

Product datasheet for **RG236803**

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:	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:	>RG236803 representing NM_001282784. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCATTGCCACAGGTCACTATGCAAGAACTTCCCTGGAAGATGAAGAAGTCTTTGAGCAGAAGCACG
TTAAGAAGCCGAAGGGCTTTTCAGAAATCGGTTTGAAGTTAGAAATGGTTTCCAGGATGCCCTGAGG
AGAACCATCTCCCTCTGGGGGATTAACGAAAGAGTTTGTAAAGAAAATCGCTGCTGAGAATAGACTT
CATCATGTGCTTCAGAAGAAAGAGAGCATGGGCATGTGTTTCATCGGGAAGAGGAATTTGAACATTTT
CTTCTTCAGTATCTGCAGCCTCGACCTGGTCACTTTATTTCCATAGAAGACAATAAGGTTCTGGGAACA
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AGGGACCTGCTGAGGACCAGCCGCTGCACTGGATTGCGGAGGAGCCTCCCGCAGCACTGGTCCGGGAC
AAGATGATGGAGTGCCACTTCCGATTCGCCACCAGATGGCACTAGTTTGTCTGTGTTCTACAAGGGGGA
CGAGTGCTGGGCAGCGGAAGATCCTGCGGCTGGGGCCGTCTGCCTACACGCTCCAGAAGGGCCAGCG
CAGAGCTGGGATGGCCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



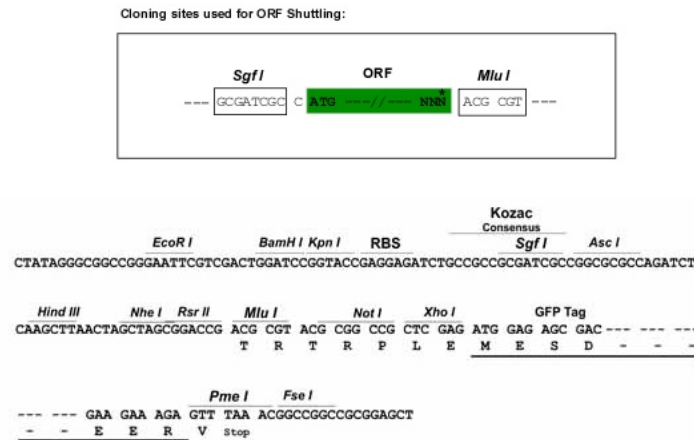
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG236803
 Blue=ORF Red=Cloning site Green=Tag(s)

MPLPQVTMQELPWKMKKSLSRSTLRSPKGFSEIGLKLEMVSQDALRRTIFPLGGLTKEFVKKIAAENRL
 HHVLQKKESMGMCFIGKRNFEHLLQYLQPRPGHFI SIEDNKVLGTHKGWFLYTLGQRANIGGLREPWY
 VVEKDSVKGDVAVAPRTDHPALYRDLRLTRSRVHWIAEEPAAALVRDKMMECHFRFRHQMALVCCVLQGG
 RVPGQREDPAAGAVCLHAPEGPAQSWDGH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq: [NM_001282784.2](#)

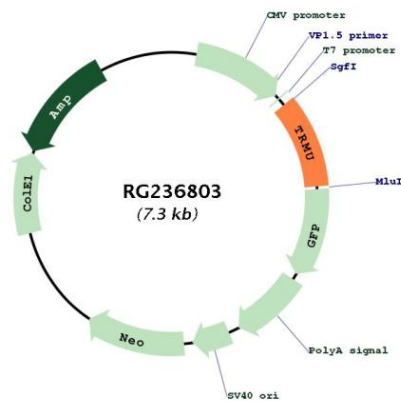
RefSeq Size: 1725 bp

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]

Product images:



Circular map for RG236803