

Creative Biolabs Kicks off 2023 with Novel Gene Delivery System Development Service

Creative Biolabs has upgraded the one-stop customized service of design, construction, and cloning of novel gene delivery systems, including but not limited to viral vectors, dendritic cells, and bacteria.

New York City, New York Dec 30, 2022 ([Issuewire.com](https://www.issuewire.com)) - Although holding great promise for a wide range of diseases, the development of gene therapy is hindered by obstacles. Among them is the lack of suitable methods for the proper introduction of genes into cells. Striving to be a premier partner for worldwide clients, Creative Biolabs has unveiled novel gene therapy platforms in compliance with GMP regulations to manufacture gene delivery vectors that are effective, specific, safe, and long-lasting.

The gene delivery system available at Creative Biolabs has extended to cover a wide range of viral vectors, polyplexes, dendrimers, dendritic cells, and bacteria.

- [Viral Vector Construction](#)

The one-stop customized services cover the design, construction, and cloning of virus vectors, as well as small to large-scale production of viral vectors with robust quality control. The expert team is proficient in designing viral vector tools or giving advice on selecting project-related serotypes. Vector backbones for cloning the therapeutic gene include lentiviral vector (LV), adenovirus vector (AdV), herpes simplex virus vector (HSV), vaccinia viral vector (VACV), adeno-associated virus vector (AAV), baculovirus vector (BV), and other vectors (alphavirus vectors, flavivirus vectors, foamy virus vectors, etc.).

- Development of Dendritic Cells as a Gene Delivery System

Scientists have years of experience in the modification of dendritic cells, including the loading of cytokines, chemokines, costimulatory molecules, and antigens, to induce potent protective and therapeutic antitumor immunity. For the dendritic cell delivery system, the team offers the most comprehensive delivery system containing viral vectors and non-viral vectors (liposomes, polyplexes, cationized gelatin, PLGA, chitosan, etc.) for clients to choose from.

- Development of Bacteria as a Gene Delivery System

Creative Biolabs provides a series of attenuated bacterial strains with customizable designs for the treatment of various diseases, including *B. adolescentis* for liver cancer, *C. sporogenes* for solid tumors, *E. coli* for ischemia, and *S. choleraesuis* for melanoma.

As a leading manufacturer supporting the development of biomedicine, Creative Biolabs is proud to stand by clients in the gene therapy journey, and help them find an ideal [gene delivery system](#) overcoming the extracellular barriers, including particle clearance mechanisms, nucleic acid degradation, and specific targeting, and cellular barriers, such as cellular uptake, endosomal escape, nuclear entry, and nucleic release.

About Creative Biolabs

Leveraging decades of experience and self-established platforms, Creative Biolabs has developed

extensive breadth and depth of therapeutic expertise to assist a diverse range of cell and gene therapy research through the development pipeline. The comprehensive, end-to-end cell and gene therapy CRO solutions cover gene editing, RNAi development, and delivery vehicle development for gene therapy, as well as [CAR-T cell therapy](#), TCR-T cell therapy, and CAR-macrophage therapy.

Product Promotion: Save 10% on all CAR-related products, covering [CAR vectors](#), CAR cells, TCR vectors, and immune cells—valid until Jan. 31, 2023!

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