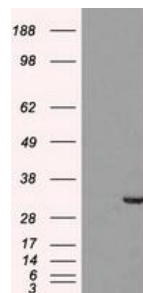


cDNA Clone Set — Ideal For Functional Screening

➤ Why choose cDNA clones from OriGene?

- ✓ **Transfection-ready** – Expression plasmid
- ✓ **Two formats** – Tagged or untagged
- ✓ **Expression validated**
- ✓ **In stock**



WB analysis using cell lysates prepared from the HEK293T cells transfected with empty vector (Left) or CDK5 cDNA clone (Right) .

➤ 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**
- ✓ **Get results fast**
- ✓ **Proven /cited research** – Successful use in Nature, Cell, etc



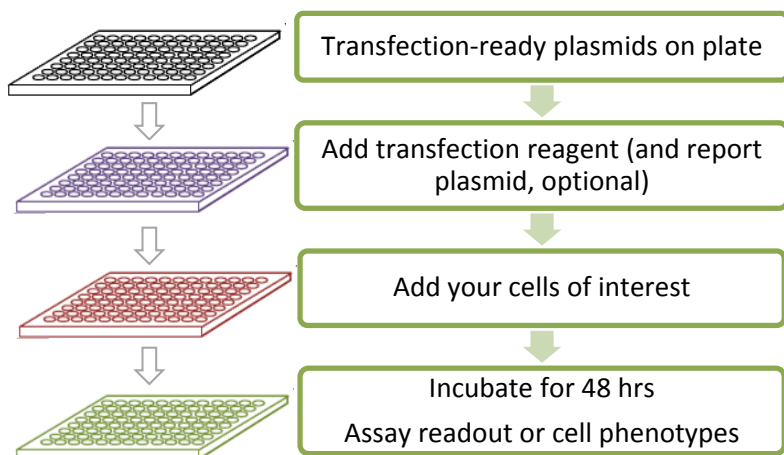
Gene families / Pathways to select from

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

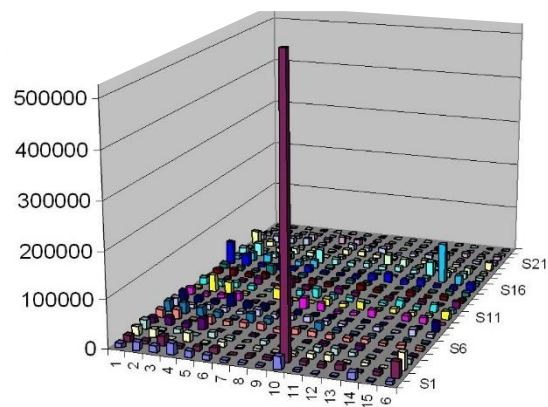
www.origene.com/clone-set

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- β gene, reporter plasmid, IFN- β promoter driven luciferase.

OriGene's clone sets in screenings

Authors	Article Title	Journal
Shenyan G. et al	α 6-Containing Nicotinic Acetylcholine Receptor Reconstitution Involves Mechanistically Distinct Accessory Components	Cell Rep. 2019
Jin J. et al	The E3 ubiquitin ligase RNF135 regulates the tumorigenesis activity of tongue cancer SCC25 cells	Cancer Med. 2016
Mao X. et al	Pathological α -synuclein transmission initiated by binding lymphocyte-activation gene 3	Science. 2016
Makowski SL. et al	A Protease-independent Function for SPPL3 in NFAT Activation	Mol Cell Biol. 2015
Lauren J. et al	Cellular prion protein mediates impairment of synaptic plasticity by amyloid-beta oligomers	Nature. 2009
Li S. et al	Regulation of Virus-triggered Signaling by OTUB1- and OTUB2-mediated Deubiquitination of TRAF3 and TRAF6	J Biol. Chem. 2010
Varjosalo M. et al	Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling	Cell. 2008