

## Product datasheet for **MC228834**

### **Mtif2 (NM\_001282119) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtif2 (NM_001282119) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtif2
Synonyms:	2310038D14Rik; 2410112O06Rik; IF-2(Mt); IF-2mt; IF2(mt)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228834 representing NM\_001282119  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCCACAATTCTCCTGGGTCCGGAGGGCGACCTCGCCTGGGAGTTGAGAGAAATATGAACCAGAAGC  
 TACTGAAGTTGGAAAACCTTGCTACGATTTCACTATTTGTAGGCAGGTGCACAGCCAAGTCAAAGAAG  
 ACTCTTAGCATGGTGTAGACATGGGTTTGCACCGCTTCTCAGTGTGGAGAGATCTGCTGGGTGCCCGG  
 TCCTGGCAGACAGACATGCTCATTGGTTGAGCTTTCATCAGCACAGACTTCTTGTAAACAAAGAAGGAAA  
 AAAGACCACCAAGATCTCAGTTGTCTCCAGTAAAACTAAAAAGAGGTAGAAGTATGGGTTGGAATGAC  
 TGTTGAAGATCTAGCCAGTGCCATGGCAAAGATATAGATTGTGTATACGAAGCTTTATTGAACACTGCC  
 ATTGACGTAGATTCATTAGAAGCAAACCTCACATTTAGTGAAGTCTGGATCAAAGAAGTTATAAAGAAGG  
 CAGGAATGAAGCTGAAAATGGAGCAAATTAACAGGAAAGAAATTAGAGAAAAATAAGATGCTGTGAGAAG  
 GCCTGGGACAGATCCAGCTTTATTAACCAAGGTCCCCAGTTGTTACTGTAATGGGCCATGTTGATCAT  
 GGGAAAACGACCTTACTTGACAACTTCGAGAACTCAAGTTGCAGCGATGGAAGTCGGAGGCATCACTC  
 AACACATTGGTGCTTTTCTGTCTCTGCCTTCTGGAGAAAAGATAACTTTTCTTGATACTCCTGGACA  
 TGCTGCCTTCTCAGCAATGAGAGCCAGAGGAGCTCAGGTCACCGACATTGTTGTGTTGGTTGTAGCTGCA  
 GATGATGGGGTAAATGAAACAACTGTGGAATCCATTCAGCATGCAAAAAGATGCAGAAGTTCTATTATCC  
 TTGCAATCAATAAGTGCACAAGACAGATGCTGATCCTGAAAAGGTGAAAAAGAGCTCCTAGCTTACGA  
 TGTGGTGTGGAAGATATGGTGGTGTGTTCAAGCAGTGCACGTCTCTGCACTTACGGGCGATAACCTG  
 ATGGCTTTGGCAGAAGCAACAATTGCTCTCGCAGAAATCTTGAAGTAAAAGCAGATCCCACCGGTCCAG  
 TGGAAGGAACAGTAATAGAGTCTTTCACAGACAAAGGAAGAGGTCCTGTTACAACAGCTATAATTCAAAG  
 AGGAACTCTGAGAAAAGGCTCAATTCTAGTTGCTGGGAAGAGTTGGGCAAAAGTTCGACTAATATTTGAT  
 GAAAAATGAAAAATACTTAATGAGGCCTATCCCAGCATGCCAGTGGGAATCATAGGCTGGAGAGACCTTC  
 CTTCTGCAGGAGATGAAATTTCTGAAGTAGAATCTGAGCCAAGGGCCCGTGAAGTTATTGAATGGAGGAA  
 GTCTGAGCAAAAAGAAGAAAAGGCAAAGATGACCTGAAAATAATGGAAGAAAAGCGAAGGGGAACACCAA  
 GAAGCGCATCGGAAAGCCCGTGAGAAGTATGGCAGTCTGCACTGGAAAGAGAGATCATATATAAAGTTCC  
 TTGAAAGGAAACAACAGAGACCCCTAAAGCCAAAGAAAAGGTAGAAAGGCAATCAAATGTACTTCTAT  
 AATTATTAAGGTGACGTTGATGGGTCTGTGGAGGCCATCTTGAACCTTCTGGATACCTACGATGCTTCC  
 CACGAATGTGAAGTGAATAGTACATTTGGATTGGGTGACATCAGTAAAATGATGTTACCTTTGCTG  
 AGACATTTGATGGTGTTATTTATGGTTTTAATGTGGAGGCAGGCAGTGCTATTCAGCAGTCAGCTGCACA  
 AAAGGGAGTTAAGATTAACCTCACAAAATCATCTACCATCTTATTGAAGATTTGCAGGAGGAACTAAGC  
 AGCAGATTGCCCCACACTGGAGGAGTACCCAATAGGTGAGGCTTCTATACTAGCTACCTTCACTGTAA  
 CAGAAGGGGAAGAAAAATTCCTGTTGCTGGCTGCAGAGTTCAAAGGGACAATTAGAAAGACATAAGAA  
 GTTTAAATTAATCCGAAACGGCCAAGTTATTTGGAAGGGATCATTAACTCTCTGAAACACCATAAAGAT  
 GACATTTCAAGTTATAAAAACGGTATGGACTGTGGTCTTAGTTTAGATGAAGAAAAAGTCGAATTCAAAC  
 CGGGAGATCAAGTCATTTGTTATGAAGAAAATAAAGTTCCAACCTAAGACTTCTGGGATCCAGGATTTTA  
 A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001282119  
**Insert Size:** 2241 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001282119.1</a></u> , <u><a href="#">NP_001269048.1</a></u>
<b>RefSeq Size:</b>	2661 bp
<b>RefSeq ORF:</b>	2241 bp
<b>Locus ID:</b>	76784
<b>UniProt ID:</b>	<u><a href="#">Q91YJ5</a></u>
<b>Cytogenetics:</b>	11 A3.3
<b>Gene Summary:</b>	<p>One of the essential components for the initiation of protein synthesis. Protects formylmethionyl-tRNA from spontaneous hydrolysis and promotes its binding to the 30S ribosomal subunits. Also involved in the hydrolysis of GTP during the formation of the 70S ribosomal complex (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a longer and distinct N-terminus, compared to isoform 1.</p>