

## Product datasheet for **MC205967**

### **Mtfr1 (NM\_026182) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtfr1 (NM_026182) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtfr1
Synonyms:	1300002C08Rik; 1700080D04Rik; 2810026O10Rik; 4930579E05Rik; Chppr; Fam54a2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

```
>BC042471
ATGGACCATGTGCTGCTATGGATGCCTGAAGTTGTTGACCTGCAGGTTGGGAAGACTCAGCCATCTCCAT
GCTGGGCTGGATTAAGTGCCTGATGAGGATGTGGTTTCAGCGAGTTGGGGTCAGCATGCAGTCGGTACTA
TGGTCTGGAAAACCATATGGTTCATCTCGAAGTATCGTAAGGAAAATTGGTACCAACTTATCTCTGATTC
AGTGTCCAAGAGTTCAATTTTCAGCTTACCAGCCATGCAACAGAATGGAGTCCCACACACTCAGGAGAGGA
TGTGGTGGCATCTTTTGTGATGTTGGATTGGTAGCCACTGAAGAAGGAGAGTGTCAATAAGACTCAGG
GCAGAAGTCAGTCCCAAGCCTCCTCATGAGGATGACCCCTCTTGTCTTGGAGAAGCCCCCAAGCAGGCACA
CTTCCTTCCCAAGCCTGTCTCAAGACAAGCCTTCTCCAGAGAGGACGCTGGCCAGCGAGGAGGCCCTGCA
GAAGATCTCTGCCCTTGAGAATGAGCTTGTGCTGCCCTTAGAGCTCAGATTGCCAAGATTGTGACCCTGCAG
GAGCAACAGAGTCCAAGTGCAGGTTGCTTAGATTCTTCCACATCTGTTACTGTAGCACCACCACCACCAC
CACCTCTCTCCCTCCCTCCCTTCCGTTGGTGCTCCACCAAAGTACGTCTGCTCTTGATCTGATTAAGA
AAGAAGAGAGCAGAGACTCAGTGTGAAAAGACTTTGGTACGGGCCACCCAAAGAAGCCTGACATGCCA
AATATGCTTGAGATCCTTAAAGACATGAACAGTGTGAAGTACGGTCAGTCAAGAGGTGAGAAAAGATG
TAAAACCCAGGCCAGCGGATACTGACCATGCTGCCTTCATAGCAGAGGCTCTGAAAAAGAAGTTTGATA
TCGACACAATAGCCAAGGAGAACTGAAAGAGGAATTCAAAGCCAGAGTCAGAGGCCACCTCAGAGCCA
GCCTGTTTGGCCACATATATTGAAGTCTACAGGGAAAATGAAGGCTTTAATTGAAAATGTTCCCGACT
CCTAATGGACAATGAATTCAGAAAGACTCCTGGTTCACCAGTTGGCTTGACAGAGCTGAGTTTGTCTAGGA
GAAATCACCAGTATTTAGTAAATTCCTTGTGTAGTGTTCATTGGTCCCCTTCTTCTGAGCCCACTAG
AGGGGTAAAGAAGCAGTAAAAGCAGCAGGAGGTCTGCTTCTGAGAGGTGAGCTCTGGGGCTCTGCCTAGCA
CACATGTACTGTGTGCATGTTCTGTTCTTAACTAAAGTCTGTGCACACACTTCACCATGAATGGCATC
AGAGAGGACACTTATCTTCTTCACTGAGAGTTCAGTGTGAGAGCTGGTATACTGTTAA
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AGCTGAGTTTACATAAACAGCAGAAGATGTTTACTGCTGAGTCTCTGTGTTGCTTTCTTGTAGAGGGAAG
TGAGGACCAGGAAGGCCATTTGCACCTCATTACCACCCACTACTGGGAAGCAAATGAACTTCTCAAGTAG
TAACAAATCAAATATTGAATTAATCATTCTTAAATAAAAGCCAGAATGTATCATCTTCTCATCAGT
TTAATAAGTGGCCCTATAAAGATGGATGATTTGTTGCTAAGTTAAGAATTGTCTTAGTTAAGTTACCAT
CACTGTGATGAAACACCATGGCCAAAAGCACCTTGGGGGAGGAAATGGTTTATCTCACTCACAGTGCCTT
ATAGCAGTTTTTATCACAAGCAGTGGGGCAGGGACTAAGCAGGGCAGGGCCCTGAGCCAGGAGCTGAT
GCAGAGGCCATGGAGGCTGCTGCTTACTGGCTTCTTCTATGGCCTGCTCAGCCTGCTTTCTTATAGAA
CCCAGGACCACCAACCCAGGTTGGCACTACCTTCCCATCAATCACTAATTAAGAGAAGGCCTTGCAGC
CAGATCTTATGGAGGCATTTTCTCAATTGAGGTTCACTTCTTTTATAGTACTCTAGCTGTGTAAGCTG
ACAAACTAGCCACCACAATACTTCTAGAAATGTCAGCGTAATTGAATTTAATTTAATAATACTGGTCA
AAATATCCTTTATAATGAAACATTAAGTGAATAGATGAATAAGTTCCCTTTAAGCTATTTATTATTGGTCA
GCCAATGAATTACATTATGCAGATAAACCTTCCGGTGTATTAGAAAAGTAGAAAACACTCTTGTATCTA
GGGCTTGGGAAGGACTTATCTAAAGTACTTAGTAGTTTACCATGATTTTTGTGTTTCTGATAAGACTCTTT
AATGTCAGAACTCTTACCATGAGTAAATTTGGATTATTTAAATCTAGACTATTGGTTCTTCCAGAG
TTTAGAGATGGGAAGTGTAGATAATATTGAAGTATTGAAGATAGGTGTTCTAAATCATACAAAGACTG
GGCTATTTTTTATAGCATATTTAGTTTAAATTTGGTATGTTTTTGTGATATTTGTTTCTAAATATTT
TTATGGTTTGAAGACTGCTTTTATGAAATTCAGAAAATTTGTGTGACCACATATTTGACCTAAGAGT
TTATATTTATATCAGTATTGAATTTGGTAGCAGTCTACTATATAAAAGTTAATATTTTAAATAAAGTA
AGCTATTGAATTTCTTTTGTGACAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_026182  
**Insert Size:** 987 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC042471](#), [AAH42471](#)

**RefSeq Size:** 2856 bp

**RefSeq ORF:** 987 bp

**Locus ID:** 67472

**UniProt ID:** [Q99MB2](#)

**Cytogenetics:** 3 A2

**Gene Summary:** May play a role in mitochondrial aerobic respiration. May also regulate mitochondrial organization and fission.[UniProtKB/Swiss-Prot Function]