

Product datasheet for **MR203339**

Maf1 (NM_026859) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Maf1 (NM_026859) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Maf1
Synonyms:	1110068E11Rik; AU042856
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203339 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGCTATTGGAGAACTCCAGCTTTGAGGCCATCAACTCACAGTTGACAGTGGAGACTGGAGATGCC
ATATTATTGGCAGGATTGAAAGCTACTCGTGAAGATGGCGGGAGATGATAAACATATGTTCAAGCAGTT
CTGCCAGGAGGGCCAGCCCCATGTGTTGGAGGCACTGTCCCCACCCAACTTCAGGCCTCAGTCCCAGC
AGACTGAGCAAGAGCCAGGGTGGTGATGATGAGAGTCTCTGAGCGACAAGTGCAGCCGCAAGACCCCTCT
TCTATCTGATTGCCACCCTCAATGAGTCCTTCCGGCCAGACTATGACTTCAGCACAGCCAGAAGTCATGA
ATTCAGCCGAGAGCCAAGCCTCCGCTGGGTGGTAAATGCAGTCAACTGCAGCCTGTTTTAGCTGTTTCGT
GAAGACTTCAAGGCCCTGAAGCCACAGCTGTGGAATGCAGTGGATGAGGAGATCTGCTTAGCTGAGTGTG
ACATCTACAGCTATAACCCAGATCTAGACTCCGACCCCTTTGGGGAAGATGGAAGCCTCTGGTCATTCAA
CTATTTCTTTTACAATAAGAGACTGAAGCGAATTGTCTTTAGCTGCCGCTCCATCAGTGGCTCCACG
TACACACCCTCAGAGGCAGGCAATGCACTGGACTTGGAACTGGGGCAGAGGAGGCTGATGAAGAGAGTG
GAGGTGGAGGCGGTGAGGGCAGGGCAGAGGAGACCAGCACCATGGAGGAAGACAGGGTCCAGTGATCTG
TATG

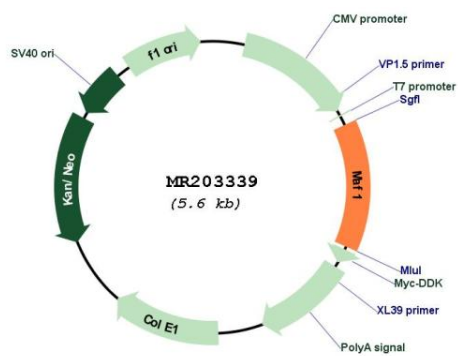
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_026859.2 , NP_081135.2
RefSeq Size:	1703 bp
RefSeq ORF:	777 bp
Locus ID:	68877
UniProt ID:	Q9D0U6
Cytogenetics:	15 D3
MW:	28.8 kDa
Gene Summary:	Plays a role in the repression of RNA polymerase III-mediated transcription in response to changing nutritional, environmental and cellular stress conditions to balance the production of highly abundant tRNAs, 5S rRNA, and other small non-coding RNAs with cell growth and maintenance (By similarity). Plays also a key role in cell fate determination by promoting mesoderm induction and adipocyte differentiation (PubMed:30110641). Mechanistically, associates with the RNA polymerase III clamp and thereby impairs its recruitment to the complex made of the promoter DNA, TBP and the initiation factor TFIIIB. When nutrients are available and mTOR kinase is active, MAF1 is hyperphosphorylated and RNA polymerase III is engaged in transcription. Stress-induced MAF1 dephosphorylation results in nuclear localization, increased targeting of gene-bound RNA polymerase III and a decrease in the transcriptional readout. Additionally, may also regulate RNA polymerase I and RNA polymerase II-dependent transcription through its ability to regulate expression of the central initiation factor TBP (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203339