# Mouse AKR1B3 ORF mammalian expression plasmid, N-GFPSpark tag



Catalog Number: MG52283-ANG

# **General Information**

- Gene: aldo-keto reductase family 1, member B3 (aldose reductase)
- Official Symbol : AKR1B3
- Synonym: AR, ALR2, Ahr1, Ahr-1, Aldr1, Akr1b1, Aldor1 Source: Mouse
- cDNA Size: 951bp
- RefSeq : NM\_009658.3

# Description

Lot : Please refer to the label on the tube

Vector : pCMV3-N-GFPSpark

#### Shipping carrier :

Each tube contains approximately 10 µg of lyophilized plasmid.

#### Storage :

The lyophilized plasmid can be stored at ambient temperature for three months.

#### **Quality control :**

The plasmid is confirmed by full-length sequencing with primers in the sequencing primer list.

#### Sequencing primer list :

pCMV3-F:	5' CAGGTGTCCACTCCCAGGTCCAAG 3'	
pcDNA3-R :	5' GGCAACTAGAAGGCACAGTCGAGG 3'	
Or		
Forward T7 :	5' TAATACGACTCACTATAGGG 3'	
ReverseBGH :	5' TAGAAGGCACAGTCGAGG 3'	
pCMV/2 E and poDNA2 B are designed by Sine Biological Inc.		

pCMV3-F and pcDNA3-R are designed by Sino Biological Inc. Customers can order the primer pair from any oligonucleotide supplier.

# **Plasmid Resuspension protocol**

- 1. Centrifuge at  $5,000 \times g$  for 5 min.
- 2. Carefully open the tube and add 100  $\mu$ l of sterile water to dissolve the DNA.
- Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than  $5000 \times g$ .
- 5. Store the plasmid at -20  $^{\circ}$ C.

### The plasmid is ready for:

- Restriction enzyme digestion
- PCR amplification
- E. coli transformation
- DNA sequencing

# *E.coli* strains for transformation (recommended but not limited)

Most commercially available competent cells are appropriate for the plasmid, e.g. TOP10, DH5 $\alpha$  and TOP10F' .

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### **Vector Information**

All of the pCMV vectors are designed for high-level stable and transient expression in mammalian hosts. High-level stable and non-replicative transient expression can be carried out in most mammalian cells. The vectors contain the following elements:

•Human enhanced cytomegalovirus immediate-early (CMV) promoter for high-level expression in a wide range of mammalian cells.

• Hygromycin resistance gene for selection of mammalian cell lines.

• A Kozak consensus sequence to enhance mammalian expression.

Vector Name	pCMV3-N-GFPSpark
Vector Size	6788bp
Vector Type	Mammalian Expression Vector
Expression Method	Constitutive, Stable / Transient
Promoter	CMV
Antibiotic Resistance	Kanamycin
Selection In Mammalian Cells	Hygromycin
Protein Tag	GFPSpark