EcoTransfect™ Results

EcoTransfect™ is a powerful reagent dedicated to the transfection of the most commonly used cell lines. This lipid -based transfection reagent is issued from OZ Biosciences innovative Tee-Technology.

EcoTransfect™ was specifically developed to achieve good transfection efficiency in most popular cell lines for everyday experiments. Indeed, many transfection experiments are simply made to check biological activity of DNA constructs, insert (new clones), transcriptionally activated PCR fragments, mRNA or antisense oligonucleotides as well as producing stable transfection, to named a few.

EcoTransfect™ is the perfect solution to quickly analyze the biological activity of your nucleic acids, to perform routine transfection assays and to accomplish high through put screening.

Nucleic Acid Types

EcoTransfect™ is suitable for plasmid DNA, linear DNA, transcriptionally activated PCR fragments, mRNA, antisense oligonucleotides.

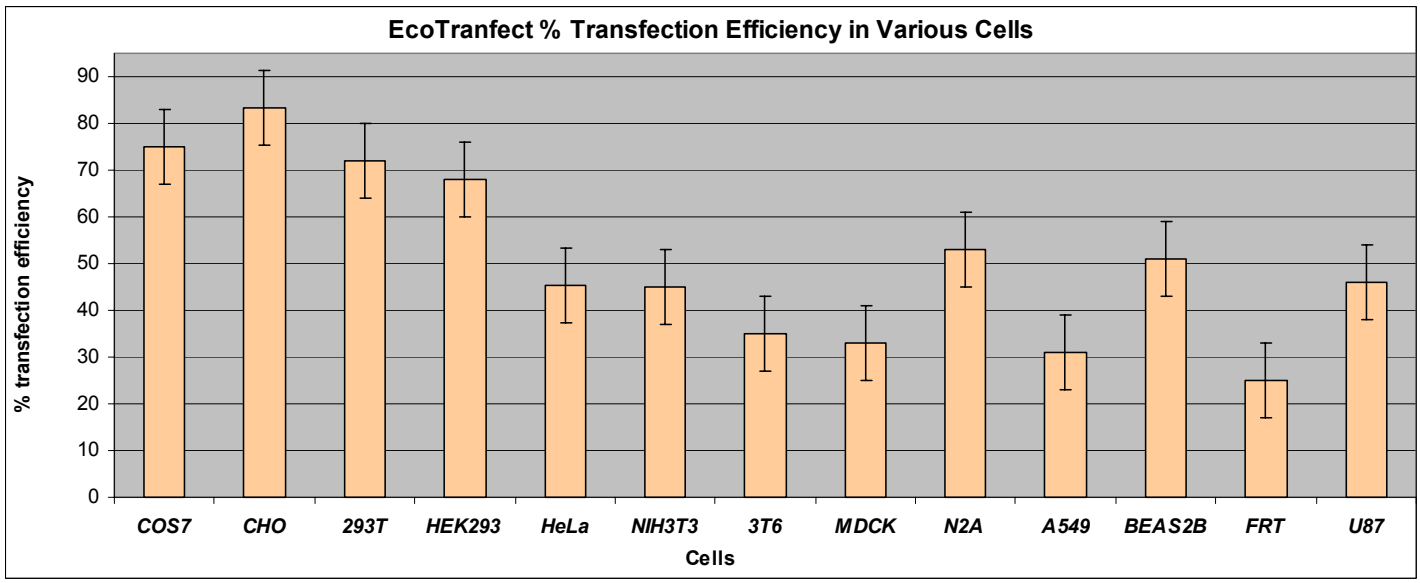
Cell Types

EcoTransfect™ has been successfully tested on several generally and popular used cells lines.

293, 293T	**CHO, CHO-K1**	**COS1**	**COS7**	**HEK293**	**HeLa**
NIH-3T3	3T6	A549	B16-F0	BEAS-2B	BHK-21
CV-1	FRT	MDCK	N2A	U87	Vero

Please consult our updated list of cells successfully tested available on the website: www.ozbiosciences.com.

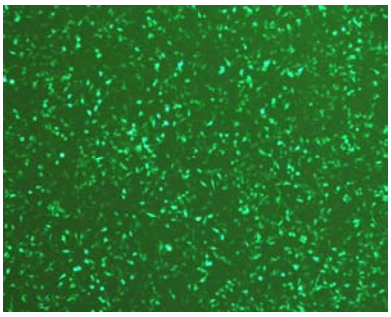
EcoTransfect Transfection Efficiency in Several Cell Lines



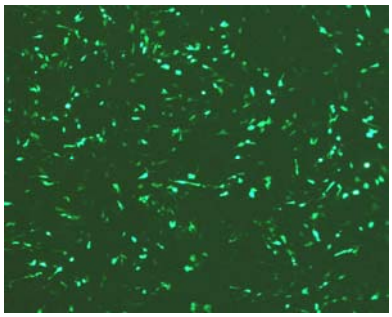
Cells ($7.5x10^4$ cells / well) were transfected in 24-well plates with 0.5 or 1 µg/well of pEGFP plasmid and 1 or 2 µl of ***EcoTransfect*** respectively, as described in the ***EcoTransfect*** instruction manual. GFP expression was monitored 24-48 h after transfection by flow cytometry (FACS).

Green Fluorescent Protein (GFP) Expression in Various Cells Transfected with ***EcoTransfect***

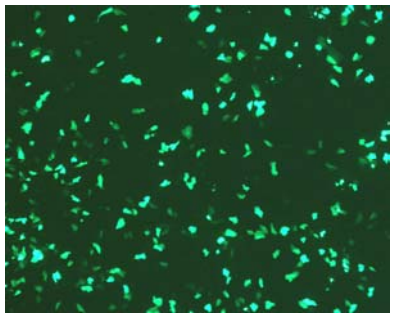
HeLa



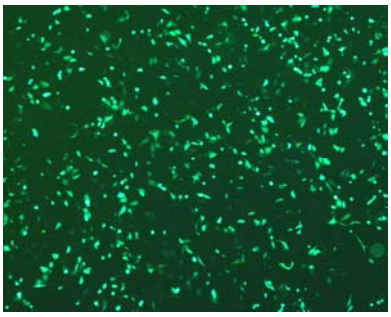
NIH-3T3



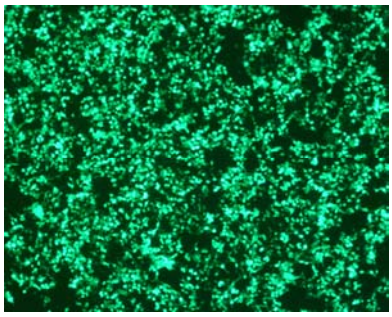
Vero



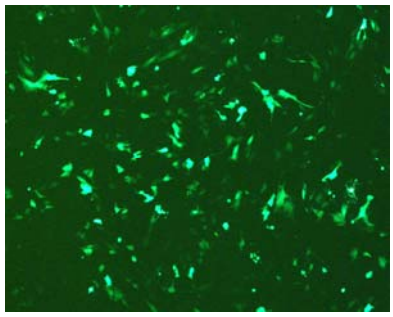
CHO-K1



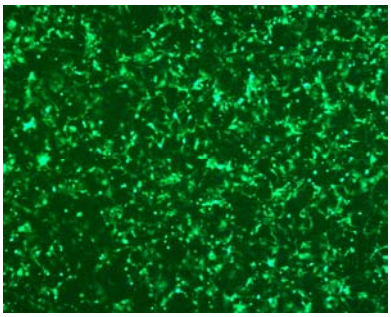
293T



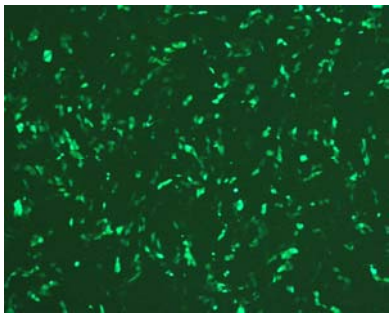
BEAS 2B



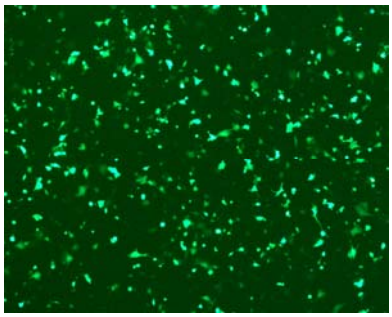
COS7



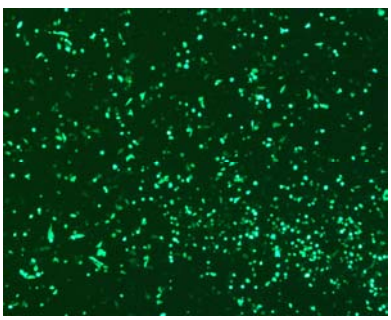
FRT



3T6

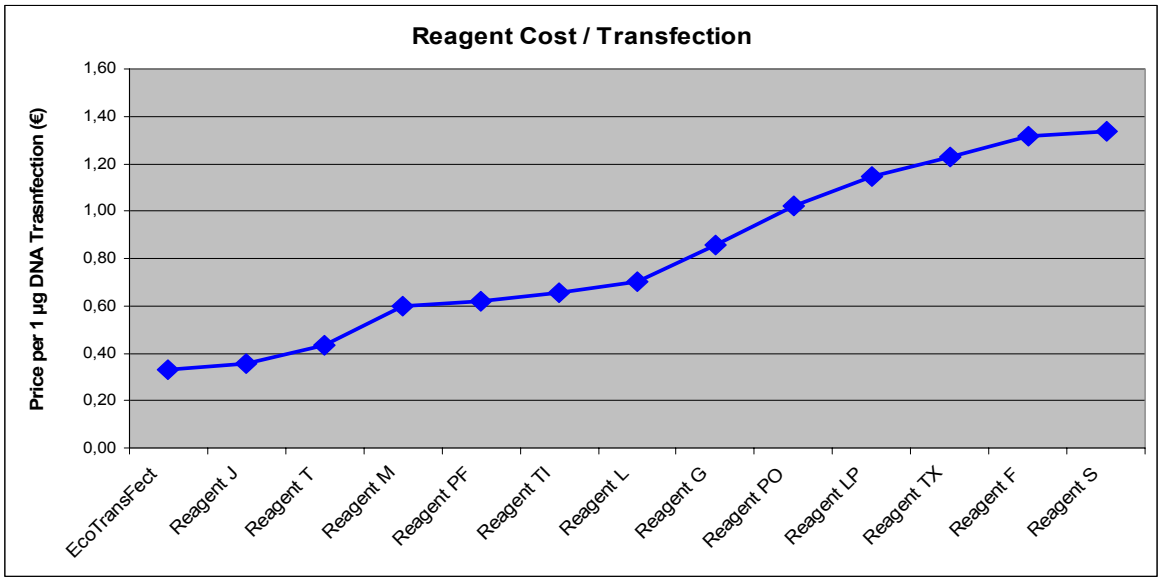


A549

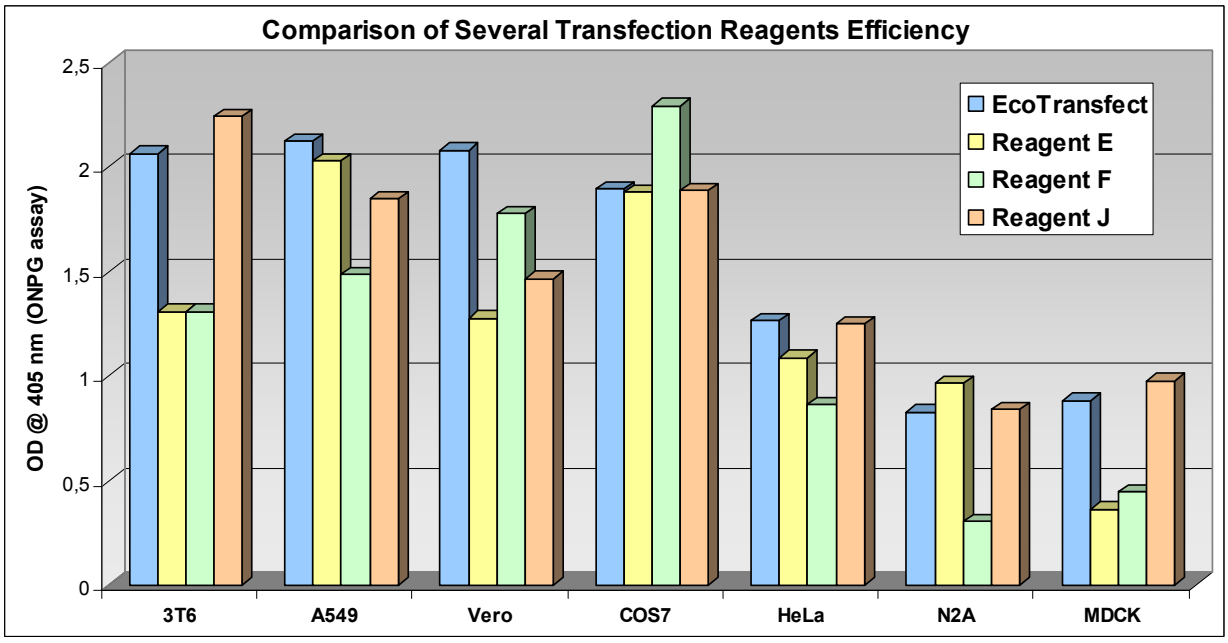


Cells (5 to 7.5 x10^4 cells / well) were transfected with 1 µg/well of pEGFP plasmid and 2 µl of ***EcoTransfect*** in 24-well plates. E-GFP expression was monitored 24 h after transfection by fluorescence microscopy.

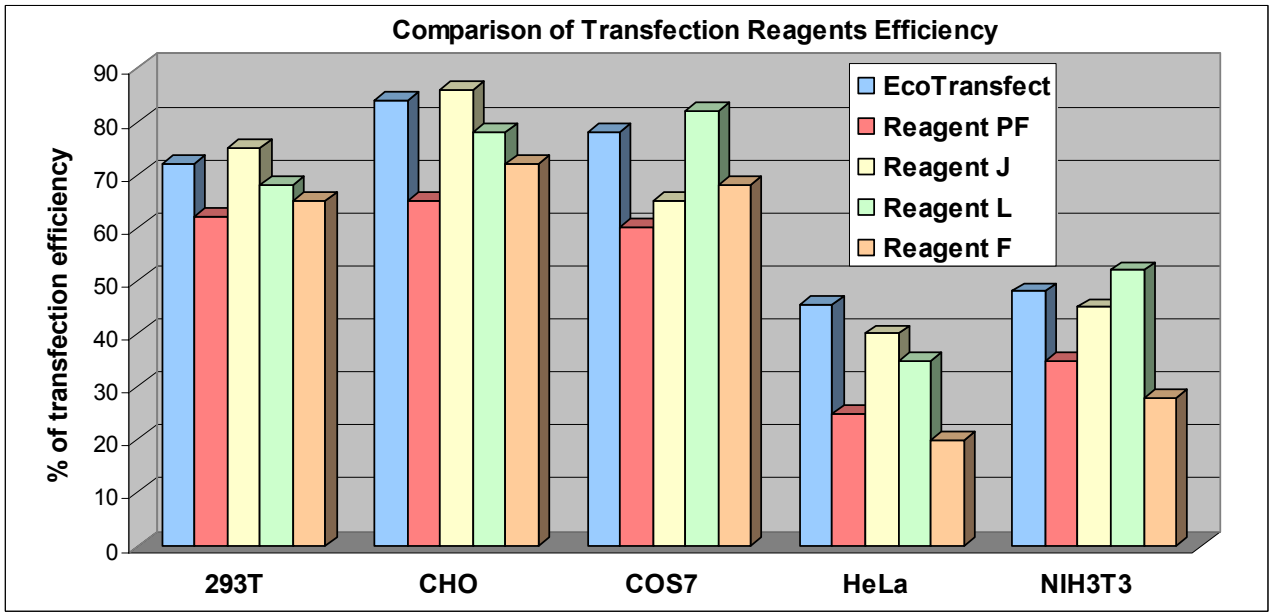
Comparison of Different Commercial Transfection Reagents in Term of Cost per Transfection



Comparison of Transfection Efficiency with Other Commercial Transfection Reagents

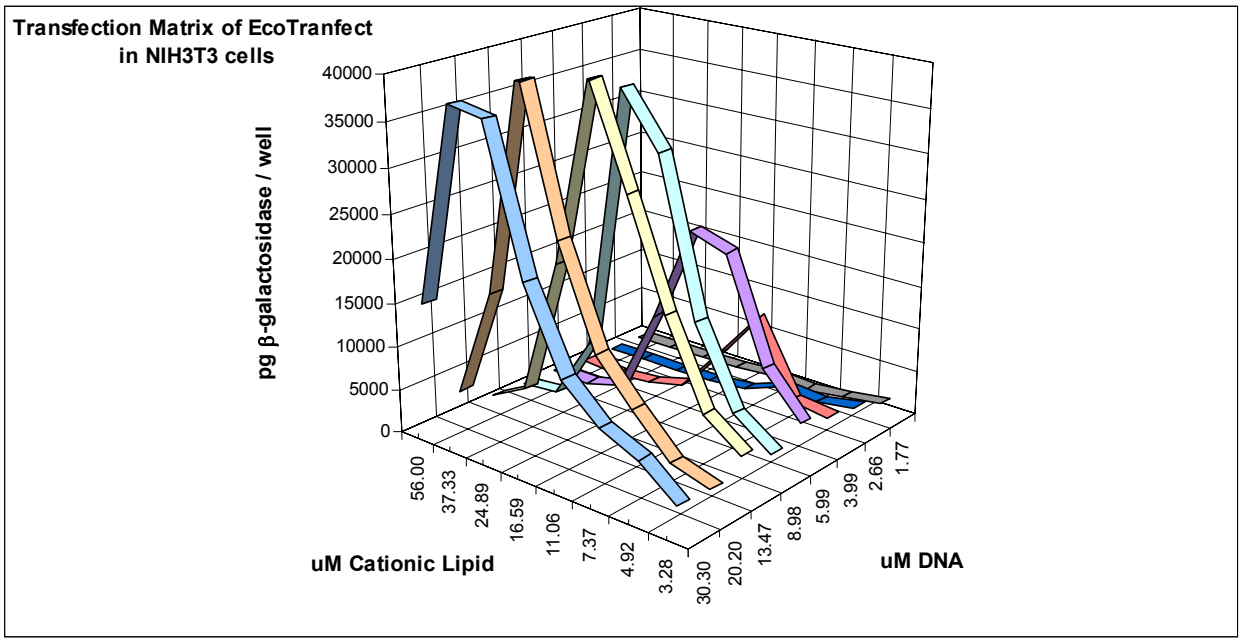


Different cells ($8x10^3$ cells / well) were transfected in 96-well plates with 0.1 or 0.2 µg/well of pLacZ plasmid and 0.2 or 0.4 µl of ***EcoTransfect*** respectively. The others transfection reagents were assayed according to the manufacturer's instruction. β-Galactosidase expression was revealed 24 after transfection using OZ Biosciences' ONPG assay kit (catalog # GO10001).

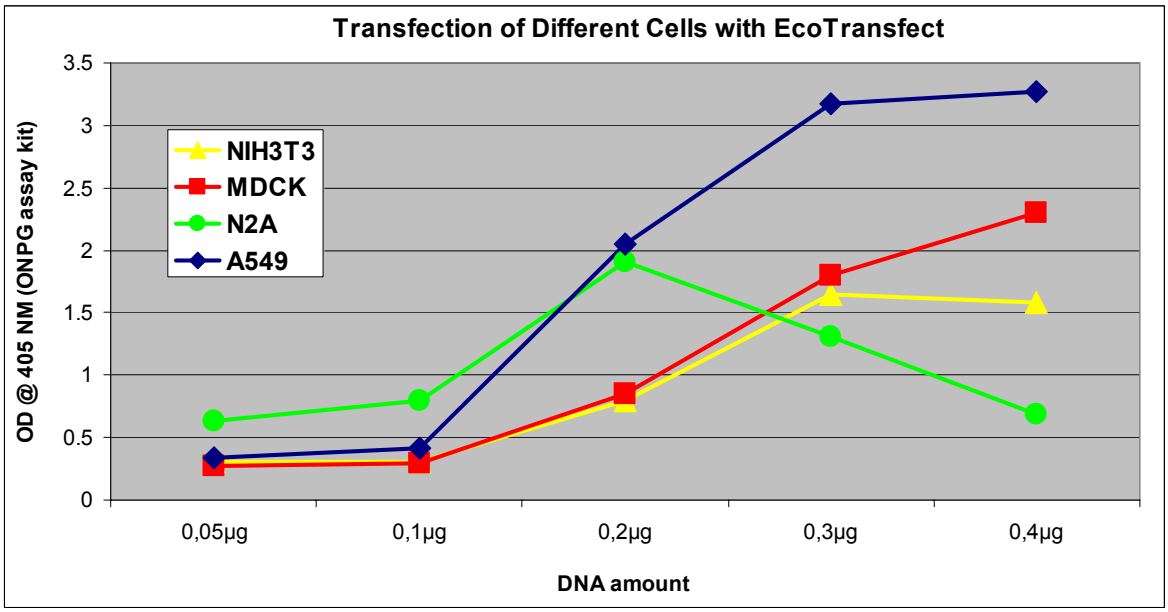


Different cell lines ($7.5x10^4$ cells / well) were transfected with 1 µg/well of plasmid DNA (pEGFP) and 2 µl of ***EcoTransfect*** in 24-well plates as described in the ***EcoTransfect*** instruction manual. The others transfection reagents were assayed according to the manufacturer's instruction. GFP expression was monitored 24-48 h after transfection by FACS.

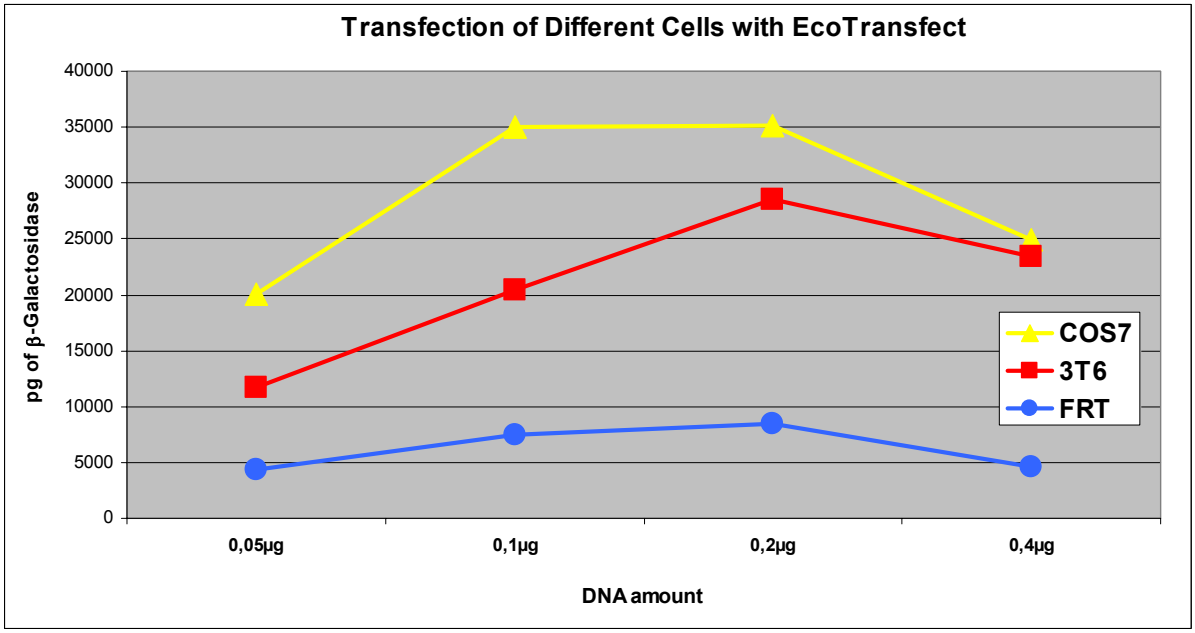
Transfection Efficiency in 96-well plate



NIH3T3 cells were transfected in 96-well plates ($8x10^3$ cells / well) with different amount of DNA (coding for LacZ) and different amount of ***EcoTransfect*** reagent. β-Galactosidase expression was revealed 24 hours after transfection using ONPG assay kit (catalog # GO10001).

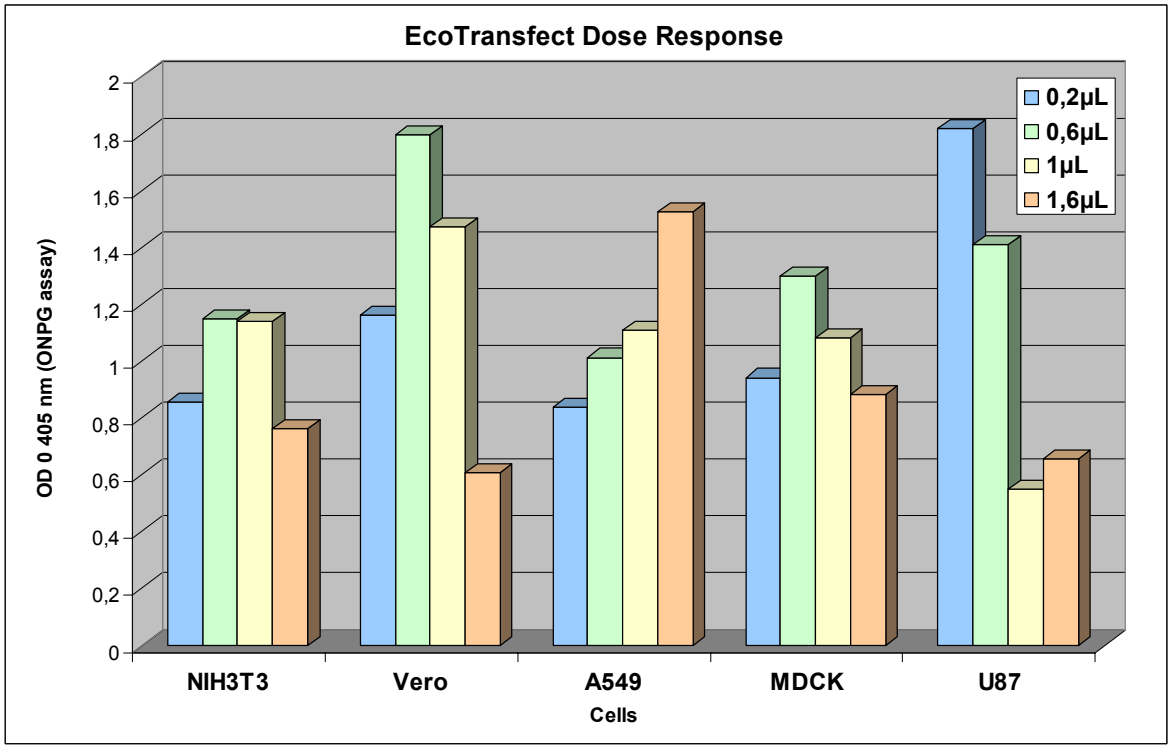


Different cells were transfected in 96-well plates with different amount of DNA (coding for LacZ gene) and ***EcoTransfect***. Transfections were performed with 2 µL of ***EcoTransfect***/ µg of DNA. β-Galactosidase expression was revealed 24 after transfection using ONPG assay kit (catalog # GO10001).



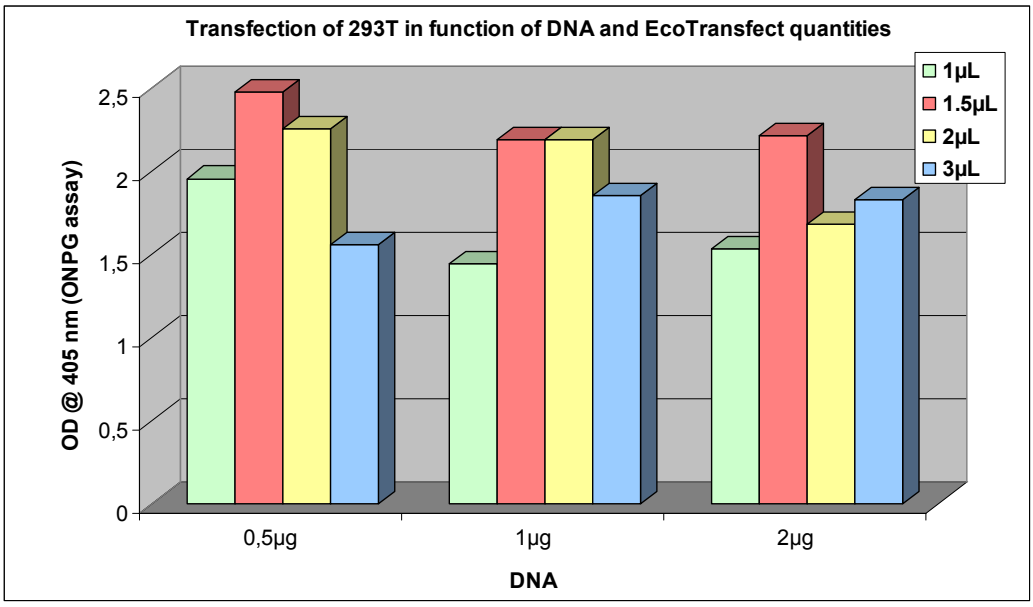
Different cells were transfected in 96-well plates with different amount of DNA (coding for LacZ gene) and ***EcoTransfect***. Transfections were performed with 2 µL of ***EcoTransfect***/ µg of DNA. β-Galactosidase expression was revealed 24 after transfection using ONPG assay kit (catalog # GO10001).

EcoTransfect Dose Effect in Different Cells

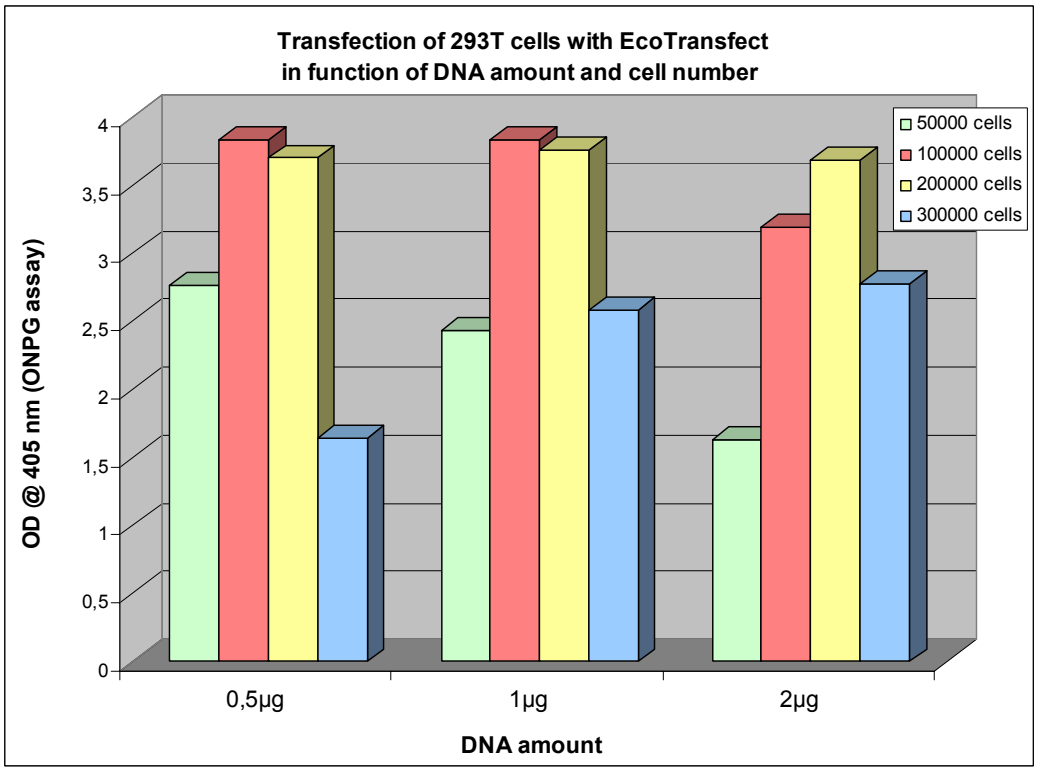


Different cells were transfected in 96-well plates with 0.2 µg of DNA (coding for LacZ gene) and various amount of ***EcoTransfect***. β-Galactosidase expression was revealed 24 hours after transfection using ONPG assay kit (catalog # GO10001).

EcoTransfect Transfection Efficiency in 24-well plate

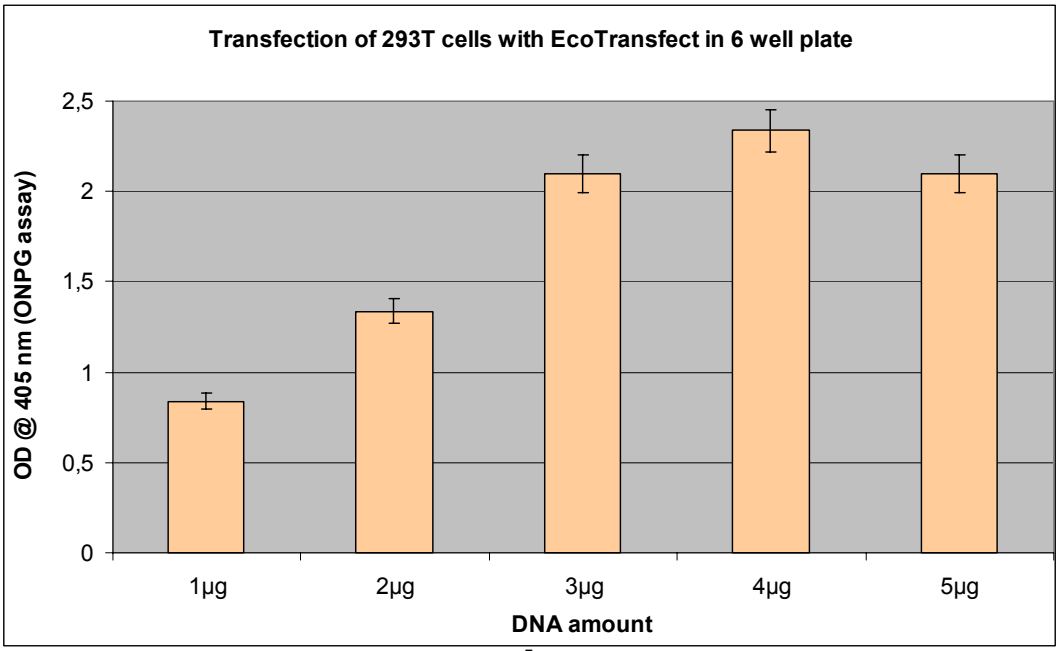


293 T cells were transfected in 24-well plates ($5x10^4$ cells / well) with different amount of DNA (coding for LacZ gene) and ***EcoTransfect***. β-Galactosidase expression was revealed 24 after transfection using ONPG assay kit (catalog # GO10001).



293 T cells were transfected in 24-well plates ($5x10^4$ cells / well) with different amount of DNA (coding for LacZ gene) and ***EcoTransfect*** in function of the cell density. Transfections were performed with 2 µL of ***EcoTransfect***/ µg of DNA. β-Galactosidase expression was revealed 24 after transfection using ONPG assay kit (catalog # GO10001).

EcoTransfect Transfection Efficiency in 6-well plate



293 T cells were transfected in 6-well plates ($2x10^5$ cells / well) with different amount of DNA (coding for LacZ) and 2 µl of ***EcoTransfect*** per µg of DNA. β-Galactosidase expression was revealed 24 after transfection using ONPG assay kit (catalog # GO10001).