



Functional Genomics

Explore a specific gene, a family of genes or a whole genome.

GENE SPECIFIC SETS & KITS

Select the cDNA, ORF, shRNA or sgRNA clones specific for your gene of interest from our extensive collections.

LIBRARIES & SETS

Assay many thousands of effector constructs simultaneously with genome-wide expression, RNAi and CRISPR libraries.

CUSTOM SERVICES

Benefit from high-quality gene synthesis, shRNA or sgRNA library generation and cell line engineering performed by experts.

VECTOR SYSTEMS

Choose the cDNA, shRNA or sgRNA/Cas9 expression system tailored for your specific application.

GENE		
EXPRESSION	SILENCING	EDITING
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓

www.biocat.com/functional-genomics

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Explore a specific gene, a family of genes or a whole genome.

Expression

• [cDNA & ORF Clones](#)

Keyword | Symbol | Gene ID

Browse the extensive cDNA & ORF collections of transOMIC and OriGene.



Silencing

• [shRNA Sets & Kits](#)

Keyword | Symbol | Gene ID

Find gene-specific shRNA sets for efficient knockdown. Looking for siRNA? Try [OriGene's 27mer Trilencer siRNA](#)



Editing

• [CRISPR/Cas9 Kits & qRNAs](#)

Keyword | Symbol | Gene ID

Search tool for over 1,200,000 gene specific gRNAs and CRISPR/Cas9 reagents.



GENE
SPECIFIC
SETS & KITS

LIBRARIES
& SETS

CUSTOM
SERVICES

VECTOR
SYSTEMS

• [Human Genome-Wide Lentiviral Libraries](#)

• [DECIPHER Lentiviral shRNA Libraries](#)

• [Ultramir Lentiviral shRNA Libraries](#)

• [CRISPR Human Genome-Wide Lentiviral sgRNA Libraries](#)

• [Lentiviral shRNA Knockdown Constructs and Libraries](#)

• [Knockdown Cell Line Engineering](#)

• [gRNA Synthesis](#)

• [CRISPR Lentiviral gRNA Custom Constructs and Libraries](#)

• [Knockout Cell Line Engineering](#)

• [Gene Editing Cell Line Engineering](#)

• [Lentiviral shRNA Cloning Vectors](#)

• [Retroviral shRNA Cloning Vectors](#)

• [Lenti- and Adenoviral Expression Vectors](#)

• [Enhanced Episomal Expression Vectors](#)

• [PiggyBac Transposon System](#)

• [CRISPR/Cas9 Tool Box](#)
sgRNA cloning vectors, HR donor vectors, Cas9 mRNA and Cas9 proteins.