

## **Product datasheet for RC219032L1**

#### OriGene Technologies, Inc.

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### TRMT1 (TRMU) (NM\_018006) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: TRMT1 (TRMU) (NM\_018006) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: TRMT1

Synonyms: LCAL3; MTO2; MTU1; TRMT; TRMT1

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC219032).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_018006

ORF Size: 1263 bp





#### TRMT1 (TRMU) (NM\_018006) Human Tagged Lenti ORF Clone - RC219032L1

**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.

**RefSeq:** <u>NM 018006.3</u>

 RefSeq Size:
 1970 bp

 RefSeq ORF:
 1266 bp

 Locus ID:
 55687

 UniProt ID:
 075648

 Cytogenetics:
 22q13.31

**Domains:** tRNA\_Me\_trans

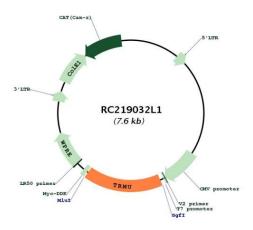
**MW:** 47.6 kDa

**Gene Summary:** This nuclear gene encodes a mitochondrial tRNA-modifying enzyme. The encoded protein

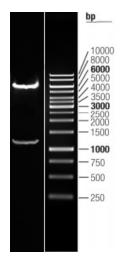
catalyzes the 2-thiolation of uridine on the wobble positions of tRNA(Lys), tRNA(Glu), and tRNA(Gln), resulting in the formation of 5-taurinomethyl-2-thiouridine moieties. Mutations in this gene may cause transient infantile liver failure. Polymorphisms in this gene may also influence the severity of 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 RC219032L1



Double digestion of RC219032L1 using Sgfl and Mul