

## Product datasheet for **MG204817**

### Mtfr1 (BC042471) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtfr1 (BC042471) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtfr1
Synonyms:	1300002C08Rik; 1700080D04Rik; 2810026O10Rik; 4930579E05Rik; Chppr; Fam54a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204817 representing BC042471 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGGCTGGATTAAGTGCCTGATGAGGATGTGGTTTCAGCGAGTTGGGGTCAGCATGCAGTCGGTAC  
TATGGTCTGAAAACCATATGGTTCATCTCGAAGTATCGTAAGGAAAATTGGTACCAACTTATCTCTGAT  
TCAGTGTCCAAGAGTTCAATTTTCAGCTTACCAGCCATGCAACAGAATGGAGTCCCACACACTCAGGAGAG  
GATGTGGTGGCATCTTTTGCTGATGTTGGATTGGTAGCCACTGAAGAAGGAGAGTGCTCAATAAGACTCA  
GGGCAGAAGTCAGTTCCAAGCCTCCTCATGAGGATGACCCTCCTTGCTTTGAGAAGCCCCAAGCAGGCA  
CACTTCCTTCCCAAGCCTGTCTCAAGACAAGCCTTCTCCAGAGAGGACGCTGGCCAGCGAGGAGGCCCTG  
CAGAAGATCTCTGCCCTTGAGAATGAGCTTGCTGCCCTTAGAGCTCAGATTGCCAAGATTGTGACCTGCG  
AGGAGCAACAGAGTCCAAGTGCAGGTTGCTTAGATTCTTCCACATCTGTTACTGTAGCACCACCACCACC  
ACCACCTCCTCCTCCCCCTCCCCCTCCGTTGGTGTCCACCAAAGTACGTCTGCTCTTGATCTGATTA  
GAAAGAAGAGAGCAGAGACTCAGTGTGGAAAGACTTTGGCTACGGGCCACCCAAAGAAGCCTGACATGC  
CAAATATGCTTGAGATCCTTAAAGACATGAACAGTGTGAAGCTACGGTCAGTCAAGAGGTCAGAGAAAGA  
TGTA  
AAAACCCAGGCCAGCGGATACTGACCATGCTGCCTTCATAGCAGAGGCTCTGAAAAAGAAGTTTGCA  
TATCGACACAATAGCCAAGGAGAACTGAAAGAGGAATTCAAAGCCAGAGTCAGAGGCCACCTCAGAGC  
CAGCCCTGTTTGGCCACATATATTGAAGTCTACAGGGAAAATGAAGCCTTAATTGAAAATGTTCCCGA  
CTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204817 representing BC042471  
 Red=Cloning site Green=Tags(s)

MLGWIKCLMRMWFQRVGVSMQSVLWSGKPYGSSRSIVRKIGTNLSLIQCPRVQFQLTSHATEWSPHSGE  
 DVVASFADVGLVATEEGECSIRLRAEVSSKPPHEDDPPCFEKPSPRHTSFPSLSQDKPSPERTLASEEAL  
 QKISALENELAALRAQIAKIVTLQEQQSPSAGCLDSSSTVTVAPPPPPPPPPPLPLVLHQSTSA LDLIK  
 ERREQLSAGKTLATGHPKPKDMPNMLEILKDMNSVKLRSVKRSEKDVKPRPADTDHAAFIAEALKKKFA  
 YRHNSQGETERGIPKPESEATSEPALFGPHILKSTGKMKALIENVPDS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC042471

**ORF Size:** 986 bp

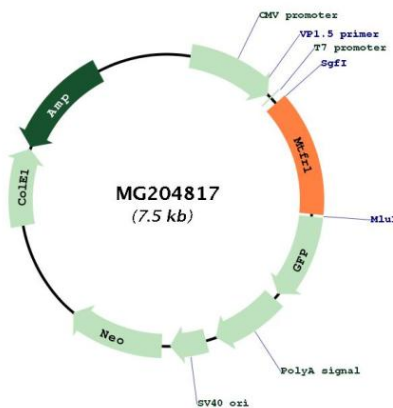
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

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

<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>BC042471, AAH42471</u>
<b>RefSeq Size:</b>	2856 bp
<b>RefSeq ORF:</b>	986 bp
<b>Locus ID:</b>	67472
<b>Cytogenetics:</b>	3 A2
<b>Gene Summary:</b>	May play a role in mitochondrial aerobic respiration. May also regulate mitochondrial organization and fission.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG204817