

## Product datasheet for MR229265

### Mtfr1 (NM\_001253390) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtfr1 (NM_001253390) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtfr1
Synonyms:	1300002C08Rik; 1700080D04Rik; 2810026O10Rik; 4930579E05Rik; Chppr; Fam54a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229265 representing NM_001253390 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229265 representing NM\_001253390  
Red=Cloning site Green=Tags(s)

MLGWIKCLMRWFQRVGVSMQSVLWSGKPYGSSRSIVRKIGTNLSLIQCPRVQFQLTSHATEWSPHSGE  
 DVVASFADVGLVATEEGECSIRLRAEVSSKPPHEDDPPCFEKPPSRHTSFPSLSQDKPSPERTLASEEAL  
 QKISALENELAALRAQIAKIVTLQEQQSPSAGCLDSSTSVTVAPPPPPPPPPPLPLVLHQSTSAALDIK  
 ERREQRLSAGKTLATGHPKPKDMPNMLEILKDMNSVKLRSVKRSEKDVKPRPADTDHAAFIAEALKKKFA  
 YRHNSQGETERGIPKPESEATSEPALFGPHILKSTGKMKALIENVPDS

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\_001253390

**ORF Size:** 984 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\\_001253390.1](#), [NP\\_001240319.1](#)

**RefSeq Size:** 2842 bp

**RefSeq ORF:** 987 bp

**Locus ID:** 67472

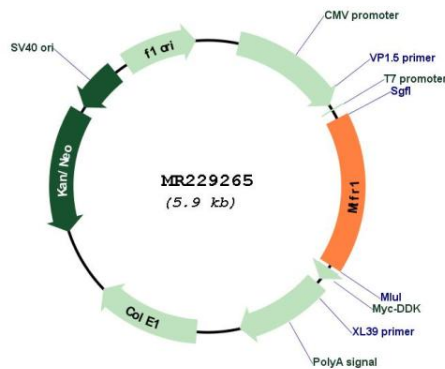
**UniProt ID:** [Q99MB2](#)

**Cytogenetics:** 3 A2

**MW:** 36 kDa

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

### Product images:



Circular map for MR229265