

## **Product datasheet for MG201284**

## Mafg (BC052633) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Mafg (BC052633) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Mafg

**Synonyms:** AA545192; C630022N07Rik

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG201284 representing BC052633

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACGACCCCCAATAAAGGAAACAAGGCCTTAAAGGTGAAGCGGGAGCCAGGCGAGAATGGCACCAGCT
TGACCGACGACGAGGAGCTGGTAACCATGTCGGTGCGAGAGTTGAACCAGCACCTGCGAGGCCTCTCCAAGGA
AGAGATCATCCAGCTGAAGCAGCGGGGCGCACACTGAAGAACCGGGGCTACGCGGCCAGCTGCCGCGTC
AAGCGGGTGACACAGAAGGAGGAGCTGGAGAAGCAGAAGGCGGAGCTCCAGCAGGAGGTGGAGAAGCTGG
CCTCGGAGAATGCCAGCATGAAGCTGGAGCTCGATGCCCTGCGCTCCAAGTACGAGGCCCTGCAGAACTT
TGCCAGGACCGTGGCCCGCAGCCCTGTGGCCCCAGCTCGGGGTCCCCTTGCTGCTGCTGGCCCCTGGGCCCCTG
GTTCCTGGCAAGGTGGCTGCCACCACCAGCGTCATCACAATAGTAAAGTCCAAGACGGATGCTCGGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201284 representing BC052633

Red=Cloning site Green=Tags(s)

MTTPNKGNKALKVKREPGENGTSLTDEELVTMSVRELNQHLRGLSKEEIIQLKQRRRTLKNRGYAASCRV KRVTQKEELEKQKAELQQEVEKLASENASMKLELDALRSKYEALQNFARTVARSPVAPARGPLAAGLGPL

VPGKVAATSVITIVKSKTDARS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



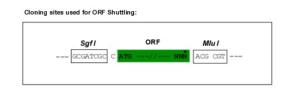
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

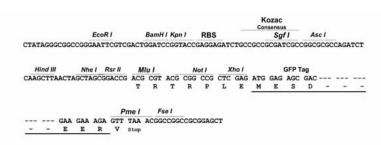
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

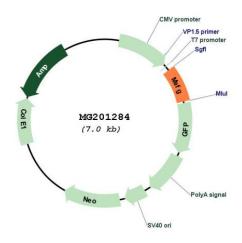


## **Cloning Scheme:**





## Plasmid Map:



**ACCN:** BC052633 **ORF Size:** 488 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.



**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul 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 (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** <u>BC052633</u>, <u>AAH52633</u>

RefSeq Size: 1720 bp
RefSeq ORF: 488 bp
Locus ID: 17134

Cytogenetics: 11 84.35 cM

**Gene Summary:** Since they lack a putative transactivation domain, the small Mafs behave as transcriptional

repressors when they dimerize among themselves (PubMed:16738329, PubMed:9679061). However, they seem to serve as transcriptional activators by dimerizing with other (usually larger) basic-zipper proteins, such as NFE2, NFE2L1 and NFE2L2, and recruiting them to specific DNA-binding sites (PubMed:16738329, PubMed:9679061). Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NFE2L2 transcription factor. Transcription factor, component of erythroid-specific transcription factor NFE2L2. Activates globin gene expression when associated with NFE2L2 (By similarity). May be involved in signal transduction of extracellular H(+) (By similarity). [UniProtKB/Swiss-Prot

Function]