

Product datasheet for **RC237349**

TRMT1 (TRMU) (NM_001282782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT1 (TRMU) (NM_001282782) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRMT1
Synonyms:	LCAL3; MTO2; MTU1; TRMT; TRMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237349 representing NM_001282782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGTGTTTCAGGGGCAGATGCCATTGCCACAGGTCACTATGCAAGAACTTCCTGGAAGATGAAGAAG
 TCTTTGAGCAGAAGCACGTTAAGAAGCCGAAGGGCTTTTCAGAAATCGGTTTGAAGTTAGAAATGCGGT
 AAAACTCCTCCAGGCAGCTGACAGCTTTAAAGACCAGACCTTCTTCTCAGCCAGGTTTCCAGGATGCC
 CTGAGGAGAACCATCTTCCCTCTGGGGGATTAAAGAAAGAGTTTGTAAAGAAAATCGCTGCTGAGAATA
 GACTTCATCATGTGCTTCAGAAGAAAGAGAGCATGGGCATGTGTTTCATCGGGAAGAGGAATTTGAACA
 TTTCTTCTTCAGTATCTGCAGCCTCGACCTGGTCACTTTATTTCCATAGAAGACAATAAGTTCTGGGA
 ACACATAAAGTTGGTTCTGTATACCTTGGGCCAGAGAGCAAACATAGGTGGCCTGAGAGAGCCCTGGT
 ACGTGGTGGAGAAGGACAGCGTCAAGGGTGACGTGTTTGTGGCCCCCGGACAGACCACCCAGCCCTGTA
 CAGGGACCTGCTGAGGACCAGCCGCGTGCACTGGATTGCGGAGGAGCCTCCCGCAGCACTGGTCCGGGAC
 AAGATGATGGAGTGCCACTTCCGATTCCGCCACCAGATGGCACTAGTGCCCTGTGTGCTGACCCTCAATC
 AAGATGGCACCGTGTGGGTGACAGCTGTGCAGGCTGTGCGTGCCCTTGCCACAGGACAGTTTGCTGTGTT
 CTACAAGGGGACGAGTGCCTGGGCAGCGGAAGATCCTGCGGCTGGGGCCGTCTGCCTACACGCTCCAG
 AAGGGCCAGCGCAGAGCTGGGATGGCCACTGAGAGCCCCAGTGACAGCCAGAAGATGGTCCAGGCCTGA
 GTCCCTTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC237349 representing NM_001282782
Red=Cloning site Green=Tags(s)

MMCSGADAIAATGHYARTSLEDEEVFEQKHVKKPEGLFRNRFEVRNAVKKLLQAADSFKDQTFFLSQVSQDA
LRRITIFPLGGLTKEFVKKIAAENRLHHVLQKKESMGCMCFIGKRNFEHLLQYLQPRPGHFISIEDNKVLG
THKGWFLYTLGQRANIGGLREPWYVVEKDSVKGDFVAPRTDHPALYRDLLRTSRVHWIAEPPAALVRD
KMMECHFRFRHQMALVPCVLTNLQDGTWVTAVQAVRALATGQFAVFYKGDECLGSGKILRLGPSAYTLQ
KGQRRAGMATESPSPDSDPEDGPGLSPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282782

ORF Size: 921 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_001282782.2

RefSeq Size: 1867 bp

RefSeq ORF: 924 bp

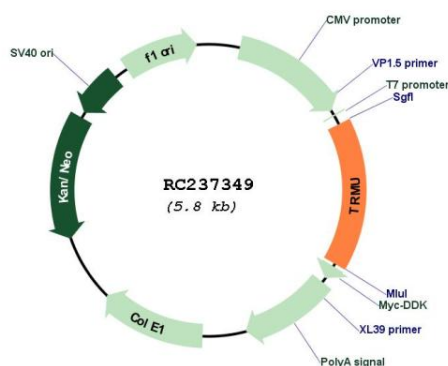
Locus ID: 55687

Cytogenetics: 22q13.31

MW: 35.1 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]

Product images:



Circular map for RC237349