

Product datasheet for **RR206375**

Mtfmt (NM_001009697) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mtfmt (NM_001009697) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mtfmt
Synonyms: RGD1309462
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206375 representing NM_001009697
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTCTCCGCGCGTGTGCTGGGGTCCGTGGCTGGCGGAAGGAGGCCACGCTGTTCTGTCACTCAC
CTGCTGGGTTCAAGCGGAAGGACCGCCGAAGCTCCCGGGTCCGCGAGAAGCCACCTTGGCGGGTGTCTGT
CTTCGGCACCGACCACTTGCCTGGGAAGCCCTGCGGGCGCTGCACGCTGCCAGAGACAACAAGAGGAA
AAGTTAATTGAGAACTGGAGGTTGTACGGTGCCTTCGATATCCCTAAAGGACTACCTGTGAAGCAAT
ATGCTATACAGTCTCAGCTCCCGGTATATGAGTGGCCCGACATGGGATCCGGAGAATATGACGTTGGGGT
AGTGGCTTCTTTGGCCGACTTTTGAAGTGGCTCTTATTCTTAAATTTCCCTACGGAATACTGAATGTG
CACCCAGTTGCCTCCCGAGGTGGCGTGGTCCCGCTCCGATCATCCATACGGTGCCTCATGGAGACACAG
TCACTGGCGTAACGATTATGCAAGTTAGACCCAAAAGATTCGATGTAGGCCCGATTCTCAAGCAGGAAAC
CGTCGCTGTTCTCCCAAGAGCACGTCAAAGGAATTGGAAGCAGTGTGTCAAACCTGGTGCCAACATG
CTTATCTCGGTTTTGAAAAATTTGCCAGAAAGTCTGAACAATGGAAGGCCACAGCCAGCCGAGGGAGTGA
CGTATGCTCCCAAGGTTTCTGCTGGCACCACTGTGTCAAGTGGGAGGAGCAAACCTCAGAGCAAGTACT
CAGACTTCACCTTGCCATCGGGGACATAGTTCCACTGCAAACTCTGGATGGAGAACACCGTTAAACTT
CTGGATCTCGTAGAAGTTAACTCTATCCTTGCAGATCCGAAAGTGTGGGACAACTGTGACTCCGG
GGTCTGTGGTGTACCACAGACCGTCCGAAATGCTGCTAGTTCACTGCAAGGATGGCTGGATCGGGGTTCCG
ATCAATAATGCACAAGAAAACACTAACAGCTACTGATTCTACAATGGATATTTGCATGCGTGGTACCAG
AAGAATCCCATGCTTACCCAAGCCAGTGAAGTTTCAGACTCTCAGACTTCCAACAAAGACGCAGCAGA
AAACAAAGTTGTTGCTGTGCAGTGCATTAAGTAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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MLLPRRCWGPWLAGRRPRCSCQSPAGFSGKDRSSRVREKPPWRVLFPGTDHFAREALRALHAARDNKEE
 KLIEKLEVVTVPSISPKGLPVKQYAIQSQLPVYEWPMGSGEYDVGVVASFGRLLSEALILKFPYGILNV
 HPSCLPWRGPAPIIHTVLHGDTVGTIMQVRPKRFDVGPILKQETVAVPPKSTSKELEAVLSKLGANM
 LISVLKNLPESLNNGRPQPAEGVTYAPKVSAGTSCVKWEEQTSQVLRHLHLAIGDIVPLQTLWMENTVKL
 LDLVEVNNSILADPKVMGQTVTPGVSVVYHRPSQMLLVHCKDGIWVRSIMHKKTLTATDFYNGYLHAWYQ
 KNSHAYPSQCKFQTLRLPTKTQQKTKLLLSALSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

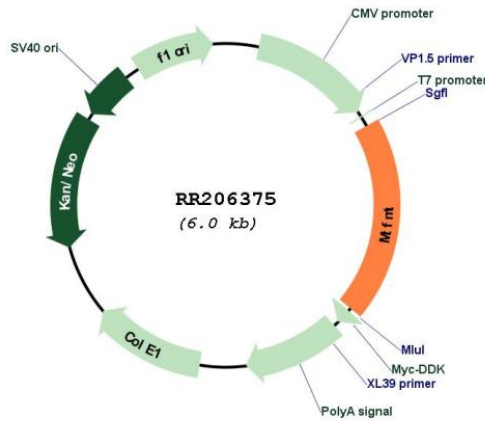
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009697

ORF Size:	1155 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:	<ol style="list-style-type: none">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_001009697.1 , NP_001009697.1
RefSeq Size:	1415 bp
RefSeq ORF:	1158 bp
Locus ID:	315763
UniProt ID:	Q5I0C5
Cytogenetics:	8q24
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]