

Product datasheet for **MG201268**

Mafg (BC002092) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mafg (BC002092) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mafg
Synonyms: AA545192; C630022N07Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201268 representing BC002092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGACCCCAATAAAGGAAACAAGGCCTAAAGGTGAAGCGGGAGCCAGGCGAGAATGGCACCAGCT
TGACCGACGAGGAGCTGGTAACCATGTCGGTGCGAGAGTTGAACCAGCACCTGCGAGGCCTCTCCAAGGA
AGAGATCATCCAGCTGAAGCAGCGGAGGCGCACACTGAAGAACCAGGGCTACGCGGCCAGCTGCCGCGTC
AAGCGGGTGACACAGAAGGAGGAGCTGGAGAAGCAGAAGGCGGAGCTCCAGCAGGAGGTGGAGAAGCTGG
CCTCGGAGAATGCCAGCATGAAGCTGGAGCTCGATGCCCTGCGCTCCAAGTACGAGGCCCTGCAGAACTT
TGCCAGGACCGTGGCCCGCAGCCCTGTGGCCCCAGCTCGGGGTCCCTTGTCTGCTGGCCTGGGGCCCTG
GTTCTGGCAAGGTGGCTGCCACCAGCGTCATCAATAAGTAAAGTCCAAGACGGATGCTCGGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201268 representing BC002092
 Red=Cloning site Green=Tags(s)

MTTPNKGKALKVKREPGENGLSLTDEELVTMSVRELNQHLRGLSKEEIIQLKQRRRTLKNRGYAASCRV
KRVTQKEELEKQKAELEQVEKLAENASMKLELDALRSKYEALQNFARTVARSPVAPARGPLAAGLGPL
VPGKVAATSVITIVKSKTDARS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

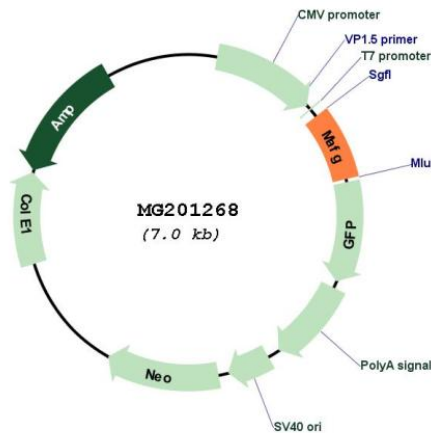


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Cloning Scheme:



Plasmid Map:



ACCN: BC002092

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:	<ol style="list-style-type: none">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>BC002092</u> , <u>AAH02092</u>
RefSeq Size:	1357 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]