

## Product datasheet for SC335734

### TRMT1 (TRMU) (NM\_001282785) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | TRMT1 (TRMU) (NM_001282785) 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:      | >SC335734 representing NM_001282785.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

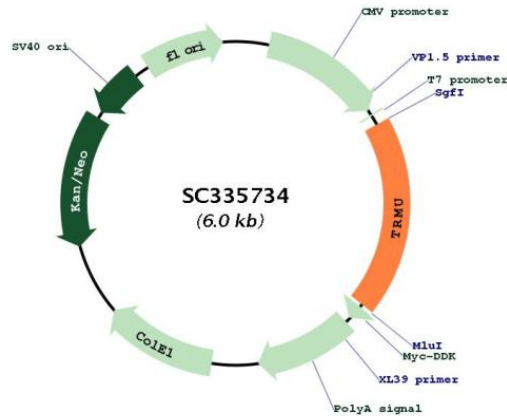
```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGAGCCTTGCAGCAGCTCGTGTGCGCCCTGTCCGGCGCGTGGACAGCGCCGTGGCCGCGCTGCTG
CTGAGGCGGAGAGGTTACCAGGTGACAGGGGTGTTTATGAAGAACTGGGACTCACTGGATGAACATGGG
GTCTGTACTGCCGACAAAGACTGTGAAGATGCTTACAGAGTTTCCAGATCTTAGACATCCCTTTCCAT
CAAGTGTCTACGTAAGGAGTATTGGAATGATGTGTTCCAGTGACTTTTTGAATGAGTATGAAAAAGGA
AGGACTCCAATCCTGACATAGTTTGAACAAGCACATCAAATTTAGTTGCTTTTTTTCATTATGCTGTG
GATAATCTTGGGCAGATGCCATTGCCACAGGTCCTATGCAAGAACTCCCTGGAAGATGAAGAAGTC
TTTGAGCAGAAGCACGTTAAGAAGCCGAAGGGCTTTTCAGAAATCGGTTTGAAGTTAGAAATGCGGTA
AACTCCTCCAGGCAGCTGACAGCTTAAAGACCAGACCTTCTTCTCAGCCAGGTTTCCAGGATGCC
CTGAGGAGAACCATCTTCCCTCTGGGGGATTAACGAAAGAGTTTGTAAAGAAAAATCGCTGCTGAGAAT
AGACTTCATCATGTGCTTCAAGAAAGAGAGCATGGGCATGTGTTTCATCGGGAAGAGGAATTTTGA
CATTTCTTCTCAGTATCTGCAGCCTCGACCTGGTCACTTTATTTCCATAGAAGACAATAAGGTTCTG
GGAACACATAAAGGTTGGTTCCTGTATACCTTGGGCCAGAGAGCAACATAGGTGGCCTGAGAGAGCCC
TGGTACGTGGTGGAGAAGGACAGCGTCAAGGGTGACGTGTTTGTGGCCCCCGGACAGACCACCCAGCC
CTGTACAGGGACCTGCTGAGGACCAGCCGCGTGCCTGGATTGCGGAGGAGCCTCCCGCAGCACTGGTC
CGGGACAAGATGATGGAGTGCCACTTCCGATTCCGCCACCAGATGGCACTAGTTTGTGTTCTACAA
GGGGGACGAGTGCTGGCAGCGGGAAGATCCTGCGGCTGGGGCCGCTCTGCCTACACGCTCCAGAAGGG
CCAGCGCAGAGCTGGGATGGCCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

## Plasmid Map:



ACCN: NM\_001282785

Insert Size: 1131 bp

**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).

**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: [NM\\_001282785.1](#)

RefSeq Size: 1891 bp

RefSeq ORF: 1131 bp

Locus ID: 55687

UniProt ID: [O75648](#)

Cytogenetics: 22q13.31

MW: 43 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]  
Transcript Variant: This variant (7) lacks an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (g) is shorter and has a distinct C-terminus, compared to isoform a.