

## Product datasheet for **RG205903**

### **RG9MTD1 (TRMT10C) (NM\_017819) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RG9MTD1 (TRMT10C) (NM_017819) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RG9MTD1
Synonyms:	COXPD30; HNYA; MRPP1; RG9MTD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205903 representing NM_017819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGTAGTGTCATTTCTTCAGACCTTCCACCAGGTTTTGGTGCCATTTACCCTTCATAGGAAGA  
GAAATAACTTAACAATTTGCAGAGATACATGTCTTCCAAAATACCAGCTGTACTTATCCTAAAAATGA  
GAGTACACCCCTTCTGAAGAGCTAGAGTTGGATAAGTGGAAAACCATGAAATCTAGTGTGCAAGAA  
GAATGTGTTTCAACAATCTCAAGCAGTAAGGATGAAGATCCTCTAGCTGCCACCAGAGAGTTCATTGAGA  
TGTGGAGATTGCTTGGCAGAGAAGTACCAGAACACATCACTGAAGAAGAGCTCAAAACCTTATGGAATG  
TGTTTCTAACACAGCAAAAAAAAAATTTAAAAATTTATATACGAAGGAAAAAGTAAAAAAGCTAGG  
CAAATAAAAAAGGAAATGAAAGCAGCAGCAAGGGAAGAAGCAAAAAATATCAAGCTGCTAGAAAACCTG  
AGGAAGATAAACAGAAAACTTTCTATTTTTACGACTTTGGGATAGGAATATGGACATAGCAATGGGCTG  
GAAGGGTGCCAGGCCATGCAGTTTGGACAACCTTTGGTTTTGACATGGCTTACGAAAATTATATGAAA  
CGAAAAGAATTGCAGAATACTGTTTCCAGCTTTAGAAAAGTGAAGGATGGAACAGAAAGAAATGTTGATC  
CTTTCCATATTTATTTCTGCAATCTAAAAATAGATGGTGTCTTGCACAGAGAGTTAGTTAAACGGTATCA  
AGAAAAATGGGACAAATTGCTTTAACATCAACAGAAAAGTCTCATGTAGATTTATTTCCAAAGGACAGT  
ATTATCTATTTAACTGCAGATTCTCCCAATGTTATGACTACTTTCAGGCATGACAAGTTTATGTAATTG  
GGTCTTTTGTGATAAGAGTATGCAGCCAGGCACATCCCTAGCCAAGGCAAAACGGCTGAACCTGGCAAC  
TGAATGCCTTCCATTAGATAAATATTTACAATGGGAAATTTGGTAACAAAAATCTCACCTTAGATCAAATG  
ATACGTATTTTGTATGTCTGAAAAAATGGTAATTGGCAAGAGGCTCTGCAATTCGTTCCCAAGAGAA  
AACATACTGGTTTTCTGGAGATTCTCAGCATTCTCAAGAGTTTATCAACAGACTAAAGAAGGCAAGAC  
T

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205903 representing NM\_017819  
 Red=Cloning site Green=Tags(s)

MSVSVNFFRPFFTRFLVPFTLHRKRNNLTILQRYMSSKIPAVTYPKNESTPPSEELELDKWKTTMKSSVQE  
 ECVSTISSKDEDPLAATREFIEMWRLLGREVPHEITEELKTLMECVSNTAKKKYLKYL YTKKVKVKAR  
 QIKKEMKAAAREEAKNIKLLETTEEDKQKNFLFLRLWDRNMDIAMGWKGAQAMQFGQPLVFD MAYENYMK  
 RKELQNTVSQLLESEGWNRRNVDPFHIYFCNLKIDGALHRELVKRYQEKWDLKLLTSTEKSHVDLFPKDS  
 I IYLTADSPNVMTTFRHDKVYVIGSFVDKSMQPGTSLAKAKRLNLATECLPLDKYLQWEIGNKNTLDQM  
 IRILLCLKNNGNWQEALQFVPKRKHTGFLEISQHSQEFINRLKKAKT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017819

**ORF Size:** 1191 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\\_017819.2](#), [NP\\_060289.2](#)

**RefSeq Size:** 1631 bp

**RefSeq ORF:** 1212 bp

**Locus ID:** 54931

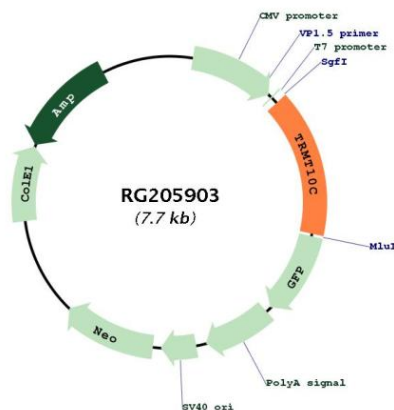
**UniProt ID:** [Q7L0Y3](#)

**Cytogenetics:** 3q12.3

**Domains:** DUF425

**Gene Summary:** This gene encodes the precursor of a subunit of the mitochondrial ribonuclease P, which is involved in 5' processing of mitochondrial tRNAs. The encoded protein may confer RNA-binding capacity to mitochondrial ribonuclease P and may be essential for transcript processing, RNA modification, translation and mitochondrial respiration. [provided by RefSeq, Nov 2012]

### Product images:



Circular map for RG205903