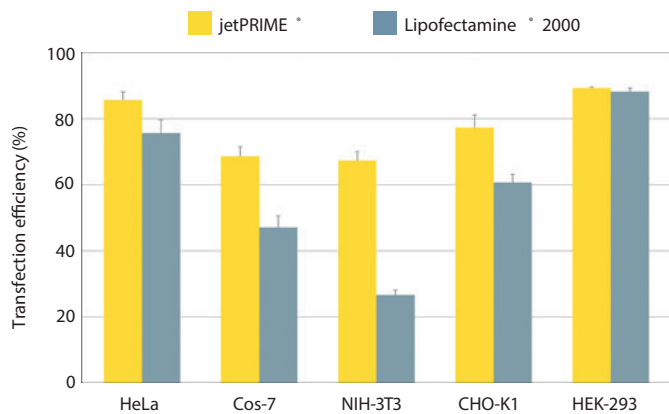
jetPRIME®



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

SUPERIOR DNA TRANSFECTION EFFICIENCY

Yields higher transgene expression



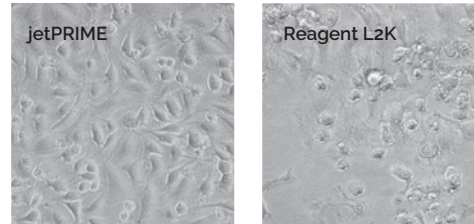
FACS analysis 24 h after GFP plasmid transfection according to the manufacturer's recommendation.

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 μ l	1 - 2 μ g	375 - 750
L2K	5 - 12.5 μ l	2.5 μ g	120 - 300

in vivo nucleic acid Delivery Reagent

in vivo-jetPEI®



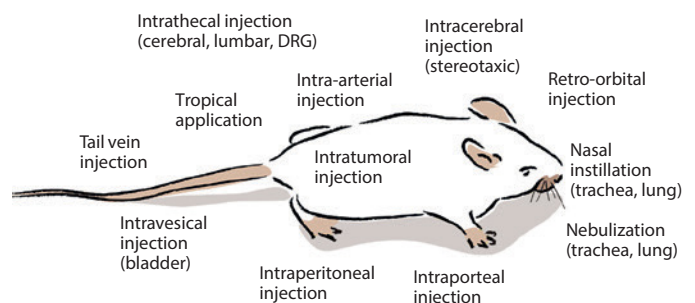
IDEAL FOR SUBCUTANEOUS
TUMOR MODELS

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.



RNP (Cas9 protein and gRNA) Transfection Reagent

jetCRISPR™



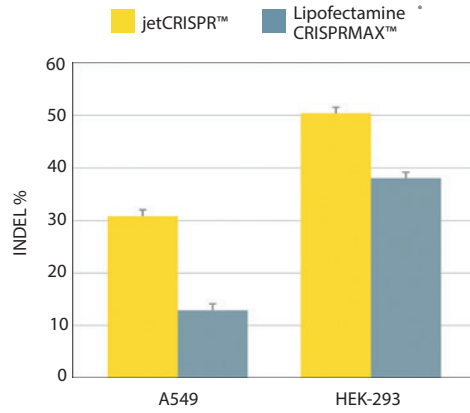
GENOME EDITING



PROTEIN DELIVERY

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

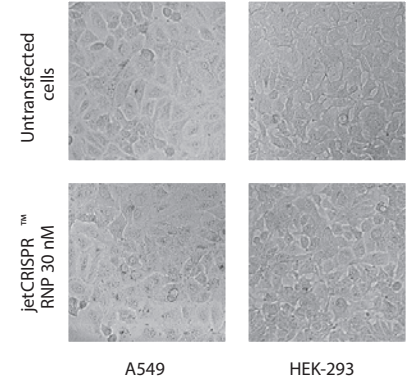
SUPERIOR GENE EDITING EFFICIENCY



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

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

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®



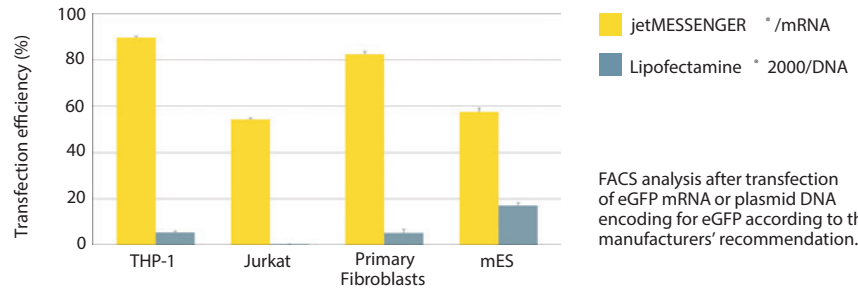
GENE EXPRESSION



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

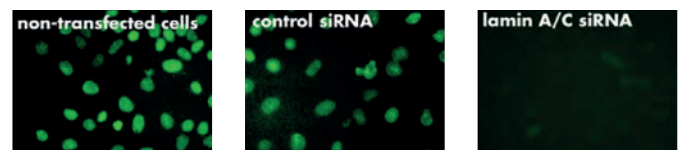
INTERFERin®



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



Product		Product size	Buffer size	Polyplus Cat N°
<i>in vitro transfection</i>				
jetPRIME® 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
jetCRISPR™ RNP Transfection Reagent for genome editing		0.1 ml	-	502-01
		0.75 ml	-	502-07
		1.5 ml	-	502-15
SpCas9 Nuclease Cas9 protein for genome editing		100 µg	-	722-100
jetMESSENGER® mRNA Transfection Reagent 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® siRNA Transfection Reagent		0.1 ml	-	409-01
		1 ml	-	409-10
		5 x 1 ml	-	409-50
jetPEI® DNA High Throughput Screening 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 DNA Transfection Reagent for hepatocyte cells		0.5 ml	50 ml	102-05N
jetPEI®-Macrophage DNA Transfection Reagent for macrophage cells		0.5 ml	50 ml	103-05N
jetPEI®-HUVEC DNA Transfection Reagent for HUVEC cells		0.5 ml	50 ml	108-05N
PULSin Protein, Antibody and Peptide Delivery Reagent 200 µL positive control included		0.1 ml	20 ml	501-01
		0.4 ml	20 ml	501-04
<i>in vivo delivery</i>				
<i>in vivo</i>-jetPEI® <i>in vivo</i> nucleic acid Delivery Reagent		0.1 ml	10 ml	201-10G
		0.5 ml	2 x 10 ml	201-50G
<i>in vivo</i>-jetPEI®-Gal <i>in vivo</i> nucleic acid Delivery Reagent, Galactose-conjugated		0.1 ml	10 ml	202-10G
<i>in vivo</i>-jetPEI®-Man <i>in vivo</i> nucleic acid Delivery Reagent, Mannose-conjugated		0.1 ml	10 ml	203-10G
jetSI 10 mM siRNA Delivery Reagent into the brain		0.5 ml	-	403-05
<i>Bioproduction</i>				
FectoPRO® DNA Transfection Reagent for 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® DNA Transfection Reagent for 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

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