

Meet our transfection product family

Invitrogen™ Neon™ Transfection System

A simple, customizable, and gentle electroporation instrument for a variety of payloads.

- The proprietary pipette tip allows for a more uniform electric field
- An open platform with customizable protocols in addition to the preprogrammed 24-well optimization protocols that come standard

Request a demo at thermofisher.com/neon

Invitrogen™ Lipofectamine™ 3000 Transfection Reagent

Designed for exceptional DNA delivery efficiency into hard-to-transfect, primary, and cancer cell lines.

- A customizable formulation that is easily optimizable for the exact needs of specific cell types enabled by the combination of Lipofectamine 3000 reagent and the Invitrogen™ P3000™ Enhancer Reagent
- Requires a smaller volume of reagent per reaction, and eliminates the need for multiple transfection experiments, which results in a 10-fold higher efficiency for difficult cells

thermofisher.com/3000

Invitrogen™ Lipofectamine™ 2000 Transfection Reagent

Strong performance delivering DNA in a broad range of workhorse cell lines.

- The most cited DNA reagent in scientific literature
- Strong performance with cell lines that are easy to transfect and those of medium difficulty to transfect

thermofisher.com/2000

Invitrogen™ Lipofectamine™ RNAiMAX Transfection Reagent

The first lipid-mediated reagent for siRNA delivery.

- Effectively provides maximum knockdown with less siRNA and low cytotoxicity
- Works versatily across a wide range of cell types
- Ideal for high-throughput siRNA transfections

thermofisher.com/rnaimax

Invitrogen™ Lipofectamine™ MessengerMAX™ Transfection Reagent

Optimized for transfection of primary cells and neurons.

- Impressive mRNA delivery performance with >60% transfection efficiency in neurons and primary cells
- Faster protein expression with no risk of genomic integration with mRNA-based transfection

thermofisher.com/messengermax

Invitrogen™ Lipofectamine™ CRISPRMAX™ Cas9 Transfection Reagent

First transfection reagent optimized for CRISPR-Cas9 RNP delivery.

- Tested in over 20 cell types, including iPSCs, mouse ESCs, N2A, CHO, A549, HCT116, HeLa, and HEK293
- Gentler on cells than electroporation, with high-throughput compatibility
- Able to provide up to 85% cleavage efficiency

thermofisher.com/crisprmax

Invitrogen™ Lipofectamine™ Stem Transfection Reagent

Designed for the most difficult stem cell assays.

- Achieve up to 80% transfection efficiency in PSCs and NSCs and up to 45% in MSCs
- Delivers low toxicity and continues cell proliferation without inducing differentiation

thermofisher.com/lipofectaminestem

Invitrogen™ InvivoFectamine™ 3.0 Reagent

In vivo transfection reagent optimized for RNAi delivery.









- Impressive results with up to 85% knockdown achieved using microgram levels of siRNA
- Use up to 90% less siRNA than required with previous reagents for efficient, effective knockdown

thermofisher.com/invivolectamine



Transfection product family selection guide

Transfection solutions for DNA, RNA, mRNA, and protein delivery, providing a range of options to best suit your transfection experiment. Use the figure below to find the optimal solution for your cell line type.

Product								
	Neon Transfection System	Lipofectamine 3000 reagent	Lipofectamine 2000 reagent	Lipofectamine RNAiMAX reagent	Lipofectamine MessengerMax reagent	Lipofectamine CRISPRMAX reagent	Lipofectamine Stem reagent	InvivoFectamine reagent
Cell type	Workhorse	Workhorse	Workhorse	Workhorse	Workhorse	Workhorse		
	Hard-to-transfect	Hard-to-transfect		Hard-to-transfect	Hard-to-transfect	Hard-to-transfect		
	Primary	Primary		Primary	Primary	Primary		
	Stem	Stem		Stem	Stem		Stem	
Payload	DNA	DNA	DNA				DNA	
	siRNA or miRNA			siRNA or miRNA			siRNA or miRNA	siRNA or miRNA
	mRNA				mRNA		mRNA	
	CRISPR-Cas9 RNP					CRISPR-Cas9 RNP	CRISPR-Cas9 RNP	
	Antibody							
Delivery		Cotransfection	Cotransfection	<i>In vitro</i>				<i>In vivo</i>

Find out more information at [thermofisher.com/transfection](https://www.thermofisher.com/transfection)

ThermoFisher
SCIENTIFIC