

Product datasheet for **SC118695**

MAFG (NM_002359) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MAFG (NM_002359) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MAFG |
| Synonyms: | hMAF |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC118695 sequence for NM_002359 edited (data generated by NextGen Sequencing) |

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ATGACGACCCCAATAAAGGAAACAAGGCCTTGAAGGTGAAGCGGAGCCGGGTGAGAAT
GGCACCAGCCTGACGGATGAGGAGCTGGTGACCATGTCGGTGCGGGAGCTGAACCAGCAC
CTGCGGGGCTGTCCAAGGAGGAGATCGTCCAGCTGAAGCAGCGCCGGCGCACGCTCAAG
AACCGCGGTACGCTGCCAGCTGCCGCGTGAAGCGGGTACGCAGAAGGAGGAGCTGGAG
AAGCAGAAGGCGGAGCTGCAGCAGGAGGTGGAGAAGCTGGCCTCAGAGAACGCCAGCATG
AAGCTGGAGCTCGACGCGCTGCGCTCCAAGTACGAGGCGCTGCAGACCTTCGCCCGGACG
GTGGCCCGCAGCCCGTGGCGCCAGCCCGGGGCCCTTGCCGCCGGCCTGGGGCCCTC
GTCCCAGGCAAGGTGGCCGCCACCAGCGTCATCACAATAGTAAAGTCCAAGACGGATGCC
CGATCGTAG
```

Clone variation with respect to NM_002359.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002359 unedited
 TGTCGGGATTTTGTAAACGACTTATATAGGCGGCCGNAATTCGCACCAGCCGGCCTTC
 CAGTGCCTCGGCCCGGCCGCGCAGGCGGCGAGTCTCCGAGCCCCGGGCCCGACCC
 TCGCGCCGGTCCCTGCCCGCGCGGCCCTCGGAGCGCGCGGCCCGCCCCGCCCGGCC
 TCGGCCCGCCGGGCCCGCAGTGTGAGAGCGCCTGCTCGCTGTGCCCGGGTTATGACGA
 CCCCCAATAAAGGAAACAAGGCCTTGAAGGTGAAGCGGAGCCGGGTGAGAATGGCACCA
 GCCTGACGGATGAGGAGCTGGTGACCATGTCCGTGCGGGAGCTGAACCAGCACCTGCGGG
 GCCTGTCCAAGGAGGAGATCGTCCAGCTGAAGCAGCGCCGGCGCACGCTCAAGAACCGCG
 GCTACGCTGCCAGCTGCCGCGTGAAGCGGGTGACGCAGAAGGAGGAGCTGGAGAAGCAGA
 AGGCGGAGCTGCAGCAGGAGGTGGAGAAGCTGGCCTCAGAGAACGCCAGCATGAAGCTGG
 AGCTCGACGCGCTGCGCTCCAAGTACGAGGCGCTGCAGACCTTCGCCCGACGGTGGCC
 GCAGCCCCGTGGCGCCAGCCCGGGGCCCTTGCCTCGCGGCTGGGGCCCTCGTCCCAG
 GCAAGGTGGCCGCCACCAGCGTCATCACAATAGTAAAGTCCAAGACGGATGCCGATCGT
 NAGGACGCGCGTCTGCCAGGCGGGTCTTTCGGGGCCACTAGGCACATGGCGAATTTGG
 CTGCCCTGTCCCTCTGTTTCCCTTCTCTCTTTCTCCCTCTCTTCCCCACCTTTCTC
 TCTTTCTGCCAAGCACAACTGTACCCAGGGGCGCCCGGGCTGGAGCCCTTTGATCT
 CGTCATTGTCGTCTGTGTTTTGTATGTTGGGGATGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002359 unedited
 GCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAACTAGCAAAGT
 TTCTATTACTTTCTCCCTTTCCATTTCATATGGTCAAATGGTCTTCTTGCTTGTTTT
 TTTTCTAAAAGACAGTTTTATAAATACTCTGCAGCTTTTTTTCTTTAACTTTTAAACAT
 ATAATTAATTTAATAACTTTGTAAGGAACTTCTCTTTTTAAATAAAGGGCTATTTAA
 CCACCAAATAGTTCATGTAACAGTGACACGGGACCCATCGCAGGGCACACTGGACCCA
 CCCTCACGTTAAGCGCACAACCAGCGATTTGGTCTTGTTCAAGTGAACGGGTGAGCCTG
 AGTGACAGCCCCCTGGGCCAGCTGCACGCCCCAGCACCCTGGGCCAGGCTGGTGGT
 CCACCATCAGGGCCTTCAAGCCCGCCCTACTCTCAGAGCAGAGCCCATCTTTCATGCT
 GGGCTAAGCTGAGCTGCCCCCTGGGGCTAAAGAGAGTGAATCCTTCCAGCCCGCGAGC
 CTGTGGCCACTCGGGAGTGGAGGAACTGGGACCCTACTGCTCGGGGACACGCGAGG
 CCCAGCGTGCCTGCTCTTTTCTTTCCCGCAACTTTCTTTATTCCGTTCCACAGCAACA
 ACTCTGGACTCCAAGCCTGCATGGCCCCGTTGACAAAAGGGGGTTGGGGCGTACCCCTC
 TTCCCGGCCGATTTTGACCCATTCCCCACCTTTCCAAAACCCCCACGGACCATTGAC
 TGAGTTTCAAATGGGCCCTACCCCGCGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_002359

Insert Size:

1750 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).

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: | NM_002359.2 , NP_002350.1 |
| RefSeq Size: | 5043 bp |
| RefSeq ORF: | 489 bp |
| Locus ID: | 4097 |
| UniProt ID: | O15525 |
| Cytogenetics: | 17q25.3 |
| Domains: | bZIP_Maf, BRLZ |
| Protein Families: | Druggable Genome, Transcription Factors |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |