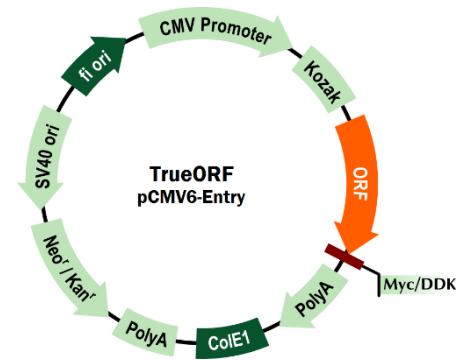


# cDNA Clone Set – Ideal for Functional Screening

## ➤ Why choose cDNA clones from OriGene?

- Comprehensive: Genome-wide coverage for human, mouse, rat, and virus
- Versatile: untagged or tagged clones (>100 vector options)
- Expression validation
- Transfection-ready DNA: Plasmids are purified with ion-exchange columns



## ➤ cDNA clone set

Clone sets of gene families or gene pathways can be used for high throughput functional screening, such as kinases, GPCR, transmembrane proteins or transcription factors. Valuable data can be generated quickly by screening thousands of genes.

- ✓ **High Throughput functional screening**
- ✓ **Arrayed in plates** – Ready-to-use
- ✓ **Pre-assembled sets or cherry picking**
- ✓ **Fast Results**
- ✓ **Proven /cited research** – Successful use in Nature, Cell, etc



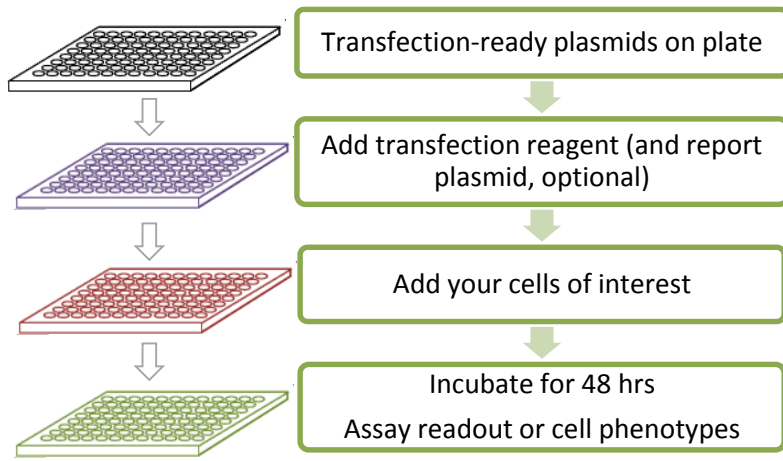
### Gene families / Pathways to select from

|                   |                              |
|-------------------|------------------------------|
| Transmembrane     | Transcription Factors        |
| Protein Kinases   | GPCR                         |
| Proteases         | Ubiquitin ligases/hydrolases |
| Secreted Proteins | Cytokines                    |
| ... More          |                              |

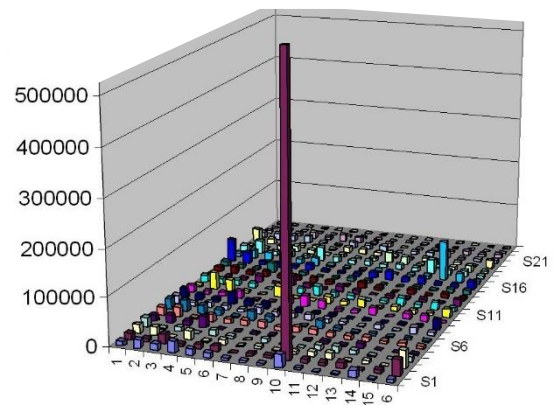
[www.origene.com/clone-set](http://www.origene.com/clone-set)

# cDNA Clone Set – Ideal for Functional Screening

## Functional Screening Flow Chart



## Typical Screening Data



The transcription factor set was used to screen factors that can activate IFN- $\beta$  gene, reporter plasmid, IFN- $\beta$  promoter driven luciferase.

## Publications that successfully used OriGene's clone sets in screenings

| Authors            | Article Title  | Journal                                 |
|--------------------|--|---|
| Jin J. et al       | The E3 ubiquitin ligase RNF135 regulates the tumorigenesis activity of tongue cancer SCC25 cells                         | Cancer Med. 2016 Nov;5(11):3140-3146    |
| Mao X. et al       | Pathological $\alpha$ -synuclein transmission initiated by binding lymphocyte-activation gene 3                          | Science. 2016 Sep 30;353(6307)          |
| Makowski SL. et al | A Protease-independent Function for SPPL3 in NFAT Activation   | Mol Cell Biol. 2015 Jan;35(2):451-67    |
| Laurén J. et al    | Cellular prion protein mediates impairment of synaptic plasticity by amyloid-beta oligomers                              | Nature. 2009 Feb 26;457(7233):1128-32   |
| Li S. et al        | Regulation of Virus-triggered Signaling by OTUB1- and OTUB2-mediated Deubiquitination of TRAF3 and TRAF6                 | J Biol. Chem. 2010 Feb 12;285(7):4291-7 |
| Varjosalo M. et al | Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling | Cell. 2008 May 2;133(3):537-48          |
| Wei P. et al       | RNF34 Is a Cold-Regulated E3 Ubiquitin Ligase for PGC-1 $\alpha$ and Modulates Brown Fat Cell Metabolism                 | Mol Cell Biol. 2012 Jan;32(2):266-75.   |

To see more citations click here...