**Gene:** colony stimulating factor 2 (granulocyte-macrophage)

**Official Symbol:** CSF2

**Synonym:** Csfgm, Gm-CSf, MGI-IGM, MGC151255, MGC151257, Csf2

**Source:** Mouse

**cDNA Size:** 426bp

**RefSeq:** NM_009969.4

**Plasmid:** pCMV3-mCSF2-GFPSpark

**Plasmid Resuspension protocol**

1. Centrifuge at 5,000 \(\times\) g for 5 min.
2. Carefully open the tube and add 100 µl of sterile water to dissolve the DNA.
3. 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 °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, DH5α and TOP10F-.

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**Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.**

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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.

Physical Map of Plasmid:

Vector Name: pCMV3-C-GFPSpark
Vector Size: 6848bp
Vector Type: Mammalian Expression Vector
Expression Method: Constitutive, Stable / Transient
Promoter: CMV
Antibiotic Resistance: Kanamycin
Selection In Mammalian Cells: Hygromycin
Protein Tag: GFPSpark