**Gene:** membrane-spanning subfamily A, member 1

**Official Symbol:** MS4A1

**Synonym:** MS4A1

**Source:** Ferret
c

**cDNA Size:** 894bp

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### Plasmid Resuspension protocol

1. Centrifuge at 5,000 x 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 x g.
5. Store the plasmid at -20 °C.

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**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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**Sequencing primer list**:

- **pCMV3-F:** 5’ CAGGTGTCCACTCCAGGTCAAAG 3’
- **pcDNA3-R:** 5’ GGCAACTAGAAGGCACAGTCGAGG 3’

Or

- **Forward T7:** 5’ TAATACGACTCAGCTATAGGG 3’
- **ReverseBGH:** 5’ TAGAAGGCACAGTCGAGG 3’

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

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Catalog Number: FG60004-UT

Ferret CD20 / MS4A1 natural ORF mammalian expression plasmid