

Product datasheet for **SC118641**

MIF (NM_002415) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIF (NM_002415) Human Untagged Clone
Tag:	Tag Free
Symbol:	MIF
Synonyms:	GIF; GLIF; MMIF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118641 sequence for NM_002415 edited (data generated by NextGen Sequencing) ATGCCGATGTTTCATCGTAAACCAACGTGCCCGCGCCTCCGTGCCGGACGGGTTCTCTC TCCGAGCTCACCCAGCAGCTGGCGCAGGCCACCGCAAGCCCCCAGTACATCGCGGTG CACGTGGTCCCGGACCAGCTCATGGCCTTCGGCGGCTCCAGCGAGCCGTGCGCGCTCTGC AGCCTGCACAGCATCGGCAAGATCGGCGGCGCGCAGAACCCTCTACAGCAAGCTGCTG TGCGGCTGCTGGCCGAGCGCCTGCGCATCAGCCGGACAGGGTCTACATCAACTATTAC GACATGAACGCGCCAATGTGGGCTGGAACAACCTCCACCTTCGCCTAA

Clone variation with respect to NM_002415.1



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002415 unedited</p> <pre>GTCAGATTTTGTAAACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGCGGCGC GTGCGTCTGTGCCTCTGCGCGGGTCTCCTGGTCTTCTGCCATCATGCCGATGTTTCATCG TAAACACCAACGTGCCCCGCGCTCCGTGCCGGACGGGTTCTCTCCGAGCTCACCCAGC AGCTGGCGCAGGCCACCGGAAGCCCCCAGTACATCGCGGTGCACGTGGTCCCGGACC AGCTCATGGCCTTCGGCGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCG GCAAGATCGGCGGCGCGCAGAACCCTCTACAGCAAGTGTGTGCGGCTGTGCGGCTGTGCGC AGCGCCTGCGCATCAGCCCGGACAGGGTCTACATCAACTATTACGACATGAACGCGGCCA ATGTGGGCTGGAACAACCTCCACCTTCGCCTAAGAGCCGCGAGGGACCCACGCTGTCTGCGC TGGCTCCACCCGGGAACCCGCGCACGCTGTGTTCTAGGCCCGCCACCCCAACCTTCTG GTGGGGAGAAATAAACGGTTTAGAGACTAAAAAAAAAAAAAAAAAACTCGACTCTAGATT GCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCC CCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCCTTGCCTAA TAAATTAAGCTGCATCATTTTGCCTGACCAGGTGCCCTTATAATATTATGGGTGGCA GGGGTGTCTATGGACCAAGGGCAAGTTGGGAAGAACACCTGTAGGCCCGCCGGGTCTA TTGGGACCAACCGGGAGGCCAGGGACCAATCTGGCTCACTGGAATCCCGCTCCTGAGT CAAGCGAATCTCCTGCCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002415 unedited</p> <pre>ACTTCCAGGGCCAGGAAGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTCAGA AACAGCTATGACCGCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTAGTCTCT AAACCGTTTATTTCTCCCACCAGAAGGTTGGGGTGGGCGGGCCTAGAACACAGCGTGCG GCGGGTCCCAGGTGGAGCCAGCGCAGACAGCGTGGGTCCCTGCGGCTCTTAGGGGAAGG TGGAGTTGTTCCAGCCCACATTGGCCGCTTCATGTCTAATAGTTGATGTAGACCCTGT CCGGGCTGATGCGCAGGCGCTCGGCCAGCAGGCCGACAGCAGCTTGCTGTAAGAGCGGT TCTGCGCGCCCGCATCTTGCCGATGCTGTGCAGGCTGCAGAGCGCGCACGGCTCGNNNG AGCCCGCAAGGCCATGAGCTGGTCCGGGACCAGTGCACCGCATGTAAGGGGGGCT TGCCGGTGGCCTGCGCCAGCTGCTGNGTGAGCTCGGAAGGAACCCGTCCGGCACGGAGGC GCGGGGCACGTTGGTGTTTACGATGAACATCGGCATGATGGCAGAAGGACCAGGAGACCC GCGCAGAGGCACAGACGACGCGCCGNCCTCGTGCCGAATTCGGGCGCCCTATAGTGA GTCGTATTCAAAAATTCTGACGGTTCACATAACGAGCTCTGCTTTATAGNACCTCCACCGT ACACGCCTACCGCCATNNNNCCAACGGGCCGGGTTATTACGACATTNTGAAAAGTNCCG TTGATTTTTGTGCCAAACAACTCTCATTGACGTCATGGGGTGGGAGACTTGNAATTC CCGGAGTTCAACCGCTATTCCGCCATTGGTGTCTGCCAAAACGNACACCATGGNATA GCGATGACTAATCGTANNAGTACTGCCAGTAGNAAAGTCCCGAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002415
Insert Size:	560 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:

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_002415.1](#), [NP_002406.1](#)

RefSeq Size: 561 bp

RefSeq ORF: 348 bp

Locus ID: 4282

UniProt ID: [P14174](#)

Cytogenetics: 22q11.23

Domains: MIF

Protein Families: Druggable Genome

Protein Pathways: Phenylalanine metabolism, Tyrosine metabolism

Gene Summary: This gene encodes a lymphokine involved in cell-mediated immunity, immunoregulation, and inflammation. It plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids. This lymphokine and the JAB1 protein form a complex in the cytosol near the peripheral plasma membrane, which may indicate an additional role in integrin signaling pathways. [provided by RefSeq, Jul 2008]