



400,000+ cDNA Clones, Competitive Pricing

Your Preferred cDNA ORF Clones

Extensive products

- ▶ Gene bank: 11,000+ molecules, 400,000+ cDNA clones, most are ready to ship
- ▶ Multiple species: Human, Mouse, Rabbit, Rat, Cynomolgus, Rhesus, Canine, Ferret, Zebrafish, Virus
- ▶ Various tags: GFPspark®, OFPspark®, Flag, Myc, His, HA at C/N terminus

Strict quality control

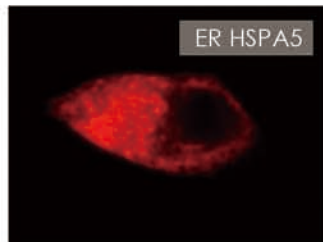
- ▶ Full length sequence confirmed
- ▶ 100% accurate sequence guaranteed

Expression validated

Expression-Ready Vectors with high expression level. Enhanced signals are showed in the validation experiments below.



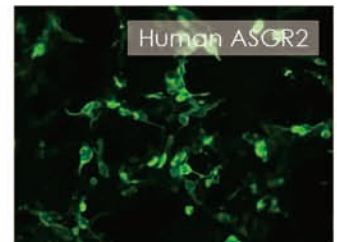
GFP (GFPspark®) tag



OFP (OFPspark®) tag



N-FLAG tag



C-FLAG tag

Custom molecular biology services

- ▶ High quality
- ▶ Low risk
- ▶ Rich experience

CRISPR/Cas9 service

Gene knock-out cell line construction

Gene knock-in cell line construction

gRNA plasmid construction

Real time PCR primer and probe design

Real-time quantitative PCR analysis

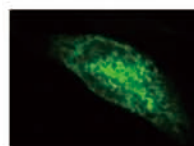
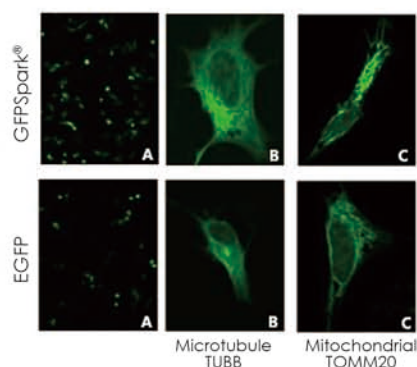
Featured cDNA ORF Clone Reagents

1 GFPSpark® & OFPSpark® tagged Expression ORF Clones

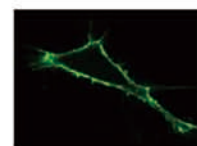
Sino Biological US Inc. recommend with organelle marker expression vector:

- 1) GFP or OFP fluorescent colors for choice
- 2) Easy labeling of cell compartments and proteins
- 3) Perfect for study of localization and trafficking
- 4) No antibody or chemical treatment required

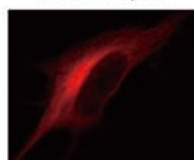
GFPSpark® comparison with EGFP: Brighter fluorescence



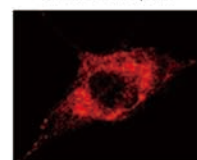
Endoplasmic reticulum
HSPA5-GFPSpark®



Cell membrane
GPA33-GFPSpark®



Microtubule
TUBB-OFPSpark®



Mitochondrial
PRDX5-OFPSpark®

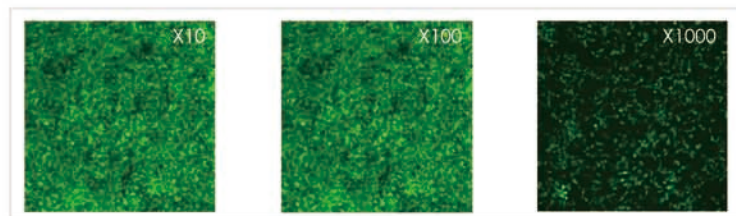
Learn more about GFPSpark® & OFPSpark® tagged Expression ORF Clones: www.sinobiological.com/Fluorescent-Protein-homepage-elite.html

2 Lentiviral Expression ORF Clones

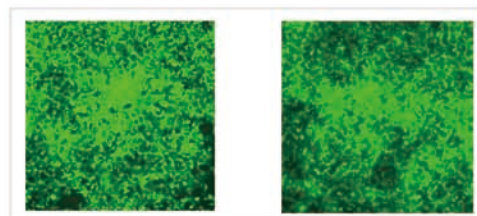
The third generation lentivirus vector improves transgene expression, virus titer and biosafety.

Sino biological has 120,000+ lentiviral ORF clones covering multiple research areas.

Wide compatibility, transfer plasmids and other company's packaging plasmids can be freely combined.



pLV-GFPSpark® ORF clone delivery into 293LT cells.
After concentration the viral titer is up to 1.27×10^8 TU/ml



pLV-GFPSpark®(SB) + Package Kit (A company) pLV-GFPSpark®(SB) + Package Kit (B company)

3 qPCR Primers

- Unique primer design
 - To avoid genomic DNA amplification, at least one primer is designed crosses the junction of exons according to the conserved region of a specific gene with all variants.
- Strict validation process
 - Confirmed in positive organizations; screened the primer with high specificity and high sensitivity.
- Uniform PCR conditions, saving time and cost.
- 100% amplification efficiency, ensuring the accuracy of quantitative RNA.

4 Control vector

Catalogue	Name
CV011	untagged Negative Control
CV026	C-GFPSpark® Control
CV012	C-FLAG Negative Control
CV013	C-HA Negative Control

Catalogue	Name
CV014	C-Myc Negative Control
CV025	C-OFPSpark® Control
CV016	N-FLAG Negative Control
CV027	N-GFPSpark® Control

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Website: www.sinobiological.com



Sino Biological
Biological Solution Specialist