

# HIGH PERFORMANCE PROMOTERS



Expression control enhances therapeutic performance, minimizes off-target risks, and enables cost-effective manufacturing

- Enable complex cell editing workflows that use progenitor cells and/or *in vivo* payload delivery
- Provide an added layer of safety beyond engineered targeting moieties on delivery vehicles
- Improve product yield and quality in vector manufacturing

Synthetic promoters unlock new frontiers in cell and gene therapy

## **PRECISE *IN VIVO* CELL TARGETING**

- Enhance expression in one or more immune cell types for higher efficacy
- Minimize expression in off-target cells to increase safety
- Suppress expression in progenitor cells to reduce effects on differentiation

## **ROBUST VECTOR MANUFACTURING**

- Eliminate payload expression in virus production cell lines
- Achieve temporal control the expression of vector components

Our high performance promoters are now available for evaluation under a research use only license, with options for clinical use licensing or further promoter engineering through GeneFab's SynBio custom service project.



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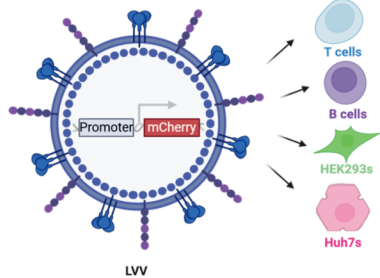
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# Synthetic Promoters for Targeted In Vivo Therapies

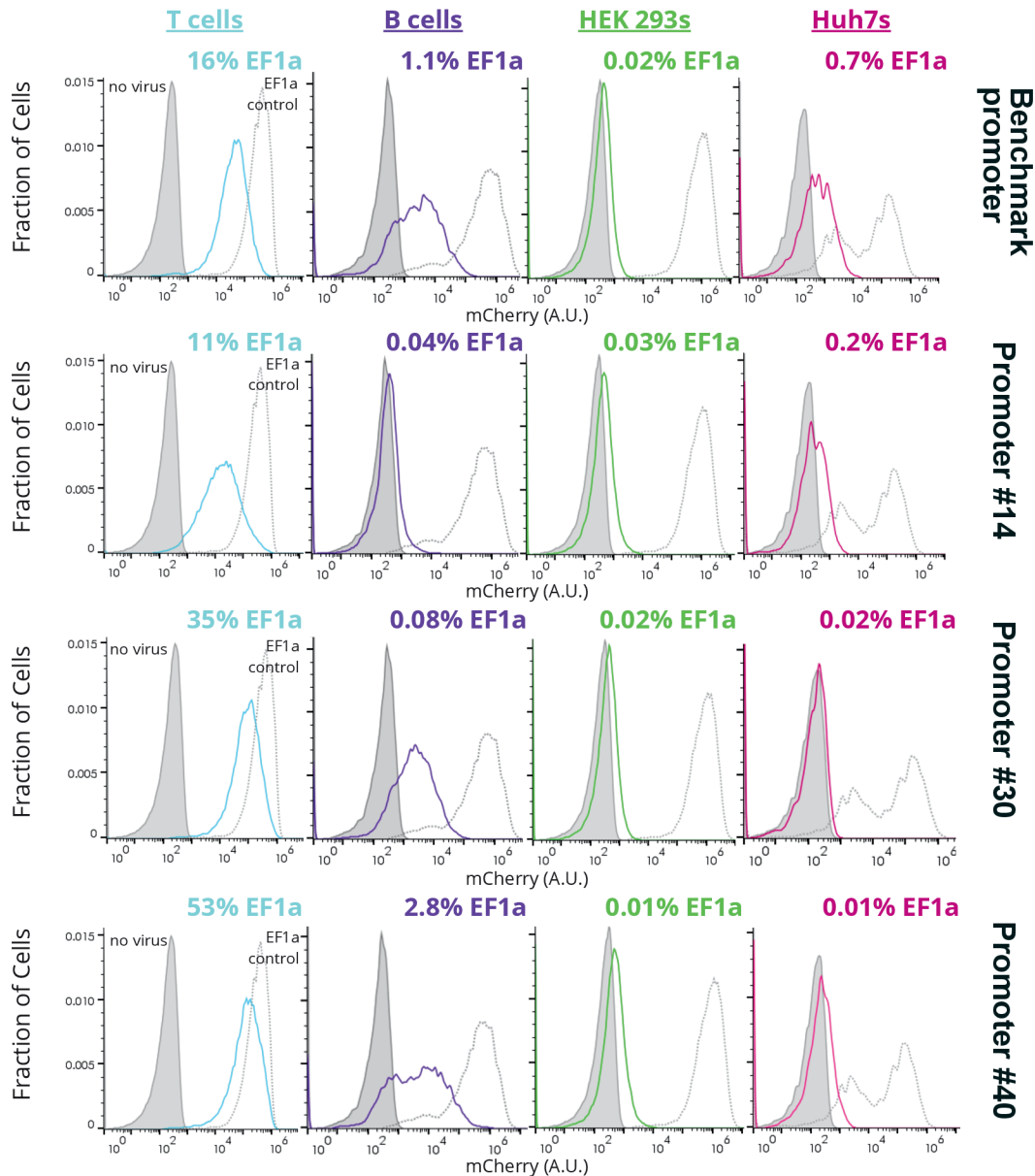
## Optimized Cell-Specific Promoters



If your promoter doesn't exist yet, we'll build it for **YOU**.

Partner with GeneFab scientists to design the cell-specific promoter for your cell therapy program.

*"Every cell type deserves a promoter built for it."*



GeneFab's synthetic promoters are engineered through iterative screening for gene expression in primary T over primary B cells, HEK293s and the Huh7 hepatocyte cell line. Cells are transduced with mCherry reporter constructs using lentivirus and activity assayed via flow cytometry (solid gray bar = untransduced; gray line = EF1a control). Promoter strength is measured by gMFI relative to an EF-1a control for each cell type.

*Intellectual properties covering the design, use, screening, and validation of promoters are protected under GeneFab's Research and Manufacturing Technology. Use of promoters by Client for internal research purposes is covered by GeneFab's Research Use Only Licenses. Additional licenses are available from GeneFab for use of promoters in clinical or commercial applications. Details on licensing terms and conditions are available upon request.*



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