

Product datasheet for **RC236803**

TRMT1 (TRMU) (NM_001282784) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRMT1 (TRMU) (NM_001282784) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TRMU
Synonyms: LCAL3; MTO2; MTU1; TRMT; TRMT1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236803 representing NM_001282784
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCATTGCCACAGGTCACTATGCAAGAACTTCCTGGAAGATGAAGAAGTCTTTGAGCAGAAGCACGT
 TAAGAAGCCC GAAGGGCTTTTCAGAAATCGTTTGAAGTTAGAAATGGTTTCCAGGATGCCCTGAGGAG
 AACCATCTCCCTCTGGGGGATTAACGAAAGAGTTTGTAAAGAAAATCGCTGCTGAGAATAGACTTCAT
 CATGTGCTTCAGAAGAAAGAGAGCATGGGCATGTGTTTCATCGGGAAGAGGAATTTTGAACATTTCTTC
 TTCAGTATCTGCAGCCTCGACCTGGTCACTTTATTTCCATAGAAGACAATAAGGTTCTGGGAACACATAA
 AGGTTGGTTCTGTATACCTTGGGCCAGAGAGCAAACATAGGTGGCCTGAGAGAGCCCTGGTACGTGGTG
 GAGAAGGACAGCGTCAAGGGTGACGTGTTTGTGGCCCCCGGACAGACCACCCAGCCCTGTACAGGGACC
 TGCTGAGGACCAGCCGCTGCACTGGATTGCGGAGGAGCCTCCCGCAGCACTGGTCCGGGACAAGATGAT
 GGAGTGCCACTCCGATCCGCCACCAGATGGCACTAGTTTGTGTGTTCTACAAGGGGGACGAGTGCC
 GGCAGCGGGAAGATCCTGCGGCTGGGGCCGTCTGCCTACACGCTCCAGAAGGGCCAGCGCAGAGCTGGG
 ATGGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236803 representing NM_001282784
Red=Cloning site Green=Tags(s)

MPLPQVTMQELPWKMKKSLSRSTLRSPKGFSEIGLKLEMVSQDALRRTIFPLGGLTKEFVKKIAAENRLH
 HVLQKKE SMG MCF I GKR NFEHFL LQYLQPRPGHF I SIEDNKVLGTHKGWFLYTLGQRANIGGLREPWYVV
 EKDSVKGDV FVAPRTDHPAL YRDLLR T SRVHWI AEPPAAL VRDKMMECHFRFRHQMALVCCVLQGGRPV
 GQREDPAAGAVCLHAPEGPAQSWDGH

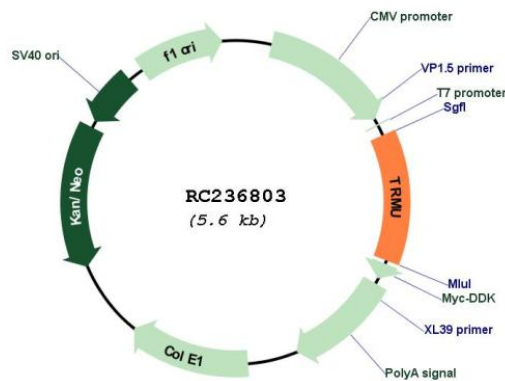
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282784
ORF Size: 708 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_001282784.2
RefSeq Size:	1725 bp
RefSeq ORF:	711 bp
Locus ID:	55687
UniProt ID:	O75648
Cytogenetics:	22q13.31
MW:	27.4 kDa
Gene Summary:	This nuclear gene encodes a mitochondrial tRNA-modifying enzyme. The encoded protein catalyzes the 2-thiolation of uridine on the wobble positions of tRNA(Lys), tRNA(Glu), and tRNA(Gln), resulting in the formation of 5-taurinomethyl-2-thiouridine moieties. Mutations in this gene may cause transient infantile liver failure. Polymorphisms in this gene may also influence the severity of deafness caused by mitochondrial 12S ribosomal RNA mutations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]