

Product datasheet for RG221486

MAFG (NM_002359) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MAFG (NM 002359) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: MAFG

Synonyms: hMAF

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG221486 representing NM_002359

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACGACCCCCAATAAAGGAAACAAGGCCTTGAAGGTGAAGCGGGAGCCGGGTGAGAATGGCACCAGCC
TGACGGATGAGGAGCTGGTGACCATGTCGGTGCGGGAGCTGAACCAGCACCTGCGGGGCCTGTCCAAGGA
GGAGATCGTCCAGCTGAAGCAGCGCCGGCGCACGCTCAAGAACCGCGGCTACGCTGCCAGCTGCCGCGTG
AAGCGGGTGACGCAGAAGGAGGAGGAGCTGGAGAAGCAGAAGGCGGAGCTGCAGCAGAGAGGTGGAGAAGCTGG
CCTCAGAGAACGCCAGCATGAAGCTGGAGCTCGACGCGCTCCAAGTACGAGGCGCTGCAGACCTT
CGCCCGGACGGTGGCCCCGCAGCCCCGTGGCGCCAGCCCCGGGCCCCTTGCCGCCGGCCTGGGGCCCCTC
GTCCCAGGCAAGGTGGCCCCACCAGCGTCATCACAATAGTAAAGTCCAAGACGGATGCCCGATCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221486 representing NM_002359

Red=Cloning site Green=Tags(s)

MTTPNKGNKALKVKREPGENGTSLTDEELVTMSVRELNQHLRGLSKEEIVQLKQRRRTLKNRGYAASCRV KRVTQKEELEKQKAELQQEVEKLASENASMKLELDALRSKYEALQTFARTVARSPVAPARGPLAAGLGPL

VPGKVAATSVITIVKSKTDARS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



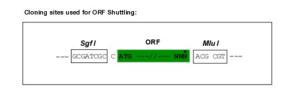
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

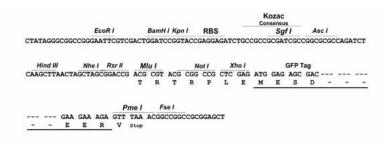
CN: techsupport@origene.cn

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

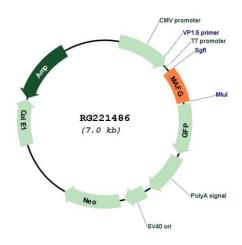


Cloning Scheme:





Plasmid Map:



ACCN: NM 002359

ORF Size: 486 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.

MAFG (NM_002359) Human Tagged ORF Clone - RG221486

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>NM 002359.4</u>

 RefSeq Size:
 5043 bp

 RefSeq ORF:
 489 bp

 Locus ID:
 4097

 UniProt ID:
 015525

 UniProt ID:
 O15525

 Cytogenetics:
 17q25.3

Domains: bZIP_Maf, BRLZ

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Globin gene expression is regulated through nuclear factor erythroid-2 (NFE2) elements

located in enhancer-like locus control regions positioned many kb upstream of alpha- and beta-gene clusters (summarized by Blank et al., 1997 [PubMed 9166829]). NFE2 DNA-binding activity consists of a heterodimer containing a ubiquitous small Maf protein (MafF, MIM 604877; MafG; or MafK, MIM 600197) and the tissue-restricted protein p45 NFE2 (MIM 601490). Both subunits are members of the activator protein-1-like superfamily of basic

leucine zipper (bZIP) proteins (see MIM 165160).[supplied by OMIM, Mar 2010]