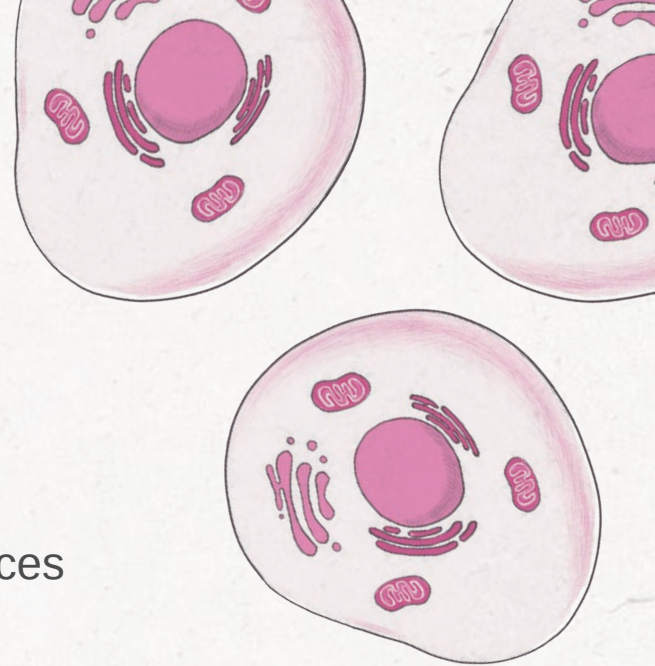
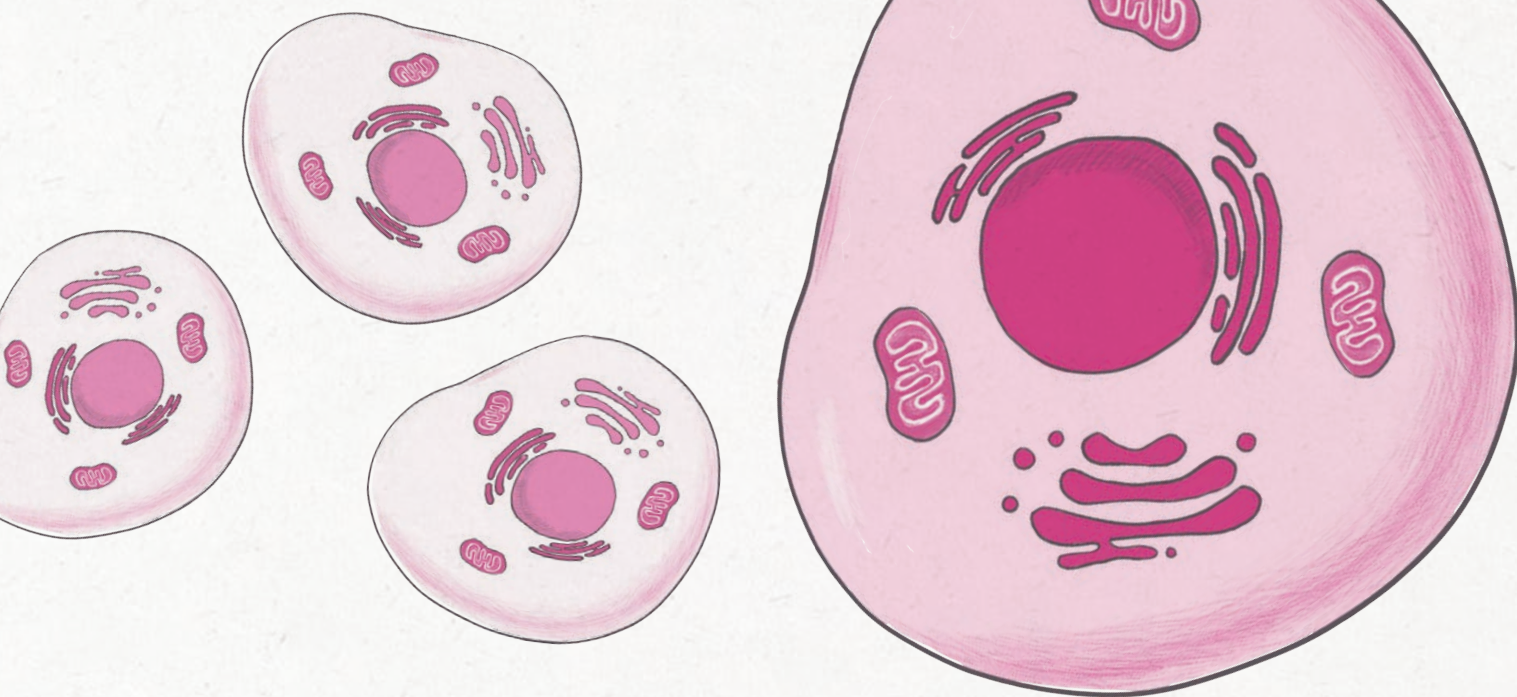




Stable Cell Line Engineering

VectorBuilder's cell line engineering services streamline research on your GOI. Deliver edited cells in **as little as 6 weeks**.



Vector Construction

- Guide & donor design
- Vector cloning
- Virus packaging



Gene Delivery

- RNP-based electroporation
- Plasmid transfection
- Virus transduction



Cell Line Establishment

- Drug selection
- FACS sorting
- Limiting dilution
- Sub-culturing



Genotype Confirmation and QC

- PCR
- Sanger sequencing
- RT-qPCR
- Sterility and mycoplasma tests



Add-on Assays

- WB
- Immunofluorescence
- Flow cytometry
- Other validations



Stable Cell Line Engineering

Unlock diverse genetic modifications in your cell line at competitive pricing and rapid turnaround.

Gene Overexpression & Knockdown

- Stable GOI expression by lentivirus
- Mixed pool or single clones delivered in as fast as **8 weeks from \$2,999**
- Efficient knockdown using 3 shRNAs with optimized selection
- Mixed pool or single clones delivered in as fast as **8 weeks from \$3,999**

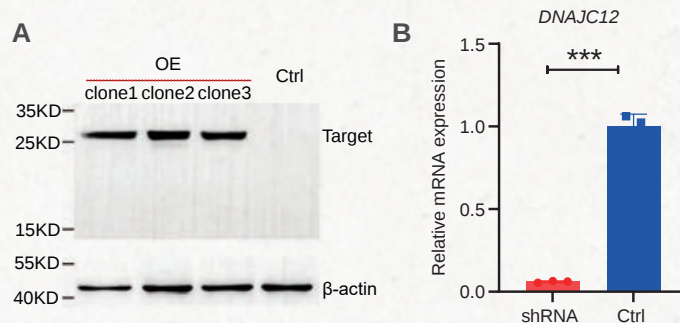


Figure 1. (A) Western blot analysis of GOI protein expression in Caco-2 cells. (B) 90.9% knockdown efficiency in HepG2 cells.

Tet Inducible Gene Expression

- Minimized leakiness and robust induction via optimized vector design
- Mixed pool or single clones delivered in as fast as **8 weeks from \$3,999**

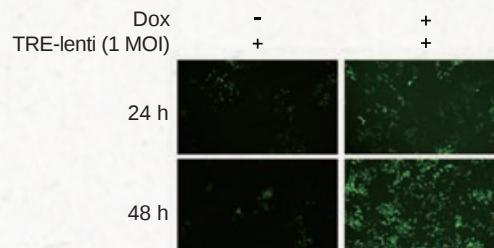


Figure 2. Dox-induced EGFP expression in tTS/rtTA-expressing 293T cells.

CRISPR Gene Editing

- Comprehensive expertise in CRISPR
- High editing efficiency with optimized non-viral delivery approach
- Knockout homozygous clones delivered in **6-12 weeks from \$3,999**; knockin heterozygous clones delivered in **14-20 weeks from \$7,999**; point mutation homozygous clones delivered in **12-18 weeks from \$7,999**

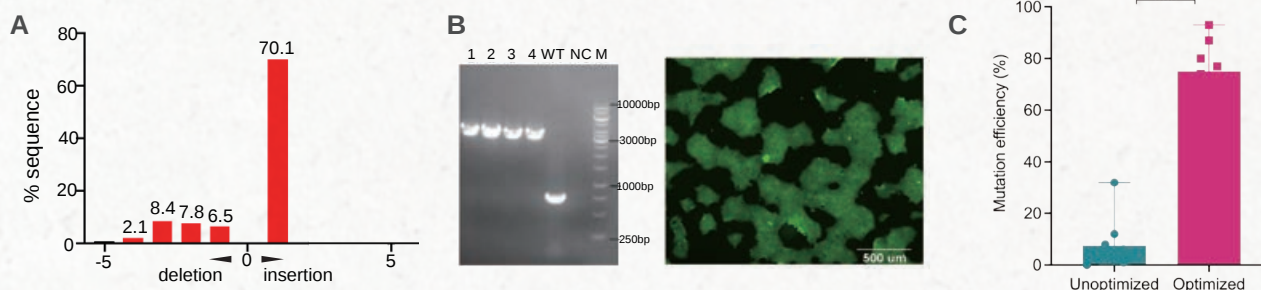


Figure 3. (A) Efficient genome editing with mutations detected around the CRISPR target site in Huh-7 cells. (B) Knockin of a 2.4 kb GFP expression cassette into iPSCs. (C) Enhanced HDR efficiency via optimized donor design and delivery.