

Product datasheet for **RR214561**

Mtfr1 (NM_001100977) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtfr1 (NM_001100977) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtfr1
Synonyms:	RGD1304936
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214561 representing NM_001100977 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCTGGGCTGGATTAAGTGCCTGATGAGGATGTGGTTTCAGCGAGTTGGGGTCAGCATGCAGTCGGTTC
 TGTGGTCTGAAAACCATATGGTTCATCTCGAAGTATTGTAAGGAAAATTGGTACCACTTATCTCTGAT
 TCAGTGTCCAAGAGTTCAATTTTCAGCTTACCAGCCATGCAACAGAATGGAGTCCACGCACCCAGGAGAG
 GATGTGGTGGCAACTTTTGCTGATGTTGGATGGGTAGCCACCGATGAAGGAGAATGCTCAACAAGACTCA
 GGACAGAAGTCAGGTCCAAGCCTCCTCTTGAGAACAAACCCTCCTTGCTTTGAGAAGCCCCAAGCAGGCA
 CATTTCTTACCAAACCTCGTCTCAAGACAAGCCTTCTCCAAGACGACACTAGCCAGCGAGGAGGCCTTG
 CAGAAGATCTCTGCACTTGAGAATGAGCTTGCTGCCCTTAGAGCTCAGATTGCCAAGATTGTGACCTGC
 AGGAGCAACAGAGTCCAAGTGCAGGTGCTTAGATTCTTCCACACCTGTTATTGTAGTACCACCACCACC
 GCCGCCGCCGCCGCCGCCCTCCTCCTCCCTCCCTCCCCACCATTGGTGCTCCACCAAGTACATCT
 GCTCTTGATCTGATTAAGAACGAAGAGAGCAAGACTCAGTGCTGAAAGACTCTGGCTAAGGGCCACC
 CAAAGAAGCTTGACATGCCAAATATGCTAGAGATCCTTAAAGACATGAACAGTGTGAAGCTACGGCCAGT
 CAAGAGGTCAGAGAAAGATGAAAAACCTAGGCCAGTGGATATTACTGATCCTGCTGCCCTCATAGCAGAG
 GCTCTGAAAAAGAAGTTTGCATATCGGCATCGACACAATAGCCAAGGAGAAGCTGAAAGAGGAATTCCAA
 AGCCAGAGTCAGACGCAACCTCAGAGCCAGCCCTGTTTGGCCACATACATTGAAGTCTACAGGGAAAAAT
 GAAGGCTTTAATTGAAAATGTTTCAGACTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR214561 representing NM_001100977
 Red=Cloning site Green=Tags(s)

MLGWIKCLMRWFQRVGVSMSVLSGKPYGSSRSIVRKIGTNLSLIQCPRVQFQLTSHATEWSPHPGE
 DVVATFADVGVATDEGECSTRLRTEVRSKPPLNNPPCFEKPSPSRHISLPNSSQDKPSPKTTLASEEAL
 QKISALENELAALRAQIAKIVTLQEQQSPSAGCLDSSTPVIVPPPPPPPPPPPPPLPPPPLVLHPSTS
 ALDLIKERREQRLSAGKTLAKGHPKKLDMPNMLEILKDMNSVKLRPVKRSEKDEKPRPVDITDPAALIAE
 ALKKKFAYRRHNSQGEAERGIPKESDATSEPALFGPHTLKSTGKMKALIENVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001100977

ORF Size: 1011 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_001100977.1](#), [NP_001094447.1](#)

RefSeq Size: 1072 bp

RefSeq ORF: 1014 bp

Locus ID: 311403

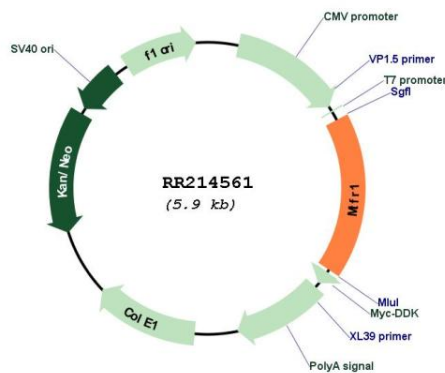
UniProt ID: [G3V9A7](#)

Cytogenetics: 2q24

MW: 37 kDa

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

Product images:



Circular map for RR214561