

Product datasheet for **RG237349**

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:	TurboGFP
Symbol:	TRMT1
Synonyms:	LCAL3; MTO2; MTU1; TRMT; TRMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237349 representing NM_001282782. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGTGTTCAGGGCAGATGCCATTGCCACAGGTCACTATGCAAGAACTTCCCTGGAAGATGAAGAA
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AATAGACTTCATCATGTGCTTCAGAAGAAAGAGAGCATGGGCATGTGTTTCATCGGAAGAGGAATTTT
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TTTGCTGTGTTCTACAAGGGGACGAGTGCCTGGGCAGCGGAAGATCCTGCGGCTGGGGCCGTCTGCC
TACACGCTCCAGAAGGGCCAGCGCAGAGCTGGGATGGCCACTGAGAGCCCCAGTGACAGCCCAGAAGAT
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ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
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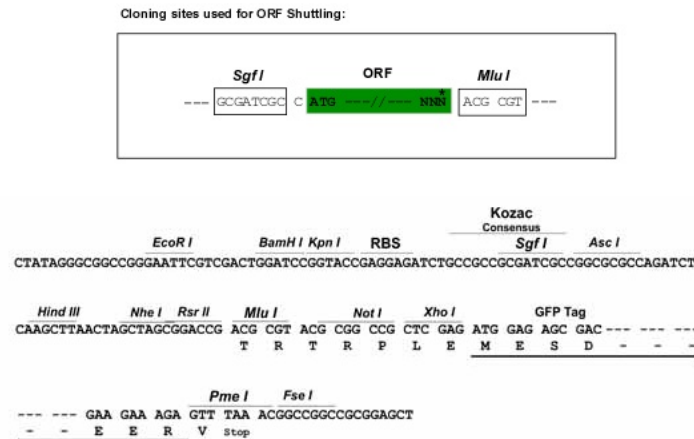
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237349
 Blue=ORF Red=Cloning site Green=Tag(s)

MMCSGADAIATGHYARTSLEDEEVFEQKHVKKPEGLFRNRFEVRNAVKLLQAADSFKDQTFFLSQVSQD
 ALRRTIFPLGGLTKEFVKKIAAENRLHHVLQKESMGMCFIGKRNFHFLLQYLQPRPGHFISIEDNKV
 LGTHKGWFLYTLGQRANIGGLREPWYVVEKDSVKGDVAVAPRTDHPALYRDLLRTRSRVHWIAEPPAAL
 VRDKMMECHFRRRHQMALVPCVLTLNQDGTWVVTAVQAVRALATGQFAVFYKGDDECLGSGKILRLGPSA
 YTLQKGQRRAGMATESPSDSDPEDGPGLSPLL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

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).

RefSeq: [NM_001282782.2](#)

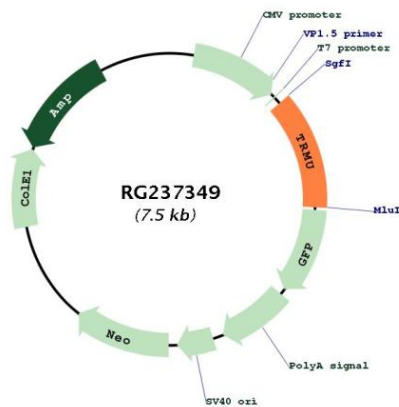
RefSeq Size: 1867 bp

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 RG237349