

## Product datasheet for **MC226735**

### **Mtif3 (NM\_001256102) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mtif3 (NM\_001256102) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mtif3  
**Synonyms:** 2810012L14Rik; AI414549  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226735 representing NM\_001256102  
**Red=Cloning site Blue=ORF Orange=Stop codon**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGTTCTTCTGATGAGGTTGATGCTACAACTACAAAGCTTGACCATAACTTAATTGGAAGATGTT  
TGCAAAGACACGCTGTGAAGCCAGATCCAGCACAGCTGTCCCTGTCTGCGTCCACCCAAAGCTGTTGTA  
CCTGACTTCTGCAAAGGTTTTAGTACTGCTGGAGACCCACAGGGTGAGAGGAAACAGAAAAGAAGGGAT  
GCTTTCTCTAACACCGCCGGAAGATTAGTGAGCGGATTATCCGCGTCTGGATGAGAAGGCATGGACC  
TGGGGATGATGCATCGAGCAGATGTGATCAGACTCATGAACAAGCAGGACCTGAGGCTGGTGAGAGGAA  
CACCAGCTCAGAGCCACCGGAGTACCAGCTTATGACCGGAGAGCAGATCCACCAGGAGCGGCTAAAGCTC  
CGGGAACAGGAAAAGGCCAAACCCAAAAGCTGGACCAACTATGACGAAAGAGCTCGTTTTCTTTCAAATA  
TTGGACAGCAGATTTAGACACCAAGAGTAAACAGATCCAGCAGTGGATAGAGAAGAAATACCACGTTCA  
AGTCACGATAAAGAGGAGGAAAGATGCGGAGCAGTCAGAGGAGGAAACGGAGGAGATATTTAACCAGATT  
CTCCAGACTATGCCTGACATAGCAACCTTCTCAAGCAGACCAAAGCCATCAGAGGAGGGACTGCTTCCA  
TGTGTGTTTTTCGTCACCTTGAGCAAGAAAGAAAGGCGTACAGAGAATCCCAGGAGAGCCAGAGAAG  
AGACACTTTGAGCAAAGACGACGACGGAACAGCAAAGAGTCGGATGTTGTGTGTCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001256102  
**Insert Size:** 831 bp



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<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>RefSeq:</b>	<u><a href="#">NM_001256102.1</a></u> , <u><a href="#">NP_001243031.1</a></u>
<b>RefSeq Size:</b>	4968 bp
<b>RefSeq ORF:</b>	831 bp
<b>Locus ID:</b>	76366
<b>UniProt ID:</b>	<u><a href="#">Q9CZD5</a></u>
<b>Cytogenetics:</b>	5 G3
<b>Gene Summary:</b>	IF-3 binds to the 28S ribosomal subunit and shifts the equilibrium between 55S ribosomes and their 39S and 28S subunits in favor of the free subunits, thus enhancing the availability of 28S subunits on which protein synthesis initiation begins.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. All five variants encode the same protein.