

## Product datasheet for **RG207666**

### MTFMT (NM\_139242) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTFMT (NM_139242) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTFMT
Synonyms:	COXPD15; FMT1; MC1DN27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207666 representing NM_139242 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTCCCCATCACCAAAGGACTGCCAGTGAAGCAATATGCTGTGCAGTCTCAGCTCCCGTATATG  
AGTGGCCGGATGTGGGATCTGGAGAATATGATGTTGGAGTAGTGGCTTCGTTGGCCGACTTTTGAATGA  
GGCTCTTATTCTAAATTTCCCTATGGCATTGAATGTTTCATCCAGTTCGCTCCCGAGATGGCGTGGC  
CCAGCCCCTGTAATCCATACAGTGCTTCACGGAGACACAGTACTGGAGTAACAATTATGCAAAATAGAC  
CTAAAAGGTTTGATGTAGGCCAAATCTCAAACAAGAACTGTTCTGTGCCACCAAGAGCACTGCAAA  
GGAATTGGAAGCAGTGTGTCAAGACTGGTGCCAACATGCTCATTTTCAGTTTTGAAAAATTTGCCTGAA  
AGTCTGAGCAATGGAAGGCAGCAGCCAATGGAGGGGGCGACTTACGCCCTAAGATTTCTGCTGGTACCA  
GTTGTATAAAATGGGAGGAACAACCTTCAGAACAATATTCAGACTTTACCGTGCCATTGGAAATATAAT  
TCCGTTGCAGACGCTCTGGATGGCGAATACCATTAACCTTCTGGATTTGGTAGAAGTTAACAGTTTCAGTC  
CTTGCTGATCCAAAATTAACGGGACAGGCTCTTATTCCAGGATCAGTAATATACCACAAACAGTCACAAA  
TACTATTGGTTTATTGCAAGGATGGTTGGATTGGTTCGATCAGTGATGCTCAAGAAATCACTAACAGC  
TACTGACTTCTACAATGGATATTTGCACCCCTGGTACCAGAAAAATCCCAAGCTCAACCAAGCCAATGC  
AGATTTTCAGACTCTCAGACTTCCAACAAGAAGAAGCAGAAAAAACTGTTGCTATGCAACAATGCATTG  
AG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207666 representing NM\_139242  
Red=Cloning site Green=Tags(s)

MPSPSPKGLPVKQYAVQSQLPVYEWPDVGSGEYDVGVVASFGRLLEALILKFPYGILNVHPSCLPRWRG  
 PAPVIHTVLHGDTVTGVTIMQIRPKRFDVGPILKQETVPVPPKSTAKELEAVLSRLGANMLISVLKNLPE  
 SLSNGRQQPMEGATYAPKISAGTSCIKWEEQTSQIFRLYRAIGNIIPLOTLWMANTIKLLDLVEVNSSV  
 LADPKLTGQALIPGSVIYHKQSQILLVYCKDGIWVRSVMLKKSLTATDFYNGYLHPWYQKNSQAQPSQC  
 RFQTLRLPTKKKQKKTVMQQCIE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_139242

**ORF Size:** 912 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_139242.2](#), [NP\\_640335.1](#)

**RefSeq Size:** 2763 bp

**RefSeq ORF:** 1170 bp

**Locus ID:** 123263

**UniProt ID:** [Q96DP5](#)

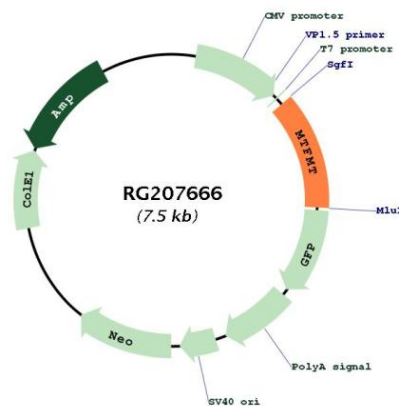
**Cytogenetics:** 15q22.31

**Domains:** formyl\_transf

**Protein Pathways:** Aminoacyl-tRNA biosynthesis, One carbon pool by folate

**Gene Summary:** The protein encoded by this nuclear gene localizes to the mitochondrion, where it catalyzes the formylation of methionyl-tRNA. [provided by RefSeq, Jun 2011]

### Product images:



Circular map for RG207666