

## Product datasheet for **MC228371**

### **Mtif2 (NM\_001282120) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtif2 (NM_001282120) 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:** >MC228371 representing NM\_001282120  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCTGAAATGGAGCAAATTAACAGGAAAGAAATTAGAGAAAATAAAGATGCTGTGAGAAGGCCTG  
 GGACAGATCCAGCTTTATTAACCAAGGTCCCCAGTTGTTACTGTAATGGGCCATGTTGATCATGGGAA  
 AACGACCTTACTTGACAACTTCGAGAACTCAAGTTGCAGCGATGGAAGTCGGAGGCATCACTCAACAC  
 ATTGGTCTTTTCTGTCTCTGCCTTCTGGAGAAAAGATAACTTTTCTTGATACTCCTGGACATGCTG  
 CCTTCTCAGCAATGAGAGCCAGAGGAGCTCAGGTCACCGACATTGTTGTGTTGGTTGTAGCTGCAGATGA  
 TGGGGTAAATGAAACAACTGTGGAATCCATTGAGCATGCAAAAGATGCAGAAGTTCCTATTATCCTTGCA  
 ATCAATAAGTGCACAAGACAGATGCTGATCCTGAAAAGGTGAAAAAGAGCTCCTAGCTTACGATGTGG  
 TGTGTGAAGATATGGTGGTGTGTTCAAGCAGTGCACGCTCTGCACTTACGGGCGATAACCTGATGGC  
 TTTGGCAGAAGCAACAATTGCTCTCGCAGAAATCTTGAACTGAAAGCAGATCCCACGGTCCAGTGGA  
 GGAACAGTAATAGAGTCTTTCACAGACAAAGGAAGAGGTCTGTTACAACAGCTATAATTCAAAGAGGAA  
 CTCTGAGAAAAGGCTCAATTCTAGTTGCTGGGAAGAGTTGGGCAAAAGTTCGACTAATATTTGATGAAAA  
 TGGAAAAATACTTAATGAGGCCTATCCCAGCATGCCAGTGGGAATCATAGGCTGGAGAGACCTTCTTCT  
 GCAGGAGATGAAATCTTGAAGTAGAATCTGAGCCAAGGGCCCGTGAAGTTATTGAATGGAGGAAGTCTG  
 AGCAAAAAGAAGAAAAGGCAAAGATGACCTGAAAATAATGGAAGAAAAGCGAAGGGAACACCAAGAAGC  
 GCATCGGAAAGCCCGTGAGAAGTATGGCAGTCTGCACTGGAAAGAGAGATCATATATAAAGTTCCTTGAA  
 AGGAAACAACAGAGACCCTTAAGCCCAAAGAAAAGGTAGAAAGGCAATCAAATGTACTTCTATAATTA  
 TTAAGGTGACGTTGATGGGCTGTGGAGGCCATCTTGAACCTTCTGGATACCTACGATGCTTCCCACGA  
 ATGTGAACTCGAATTAGTACATTTTGGATTGGGTGACATCAGTAAAAATGATGTTACCTTTGCTGAGACA  
 TTTGATGGTGTATTTATGGTTTTAATGTGGAGGCAGGCAGTGCTATTACGAGTCAGCTGCACAAAAGG  
 GAGTTAAGATTAACCTTCACAAAATCATCTACCATCTTATTGAAGATTTGCAGGAGGAACTAAGCAGCAG  
 ATTGCCCCACACACTGGAGGAGTACCAATAGGTGAGGCTTCTATACTAGCTACCTTCACTGTAACAGAA  
 GGGAAAGAAAAAATTCCTGTTGCTGGCTGCAGAGTTCAAAGGGACAATTAGAAAGACATAAGAAGTTTA  
 AATTAATCCGAAACGGCCAAGTTATTTGGAAGGGATCATAACCTCTCTGAAACACCATAAAGATGACAT  
 TTCAGTTATAAAAAGTGGTATGGACTGTGGTCTTAGTTTAGATGAAGAAAAAGTCGAATTCAAACCGGGA  
 GATCAAGTCATTTGTTATGAAGAAAATAAAGTTCCAACCTAAGACTTCTGGGATCCAGGATTT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001282120
- Insert Size:** 1746 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001282120.1](#), [NP\\_001269049.1](#)

**RefSeq Size:** 3103 bp

**RefSeq ORF:** 1746 bp

**Locus ID:** 76784

**UniProt ID:** [Q91YJ5](#)

**Cytogenetics:** 11 A3.3

**Gene Summary:** 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]  
Transcript Variant: This variant (4) differs in its 5' UTR and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to isoform 1.