Guaranteed Over-expressing Stable Cell Line

Any Gene, Any Cell Type, Guaranteed Success

Development of Stable Cell Line expressing a gene of interest is essential for drug discovery. However, you might've got caught in the following situations in the process of stable cell line generation:

- Repetition of plasmid preparation, low transfection efficiency, tedious clone picking
- Unable to transfect your gene of interest into certain cell lines
- Worried about missing "cell growth phase"
- Limited by gene size (up to 2 kb) in cloning and gene transfer

However, generating stable cell lines can be a time consuming and tedious process with the uncertainty of obtaining desirable levels of your protein of interest.

Good News **An ultimate solution is available: Runtogen's "RGSMAG™" service!**

Runtogen's promises:

- Delivery or no charge
- Any gene and any host cell line customized with your own project
- 100% success of developing over 600 stable cell lines in the past years
- Guaranteed expression of your genes validated by specific screening methods designated for your protein

RGSMAG™: Guaranteed Stable Pool or Single Cell-derived Clones

Our service provides a recombinant stable pool or single clone generated from lentiviral transduction, yielding high transfection efficiency. Our experience and expertise with the lentiviral transfection platform ensure we can successfully generate a recombinant stable cell pool or clone with any gene in any host cell.

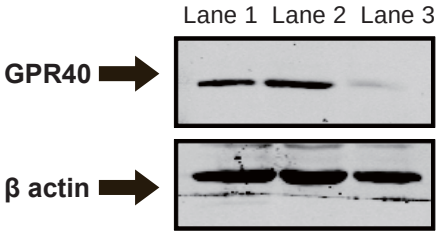
Service Steps	Service Features	Additional Validation Services
Subcloning of gene of interest	Competitive pricing: • Starting at $3,500 for stable pool • Starting at $5,950 for single cell-derived clone	Membrane receptors: FACs, ELISA & Western Blot
Plasmid preparation		GPCRs: calcium mobilization, cAMP, IP-1, radiometric binding assays
Lentivirus packaging and production		Ion Channels: electrophysiology Trasportoers: radiometric assay
Transduction & single or poly clone selection	Fast turaround: • 8-10 weeks for stable pool • 12-16 weeks for single cell-derived clone	Proteases, epigenetic enzymes, and other enzymes: substrate convertion assay
Q-PCR validated single (poly)-clone		Nuclear receptors: reporter gene assays
Deliverables: 2 vials of cells $_1$×10^6 cells/vial		Cytokines: proliferation or other relevant assays

RUNTOGEN

Make Research Easy

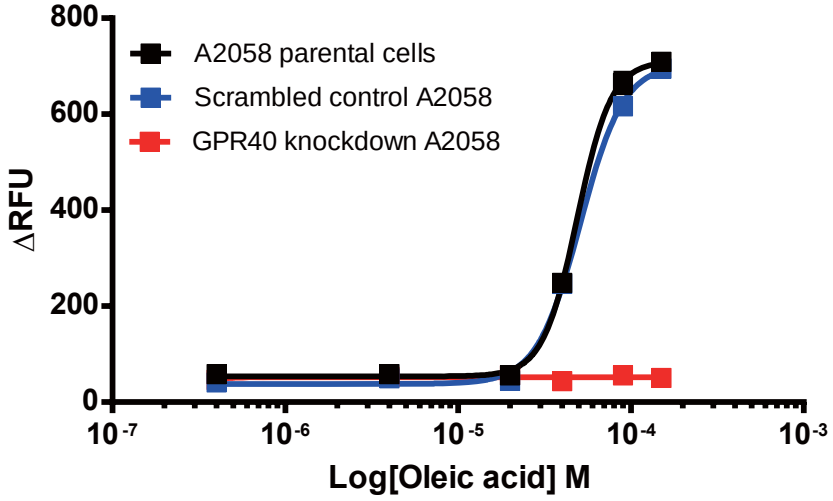
Show Case: Knockdown GPR40 in A2058 cells with stably expressed anti-sense construct in cell line A2058. Results are validated by Western Blot and calcium flux assay.

A. Western blot analysis on GPR40 knockdown A2058 cell line. Lane 3 below showed significantly decrease in GPR40 expression.



Lane 1: A2058 parental cells
Lane 2: Scrambled control A2058 cells
Lane 3: GPR40 knockdown A2058 cells

B. Calcium mobilization analysis of GPR40 knockdown A2058 cell line. Activation of calcium mobilization in GPR40 knockdown A2058 cells was completely abolished (red square) as compared with control cell lines (black and blue squares).



Gene transfer by conventional method also available

Besides lentivirus-based gene transfer, Runtogen also provides non-viral gene transfer platform, which enables you:

- Transfer any gene in any form (oligonucleotides, RNA, or DNA) into different host cell lines
- Conduct both transient expression and stable expression
- Obtain desired cell lines at the most affordable price