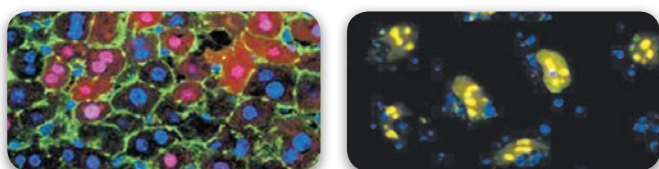


# TransIT<sup>®</sup>-2020 Transfection Reagent

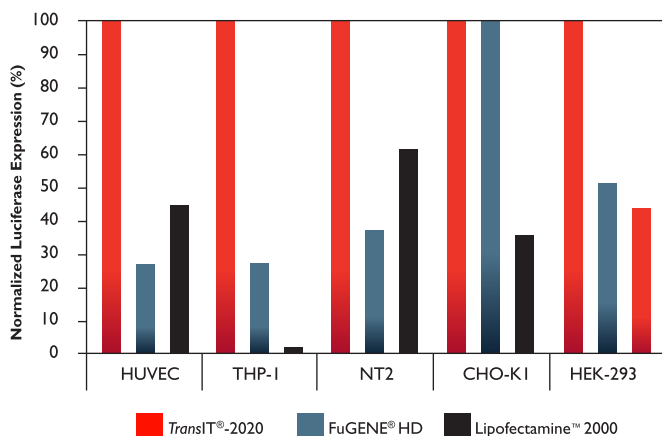
## A high performance, animal-free, broad spectrum DNA transfection reagent

- Broad spectrum DNA delivery in many cell types, including hard to transfect cell lines and primary cells
- Balances high efficiency nucleic acid delivery and low cellular toxicity, imperative to achieving reliable experimental results
- Outperforms competitor reagents
- Superior transfection of Insect Cells
- Animal origin free

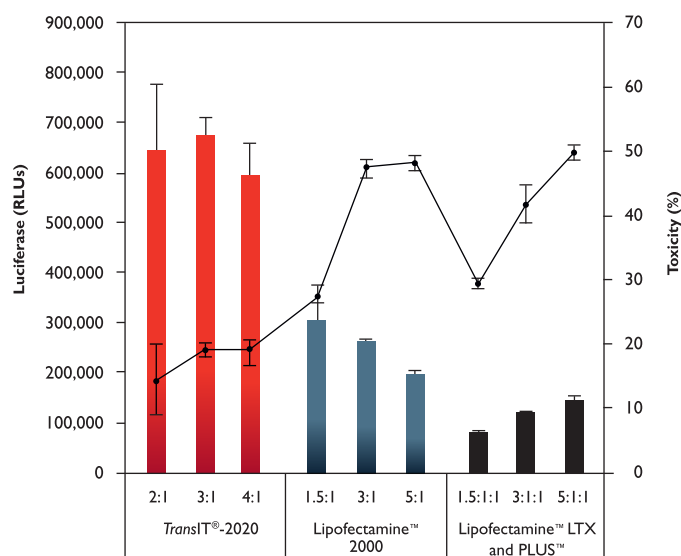


## TransIT<sup>®</sup>-2020 Reagent Exhibits Higher Expression and Lower Cellular Toxicity Compared to Other Transfection Reagents

### Superior Gene Expression in a Broad Spectrum of Cell Types

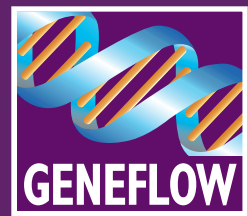


The indicated cell types were transfected in 96-well plates with a luciferase expression plasmid (0.1 µg/well) according to industry accepted testing protocols. Reagent to DNA ratios were optimized for each cell type: *TransIT*<sup>®</sup>-2020 (Mirus Bio, 2:1 or 3:1), *FuGENE*<sup>®</sup> HD (Roche, 3.5:1), *Lipofectamine*<sup>™</sup> 2000 (Life Technologies, 1.5:1, 3:1 or 5:1). Luciferase activity was measured 24 hours post-transfection. Values were normalized to *TransIT*<sup>®</sup>-2020 and presented as a percentage of luciferase expression. *FuGENE*<sup>®</sup> is a registered trademark of Fugent LLC. *Lipofectamine*<sup>™</sup> is a trademark of Life Technologies Corporation.



Human umbilical vein endothelial cells (HUVEC) were transfected with a luciferase expression plasmid using the designated reagents at the reagent-to-DNA ratios indicated beneath each bar. Transfections were performed in 96-well plates using 0.1 µg of plasmid DNA per well. Luciferase expression (bar graph) and lactate dehydrogenase (LDH) levels (line graph) were measured at 24 hours post-transfection. LDH levels are reported as % cytotoxicity compared to cells alone and were measured using a commercially available colorimetric assay; all values at or below zero are represented as zero on graph. Error bars represent the standard deviation of triplicate wells

Please contact technical support for additional information on any of these products



# Cell Lines Successfully Transfected Using TransIT<sup>®</sup>-2020 Transfection Reagent

<b>2B4.11</b>	Mouse T-lymphocyte hybridoma cell line	<b>LS180</b>	Human colon adenocarcinoma cell line
<b>501-MEL</b>	Human metastatic amelanotic melanoma	<b>MA-104</b>	Monkey kidney embryonic epithelial epithelial
<b>A2780</b>	Human ovarian carcinoma	<b>Marc-145</b>	Monkey kidney epithelial cell line
<b>A549</b>	Human lung carcinoma cell line	<b>MCF-7</b>	Human mammary gland adenocarcinoma cell line
<b>BHK-21</b>	Baby hamster kidney cell line	<b>MDA-MB-231</b>	Human mammary gland adenocarcinoma cell line
<b>BPH-1</b>	Rat prostate epithelial cell line	<b>MDA-MB-436</b>	Human mammary gland adenocarcinoma cell line
<b>C2C12</b>	Mouse myoblasts	<b>MDCK</b>	Madin-Darby canine kidney cells
<b>C3H/10T1/2</b>	Clonal mouse embryo cell line	<b>MEF</b>	Mouse fibroblast cell line
<b>C6</b>	Rat glioma cell line	<b>Met5A</b>	Human mesothelium, epithelialvirus transformed
<b>C6/36</b>	Aedes albopictus (mosquito, Asian Tiger) larva	<b>MiaPaca2</b>	Human pancreatic carcinoma
<b>Caco-2</b>	Human colorectal adenocarcinoma cell line	<b>MO3.13</b>	Human oligodendroglial cells
<b>Caov-3</b>	Human ovary adenocarcinoma	<b>Monc-1</b>	Mouse neural crest stem cell line
<b>CCD-18Co</b>	Human colonic myofibroblast cell line		Mouse Brown Adipose Tissue Cells
<b>CFBE</b>	Cystic fibrosis human bronchial epithelial cells		Mouse Brown Adipose Tissue Cells
<b>CHO-K1</b>	Chinese hamster ovary cell line	<b>NCCIT</b>	Human teratocarcinoma cell line
<b>CHO-S</b>	Suspension chinese hamster ovary cell line	<b>NCI-H522</b>	Human lung adenocarcinoma cell line
<b>Colon 38</b>	Mouse colon adenocarcinoma cell line	<b>NE-1</b>	Human oesophageal cancer cell line
<b>COS-7</b>	Monkey kidney fibroblast-like cell line	<b>Neuro-2a</b>	Mouse neuroblastoma cell line
<b>CV-1</b>	Monkey kidney fibroblast	<b>NG115-401L</b>	Murine neuroblastoma cell line
<b>Daoy</b>	Human medulloblastoma cell line	<b>NIH-3T3</b>	Mouse embryonic fibroblast cell line
<b>DB-TRG-05MG</b>	Human glioblastoma cell line	<b>NRK-52E</b>	Rat kidney epithelial cell line
<b>DI-TNC1</b>	Rat fibroblast astrocyte cell line	<b>NT-2</b>	Human teratoma cell line
<b>DU 145</b>	Human prostate carcinoma	<b>OVCAR-3</b>	Human ovarian carcinoma
<b>DU 4475</b>	Human breast carcinoma	<b>OVCAR-429</b>	Human ovarian carcinoma
<b>F9</b>	Mouse testicular teratoma	<b>PC-12</b>	Rat adrenal gland pheochromocytoma cell line
<b>H4</b>	Human brain neuroglioma	<b>Phoenix<sup>™</sup></b>	Eco Human embryonic kidney cell line
<b>HBE</b>	Human bronchial epithelial cell line	<b>PZ-HPV-7</b>	Human prostate epithelial, human papillomavirus, 18 transformed
<b>HCT 116</b>	Human colorectal carcinoma cell line	<b>RAW 264.7</b>	Mouse monocyte/macrophage tumour cell line
<b>HEK-293</b>	Human embryonic kidney cell line	<b>RGC-5</b>	Rat retinal ganglion cell line
<b>HEK-293F</b>	Human embryonic kidney cell line	<b>RIE</b>	Rat intestinal epithelial cell line
<b>HEK-293T</b>	Human embryonic kidney cell line	<b>RWPE-1</b>	Human normal prostate epithelial cells
<b>HeLa</b>	Human cervix adenocarcinoma	<b>S2</b>	Drosophila melanogaster epithelial cell line
<b>Hep3B</b>	Mouse hepatoma cell line	<b>Saos-2</b>	Human osteosarcoma cell line
<b>Hepa 1-6</b>	Human hepatocellular carcinoma cell line	<b>Sf9</b>	Spodoptera frugiperda (fall armyworm) cell line
<b>HepG2</b>	Human hepatocellular carcinoma cell line	<b>SH-EP1</b>	Human neuroblastoma cell line
<b>High Five<sup>™</sup></b>	<i>Trichopulsia</i> ni cell line	<b>SH-SY5Y</b>	Human neuroblastoma cell line
<b>HL-1</b>	Mouse atrial cardiomyocyte tumor cell line	<b>SK-N-BE(2)</b>	Human neuroblastoma cell line
<b>HL-60</b>	Human promyelocytic leukemia	<b>SK-N-MC</b>	Human neuroepithelioma cell line
<b>HPTC</b>	Human thyroid carcinoma cell line	<b>SKOV-3</b>	Human ovary adenocarcinoma
<b>HT-1080</b>	Human fibrosarcoma cell line	<b>T-98G</b>	Human glioblastoma cell line
<b>HuH-7</b>	Human hepatocellular carcinoma cell line	<b>TE-8</b>	Human oesophageal cancer cell line
<b>HUVEC</b>	Human umbilical vein endothelial cell	<b>THP-1</b>	Human monocytic leukemia
<b>HT-1080</b>	Human fibrosarcoma cell line	<b>U251</b>	Human brain glioma
<b>INS-1</b>	Rat insulinoma cell line	<b>U2OS</b>	Human osteosarcoma cell line
<b>J774A.1</b>	Mouse monocyte/macrophage sarcoma cell line	<b>VEC</b>	Vascular endothelial cell line
<b>Jurkat</b>	Human T-lymphocyte leukemia cell line	<b>Vero</b>	Monkey kidney epithelial cell line
<b>K-562</b>	Human myelogenous leukemia cell line	<b>Weri-Rb1</b>	Human retinoblastoma cell line
<b>KYSE 410</b>	Human oesophageal cancer cell line	<b>ZL34</b>	Human pleural mesothelioma
<b>Ld-652y</b>	Gypsy moth ovarian cell line	<b>ZL55</b>	Human pleural mesothelioma
<b>LNCaP</b>	Human prostate adenocarcinoma cell line		

## Ordering Information

Product Number	Suppliers Reference	Description	Pack Size
E7-0142	MIR5404	TransIT <sup>®</sup> -2020 Transfection Reagent	0.4ml
E7-0144	MIR5400	TransIT <sup>®</sup> -2020 Transfection Reagent	1ml
E7-0146	MIR5405	TransIT <sup>®</sup> -2020 Transfection Reagent	5 x 1ml
E7-0148	MIR5406	TransIT <sup>®</sup> -2020 Transfection Reagent	10 x 1ml

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