

Product datasheet for **RG234396**

MCAF2 (ATF7IP2) (NM_001256160) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCAF2 (ATF7IP2) (NM_001256160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCAF2
Synonyms:	MCAF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234396 representing NM_001256160
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAGTCCAGATAGAAGTAAACGGAAGATATTTAAAGCCAAAAAGACAATGCCCTAAGTTGCCGGA
 AGCAAGTAGAGATGCTGAATAAGTCAAGGAATGTTGAAGCGCTGAAAACAGCAATTGGGAGTAATGTTCC
 AAGCGGTAATCAGAGTTTCAGTCTAGTGTCTAATACTAGGACGACTGAAATAACCAATGTAGCCCTTCT
 GAAATGGTGCATCCTCATTGGACTCTAATAAAAAATTCATATCAGAGAAAAGTAAAGTATTCTCTCAGA
 ATTGCATAAAACAGTAGAAGAAATTGTTCAATTCAGAAACAAAATTGGAACAAGTTGTTTGTTCGTACCA
 AAAGCCAAGTAGAACAACAGAATCCCCAGCAGAGTCTTCACAGAAGAGGCAAAAGATTCAGTGAACACT
 TCTGAAAACGATTCTGAGCATCAGACAAATGTAACAAGATCCCTTTTGGAGCATGAGGGGCTTGTAGTC
 TAAAGTCCAGTTGCTGTCCACCCAGTGTATTGAGTGGTGTGTTGAGATGCCAGAGTCTACAGTAACCAG
 TACCGTGGGTGACAAGAAAAGTACCAGATGGTTTCCATTTAGAAACAACTCCAATTCAGAATCACAT
 GATAAAAGGCAAGTGACAACATTTTATGTTTCAGAAAGACTCAGGTTTGTGCCTGTTGAGAAAACACCTA
 ATTTGGTGAATTCAGTCACTTCTAACAACGTGTGCTGATGACATTTTGAAGTGTAGTGTAGTAGAAC
 CAGTATTTCAAATTGTGAAAGTGCAGACTCAACATGGCAGTCACTTGACACTAATAACAACAGCCAT
 TATCAAAAGAAGAGGATGTTTTAGAAAACGAGGAAAATGTTAAACGCATGAAAACCTCAGAGCAAAATTA
 ATGAAAATATTTGTGAAGTTTGGAAAGGCAACAGCATTCTGGAACAGGTGAGACATTTGATTGAGCA
 GGAGATCTATAGCATAAATTATGAACATTTGATAAGAACTGAAAGAATTGAACCAACGCATTGGGAAG
 ACAGAGTGCAGAAATAAGCATGAAGGAATAGCTGATAAACTTTTGGCAAAATAGCAAACTTCAAAGAC
 GTATTAACACAGTATTATTATTTCAAAGGAATTGTTTGAACCAACATGTTATCCAGTAATGGAGCCTC
 TAAGGTTGCAAAATTCAGAGGCTATGATTTTGGATAAGAACTCTTGAGTCAGTTAATAGTCCAATTGAAAAG
 TCTTCTGTGAATTATGAGCCTTCTAACCTTCCGAAAAGGAAGTAAAAAATTAATTTGTATCAGATC
 AAAATAAGTCTGTTTCTGAAAGTAACAATGATGATGTTATGTTGATTTCTGTGGAAGTCTAATTTGAC
 AACTCCAATTACATCAAATCCAACAGATACCAGAAAAATTACATCAGGAAATTCTAGCAATTCTCCCAAT
 GCTGAAGTTATGAAAGTCCAGTATCCCCCTGGAGTCACATTCGAAAGCTGCTTCAAACCAAAGGAAAC
 AACCCATTGGCAGAAAATGCAGTCCAGGTTCTGAGTCCTTTGAGCACCTGCCACCTCTCCAGAACCA
 CCAGCACCACTACCTGAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234396 representing NM_001256160
 Red=Cloning site Green=Tags(s)

MASPDRSKRKILKAKKTMP LSCRKQVEMLNKSRNVEALKTAIGSNVPSGNQSFSPSVITRTTEITKCS
 ENGASSLDSNKNISSEKSKVFSQNCIKPVVEIVHSETKLEQVVCSYQKPSRTTESPSRVFTTEAKDSLNT
 SENDSEHQTNVTRSLFEHEGACSLKSSCCPPSVLSGVVQMPSTVTSTVGDKKTDQMVHLETNSNSES
 DKRQSDNILCSEDSGFVPVEKTPNLVNSVTSNNCADDILKTDECSRTSISNCESADSTWQSSLDTNNSH
 YQKKRMFSENEENVKRMKTSEQINENICVSLERQTAFLQVRLIQQEIYSINYELFDKKLKELNQRIGK
 TECRNKHEGIADKLLAKIAKLQRRIKTVLLFQRNCLKPNMLSSNGASKVANSEAMILDKNLESVNSPIEK
 SSVNYEPSNPSEKSKINLSSDQNKSVSESNNDDVMLISVESPNLTPITSNPTDTRKITSNGSSNSPN
 AEVMKVQYPPWSHIRKLLQTRKQPHWHKMQSRFLSPLSTCHLSQNHQHLYLN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001256160

ORF Size: 1629 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.

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: [NM_001256160.3](#)

RefSeq Size: 3653 bp

RefSeq ORF: 1632 bp

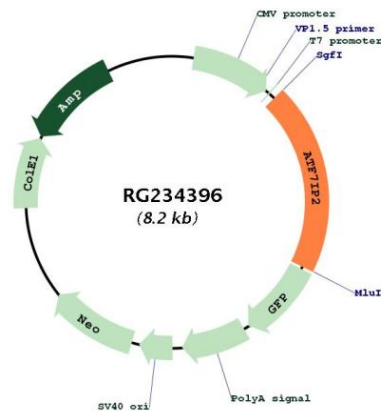
Locus ID: 80063

UniProt ID: [Q5U623](#)

Cytogenetics: 16p13.2-p13.13

Gene Summary: Recruiter that couples transcriptional factors to general transcription apparatus and thereby modulates transcription regulation and chromatin formation. Can both act as an activator or a repressor depending on the context. Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1. The complex formed with MBD1 and SETDB1 represses transcription and probably couples DNA methylation and histone H3 'Lys-9' trimethylation (H3K9me3) activity (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234396