

Product datasheet for MC201311

Maf1 (NM_026859) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Maf1 (NM_026859) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Maf1 |
| Synonyms: | 1110068E11Rik; AU042856 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |

Fully Sequenced ORF: >BC016260 sequence for NM_026859
 GGGGTTGGGCCCGTCGGACGCTTGTGTTGTCGGGTCGGGGAGGCGGAGGTCGCTGTTTCGTTCTCTGG
 CTGGTACGATCTCGGCGGTCGCGGCAGGTTGGTCGCGAAAGCGGGCGTTGCAGGGGGCGAGGCTATGT
 CGCGGCTGCAGCCCGTATGGGCCGCGCAGGGCCTGGAGTAACGGGACGTCGCCCGCAAGCTTCTTCCCCC
 GATACAGTGCGGCCGAGTGAGGCGCGCGCCGCCCTCCAGTCTGAGGAACCCGCGCTGCGCAAAGC
 CCGCGCCGCCCTCACCTCGGCACCGACACTAAACAACCCGCTACCCCTGGCTTGATCTAGCCCAATTCTG
 GCAGGTAGTGCTGCCCTAATCCCACTGGCACAAGAATCTCCCTTCCCAAAGGACATGAAGCTATTGGAGA
 ACTCCAGCTTTGAGGCCATCAACTCACAGTTGACAGTGGAGACTGGAGATGCCCATATTATTGGCAGGAT
 TGAAAGCTACTCGTGAAGATGGCGGGAGATGATAAACATATGTTCAAGCAGTTCTGCCAGGAGGGCCAG
 CCCCATGTGTTGGAGGCACTGTCCCACCCAACTTCAGGCCTCAGTCCAGCAGACTGAGCAAGAGCC
 AGGGTGGTGATGATGAGAGTCTCTGAGCGACAAGTGCAGCCGCAAGACCCTCTTCTATCTGATTGCCAC
 CCTCAATGAGTCTTCCGGCCAGACTATGACTTCAGCACAGCCAGAAGTCATGAATTGAGCCGAGAGCCA
 AGCCTCCGCTGGGTGGAATGCAGTCAACTGCAGCCTGTTTTAGCTGTTTCGTGAAGACTTCAAGGCC
 TGAAGCCACAGCTGTGGAATGCAGTGGATGAGGAGATCTGCTTAGCTGAGTGTGACATCTACAGCTATAA
 CCCAGATCTAGACTCCGACCCCTTTGGGGAAGATGGAAGCCTCTGGTCATTCAACTATTTCTTTTACAAT
 AAGAGACTGAAGCGAATTGTCTTCTTTAGCTGCCGCTCCATCAGTGGCTCCACGTACACACCCTCAGAGG
 CAGGCAATGCACTGGACTTGAAGTGGGGCAGAGGAGGCTGATGAAGAGAGTGGAGGTGGAGGCCGTTGA
 GGGCAGGGCAGAGGAGACCAGCACCATGGAGGAAGACAGGGTTCAGTGTCTGTATGTGATGAGAAGAA
 GCAGAGGTCTCAGCGTCATCCAGCTCTGACCAATCCCTGGACCTGTCTACCTGAGGAGCTCCAGAGCTTC
 CCCAGATGCTGGCTATGCCTTGGCACTGACACCGTCTGGCGCTGCCCAAGGCTATACCTGTGTAGCCCT
 TTGGATTGAGCCTGTGGATGTCCACTCATCCCTGCAGGCTCCTACTGCCCATGCTGTGGTGGATTAAAC
 AGCACGGGTCTGATAGAAAACGGGACTGCTCTGCACCAACAGCCTGTCACAGACAGGACAGCTGGACCA
 CAGAGTTTATTTTGTATTTCTTATTGGCCTGTACACTCCAGCTCTAAGGGCCAGTAGTTTGAAGCCCT
 ATAAGTGGTGCCAGTGTTCATGGGGTCTGGTCTTTGACCGCCCTCTGGTGGCCACTTTTGTCTCCCACT
 TTACCAGGTGGGCCACATGCACTGAGTGTCACTTTGCTGCAGCTCATTTGTTTCCAATAAAAGTTTCTGT
 GACTTAAAAAAAAAAAAAAAAA



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| Restriction Sites: | RsrII-NotI |
| ACCN: | NM_026859 |
| Insert Size: | 777 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: | BC016260 , AAH16260 |
| RefSeq Size: | 1702 bp |
| RefSeq ORF: | 777 bp |
| Locus ID: | 68877 |
| UniProt ID: | Q9D0U6 |
| Cytogenetics: | 15 D3 |
| Gene Summary: | <p>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 TFIIB. 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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3, encode the same protein.</p> |