

Product datasheet for **MC207324**

Mafg (NM_010756) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mafg (NM_010756) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mafg
Synonyms: AA545192; C630022N07Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207324 representing NM_010756
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACGACCCCAATAAAGGAAACAAGGCCTTAAAGGTGAAGCGGGAGCCAGGCGAGAATGGCACCAGCT
TGACCGACGAGGAGCTGGTAACCATGTCGGTGCGAGAGTTGAACCAGCACCTGCGAGGCCTCTCCAAGGA
AGAGATCATCCAGCTGAAGCAGCGGAGGCGCACACTGAAGAACCAGGGGCTACGCGGCCAGCTGCCGCGTC
AAGCGGGTGACACAGAAGGAGGAGCTGGAGAAGCAGAAGGCGGAGCTCCAGCAGGAGGTGGAGAAGCTGG
CCTCGGAGAATGCCAGCATGAAGCTGGAGCTCGATGCCCTGCGCTCCAAGTACGAGGCCCTGCAGAACTT
TGCCAGGACCGTGGCCCGCAGCCCTGTGGCCCCAGCTCGGGGTCCCTTGCTGCTGGCCTGGGGCCCTG
GTTCTGGCAAGGTGGCTGCCACCAGCGTCATCACAATAGTAAAGTCCAAGACGGATGCTCGGTCA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_010756

Insert Size: 489 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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>NM_010756.3</u> , <u>NP_034886.1</u>
RefSeq Size:	1720 bp
RefSeq ORF:	489 bp
Locus ID:	17134
UniProt ID:	<u>O54790</u>
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]