

Product datasheet for **MR200478**

Mif (NM_010798) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mif (NM_010798) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mif
Synonyms: GIF; Glif
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200478 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTATGTTTCATCGTGAACACCAATGTTCCCGCGCCTCCGTGCCAGAGGGGTTTCTGTGGAGCTCA
CCCAGCAGCTGGCGCAGGCCACCGCAAGCCCGCACAGTACATCGCAGTGCACGTGGTCCCGACCAGCT
CATGACTTTTAGCGGCACGAACGATCCCTGCGCCCTCTGCAGCCTGCACAGCATCGGCAAGATCGGTGGT
GCCCAGAACCGCAACTACAGTAAGCTGCTGTGTGGCTGCTGTCCGATCGCCTGCACATCAGCCCGACC
GGGTCTACATCAACTATTACGACATGAACGCTGCCAACGTGGCTGGAACGGTCCACCTTCGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200478 protein sequence
Red=Cloning site Green=Tags(s)
MPMFIVNTNVPRAVPEGFVSEL TQQLAQATGKPAQYIAVHVVPDQLMTFSGTNDPCALCSLHSIGKIGG
AQRNYSKLLCGLLSDRLHISPDRVYINYYDMNAANVWNGSTFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_010798

ORF Size: 348 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_010798.3](#)

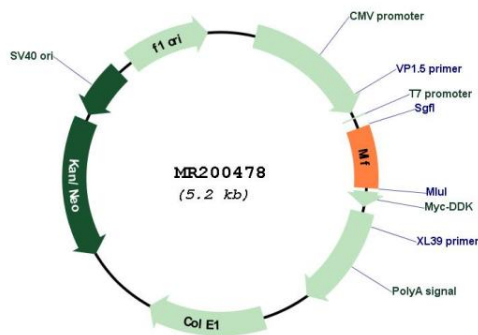
RefSeq Size: 554 bp

RefSeq ORF: 348 bp

Locus ID: 17319
UniProt ID: [P34884](#)
Cytogenetics: 10 C1
MW: 12.5 kDa

Gene Summary: Pro-inflammatory cytokine. Involved in the innate immune response to bacterial pathogens. The expression of MIF at sites of inflammation suggests a role as mediator in regulating the function of macrophages in host defense. Counteracts the anti-inflammatory activity of glucocorticoids. Has phenylpyruvate tautomerase and dopachrome tautomerase activity (in vitro), but the physiological substrate is not known. It is not clear whether the tautomerase activity has any physiological relevance, and whether it is important for cytokine activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200478