

## Product datasheet for MR206037

### Mtfmt (NM\_027134) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtfmt (NM_027134) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtfmt
Synonyms:	2310020P08Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206037 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCCTCCGCGGTGCTGCTGGGGTTCGGTGGCTGATGGGAAGGAGGCCACGCTGTTCTGTCAAGCAC  
CTGCCGGGTTTCGACGGGAAGGACGGCCGAGGCTCCCGAGTCCGCGAGAAGCCGCTTGCCGGGTGCTGTT  
CCTCGGCACCGACCACTTTGCCCGGAAACGCTGCGGGCGCTGCACGCCCCAGAGACGGCAAAGAGGAA  
AAGTTAATTGAGAACTGGAGGTTGTACAGTGCCTTCGCTATCCCCAAAGGACTACCTGTGAAGCAAT  
ATGCTATTCAGTCTCAGCTCCCGGTGTACGAGTGGCCCGACGTGGGATCTGGAGAATATGATGTTGGGGT  
AGTGGCTTCCTTTGGCCGGCTTTTGAAGTGGGCTCTTATCTTAAATTTCCCTACGCATACTGAATGTG  
CACCCAGTTGCCTCCCAAGGTGGCGTGGTCCCGCTCCGATAATCCACACGGTGTTCATGGAGACTG  
TCACTGGCGTAACGATTATGCAAAATAGACCCAAAAGATTTGATATAGGCCCAATTCACAGCAGGAAAC  
CATCCCTGTGCCTCCCAAGAGCACATCAAAGGAATTGGAAGCAGTGTGTCAAACCTTGGTGCCAAACATG  
CTTATCTCAGTTTTGAAAAATCTGCCGAAAGTCTGAACAATGGAAGGCCGAGCCAGCCGAGGGAGTGA  
CATATGCCCCCAAGGTCTCTGCTGGCACCAGCTGTGTCAAGTGGGAGGAGCAAACCTCAGAGCAAGTACT  
CAGACTTCACCTTGCCATTGGGGATATAGTCCCACTGCAGACGCTCTGGATGGAGAACACCGTTAAACTT  
CTGGATCTCGTAGAAGTTAACTCACTCCTTGCAGATCCGAAATTAACAGGACAACTGTAACCTCCGG  
GATCCGTGGTGTACCACAGACCATCGAAATGCTGCTGGTTCGCTGTAAGGATGGCTGGATCGGTGTTTCG  
GTCAGTAAATGCTTAAGAAAACACTAACAGCTACTGATTTCTACAATGGATATTTGCATGCGTGGTACCAG  
AAAAATCCACGCTCACCAAGCCAGTGCAGATTTAGACTCTCAGACTTCCAACAAAGATGCAGCAGA  
AAACAAAGTTGTTGCTATGCAACAGTGCATTAAGTAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206037 protein sequence  
 Red=Cloning site Green=Tags(s)

MLLPRCCWGRWLMGRRPRCSCQAPAGFDGKDGRGSRVREKPPWRVFLGTDHFARETLRALHAARDGKEE  
 KLIEKLEVVTVPSLSPKGLPVKQYAIQSQLPVYEWPDVGSGEYDVGVVASFGRLLEALILKFPYGILNV  
 HPSCLPWRGPAPIIHTVLHGDTVGTIMQIRPKRFDIGPILQQETIPVPPKSTSKELEAVLSKLGANM  
 LISVLKNLPESLNNRGPQPAEGVTYAPKVSAGTSCVKWEEQTSQVLRHLAIGDIVPLQTLWMENTVKL  
 LDLVEVNNILADPKLTGQTVTPGSVVYHRPSQMLLVRCCKDGWIGVRSVMLKKTLTATDFYNGYLHAWYQ  
 KNSHAHPSQCRFQTLRLPTKMQQKTKLLLCNSALSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_027134

**ORF Size:** 1161 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_027134.1](#), [NM\\_027134.2](#), [NM\\_027134.3](#), [NP\\_081410.1](#)

**RefSeq Size:** 2042 bp

**RefSeq ORF:** 1161 bp

**Locus ID:** 69606

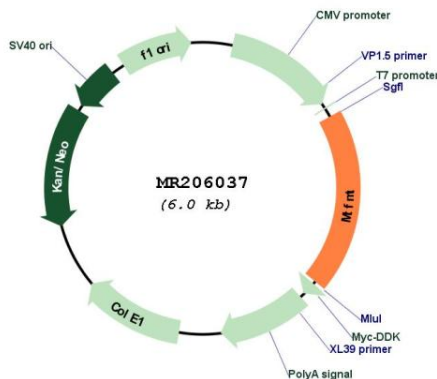
**UniProt ID:** [Q9D799](#)

**Cytogenetics:** 9 C

**MW:** 43 kDa

**Gene Summary:** Formylates methionyl-tRNA in mitochondria. A single tRNA(Met) gene gives rise to both an initiator and an elongator species via an unknown mechanism (By similarity).  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206037