

VectorBuilder

Stable Cell Line Engineering

VectorBuilder's cell line engineering services streamline research on your GOI. Deliver edited cells in as male as a weeks.



- Guide & donor design
- Vector cloning
- Virus packaging



- RNP-based electroporation
- Plasmid transfection
- Virus transduction



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

Genotype confirmation and QC

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PCR

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



- WB
- Immunofluorescence
- Flow cytometry analysis
- Other functional validation

🛞 VectorBuilder

CRISPR gene editing

Point mutation

- HDR efficiency up to 50%
- · Effective and safe non-viral delivery
- Homozygous clones delivered in 14-20 weeks from \$8,999



Increased HDR efficiency is achieved through optimized donor design and delivery approach.

Gene knockin

- · 30-50% HDR rate for most cells
- · Efficient knockin of large fragment
- Heterozygous clones delivered in 14-20 weeks from \$8,999

1 2 3 4 WT NC M



Knockin of 2.4 kb GFP expression cassette into iPSCs.

Gene knockout

- Expert gene targeting design
- Homozygous clones delivered in 6-12 weeks from \$3.999



Efficient mutations generated around CRISPR target site in Huh-7 cells.

Gene overexpression and knockdown

Overexpression

- Robust and stable expression of GOI via lentiviral transduction
- Mixed pool or single clones delivered in as fast as 9 weeks from \$2,999



Western Blot exhibits protein expression of GOI in Caco-2 cells

Tet inducible gene expression

- Minimized leaky expression and high induction achieved by optimized vector design
- Mixed pool or single clones delivered in as fast as 9 weeks from \$3,999



Doxycycline-induced EGFP expression in tTS/rtTA-expressing 293T cells.

Gene knockdown

- Knockdown achieved by 3 different shRNAs and cells with most efficient knockdown delivered
- Mixed pool or single clones delivered in as fast as 8 weeks from 3,999



Contact us at service@vectorbuilder.com