

Product datasheet for RC209247

c Maf (MAF) (NM_001031804) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	c Maf (MAF) (NM_001031804) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	c Maf
Synonyms:	AYGRP; c-MAF; CCA4; CTRCT21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209247 representing NM_001031804 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCAGAAGTGGCAATGAGCAACTCCGACCTGCCACCAGTCCCCTGGCCATGGAATATGTTAATG
ACTTCGATCTGATGAAGTTTGAAGTAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGC
CCGTCTCATCGCCGGGGCTCGCTGTCTCCACCCCATGAGCACGCGTGCAGCTCGGTGCCCCCTCC
CCCAGCTTCTCGGCGCCAGCCGGGCTCGGCGAGCAGCAGAAGGCGCACCTGGAAGACTACTACTGGA
TGACCGGCTACCCGAGCAGCTGAACCCGAGGCGCTGGGCTTCAGCCCCGAGGACGCGGTGAGGCGCT
CATCAGCAACAGCCACCAGCTCCAGGGCGCTTCGATGGCTACGCGCGCGGGGCGCAGCAGCTGGCCGCG
GCGGCCGGGGCCGGTGC CGGCGCCTCCTTGGGCGCAGCGGCGAGGAGATGGGCCCGCCGCGCGGTGG
TGTCCGCGTGATCGCCGCGGCCCGCGCAGAGCGGCGCGGCCCGCACTACCACCACCACCACCACCA
CGCCGCGGCCACCACCACCACCCGACGGCCGCGCGCCCGGCGCGCGGGCAGCGCGGCCCGCTCGGCC
GGTGGCGCTGGGGGCGCGGGCGGCGGTGGCCCGCCAGCCTGGGGGCGGCGGCGGCGGCGGCGGCG
GAGGCGCGGGGGCGCGGGGGCGGGGGCGCCCTGCACCCGACACGCGCCGGCGGCGGCGGCGGCG
CGACGACCGCTTCTCCGACGAGCAGCTGGTGACCATGTCTGTGCGGAGCTGAACCGCAGCTGCGCGG
GTCAGCAAGGAGGAGTGATCCGGCTGAAGCAGAAGAGGCGGACCCTGAAAAACCGGCTATGCCAGT
CCTGCCGCTTCAAGAGGTGCAGCAGAGACAGTCTGAGTTCGAGAGAAGAACAGCTGCTGCAGCAAGT
CGACCACCTCAAGCAGGAGATCTCCAGGCTGGTGCAGGAGGACGCGTACAAGGAGAAATACGAGAAG
TTGGTGAGCAGCGCTTCCGAGAAAACGGCTCGAGCAGCACAACCCGCTCTCCCGAGTTTTTTCATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC209247 representing NM_001031804
Red=Cloning site Green=Tags(s)

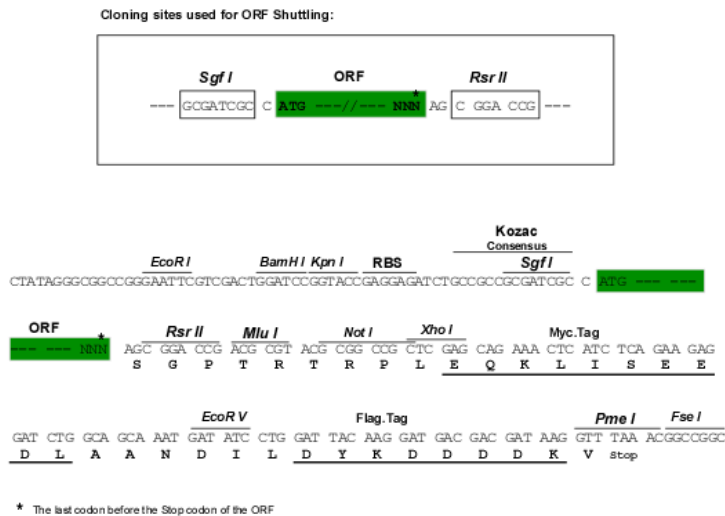
MASELAMNSDLPTSPLAMEYVNDFDLMKFEVKKEPVETDRIISQCGRLIAGGSLSTPMSTPCSSVPPS
 PSFSAPSPGSGSEQKAHLEDYYWMTGYPQQLNPEALGFSPEDAVALISNSHQLQGGFDGYARGAQLAA
 AAGAGAGASLGGSGEEMGPAAAVVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASA
 GGAGGAGGGGPASAGGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDQLVTMSVRELNRQLRG
 VSKEEVIRLKQKRRTLKNRGYAQSCRFKRVQQRHVLESEKNQLLQQVDHLKQEI SRLVREERDAYKEYEK
 LVSSGFRENGSSSDNPSSPEFFM

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2626_c09.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001031804

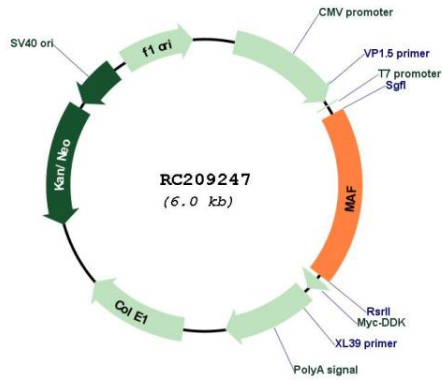
ORF Size: 1119 bp

OTI Disclaimer: 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.

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.
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_001031804.3
RefSeq Size:	6887 bp
RefSeq ORF:	1122 bp
Locus ID:	4094
UniProt ID:	O75444
Cytogenetics:	16q23.2
Protein Families:	Druggable Genome, Transcription Factors
MW:	38.9 kDa
Gene Summary:	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]

Product images:



Circular map for RC209247