

# One-stop

# Cell Line Development Services

- Overexpression Cell Line Development

- Reporter Gene Cell Line Development

## Overexpression Cell Line

Overexpression stable cell lines refer to cell lines generated from a specific cellular lineage with the capability for sustained overexpression or interference of a particular gene. Their defining characteristic lies in their ability to continuously express specific genes, in contrast to transient transfection, which allows only transient expression.

### Applications:

- |                          |   |
|--------------------------|---|
| 01 Gene Function Studies | 03 Disease Model Establishment                  |
| 02 Drug Screening        | 04 Small Molecule and Antibody Drug Development |

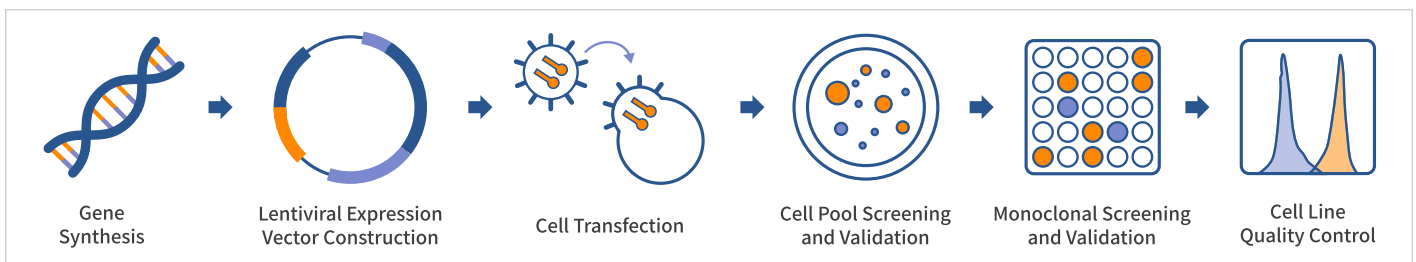
## Reporter Gene Cell Line

Reporter gene cell line construction involves the molecular biology cloning technique, where a specific reporter gene (e.g., luciferase) is inserted into the chromosome of the target cells. Through selection and cultivation processes, a cell line capable of stably expressing the reporter gene is obtained.

### Applications:

- |                                       |   |
|---------------------------------------|---|
| 01 Gene Expression Regulation Studies | 03 Protein Interaction (Signaling Pathway) Research |
| 02 ADCC/ADCP Functional Validation    | 04 Evaluation of Cross-linking Drugs                |

### Service Processes:



### Service Advantages:

#### Mature Stable Cell Line Development Platform

Equipped with comprehensive service platforms for cells, antibodies, proteins, etc., it can provide one-stop service from stable cell line construction to recombinant protein production.

#### Strict Quality Control System

Double detection of microorganisms such as bacteria and mycoplasma, ensuring 100% contamination-free, and cell viability testing is conducted to guarantee delivery quality.

#### Stable Cell Passage

High quality delivery standards ensure stable passage of cells for more than 20 generations.

#### Professional Technical Support

Professional technical personnel regularly report on project progress to ensure smooth progress of the project.



**Our Commitment: No charges if it doesn't pass the flow cytometry detection.**

## © Service Content and Cycle:

### Overexpression Cell Line Development (Total 8-14 Weeks)

I

#### Host Cell Detection (1-2 Weeks)

- Cell viability assessment.
- Cell count measurement.
- Bacteria and fungi detection.
- Mycoplasma detection.

II

#### Lentiviral Expression Plasmid Construction (2-3 Weeks)

- Codon optimization.
- Whole gene synthesis.
- Construction of lentiviral expression plasmid.

III

#### Lentivirus Packaging (1-2 Weeks)

- Co-transfection of expression plasmid and helper plasmids into host cells for lentivirus packaging.

IV

#### Cell Pool Screening and Validation (1-2 Weeks)

- Positive cell selection.
- Measurement of cell pool expression levels.

V

#### Monoclonal Screening and Validation (2-3 Weeks)

- Single-cell plating and validation of monoclonal expression.

VI

#### Cell Line Quality Control (1-2 Weeks)

- Expansion cultivation of monoclonals, cryopreservation.
- Recovery viability assessment.
- Bacteria, fungi, and mycoplasma detection.

### Reporter Gene Cell Line Development (Total 13-21 Weeks)

I

#### Host Cell Detection (1-2 Weeks)

- Cell viability assessment.
- Cell count measurement.
- Bacteria and fungi detection.
- Mycoplasma detection.

II

#### Reporter Gene Expression Plasmid Construction (2-3 Weeks)

- Codon optimization.
- Whole gene synthesis.
- Construction of lentiviral expression plasmid.

III

#### Transient Transfection of Cells (1-2 Weeks)

- Transient transfection of host cells with the prepared reporter gene expression plasmid.

IV

#### Cell Pool Screening and Functional Activity Validation (1-2 Weeks)

- Positive cell selection.
- Measurement of cell pool expression levels.
- Drug-induced detection of signaling pathways.

V

#### Monoclonal Screening and Validation (7-10 Weeks)

- Single-cell plating and validation of monoclonal expression.

VI

#### Cell Line Quality Control (1-2 Weeks)

- Expansion cultivation of monoclonals, cryopreservation.
- Recovery viability assessment.
- Bacteria, fungi, and mycoplasma detection.



Everon life Science  
Khasra No.384/2, 2nd Floor, Village & Post- Ghitorni, MG Road,  
New Delhi-110030 Tel# 011-47053459, 9810306768, 8527119191  
Email: info@everonlife.com Web: www.everonlife.com



CUSABIO TECHNOLOGY LLC  
Postal Address: 7505 Fannin St., Ste 610, Room 7 {CUBIO  
Innovation Center}, Houston, 1X77054, USA Tel: 301-363-4651  
Email: support@cusabio.com Web: www.cusabio.com