

Product datasheet for **RC205903**

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:	Myc-DDK
Symbol:	RG9MTD1
Synonyms:	COXPD30; HNYA; MRPP1; RG9MTD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205903 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTGTAGTGTCAATTTCTTCAGACCTTCCACCAGGTTTTGGTGCCATTTACCCTTCATAGGAAGA
GAAATAACTTAACAATTTGCAGAGATACATGTCTTCCAAAATACCAGCTGTACTTATCTAAAAATGA
GAGTACACCCCTTCTGAAGAGCTAGAGTTGGATAAGTGGAAAACCATGAAATCTAGTGTGCAAGAA
GAATGTGTTTCAACAATCTCAAGCAGTAAGGATGAAGATCCTCTAGCTGCCACCAGAGAGTTCATTGAGA
TGTGGAGATTGCTTGGCAGAGAAGTACCAGAACACATCACTGAAGAAGAGCTCAAAACCTTATGGAATG
TGTTTCTAACACAGCAAAAAAAAAATTTAAAAATTTATATACGAAGGAAAAAGTGAAAAAGCTAGG
CAAATAAAAAAGGAAATGAAAGCAGCAGCAAGGGAAGAAGCAAAAAATATCAAGCTGCTAGAAAACCTG
AGGAAGATAAACAGAAAACTTTCTATTTTTACGACTTTGGGATAGGAATATGGACATAGCAATGGGCTG
GAAGGGTGCCAGGCCATGCAGTTTGGACAACCTTTGGTTTTGACATGGCTTACGAAAATTATATGAAA
CGAAAAGAATTGCAGAATACTGTTTCCAGCTTTAGAAAAGTGAAGGATGGAACAGAAAGAAATGTTGATC
CTTTCCATATTTATTTCTGCAATCTAAAAATAGATGGTGTCTTGCACAGAGAGTTAGTTAAACGGTATCA
AGAAAAATGGGACAAATGCTTTTAAACATCAACAGAAAAGTCTCATGTAGATTTATTTCCAAAGGACAGT
ATTATCTATTTAACTGCAGATTCTCCCAATGTTATGACTACTTTCAGGCATGACAAGTTTATGTAATTG
GGTCTTTTGTGATAAGAGTATGCAGCCAGGCACATCCCTAGCCAAGGCAAAACGGCTGAACCTGGCAAC
TGAATGCCTTCCATTAGATAAATATTTACAATGGGAAATTTGGTAACAAAAATCTCACCTTAGATCAAATG
ATACGTATTTTGTATGTCTGAAAACAATGGTAATTGGCAAGAGGCTCTGCAATTCGTTCCCAAGAGAA
AACATACTGGTTTTCTGGAGATTCTCAGCATTCTCAAGAGTTTATCAACAGACTAAAGAAGGCAAGAC
T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205903 protein sequence
Red=Cloning site Green=Tags(s)

MSVSVNFFRPFFTRFLVPFTLHRKRNNLTILQRYMSSKIPAVTYPKNESTPPSEELELDKWKTTMKSSVQE
 ECVSTISSKDEDPLAATREFIEMWRLGREGVPEHITTEELKTLMECVSNTAKKKYLKYLTKKEVKVKAR
 QIKKEMKAAAREEAKNIKLLTETTEDKQKNFLFLRLWDRNMDIAMGWKGAQAMQFGQPLVDFMAYENYMK
 RKELQNTVSQLLESEGNRRNVDPFHIFCNLKIDGALHRELVKRYQEKWDLKLLTSTEKSHVDLFPKDS
 I IYLTADSPNVM TFRHDKVYVIGSFVDKSMQPGTSLAKAKRLNLATECLPLDKYLQWEIGNKNLTDQM
 IRILLCLKNNGNWQEALQFVPKRKHGTGFLEISQHSQEFINRLKKAKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6551_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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 Size: 1861 bp

RefSeq ORF: 1212 bp

Locus ID: 54931

UniProt ID: [Q7L0Y3](#)

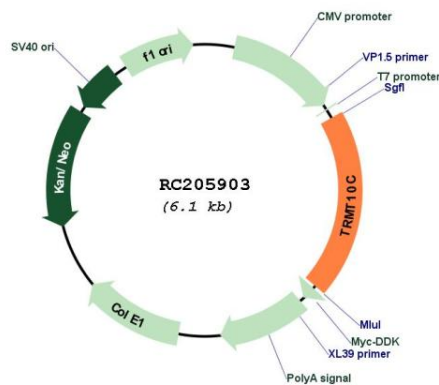
Cytogenetics: 3q12.3

Domains: DUF425

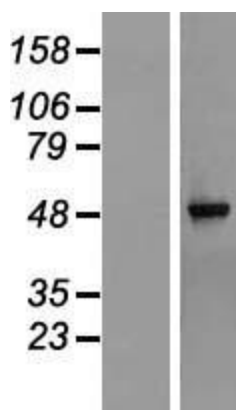
MW: 46.7 kDa

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 RC205903



Western blot validation of overexpression lysate (Cat# [LY413528]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205903 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).