

Product datasheet for MR201177

Mafk (NM_010757) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mafk (NM_010757) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mafk
Synonyms: AW061068; NF-E2; Nfe2u
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201177 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGACTAATCCCAAGCCCAACAAGGCATTGAAGGTCAAGAAGGAGGCGGGTGAGAACGCCCTGTTC
 TTAGCGATGATGAGCTGGTGTCCATGTCAGTGCGGGAGCTAAACCAGCACCTGCGGGGGCTACCAAAGGA
 GGAGGTCCTCGGCTGAAGCAGCGCGCGCACACTCAAGAACAGAGGCTACGCGGCTAGCTGTCGCATC
 AAGCGTGTGACACAGAAAGAGGAGCTGGAACGGCAGCGTGTGGAGCTACAGCAGGAGGTGGAGAAGCTGG
 CTCGAGAGAACAGCAGCATGCGGCTGGAGCTAGATGCCCTGCGTCCAAGTATGAGGCCCTACAGACCTT
 CGCTCGCACCGTGGCCCGAGGGCCTGTCACACCCACCAAGGTGGCCACCACCAGTGTATCACCATCGTC
 AAATCTGCCGAGCTCTCTCCACCTCTGTACCCTTCTCAGCCGCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201177 protein sequence
 Red=Cloning site Green=Tags(s)

MTTNPKNKALKVKKEAGENAPVLSDELVSMSVRELNQHLRGLTKEEVTRLKQRRRTLKNRGYAASCR
 KRVTQKEELERQVELQQEVEKLARENSSMRLELDALRSKYEALQTFARTVARGPVPTKVVATTSVITIV
 KSAELSSTSVPFSAAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_010757

ORF Size: 471 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_010757.2](#), [NP_034887.1](#)

RefSeq Size: 2825 bp

RefSeq ORF: 471 bp

Locus ID: 17135

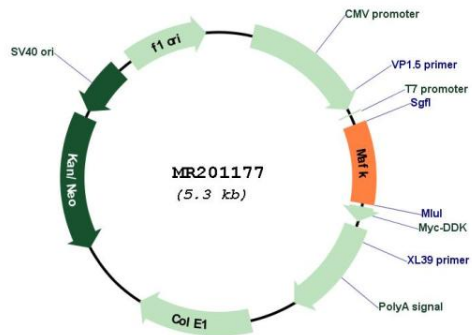
UniProt ID: [Q61827](#)

Cytogenetics: 5 78.81 cM

MW: 17.5 kDa

Gene Summary: Since they lack a putative transactivation domain, the small Mafs behave as transcriptional repressors when they dimerize among themselves. However, they seem to serve as transcriptional activators by dimerizing with other (usually larger) basic-zipper proteins, such as NFE2, NFE2L1/NRF1, NFE2L2/NRF2 and NFE2L3/NRF3, and recruiting them to specific DNA-binding sites. Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NF-E2 transcription factor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201177