



MEDICAL PRODUCTS

Newsletter Q4 / 2011



Antibod  Detectives

„We'll find the Antibody you're looking for! Even for bat, ferret or alligator“



All prices and promotions valid from 1st September 2011 until 31th December 2011 and are non binding offers.
All prices in EUR excl. VAT and shipping costs.

Adenoviral / AAV

CELL BIOLABS, INC.
Creating Solutions for Life Science Research

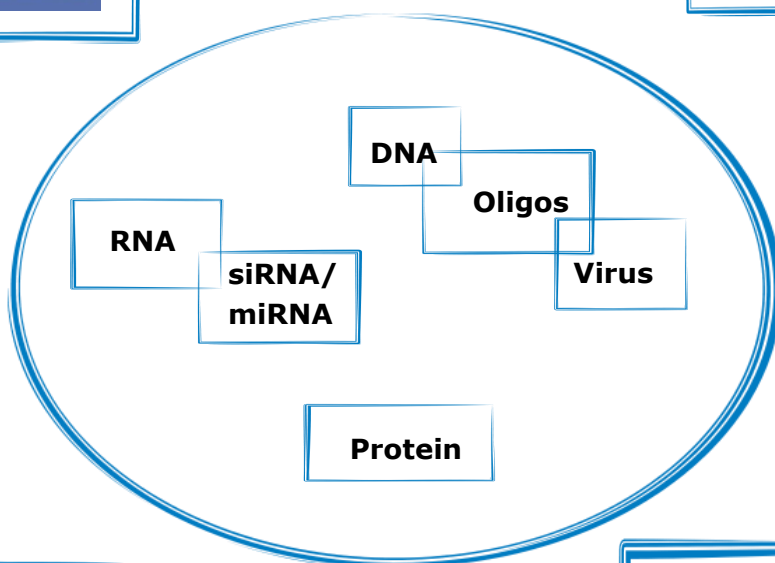
Retroviral

CELL BIOLABS, INC.
Creating Solutions for Life Science Research

Lentiviral

CELL BIOLABS, INC.
Creating Solutions for Life Science Research

GeneCopoeia™
Expressway to Discovery



Electroporation

cell projects

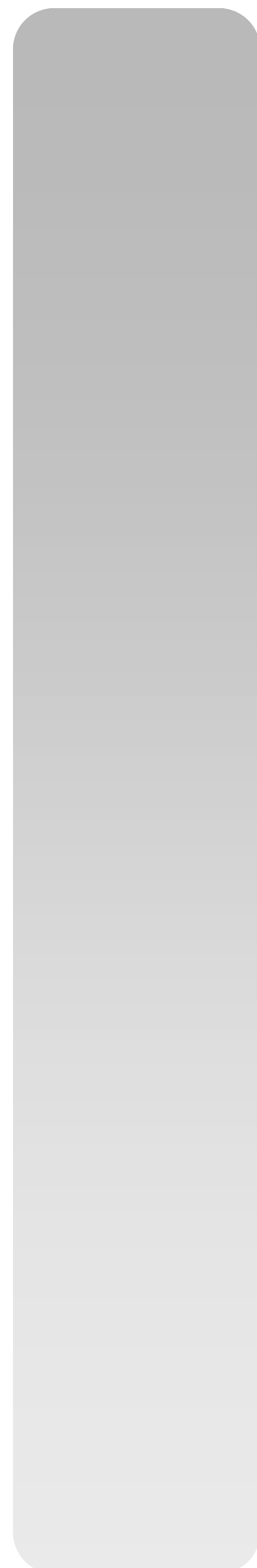
Chemical / Lipid

ACTIVE MOTIF®
Tools to Analyze Nuclear Function

GeneCopoeia™
Expressway to Discovery

NOVUS BIOLOGICALS.

Thermo SCIENTIFIC
Pierce Protein Research Products



Use the following table to help choosing the right viral vector for your gene expression studies:

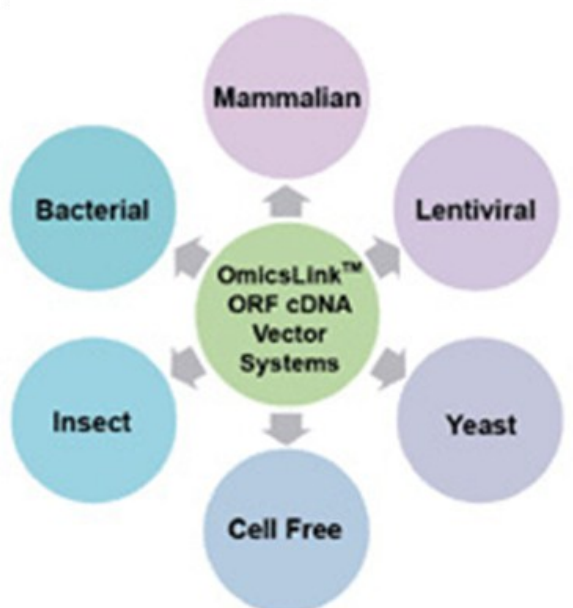
CellBiolab's Selection Guide for Recombinant Viruses for Gene Delivery

	Adenovi-rus	AAV	Lentivirus	Retrovirus
Gene Expression	Transient	Transient or Stable	Transient or Stable	Stable
Infect Dividing Cells	Yes	Yes	Yes	Yes
Infect Non-Dividing Cells	Yes	Yes	Yes	No
Integration into Target Cell Genome	No	No*	Yes	Yes
Immune Response in	High	Very Low	Low	Moderate
Relative Viral Titer	XXXX	XXX	XXX	XX
Relative Transduction Efficiency	XXXX	XXX	XXX	XX

AAV...Adeno-Associated Virus; *Native AAV will integrate, but rec. AAV rarely does.

Find comprehensive solutions for gene expression studies at [GeneCopoeia ORF cDNA clone collections](#)

GeneCopoeia is the original manufacturer of human and mouse expression-ready, full-length ORF cDNA clones. With an expanded offering, GeneCopoeia has a special construct for every application and every budget.



If you are looking for tools for your gene of interest, we offer:

shRNA constructs:

ABMGood offers more than 10.000 pre-made sh/siRNA constructs as single clones or in a set of four all cloned in piLenti-siRNA-GFP vector. Also the whole iLenti™ expression system including cells, controls and primers is available as kit.

If you can't find your gene of interest, have a look into siRNA Lenti cloning service. ABMgood offers custom-made, ready-to-use iLenti™ and iLenti™-GFP siRNA for transfection or infection. Provide your gene's accession number for any target gene or siRNA target sequence and ABMgood will create the HIV-based lentivirus siRNA construct for you within 2 weeks! Or even let produce a High-Titer- Costum Recombinant Lentivirus!

GeneCopoeia – OmicLink shRNA clone collections include lentiviral and non-viral vector-based shRNA constructs against genome-wide human, mouse and rat genes. shRNA of varying lengths (19 to 29 bases) were designed using a proprietary algorithm to make shRNA expression constructs that have high knockdown efficiency with minimal off-target effect.

miRNA constructs:

ABMgood's miRNA product line offers a huge range of pre-made lenti- and adenoviral particles or vectors for human, mouse and rat miRNAs and inhibitory miRs with and without GFP as reporter and all accessories for isolation and detection. In addition, a TET inducible lentiviral based system is available. Find your gene of interest among their pre-made 3'UTR reporter constructs with either GFP or Luciferase as read out.

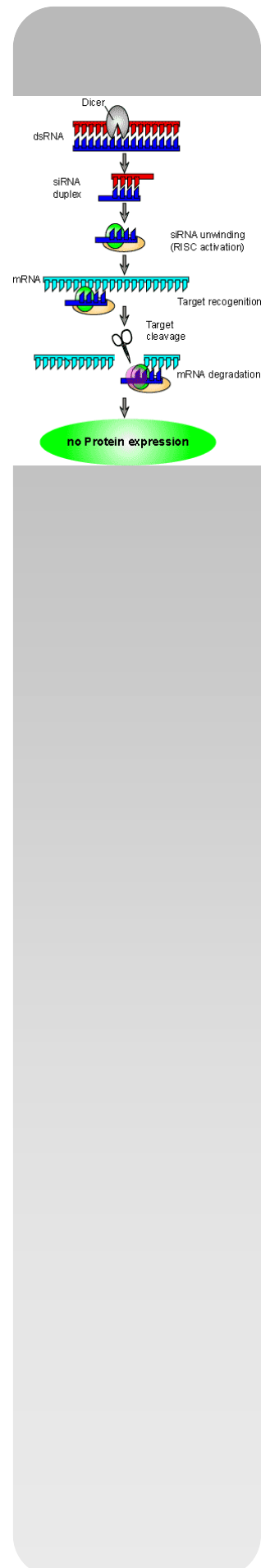
GeneCopoeia offers miExpress™ Precursor microRNA (miRNA) and miArrest miRNA™ inhibitor clones in a lentiviral and non-viral vector for human, mouse and rat and all accessories for isolation and detection. Find here more than 20.000 genome-wide microRNA 3'UTR target constructs in mammalian expression vector systems with luciferase reporter genes for functional validation experiments. Find here an overview of GeneCopoeia miRNA solutions.

cDNA constructs:

Adenoviral constructs and pre-made virus

ABMgood with more than 30.000 pre-made adenovirus in a 3rd generation pAdeno vector. Just click through the alphabetical list and find your gene of interest.

CellBiolabs, a fine selection of pre-made recombinant adenoviral particles



Chemical/Polymer/Lipid based methods to get molecules into the cells:

Virus transduction:

CellBiolab's ViraDuctin™ Adenovirus Transduction Reagent is designed specifically to increase the efficiency of adenoviral transduction without regard to the level of CAR expression on the surface of the target cells.

CellBiolab's ViraDuctin™ Lentiviral Transduction Reagent provides superior lentiviral transduction efficiencies by forming supercomplex the viral particles in a variety of cell lines, even when compared to transductions in the presence of Polybrene®. This system is ideal for many primary cells as well as immobilized cells.

CellBiolab's ViraDuctin™ Retrovirus Transduction Kit provides superior transduction efficiencies in a variety of cell lines, even when compared to transductions in the presence of Polybrene®. This system is ideal for many primary cells as well as immobilized cells.

DNA:

ABMgood offers three transfection reagents for viral or plasmid DNA in 1ml units.

ABMgood's DNAfectin™ Transfection Reagent is a special, unique formulation of polycations, which offers high transfection efficiency with minimal cytotoxicity for any cell type, including primary cells.

ABMgood's Lentifectin™ Transfection Reagent for production of high titer recombinant lentivirus plasmid in 293 cells.

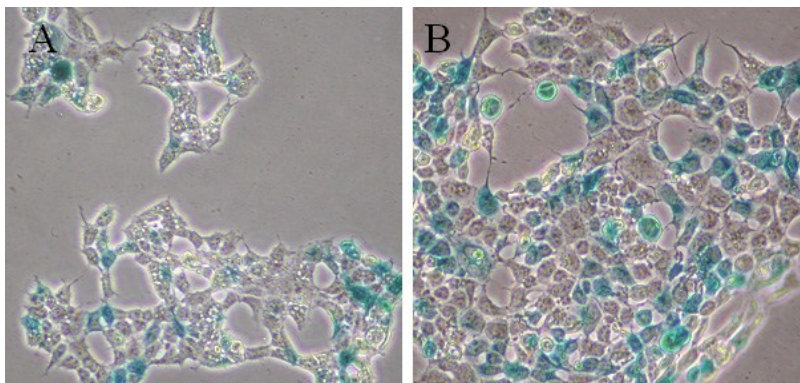


Fig. MDA-MB-468 cells infected recombinant β -gal Lentiviral vectors produced by Calcium Phosphate transfection (A) and Lentifectin (B). The cells were stained 3 days after viral infection.

ABMgood's Calciumfectin™ was especially developed for high titer recombinant retrovirus production. It also provides high-quality reagents suitable for both transient and stable transfections of mammalian cells.



Promotional Price

ABMgood's DNAfectin™

&

ABMgood's Lentifectin™

1ml for €120,-

GeneCopoeia offers four transfection reagents for viral or plasmid DNA in 1ml and 5ml packaging units.

EndoFectin™ **Plus** Transfection Reagent, a highly effective transfection reagent for a broad range of routinely used mammalian cells including HEK293, CHO, COS, NIH/3T3 cells, and more.

EndoFectin™ **Max** Transfection Reagent with maximal coverage of adherent and suspension cell lines.

EndoFectin™ **CHO** Transfection Reagent for optimized transfection of plasmid DNA into CHO cells

EndoFectin™ **Lenti** Transfection Reagent is optimized for co-transfection of lentiviral expression constructs and plasmids into packaging cells to deliver high lentiviral particle titers

Mirus-the Transfection expert in THP's portfolio offers a broad range of transfection product lines for in-vitro and in-vivo delivery. If you are looking for the suitable method/reagent, ask Mirus Reagent Agent.

TransIT®-LT1 Transfection Reagent has a broad spectrum and high efficiency DNA delivery with low toxicity.

TransIT®-2020 Transfection Reagent achieves high expression in many cell types, including hard to transfect cell lines, primary cells and insect cells.

TransIT®-Express Transfection Reagent broad spectrum, low toxicity DNA transfection reagent optimized for 96-well plate application

Novus offers two Transfection reagents in 4 packing units to a comprehensive price.

Transfection Reagent Kit is a lipid-based reagent designed and formulated with proprietary technology for transfecting DNA or siRNA into a variety of eukaryotic cell lines, Drosophila cells as well as primary cultures of human carcinoma, rat adrenal chromaffin cells, mouse and rat cortical neurons and hepatocytes

High Efficiency Transfection reagent Kit is optimized for embryonic stem (ES) cells and difficult-to-transfect primary cultures and for high levels of recombinant protein production at 24-72 hours after transfection.ary cells.

RNA:

Mirus TransIT®-mRNA Transfection Kit contains of *TransIT*-mRNA Transfection Reagent and the mRNA Boost Reagent and is ideal for specialized applications, such as viral production and protein expression from mRNA.

siRNA/miRNA:

Delivery of inhibitory molecules into the cell is a key limitation for any gene silencing experiment. THP offer a range of transfection reagents for your needs.

Active Motif's ChariotII™ is simple and provides high transfection efficiencies with minimal cytotoxicity for delivery of griPNAs

ABMgood's RNAitectin™ Transfection Reagent was especially developed for the efficient transfection of eukaryotic cells with RNAi oligo's in a wide variety of cell lines (HeLa, HEK-293 etc).

CellBiolabs' miRNA/siRNA Knockdown Enhancer Reagents to increase the efficiency of gene knockdown. The RNAiBoost formulation can be used with either siRNA or miRNA to enhance the suppression of mRNA in a variety of cell types after transfection/transduction/electroporation.

Mirus offers two siRNA/miRNA transfection reagents and a trial combi pack. **TransIT-TKO®** and **TransIT-siQUEST®** Transfection Reagent are both a broad Spectrum siRNA delivery reagent with low toxicity for a wide variety of cells. For a combined transfection of siRNA and and Plasmid DNA Mirus recommend **TransIT-TKO® reagent**.

Novus Tranfection reagents are also highly efficient with sirna oligos, see DNA section.

Proteins :

Active Motif's Chariot™ is a revolutionary delivery reagent that quickly and efficiently transports biologically active proteins, peptides and antibodies directly into cells. Less than two hours after delivery, live cells can be assayed to determine the effects of the introduced material. The typical delivery efficiency is 60-95%. Chariot™ has been used for a series of human, mouse and rat primary cells and cell lines. (Figure 1: Delivery of fluorescent Actin antibody. Actin filament labeling of human fibroblast (HS-68) cells using a 1/1000 dilution of FITC-labeled Actin antibody. Fixed (A) and unfixed (B) cells were observed two hours post-transfection. For a [Citation report](#) click here).

ABMgood's Proteinfectin™ Transfection Reagent comprises of lipid formulations which will mediate the transport of intact functional proteins across the cell membrane via non-covalent complexes. ABM's Proteinfectin™ Transfection Reagent can co-deliver multiple proteins ranging from small peptides to large proteins greater than 550kDa. It is useful for the delivery of diverse functionally active proteins and peptides into cultured eukaryotic cells, study protein interactions in living cells, screening peptide libraries, and protein half-life studies.

Pierce's Pro-Ject Protein Transfection Reagent is a cationic lipid mixture for complexation with proteins, peptides, antibodies and other biologically active molecules to allow their direct intracellular delivery. Reagent protein complexes attach to negatively charged cell surfaces and either can directly fuse with the membrane and deliver the captured protein into the cell or be endocytosed by the cell and then fuse with the endosome, releasing the captured protein into the cytoplasm. Here you can find a [protocoll for optimization](#) of Protein transfection.



Promotional Price

ABMgood's
RNAitectin™

1ml for €150,-

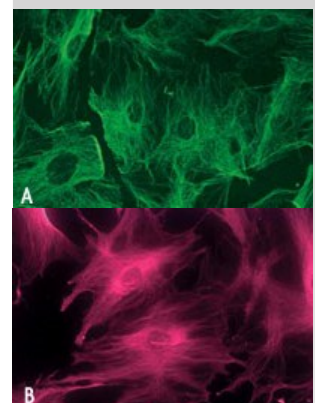


Figure 1
Actin AB with Chariot™

Company	Transfection	Viral Transduction	Pre-made Viral particles	cDNA-constructs	miRNA	shRNA-constructs	siRNA/Synthesis	Cloning Service
Active Motive	+	--	--	--	--	--	Syn.	--
ABMgood	+	A; L, R	A, L, R	+	+	+	--	+
CellBiolabs	+	A; L, R	A	--	--	--	--	--
GeneCopoeia	+	L	L	+	+	+	--	+
Novus	+	--	--	--	--	--	+	--
Mirus	+	--	--	--	--	--	--	--
Riboxx	+	--	--	--	?	--	Syn.	--

A...Adeno; L...Lenti; R...Retro-viral

Electroporation

Cellprojects offers cuvettes and a ElectroBuffer kit to improve your transfection efficiencies. The medium is designed for Eukaryotic cells and generally gives significant improvements over using PBS or standard culture medium. **Order your trial kit today!**

Mirus Ingenio[®] product line covers all tools for electroporation compatible with Amaxa[®] Nucleofector[®]II and other instruments together with technical tips and recommendations for pulse conditions.

Promotional Price!

-Cuvettes-
Box of 12
EUR 75,-

Electrobuffer Kit
EUR 85,-

The best tools for efficient purification of your His-tagged protein

Thermo Scientific [HisPur Cobalt Resin](#) Thermo Scientific [HisPur Ni-NTA Resin](#)

HisPur Ni-NTA Resin and HisPur Cobalt Resin are alternative forms of IMAC, using nickel and cobalt, respectively, as the chelated metal ion responsible for His-tag binding.

Pierce offers these two product lines for your specific needs.

High Capacity: Ni-NTA binds up to 60mg of 6xHis-tagged protein per mL of resin with a higher background

High Purity: Cobalt binds less strongly, more discriminantly, and releases them with gentler conditions, enabling greater purity but usually less yield up to 10mg per mL resin.

- Cost effective – resins can be reused up to five times
- Low metal leaching

Flexible – available in multiple formats including resins, spin columns, [chromatography cartridges](#) and [96-well filter Spin plates](#)

Versatility – purify proteins under native or denaturing conditions; compatible with Thermo Scientific Pierce Cell Lysis Reagents and a variety of buffer additives

Products you may be also interested in:

Bacterial Protein Extraction reagents from [Biovision](#) and [Pierce](#)

Protease Inhibitors from [ABMgood](#), [Biovision](#) and [Pierce](#)

Imidazole from [Biovision](#)

His-tag Antibodies from [ABMgood](#), [Biovision](#), [CellBiolabs](#), [GeneCopoeia](#), [Novus](#), [PierceAntibodies](#) and [USbiological](#)



The newest member of our chemiluminescent Western blotting substrate family – Thermo Scientific Pierce ECL Plus Substrate –



Thermo Scientific Pierce ECL Plus Substrate is acridan-based, generating acridinium esters when it reacts with HRP. As these ester intermediates react with peroxide, they produce strong and sustained chemiluminescence and a robust fluorescent signal at 440nm that can be captured by CCD and fluorescence imagers.

Highlights:

- **High Sensitivity** – detect targets down to the low-picogram level
- **Long signal duration** – sustained light output for as long as 5 hours
- **Versatile** – compatible with both NC and PVDF membranes
- **Flexible** – one substrate delivers both chemiluminescent and chemifluorescent signals

1. Special Pricing on Thermo Scientific Pierce ECL Plus Substrate

Cat#	Description	Pkg. Size	EUR
23132	Pierce® ECL Plus Western Blotting Substrate	100mL Kit	199,-

Save: 40,-

2. Special Pricing on Thermo Scientific Pierce ECL Plus Substrate

Cat#	Description	Pkg. Size	EUR
23132 X3	Pierce® ECL Plus Western Blotting Substrate	3 x 100mL Kit	450,-

Save: 267,-



alvetex 

3D Cell-Culture

The core component of Alvetex[®] consists of a highly porous polystyrene scaffold, the same material as existing cell culture plastic. The 3D structure remains reproducible, consistent and tailored for cell culture. Alvetex[®] is compatible with a large number of well known cellular and molecular techniques (e.g. extraction of protein and nucleic acid, histology, immunocytochemistry, confocal microscopy, etc.)

Alvetex[®] provides cultured cells with an environment and physical space in which they can grow and form 3D interactions with neighbouring cells. In effect, this product enables the user to grow a 'slab' of tissue, albeit 200 microns thick.

Alvetex[®] is optimized and tested for

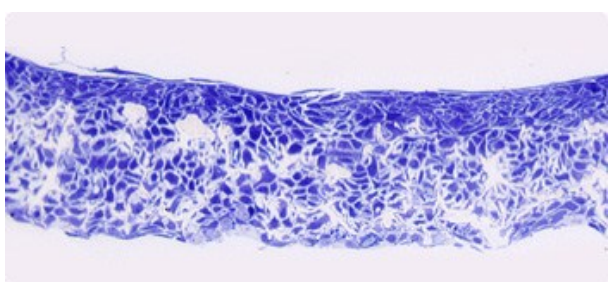
Hepatocytes – toxicity assays

Epidermal keratinocytes – differentiation at the air liquid interface

Osteoblasts

Stem cells

Alvetex[®] is available in a variety of different formats, like standard 6- and 12-well plates and well inserts for standard plates for short term culture. Also a specialised cradle for use of well inserts in a 90mm petri dish for very long term 3D cell culture is available.



In the above example, cultured keratinocytes have been fixed, embedded in resin, sectioned and stained with Toluidine Blue. The scaffold is seen in white.

