CELLECTA

Finding Your Optimal Promoter. Simplified.

PromoterTest™ Custom Assay Kit

Find the best promoter to drive expression of a gene in your cells

- Choose and test one or more from a set of 10 promoter configurations
- Get pre-packaged lentiviral particles, ready-to-transduce into any mammalian cells
- Easily identify the best promoter for your cells based on GFP fluorescence strength

Cellecta's Custom PromoterTest™ Assay Kit enables you to identify a promoter optimally suited for expression in your cells of interest. RNA polymerase II promoters that drive cDNA expression show a wide range of efficiency across different cells and different culture conditions. The PromoterTest Custom Assay provides a convenient approach. Simply screen up to 10 different promoter configurations to identify the one that is most effective in your mammalian cell line.

Choose from any of the following promoters to include them in your custom kit:

- Human cytomegalovirus (CMV)
- Human cytomegalovirus with enhancer (E/CMV)
- Mouse cytomegalovirus (mCMV)
- Human EF1 alpha full-length (EF1L)
- Human EF1 alpha short (EFS)
- Human phosphoglycerate kinase 1 (PGK)
- Rous sarcoma virus (RSV)
- Spleen focus forming virus (SFFV)
- Simian virus 40 (SV40)
- Human ubiquitin C (UBC)

Each lentiviral vector carries the same green fluorescent protein (GFP) under the control of a different promoter. To test the promoters, simply transduce the GFPexpressing lentiviral constructs into your cell line and compare the GFP intensities from each different construct by flow cytometry.

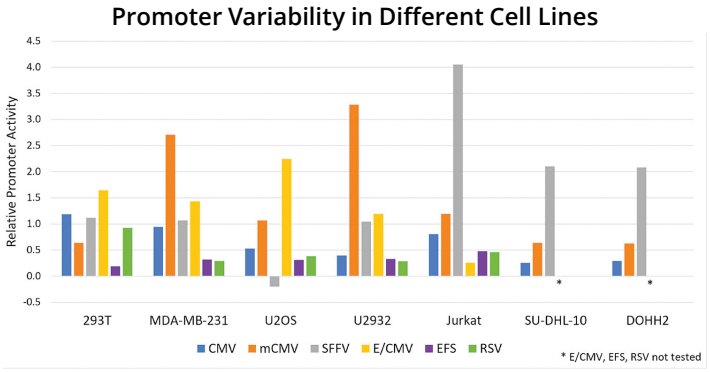

Figure 1

Relative expression levels of GFP by CMV, mCMV, SSFV, E/CMV, EFS, RSV promoters in various cell lines. *Data was normalized against average expression for all constructs in a cell line.*

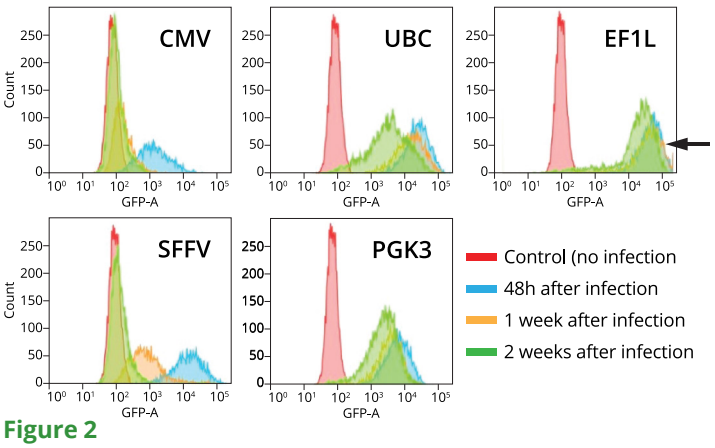

Figure 2

FACS readout shows that EF1L sustained the highest expression *in induced pluripotent stem cells (iPSCs).*

With the PromoterTest Custom Assay Kit, you can measure the relative expression level of your gene under multiple promoters for more efficient experiments and rapid results.

Ordering Information

Catalog #	Description	Amount
Custom Order	PromoterTest™ Custom Assay Kit (Specify your promoters)	From 1 to 10 constructs (0.5 ml/construct)

More information at www.cellecta.com/promotertest or email info@cellecta.com

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