

## 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 Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG221486 representing NM\_002359  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGACCCCAATAAAGGAAACAAGGCCTTGAAGGTGAAGCGGGAGCCGGGTGAGAATGGCACCAGCC  
TGACGGATGAGGAGCTGGTGACCATGTCGGTGCGGGAGCTGAACCAGCACCTGCGGGCCTGTCCAAGGA  
GGAGATCGTCCAGCTGAAGCAGCGCCGGCGCACGCTCAAGAACC GCGGCTACGCTGCCAGCTGCCGCGTG  
AAGCGGGTGACGCAGAAGGAGGAGCTGGAGAAGCAGAAGGCGGAGCTGCAGCAGGAGGTGGAGAAGCTGG  
CCTCAGAGAACGCCAGCATGAAGCTGGAGCTCGACGCGCTGCGCTCCAAGTACGAGGCGCTGCAGACCTT  
CGCCCGGACGGTGGCCCGCAGCCCGTGGCGCCAGCCCGGGGCCCTTGCCGCCGCCTGGGGCCCTC  
GTCCAGGCAAGGTGGCCGCCACCAGCGTCATCAATAGTAAAGTCCAAGACGGATGCCCGATCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG221486 representing NM\_002359  
Red=Cloning site Green=Tags(s)

MTTPNKGKALKVKREPGENGLSLTDEELVTMSVRELNQHLRGLSKEEIVQLKQRRRTLKNRGYAASCRV  
KRVTQKEELEKQKAELEQVEKLAENASMKLELDALRSKYEALQTFARTVARSPVAPARGPLAAGLGPL  
VPGKVAATSVITIVKSKTDARS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_002359.4</u>
<b>RefSeq Size:</b>	5043 bp
<b>RefSeq ORF:</b>	489 bp
<b>Locus ID:</b>	4097
<b>UniProt ID:</b>	<u>O15525</u>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	bZIP_Maf, BRLZ
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]