

Product datasheet for **SC116772**

c Maf (MAF) (NM_005360) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | c Maf (MAF) (NM_005360) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | c Maf |
| Synonyms: | AYGRP; c-MAF; CCA4; CTRCT21 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_005360, the custom clone sequence may differ by one or more nucleotides |

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ATGGCATCAGAACTGGCAATGAGCAACTCCGACCTGCCACCAGTCCCCTGGCCATGGAATATGTTAATG
ACTTCGATCTGATGAAGTTTGAAGTAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGCGG
CCGTCTCATCGCCGGGGGCTCGCTGTCTCCACCCCATGAGCACGCGTGCAGCTCGGTGCCCCCTTC
CCCAGTTCTCGGCGCCAGCCCGGGCTCGGGCAGCGAGCAGAAGGCGCACCTGGAAGACTACTACTGGA
TGACCGGCTACCCGACAGCTGAACCCGAGGCGCTGGGCTTCAGCCCCGAGGACGCGGTGAGGGCGCT
CATCAGCAACAGCCACCAGCTCCAGGGCGGCTTCGATGGCTACGCGCGGGGCGCAGCAGCTGGCCGG
GCGGCCGGGGCCGGTGCCGGCGCTCCTTGGGCGCAGCGGCGAGGAGATGGGCCCGCCGCGCCGTGG
TGTCCGCGTGATCGCCGCGGCCCGCGCAGAGCGGCGGGCCCGCACTACCACCACCACCACCACCA
CGCCGCGGCCACCACCACCACCAGCGCCGGCGCGCCCGGCGCGCGGGCAGCGCGGCCGCTCGGCC
GGTGGCGCTGGGGGCGCGGGCGGGTGGCCCGCCAGCGCTGGGGGCGGCGGCGGGCGGGCGGGCGG
GAGGGCGGGGGCGGGCGGGGGCGGGGGCGCCCTGCACCCGACACGCGCCGGCGGGCCTGCACTT
CGACGACCGCTTCTCCGACGACAGCTGGTGACCATGTCTGTGCGGAGCTGAACCGGACGCTGCGCGG
GTCAGCAAGGAGGAGGTGATCCGGCTGAAGCAGAAGAGGCGGACCCTGAAAAACCGGGCTATGCCAGT
CCTGCCGCTTCAAGAGGGTGCAGCAGAGACAGTCTCGGAGTGGGAGTGGGAGGAGGAGGAGGAGGAGG
CGACCACCTCAAGCAGGAGATCTCCAGGCTGGTGGCGGAGAGGAGCGGTACAAGGAGAAATACGAGAAG
TTGGTGAGCAGCGGCTTCCGAGAAAACGGCTCGAGCAGCGACAACCCGTCCTCTCCGAGTTTTTCATAA
CTGAGCCCACTCGCAAGTTGGAGCCATCAGTGGGATACGCCACATTTTGAAGCCCCAGCATCGTGTACT
TACCAGTGTTCACAAAATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005360 unedited
TATTTTGTAAACGACTCACTATAGGGCGGCCGCGGCAAGCTGGCTCACCCGCTGGCC
ACCCAGCACAGCCCGCTGGCCCCCTCCTGCAGCCCATCTGGCGGAGCGGCGGCGCGGC
GGCGGGCAGGAGAATGGCATCAGAAGTGGCAATGAGCAACTCCGACCTGCCACCAAGT
CCCCTGGCCATGGAATATGTTAATGACTTCGATCTGATGAAGTTGAAGTGAAAAAGGAA
CCGGTGGAGACCGACCGCATCATCAGCCAGTGGCGCCGTCATCGCCGGGGGCTCGCTG
TCCTCCACCCCATGAGCACGCCGTGCAGATCGGTGCCCCCTTCCCCAGCTTCTCGGCG
CCCAGCCCGGGCTCGGGCAGCGAGCAGAAGGCGCACCTGGAAGACTACTACTGGATGACC
GGTACCCGACGAGCTGAACCCGAGGCGCTGGGCTTACGCCCCGAGGACGCGGTGAG
GCGCTCATCAGCAACAGCCACCAGCTTACAGGGCGGCTCCGATGGCTACGCGCGCGGCGCC
GCATATCTGGCCGCGGCGGCGGGGCGCGCGCGCCCTCCTTGGGCGGAGTGGTGA
CGAGATGGGCCCGCCGCGGCGTGGCGTTCGCGCGATCCCCGTGGCCGCGCTCAA
CCGGTGTGTGCCCGCTATCCCGACCGATTCCACCACGCGGATCGGCACCACCCCCC
CCACTGTTCCCCCGTCCGGCTCTCTCCGAATACCCCGCCACACCTGACAGGGGTCC
CGGGGCCCTTTCTTTTGTATCCCGTCCCTTCTGCGGCCCGCGGTTGCCCGCCC
ACATAACGCTCTCCGTCCTCCTCCTCCACCCCTATCCACCACCCCTTTTTC
TACTTCCCCCCCCCTCCTCTCTCCCCCTCCCTTTCCGCCCTGCCCCCTCTTCCCA
CTCCGACCCCCCCCCCTCCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005360 unedited
TTGTTTACTAGCGCATGCNGNAGCNGAGTAANNCTTTTCTTTTTTCTAACACATT
TATTTTTATTTAAAAAGGAAAATAACCAGTAATCAGGGTAGGTGTTCTATCATGACTG
CAAATAATAATAAATGATGATTTTTTTAATGTACAGTTTTTACACAAATTTCAATTT
GTGAACACACTGTAAGTACACGATGTTGGGTCACTCTAAAGGGGCGAATCCCATTGAT
GGTCCAACCTTGGAGTGGGCTCAGTTATGAAAACTCGGGAGAGGACGGGTTGTCGCTG
CTCGAGCCGTTTTCTCGGAAGCCGCTGCTACCAACTTCTCGTATTTCTCCTTGTACGG
TCCCTCTCGCGCACCGCTGGAGATCTCCTGCTTGAAGTGGTGGTACTGCTGCAGCAGC
TGGTCTTCTCCGACTCCAGGACGTGTCTGCTGCACCTCTTGAAGCGGCAGGACTGG
GCATAGCCGCGGTTTTTCCAGGTCCCGCTTCTGCTTACAGCGGATCACCTCCTCCTTG
TGGACCCGCGCACCGCGGTTTCTGCGCAAGAGCTGGCACCAACTGGTCTCGGAAAAA
CGGTCCGCCAATGCAGGCCGACGGGGCCCTGTCGGGATCCGGCTCCCCCGCGCGCG
GGGCCCGTTCGGCTTTCGGGGGCGCGGCTCGCGGGTCCCCCGGTTGGCGGGGACCC
CGTTAGCCGCGCCAGGACATTCGCTAAAGTGGGCCCGCGGGCCCGGGCCCGGGCC
CCCGCTCGTCCGCCGCGCTTCCGCCCGCCCTGGGCGCGGATGGGTATATTGCGAT
GACGAACCAGTTACGCGGACTGACGAGGATAAGGAGGCTCCGCTCTCGTGACGGTCCGG
CGATCACGTCCCGGTGGCGCCGTTGGCGGGTTACGAACGCGCCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_005360

Insert Size:

1480 bp

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| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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_005360.3 , NP_005351.2 |
| RefSeq Size: | 2161 bp |
| RefSeq ORF: | 1212 bp |
| Locus ID: | 4094 |
| UniProt ID: | O75444 |
| Cytogenetics: | 16q23.2 |
| Domains: | bZIP_Maf, BRLZ |
| Protein Families: | Druggable Genome, Transcription Factors |
| Gene Summary: | <p>The protein encoded by this gene is a DNA-binding, leucine zipper-containing transcription factor that acts as a homodimer or as a heterodimer. Depending on the binding site and binding partner, the encoded protein can be a transcriptional activator or repressor. This protein plays a role in the regulation of several cellular processes, including embryonic lens fiber cell development, increased T-cell susceptibility to apoptosis, and chondrocyte terminal differentiation. Defects in this gene are a cause of juvenile-onset pulverulent cataract as well as congenital cerulean cataract 4 (CCA4). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]</p> <p>Transcript Variant: This variant (1) is spliced and encodes the longer isoform (a).</p> |