

Product datasheet for **MC228786**

Mtif2 (NM_001282118) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtif2 (NM_001282118) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtif2
Synonyms:	2310038D14Rik; 2410112O06Rik; IF-2(Mt); IF-2mt; IF2(mt)
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228786 representing NM_001282118
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCAGAAGCTACTGAAGTTGGAAAACCTGCTACGATTTCACTATTTGTAGGCAGGTGCACAGCC
 CAAGTCAAAGAAGACTCTTAGCATGGTGTAGACATGGGTTTGCACCGCTTCTCAGTGTGGAGAGATCT
 GCTGGGTGCCCGTCTGGCAGACAGACATGCTCATTGGTTCAGCTTTGCATCAGCACAGACTTCTTGTA
 ACAAAGAAGGAAAAAGACCACCAAGATCTCAGTTGTCTCCAGTAAAAACTAAAAAGAGGTAGAAGTAT
 GGGTTGGAATGACTGTTGAAGATCTAGCCAGTCCATGGCAAAGATATAGATTGTGTATACGAAGCTTT
 ATTGAACACTGCCATTGACGTAGATTTCATTAGAAGCAAACCTCACATTTAGATGAAGTCTGGATCAAAGAA
 GTTATAAAGAAGGCAGGAATGAAGCTGAAATGGAGCAAATTAACAGGAAAGAATTAGAGAAAAAAG
 ATGCTGTGAGAAGCCTGGGACAGATCCAGCTTTATTAACCAAGGTCCCCAGTTGTTACTGTAATGGG
 CCATGTTGATCATGGGAAACGACCTTACTTGACAACTTCGAGAACTCAAGTTCAGCGATGGAAGTC
 GGAGGCATCACTCAACACATTGGTGCTTTTCTGTCTCTCTGCCTTCTGGAGAAAAGATAACTTTTCTTG
 ATACTCTGGACATGCTGCCTTCTCAGCAATGAGAGCCAGAGGAGCTCAGGTCACCGACATTGTTGTGTT
 GGTTGTAGCTGCAGATGATGGGGTAATGAAACAACTGTGGAATCCATTCAGCATGCAAAAGATGCAGAA
 GTTCCTATTATCCTTGAATCAATAAGTGCACAAAGACAGATGCTGATCCTGAAAAGGTAAAAAGAGC
 TCCTAGCTTACGATGGTGTGTGAAGAGTATGGTGGTGTGTTCAAGCAGTGCACGTCTCTGCCTTAC
 GGGCGATAACCTGATGGCTTTGGCAGAAGCACAATTGCTCTCGCAGAAATCTTGGAACTGAAAGCAGAT
 CCCACCGTCCAGTGAAGGAACAGTAATAGAGTCTTTCACAGACAAAGGAAGAGGTCTGTTACAACAG
 CTATAATTCAAAGAGGAACTCTGAGAAAAGGCTCAATTTAGTTGCTGGGAAGAGTTGGGCAAAAGTTCCG
 ACTAATATTTGATGAAAATGAAAAATACTTAATGAGGCCATCCAGCATGCCAGTGGGAATCATAGGC
 TGGAGAGACCTTCTTCTGCAGGAGATGAAATCTTGAAGTAGAATCTGAGCCAAGGGCCCGTGAAGTTA
 TTGAATGGAGGAAGTCTGAGCAAAAAGAAGAAAAGGCAAGATGACCTGAAAATAATGGAAGAAAAGCG
 AAGGGAACACCAAGAAGCGCATCGGAAAGCCCGTGAAGATGAGCAGTCTGCACTGGAAAGAGAGATCA
 TATATAAAGTTCTTGAAGGAAACAACAGAGACCCTTAAAGCCAAAGAAAAGGTAGAAAGGCAATCAA
 ATGTACTTCTATAATTATTAAGGTGACGTTGATGGGCTGTGGAGGCCATCTGAACCTTCTGGATAC
 CTACGATGCTTCCACGAATGTGAACCTGAATTAGTACATTTGGATTGGGTGACATCAGTGAAGATGAT
 GTTACCTTTGCTGAGACATTTGATGGTGTATTTATGGTTTTAATGTGGAGGCAGGCAGTCTATTACAGC
 AGTCAGCTGCACAAAAGGGAGTTAAGATTAACCTTCACAAAATCATCTACCATCTTATTGAAGATTTGCA
 GGAGGAACCTAAGCAGCAGATTGCCCCACACACTGGAGGAGTACCAATAGGTGAGGCTTCTATACTAGCT
 ACCTTCACTGTAACAGAAGGGAAGAAAAAATCCTGTTGCTGGCTGCAGAGTTCAAAGGGACAATTAG
 AAAGACATAAGAAGTTTAAATTAATCCGAAACGGCCAAGTTATTTGGAAGGGATCATTAACTCTCTGAA
 ACACCATAAAGATGACATTTAGTTATAAAAACTGGTATGGACTGTGGTCTTAGTTTAGATGAAGAAAAA
 GTCGAATTCAAACCGGAGATCAAGTCATTTGTTATGAAGAAAAAAGTTCCAACCTAAGACTTCTGGG
 ATCCAGGATTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001282118
Insert Size: 2184 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:	<ol style="list-style-type: none">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:	<u>NM_001282118.1</u> , <u>NP_001269047.1</u>
RefSeq Size:	2739 bp
RefSeq ORF:	2184 bp
Locus ID:	76784
UniProt ID:	<u>Q91YJ5</u>
Cytogenetics:	11 A3.3
Gene Summary:	<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 (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (1).</p>