

## Product datasheet for **SC334697**

### TRMT1 (TRMU) (NM\_001282784) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRMT1 (TRMU) (NM_001282784) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRMU
Synonyms:	LCAL3; MTO2; MTU1; TRMT; TRMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282784, the custom clone sequence may differ by one or more nucleotides

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ATGCCATTGCCACAGGTCACTATGCAAGAACTCCCTGGAAGATGAAGAAGTCTTTGAGCAGAAGCACGT  
TAAGAAGCCCGAAGGGCTTTTCAGAAATCGGTTTGAAGTTAGAAATGGTTTCCCAGGATGCCCTGAGGAG  
AACCATCTCCCTCTGGGGGATTAACGAAAGAGTTTGTAAAGAAAATCGCTGCTGAGAATAGACTTCAT  
CATGTGCTTCAGAAGAAAGAGAGCATGGGCATGTGTTTCATCGGGAAGAGGAATTTGAACATTCCTTC  
TTCAGTATCTGCAGCCTCGACCTGGTCACTTTATTTCCATAGAAGACAATAAGGTTCTGGGAACACATAA  
AGGTTGGTTCCTGTATACCTTGGGCCAGAGACAAACATAGGTGGCCTGAGAGAGCCCTGGTACGTGGT  
GAGAAGGACAGCGTCAAGGGTGACGTGTTGTGGCCCCCGACAGACCACCCAGCCCTGTACAGGGACC  
TGCTGAGGACCAGCCGCTGCACTGGATTGCGGAGGAGCCTCCCGCAGCACTGGTCCGGGACAAGATGAT  
GGAGTGCCACTTCGGATTCCGCCACCAGATGGCACTAGTTTGCTGTGTTCTACAAGGGGGACGAGTGCCT  
GGGCAGCGGGAAGATCCTGCGGCTGGGGCCGTCTGCCTACACGCTCCAGAAGGGCCAGCGCAGAGCTGGG  
ATGGCCACTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001282784
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001282784.1, NP_001269713.1</u>
<b>RefSeq Size:</b>	1725 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	55687
<b>UniProt ID:</b>	<u>O75648</u>
<b>Cytogenetics:</b>	22q13.31
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (6) contains multiple differences in the coding region, including initiation of translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (f) is shorter and has a distinct C-terminus, compared to isoform a.</p>